Panasonic

GENERAL CATALOGUE 2026 / 2027

TOTAL HVAC&R SOLUTION

heating & cooling solutions

EDITORIAL

Panasonic – leading the way in Heating and Cooling. With 65 years of experience, selling to more than 120 countries around the world, Panasonic is one of the leaders in the heating and cooling sector.

Bringing nature's balance indoors.

nanoe™ X, technology with the benefits of hydroxyl radicals that have the capacity to inhibit pollutants, viruses, and bacteria and deodorise.

AQUAREA

Aquarea is a ground breaking low energy system for heating and domestic hot water production: delivering outstanding performance, even at extreme outdoor temperatures.

Big Aquarea T-CAP M Series, for centralised heating and DHW.

The Big Aquarea M Series offers a flexible, compact and energy efficient solution for central heating and/or domestic hot water installations in multi-family or commercial buildings.

DOMESTIC

Panasonic has developed a range of domestic products designed for you and your clients.

New Etherea with nanoe™ X technology.

Etherea features nanoe™ X technology, class-leading performance, intelligent features, and a stylish design. It is designed to make your home comfortable, clean and the ideal place to be.

COMMERCIAL AIR TO AIR – PACi NX

The commercial range is continuously being improved to offer the optimal solutions. High performance, silent operation and a wide range of indoor units and connectivity available.

New multi zone duct.

Experience efficient and comfort climate control, offering individual temperature management for each zone. Its flexible design supports up to 5 zones, ensuring adaptability for various layouts. Installation is simple and effective, with built-in Wi-Fi enabling smart control for maximum convenience.

COMMERCIAL VRF SYSTEMS - ECOi AND ECO G

Panasonic provides an extensive range of solutions for medium and large sized buildings, combining the best options to satisfy all needs and site restrictions.

Extended ECOi EX range R32.
2-Pipe MZ1 Series.
New 3 Pipe MF4 Series.

Extreme efficiency, quality, compact. With advanced R32 refrigerant technology and optimised system design, this series offers a more sustainable solution compared to R410A.

VENTILATION

Panasonic ventilation solutions for maximum savings and easy integration.

Energy recovery ventilation.

Panasonic energy recovery ventilations (ERV) help to improve your comfort and energy saving plan.
Introducing the ERV with DX coil - HRPT Series, specifically designed for commercial applications or collective residential buildings, offering highly efficient heat recovery.

CONTROL AND CONNECTIVITY

From the individual remote controller for the residential single units up to the newest technology capable of controlling your building anywhere in the world.

Commercial Smart Edge.

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.

CHILLERS AND HEAT PUMPS, AND WATER SOURCE HEAT PUMPS - ECOi-W

Panasonic solutions to suit a variety of commercial and industrial applications. Our systems provide the optimal performance in any climatic condition.

ECOi-W AQUA-G EVO R290.

Unmatched innovation.

ECOi-W AQUA-G EVO with Inverter technology and natural refrigerant R290. Combine efficiency and comfort in one compact package.

FAN COIL UNITS

Stylish, premium units for residential projects with a sophisticated, compact design and customizable, flexible units for commercial applications.

Flex Air Smart fan coil – Wall-mounted.

The Flex Air Smart fan coil – Wall-mounted with modern, stylish design comes with the nanoe™ X technology (Generator Mark 3) for improved indoor air quality.
It is ideal for both residential and commercial applications.

ROOFTOPS

Rooftop units provide air-based cooling and heating for commercial buildings to ensure thermal comfort and proper indoor air quality (IAQ) through ventilation.

ECOi-RT.

With Rooftop units, you get a complete compact and mono-bloc solution to heat and cool large buildings such as shopping centers, industries or airports that need high capacities. It is an easy to install, space saving solution, directly on the roof or close to a building.

REFRIGERATION

Moving to more sustainable refrigeration solutions – iCO2RE and iCOOL ranges, offering a complete line of cooling solutions using CO_2, A2L, and HFC/HFO refrigerants.

iCO2RE range - CO_2 at the core of innovative refrigeration.

Panasonic's iCO2RE range is a new generation of CO_2 condensing units, built on sustainability, energy efficiency, and flexibility. Using CO_2 – a natural refrigerant – iCO2RE supports today's environmental goals while delivering reliable, high-performance cooling.

DIMENSIONS

WIRING DIAGRAMS

CE

Quality Management System Certificate

ISO 9001: 2015
Panasonic Appliances Air-Conditioning Malaysia. Sdn.Bhd.
Cert. No.: QMS 00413

GB/T 19001-2016/ISO 9001: 2015
Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd.
Registration Number: 01218Q30835R8L

Environmental Management System Certificate

ISO 14001: 2015
Panasonic Appliances Air-Conditioning Malaysia Sdn.Bhd.
Cert. No.: EMS 00109

GB/T 24001-2016/ISO 14001: 2015
Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd.
Registration Number: 02118E10944R7M

Panasonic environmental vision 2050

To achieve "a better life" and "a sustainable global environment," Panasonic will work towards creation and more efficient utilisation of energy which exceeds the amount of energy used, aiming for a society with clean energy and a more comfortable lifestyle.

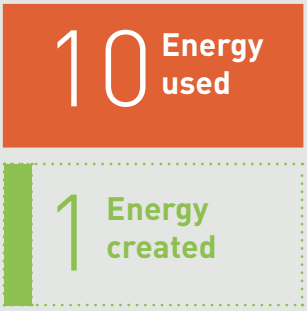
Energy used < Energy created

One initiative in the Panasonic environmental vision 2050 is offering products with greater energy efficiency. In 2018, we celebrated the 60th anniversary of our Heating & Cooling Solutions business. Our expertise gained over the years has helped us launch a range of products that contribute to a more carbon-free society.

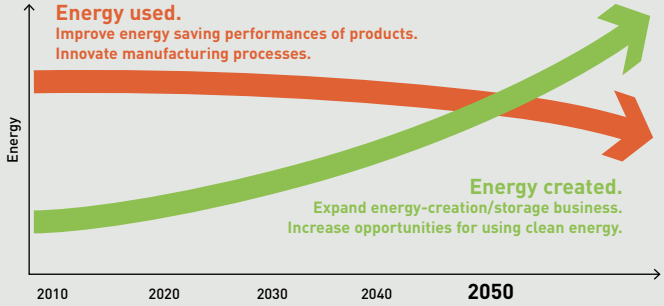
Current status of energy used and energy created

Energy used by Panasonic business activities and products.

Clean energy created and / or made available by Panasonic products, etc.



Working to realise environmental vision 2050



Heating and cooling solution with R290 natural refrigerant

Following Panasonic's Environmental Vision 2050, Panasonic presents an advanced, high-energy saving heating and cooling solution utilising the natural refrigerant R290 with a low GWP of 0,02. These solutions not only minimise environmental impact but also enhance energy efficiency and comfort in heating and cooling.

Aquarea M and L Series (5 - 300 kW*).

ECOi-W AQUA-G Series (50 – 880 kW*).

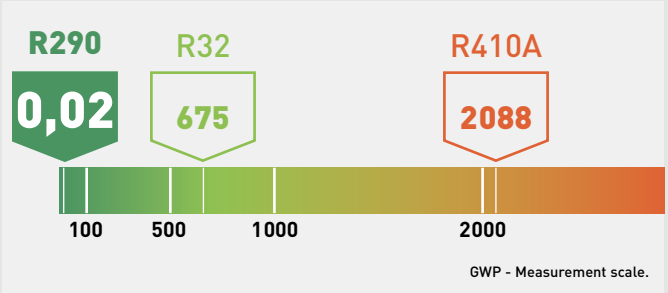
The R290 refrigerant technology has been integrated across a wide range of heating and cooling solutions, meeting both residential and commercial needs. These solutions are available in capacities from 5 to 880 kW*.

*Cascade control required.

Contributing to the decarbonisation of society.

Natural refrigerant R290 has low Global Warming Potential (GWP) of just 0,02* (R32:675 and R410A: 2088), helping reduce CO_2 emissions and environmental impact. It's a green alternative solution for any residential and commercial projects and delivers outstanding performance, aligning with Panasonic vision of a carbon-free society and our GREEN IMPACT plan.

*GWP 0,02 (AR6). Based on the Sixth Assessment Report adopted by the Intergovernmental Panel on Climate Change (IPCC).

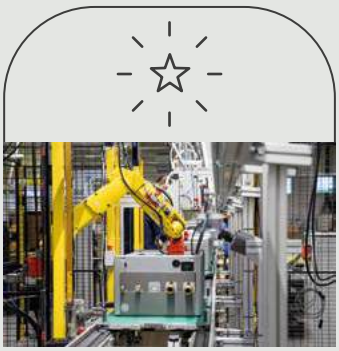


Industry leading Panasonic technology with natural refrigerant R290.

Panasonic's heating and cooling solution with R290 natural refrigerant, is not only a 'green solution' but also delivers outstanding performance to meet the demands of the most challenging projects. An ideal solution with high performance and quality, coupled with minimized environmental impact, making it a worthwhile investment for the future.

High water outlet temperature up to 75 °C.

Quiet operation.



High quality, made in Europe.

Range from 5 to 80 kW, boost capacity up to 640 kW with a cascade control.

*The specification varies depending on the series. Please check the detailed information on each product page.

Complete HVAC&R solutions powered by natural refrigerants

Delivering sustainable, high efficiency heating and cooling for future-ready grocery stores.

R744 R290

iCO2RE CO_2 Series.

iCO2RE

Reliable, flexible refrigeration for low and medium temperatures – showcases and cold rooms.

Food safety, better air quality by nanoe™ X. Supports Food Safety (HACCP Certified) and inhibits mould, bacteria and viruses. No maintenance required.

HACCP INTERNATIONAL FOOD SAFETY PROGRAMMEN CERTIFICATION

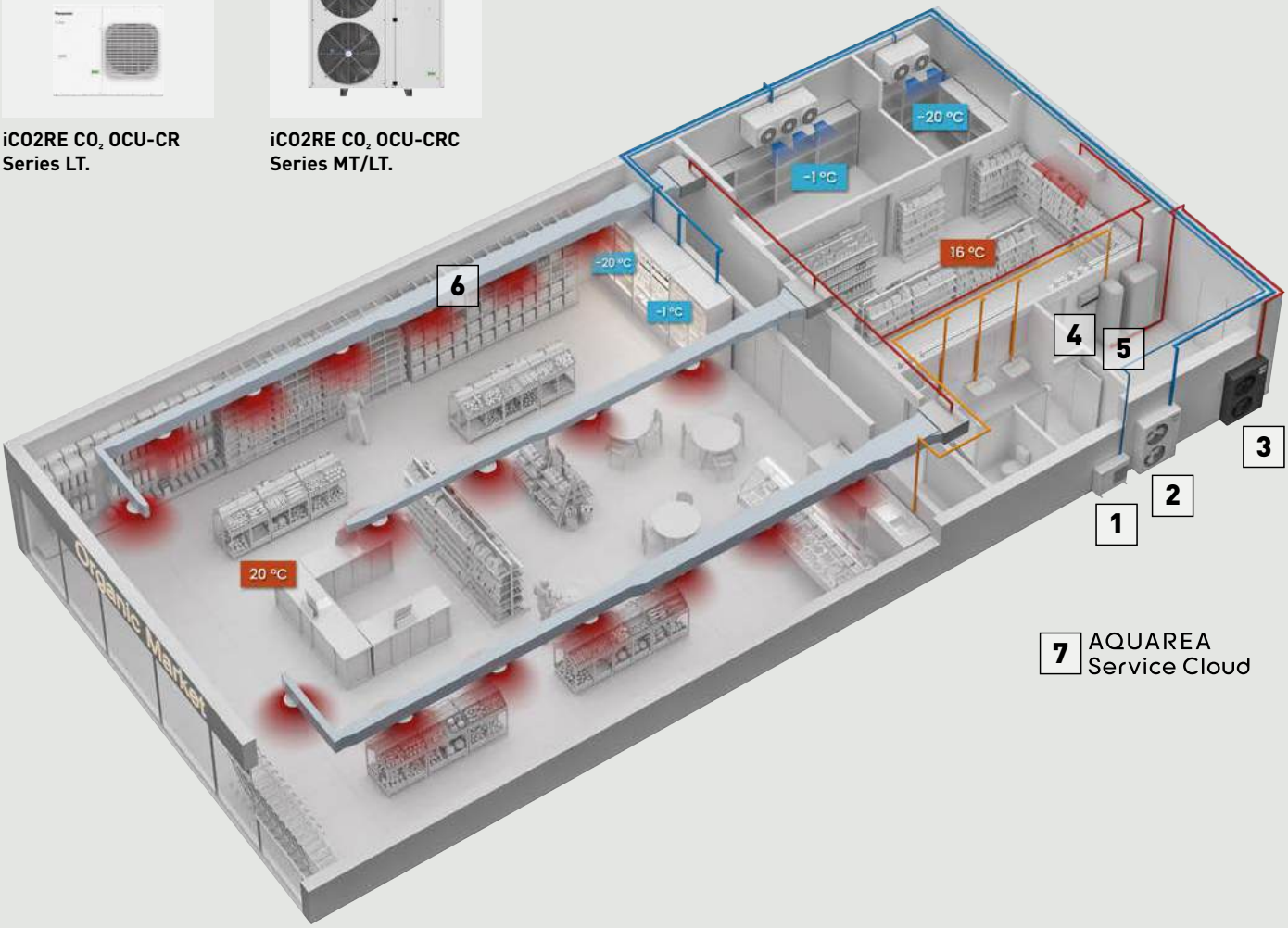
nanoeX

1

iCO2RE CO_2 OCU-CR Series LT.

2

iCO2RE CO_2 OCU-CRC Series MT/LT.



7 AQUAREA Service Cloud

Aquarea M Series.

AQUAREA

· Up to A+++ energy rated – comfort heating and cooling to 300 kW
· Maximum 75 °C water outlet temperature

3

Big Aquarea T-CAP M Series.

4

M Series control module.

5

High-efficiency DHW tank.

6

Ducted fan coil with nanoe™ X built-in.

7

Aquarea Service Cloud – remote monitoring and maintenance.

Your partner for service and maintenance operations

Reliable operation is essential for ensuring comfort, energy efficiency, and long-term system durability. Our comprehensive service and maintenance solutions are designed to support you throughout the entire lifecycle of your installation.

RELIABLE COMMISSIONING

PROFESSIONAL MAINTENANCE

EFFICIENT REPAIR

FULL CUSTOMER SUPPORT

GUARANTEED WARRANTY

Our European service network delivers fast, expert support on-site or remotely through certified technicians and IoT monitoring. With a minimum of 10 years of original spare-parts availability and advanced tools, long-term performance is ensured.

The benefits of a regular maintenance.

Preventive maintenance.
Keep the unit healthy.

Predictive maintenance.
Prevent failures early.

Corrective maintenance.
Act fast when issues occur.

1
Maximize energy efficiency and reduce energy bills.

2
Reduced operating costs by minimizing unexpected failures.

3
Extend equipment life with timely inspections.

4
Improved reliability and comfort even during peak seasons.

Comprehensive maintenance solution for end users and professionals.

AQUAREA Service+

Maintenance package to support your business.
With Aquarea Service+ packages*, you get remote monitoring and expert maintenance for reliable, uninterrupted heat pump operation.

*Availability varies according to the countries.

AQUAREA Service Cloud + P-SMART EDGE

Service and maintenance tools for professionals.
Save time and reduce project costs with Panasonic's remote control and maintenance tools, for system setup, monitoring, diagnostics and failure alerts.

Case studies

Panasonic, your partner with the knowledge and experience to realize your projects, both at the national and international levels, implementing them on time and within budget. Solutions that not only cut costs but are also efficient, climate-friendly, user-friendly, reliable, and innovative.

Arctic Treehouse Hotel.
Rovaniemi, Lapland, Finland.
Power Heat Multi.

The multi system for extremely cold weather is installed in the cosy Arctic Glasshouse to ensure comfort and air quality in the lounge and 2 bedrooms of the cabin on the coldest days.

Single family house.
Höllviken, Sweden.
Aquarea with natural refrigerant R290.

Aquarea L Series with R290 replaced an old heating system, providing comfort in cold weather and reducing energy costs. Being connected to the Aquarea Service Cloud, the heat pump can be monitored remotely by a service company.

Weinbuch Butcher's Shop.
Shop - Restaurant.
Öpfingen. Germany.
VRF, Domestic and Refrigeration.

The entire meat production cold rooms are equipped with Panasonic CO_2 condensing units, and ECOi EX systems for cooling and a part of the heating for areas such as the Bistro, production facility, and Drive-in stations.

Panasonic air to water heat pumps factory.
Pilsen, Czech Republic.
VRF, Rooftop and Chillers.

This project combines high-efficient ECOi EX, ECOi-RT, ECOi-W, Air Handling Unit connections, and fan coils delivering capacity up to 4800 kW to heat and cool production, testing, and administrative areas with maximum reliability and flexibility across the facility.

As a global company, Panasonic offers European coverage for support, providing financial, logistical, and technical resources to develop comprehensive and wide-ranging solutions at both national and international levels. This ensures timely and budget-conscious implementation.

Passivhouse in Miño.
Residential passive house.
Miño, Spain.
Aquarea.

Pervalkos Jūra.
Residential.
Pervalka, Lithuania.
Aquarea.

Crosslight House.
Residential building.
Mulazzano, Italy.
PACi and nanoe™ X.

Varna Wave Building.
Residential building.
Varna, Bulgaria.
Aquarea and Panasonic Comfort Cloud App.

Gutenfels.
Hotel.
Kaub, Germany.
Aquarea and Panasonic Comfort Cloud App.

Maison Tirel Guerin.
Hotel- Restaurant.
Saint Méloir-des-Ondes, France.
Mini ECOi.

South Lodge.
Luxury 5 star Hotel and Spa.
West Sussex, United Kingdom.
PACi, Control and nanoe™ X.

Gurewicz Spa Resort.
Hotel- Restaurant - Spa.
Otwock, Poland.
PACi, VRF and Control.

Hotel Moxy Oriente.
Hotel.
Lisboa, Portugal.
PACi, VRF and Control.

Thon Hotel Harstad.
Hotel.
Harstad, Norway.
PACi, VRF and Refrigeration.

AirHop.
Indoor adventure and trampoline park.
Gloucester. United Kingdom.
PACi and Jet Air Stream.

Hungarian Cédrus Liget. A complex facility including apartments, offices and commercial units.
Szeged, Hungary.
ECOi-W, ECOi and ERV.

Belfast Grand Opera House.
Public building.
Belfast, United Kingdom.
PACi, VRF and Control.

Amandiers.
Sports complex.
Carrierre sur Seine, France.
ECOi-W.

Public school.
Białystok, Poland.
ECOi-W AQUA-G BLUE.

Stemcell Technologies.
Global biotechnology company.
Saint-Egrève, France.
Refrigeration.

A desire to create things of value

"Recognising our responsibilities as industrialists, we will devote ourselves to the progress and development of society and the well-being of people through our business activities, thereby enhancing the quality of life throughout the world."

Panasonic Corporation's Basic Management Objective, formulated in 1929 by the company's founder, Konosuke Matsushita.

1958
First room air conditioner launched for domestic installation.

1971
Starts production of absorption chillers.

1975
Panasonic becomes one of the first Japanese air conditioner manufacturers in Europe.

1982
Panasonic launches the first highly efficient air to water heat pump in Japan.

1985
Introduces first GHP (gas heat pump) VRF air conditioner.

1989
Introduces world's first simultaneous 3-Pipe heating / cooling VRF System.

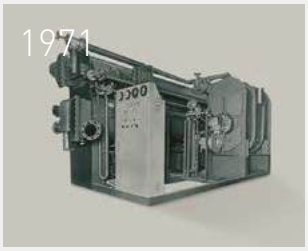
2008
World's first air conditioner equipped with nanoe™.

2010
New Aquarea. Panasonic introduces Aquarea, an innovative new, low-energy system in Europe.

2012
New Panasonic GHP units. The gas-driven VRF Systems are ideal for projects where power restrictions apply.

2015
CO_2 condensing units in Europe. The ideal solution for supermarkets, shops and gas stations.

2016
New VRF Systems ECOi EX with extraordinary energy saving performance.



Vitalize the future with air

These are times of exceptional challenge.
If the world is to move forward confidently, it must overcome the serious threats of the new global pandemics and the degrading of the environment. It must find ways large and small to reduce the stresses that affect people's health and the stability of their communities.

At Panasonic, we're utilizing the power of air to create positive change.
Air that benefits body and mind.
Air that energizes the places where people gather to work and play.
Air that reduces our burden on the Earth.
With more than a century of research and expertise to guide us, we're using air to open a more hopeful and vital future for all.

2018
The first Hybrid System with VRF and GHP in Europe.
—
Opening heat pump production line in Czech Republic, Europe.

2019
Panasonic introduces a new Chiller Series which is named as ECOi-W.

2020
nanoe™ X, technology with the benefits of hydroxyl radicals. Improving protection 24/7.
Built-in nanoe™ X technology expanded to commercial solutions.

2021
Mini VRF R32 up to 10 HP. Outstanding efficiency in a compact body.
—
A2W maintenance.

2022
ECOi-W R32, the new range of low GWP chiller solutions to suit a variety of commercial and industrial applications.

2023
Aquarea Heat Pumps with natural refrigerant R290.
—
The first European for hydronics products.

2024
ECOi-W AQUA-G BLUE. Air to water reversible heat pumps. Powered by R290, a natural refrigerant.
—
Collaboration with key partners.

2025
Aquarea Heat Pumps + tado°, the integrated solution for maximum energy savings and comfort.
—
The first commercial refrigeration factory in Wrocław, Poland.

2026
Introduction of iCO2RE and iCOOL commercial refrigeration ranges in Europe.

Looking ahead

Panasonic HVAC&R solution map

HYDRONIC

AQUAREA. Air to water heat pumps.

Peripherals: Fan coil units / Water Loop heat pumps / DHW Heat Pump / Hot water tanks / Smart solutions and connectivity / Room control.

5 kW - 30 kW (up to 300 kW with a cascade controller)

MULTI-FAMILY HOMES

SINGLE HOMES

LIGHT COMMERCIAL

DIRECT EXPANSION

2 kW - 7,1 kW

ETHEREA & More. Domestic air to air heat pumps.

Peripherals: Wi-Fi control and connectivity.

2,5 kW - 25 kW

PACi NX. Light commercial air to air heat pumps.

Peripherals: Air to air indoor units / Low temperature configuration / Water Heat Exchanger.

VENTILATION

90 m³/h - 455 m³/h

Residential ventilation.

Peripherals: Air distribution solutions / Wi-Fi control and connectivity.

Panasonic offers a wide range of HVAC&R solutions for various applications, from residential and multi-family homes to commercial buildings and specialised applications such as data centres and refrigeration. Each range delivers highly efficient and reliable performance, meeting the needs of every application.

ECOi-W. Commercial chiller and heat pump.

Peripherals: Fan coil units / Water source heat pumps / Connectivity.

20 kW - 1550 kW

TECNAIR*.
Close Control.

10 kW - 500 kW

COMMERCIAL / INDUSTRIAL

DATA CENTRE

REFRIGERATION

63 kW - 197 kW

ECOi-RT.
Commercial Rooftop.

4 HP - 80 HP

ECOi.
Commercial VRF.

Peripherals: Air to air indoor units / Water Heat Exchanger / Connectivity.

MT: 2,5 - 42,0 kW, LT: 1,2 - 15,0 kW

iCO2RE / iCOOL.
Commercial refrigeration.

150 m³/h - 40000 m³/h

Commercial ventilation.

Energy recovery ventilation with DX / Air curtains / AHU connection kit.

SERVICE AND MAINTENANCE

*Availability varies by country.

Bringing nature's balance indoors

nanoe™ X, technology with the benefits of hydroxyl radicals.

In today's health-conscious world, we care about taking exercise, we care about what we eat and what we touch, we also care about what we breathe – and technology exists to bring good outdoor air, indoors.

nanoe 100 MILLION UNITS

Cumulative global shipments of **nanoe™** and **nanoe™ X** devices exceed 100 million units*

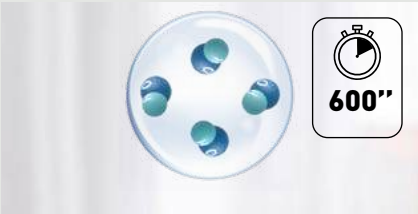
*From July 2024, the results apply to all other products with nanoe™ and nanoe™ X devices, including heating and cooling.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be, whether at home, work, or visiting hotels, shops and restaurants etc.

A naturally occurring process

Hydroxyl radicals are unstable molecules looking to react with other elements like hydrogen, capturing it. Thanks to this reaction, hydroxyl radicals have the potential to inhibit the growth of pollutants such as bacteria, viruses, moulds, and odours, breaking them down and neutralising the unpleasant effects. This naturally occurring process has major benefits to improve indoor environments.

Hydroxyl radicals in nature.

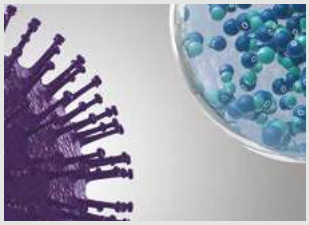


Hydroxyl radicals contained in water.

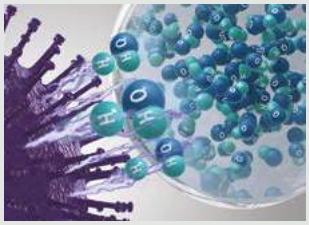
By creating hydroxyl radicals contained in water, nanoe™ X technology significantly boosts their effectiveness, increasing hydroxyl radicals lifetime from less than a second in nature, to more than 600 seconds – 10 minutes so that nanoe™ X can spread easily around the room.

Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



2 | Hydroxyl radicals denature pollutants' proteins.

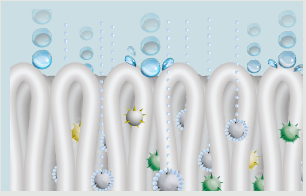
3 | Pollutants activity is inhibited.

The well-being benefits of nature are well known – but do you know the power of hydroxyl radicals?

What is unique about nanoe™ X?

Hydroxyl radicals inhibit pollutants, certain types of viruses, and bacteria to clean and deodorise. Thanks to this advanced technology, even tightly woven fabrics can be treated using this solution, meaning that curtains, blinds, carpets and furniture can all benefit from this technology to inhibit hazardous substances – including on hard surfaces and, of course, the air that we breathe.

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

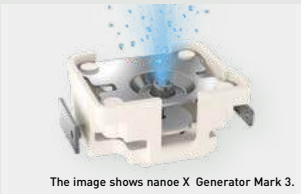
Longer lifespan.

2 | Contained in tiny water particles, nanoe™ X has a long lifespan, which is about 600 seconds, to spread easily around the room.

Huge quantity.

3 | nanoe X Generator Mark 3 produces 48 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.



The image shows nanoe X Generator Mark 3.

4 | No service and maintenance required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X – Panasonic unique technology

Deodorises

Odours

Capacity to inhibit 5 types of pollutants

Bacteria and viruses · **Mould** · **Allergens** · **Pollen** · **Hazardous substances**

Moisturises

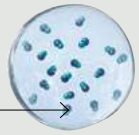
Skin and hair

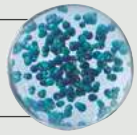
*Refer to https://aircon.panasonic.eu for more details and validation data.

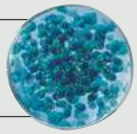
First nanoe™ device was developed by Panasonic in 2003

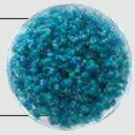
Introducing nanoe X Generator Mark 3, the latest of the continuously evolving nanoe™ X technology, it has the largest amount of hydroxyl radical in the history of nanoe™ (48 trillion hydroxyl radical per second, 100 times the traditional nanoe™). The increased number of hydroxyl radical, which are the key to nanoe™ effectiveness, means you can expect an even higher level of performance.

Generator: nanoe™	Generator: nanoe™ X		
2003	**Mark 1** - 2016	**Mark 2** - 2019	**Mark 3** - 2022
480 billion hydroxyl radicals/sec	4,8 trillion hydroxyl radicals/sec	9,6 trillion hydroxyl radicals/sec	48 trillion hydroxyl radicals/sec
Ion particle structure	10x times	20x times	100x times









nanoe™ X, internationally-validated technology in testing facilities.

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Japan and China.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.
Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

Panasonic heat pump with nanoe™ X technology verified against SARS-CoV-2

Virus SARS-CoV-2: 91,4% inhibited. Test conducted by TEXCELL (France), using a gauze saturated with SARS-CoV-2 virus solution exposed to Panasonic heat pump with nanoe™ X in a space of 6,7 m³ over 8 hours. Test report: 1140-01 C3. Performance of nanoe™ X might differ in real life environment.

	Tested contents		Generator	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Influenza (H1N1)	Mark 2	98,3% inhibited	30 m³	1,5 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2003WT8888-00889
		Bacteriophage ΦX174	Mark 1	99,2% inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	Mark 1	99,7% inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	24_0301_1
Adhering	Virus	SARS-CoV-2	Mark 1	91,4% inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	Mark 1	99,9% inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Bacteriophage ΦX174	Mark 1	99,8% inhibited	Approx. 25 m³	8 h	Japan Food Research Laboratories	13001265005-01
		Xenotropic murine leukemia virus	Mark 1	99,999% inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Coxsackie virus (CA16)	Mark 2	99,9% inhibited	30 m³	4 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2002WT8888-00439
		Bacteriophage	**Mark 3**	98,81% inhibited	Approx. 139,3 m³	4 h	SGS Inc	SHES210901902584
		MS2 Phage Virus	**Mark 3**	99,99% inhibited	Approx. 25 m³	2 h	Shokukanken, Inc.	227131N
	Bacteria	Staphylococcus aureus	Mark 1	99,9% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Cedar pollen	**Mark 3**	99% inhibited	Approx. 24 m³	12 h	Panasonic Product Analysis Center	H21YA017-1
		Ambrosia pollen	Mark 1	99,4% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Mark 1	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04
			Mark 3	Odour intensity reduced 1,7 levels	Approx. 139,3 m³	0,5 h	SGS Inc	SHES210901902478

Meets the requirements of VDI 6022 and HACCP

Certified under VDI 6022, meeting one of the strictest hygiene requirements on the market for HVAC systems, and aligned with HACCP-based food-safety practices.

VDI 6022 – Part 5 [1] Certification.

Avoidance of allergenic exposure. Inhibits a wide range of harmful bacteria, viruses, mould, pollen and allergens.

VDI 6022 – Part 1 [1] & 1.1 [2] Certification.

Ventilation and indoor-air quality. Panasonic nanoe™ X technology improving indoor air quality.

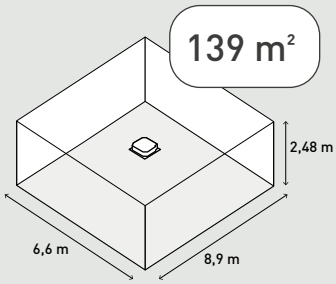
HACCP Food Safety Certified [3] – Europe's first HVAC manufacturer.

1) Certification mark only valid for nanoe X Generator Mark 3. 2) Certification mark only valid for nanoe X Generator Mark 2 and Mark 3. 3) Applicable to PACi NX and ECOi indoor units equipped with nanoe X Generator Mark 3.

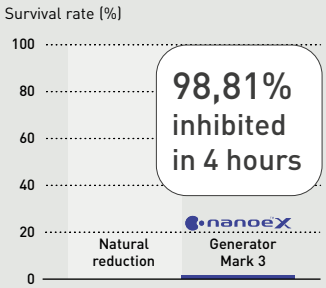
Effectiveness in large space with Generator Mark 3

Inhibits virus.
An air conditioner equipped with nanoe X Generator Mark 3 inhibits activity of adhered virus (Bacteriophage) by 98,81% in 4 hours [1].

Test ambient.

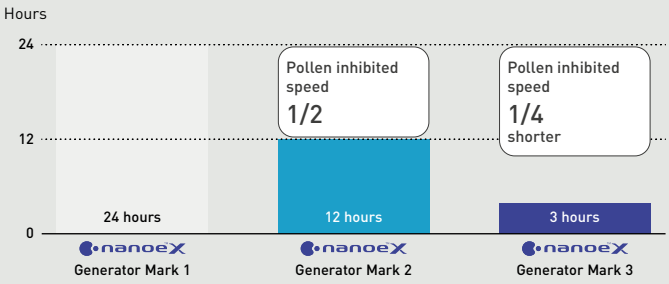


Test result (bacteriophage).



Inhibits pollen.
The result of nanoe X Generator Mark 3.
Inhibits pollen in 1/4 the time of nanoe X Generator Mark 2 [2].

Comparison of time required to inhibit 99% of cedar pollen [3].



1) Testing organisation: SGS Inc / Test subject: Adhered Bacteriophage / Test volume: Approx. 139 m³ large space (6,6 x 8,9 x 2,48 m). Test result: Inhibited 98,81% in 4 hours. Test repot no.: SHES210901902583. 2) Effect after 3 hours in a test space of approx. 24 m³. The figures are not the results of testing in an actual operating space. 3) **nanoe X Generator Mark 1:** [Testing organisation] Panasonic Product Analysis Center [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m³) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 24 hours (4AA33-151001-F01). **nanoe X Generator Mark 2:** [Testing organisation] Panasonic Product Analysis Center, [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m³) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 12 hours confirmed (L19YA009). **nanoe X Generator Mark 3:** [Testing organisation] Panasonic Product Analysis Center [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m³) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 3 hours (H21YA017-1).

Where is nanoe™ X technology used?

Since 2003, nanoe™ has become a part of people's lives in Japan and other regions.
Such technology can be found in diverse applications for cleaning air and surfaces, inside trains, elevators, cars, home appliances and personal beauty ... as well as in air conditioning.
Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment for residential applications as well as for commercial spaces and, it is a solution that does not require filters or maintenance and can work independently from heating or cooling.

Home

Shop

Gym

Hotel

Office

Clinic

Restaurant

Hospital

It has been adopted in people's homes as well as in public facilities where improved air quality is desired, such as offices, hospitals, healthcare centres and hotels etc.

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment

Home.

Built-in nanoe X Generator Mark 3.

Wall-mounted Etherea.
CS-XZ**ZKEW-H.
4 capacities: 2,0 - 4,2 kW.
CS-XZ**ZKEW.
4 capacities: 2,0 - 5,0 kW.
CS-(M)Z**ZKE(W).
7 capacities: 1,6 - 7,1 kW.

RAC Solo.
P-M0***6IC5A-E.
4 capacities: 1,7 - 3,0 kW.

Built-in nanoe X Generator Mark 2.

Aquarea EcoFleX ducted unit.
S-71WF3E.

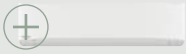
Built-in nanoe X Generator Mark 1.

Wall-mounted TZ super-compact.
CS-(M)TZ**ZKE(W).
8 capacities: 1,6 - 7,1 kW.

Floor console.
CS-Z**UFEAW.
4 capacities: 2,0 - 5,0 kW.

Commercial.

PACi NX. Built-in nanoe X Generator Mark 3.



Wall-mounted – PK4.
S-****PK4E.
5 capacities: 3,6 - 10,0 kW.

High static pressure hide-away.
S-***PE4E.
2 capacities: 20,0 and 25,0 kW.

PACi NX. Built-in nanoe X Generator Mark 2.

4 way 60x60 cassette – PY3.
S-**PY3E.
4 capacities: 2,5 - 6,0 kW.

Ceiling – PT3.
S-****PT3E.
7 capacities: 3,6 - 14,0 kW.

Adaptive ducted unit – PF3.
S-****PF3E.
7 capacities: 3,6 - 14,0 kW.

PACi NX. Built-in nanoe X Generator Mark 1.

4 way 90x90 cassette – PU3.
S-****PU3E.
7 capacities: 3,6 - 14,0 kW.

Flex Air Smart fan coils. Built-in nanoe X Generator Mark 3.

Fan coil wall-mounted – FK1.
S-**FK1E.
6 capacities: 1,9 - 5,2 kW.

Fan coil medium static duct – FF1.
S-**FF1E.
7 capacities: 2,3 - 9,3 kW.

VRF. Built-in nanoe X Generator Mark 3.

U2 type 4 way 90x90 cassette.
S-***MU2E5C.
11 capacities: 2,2 - 16,0 kW.

Y3 type 4 way 60x60 cassette.
S-**MY3EB.
6 capacities: 1,5 - 5,6 kW.

F3 type adaptive duct.
S-***MF3E5D.
12 capacities: 1,5 - 16,0 kW.

M2 type hide-away.
S-**MM2EB
7 capacities: 1,0 - 5,6 kW.

K3 type wall-mounted.
S-***MK3E.
8 capacities: 1,5 - 10,6 kW.

P2 type floor-standing.
S-**MP2E5.
6 capacities: 2,2 - 7,3 kW.

R2 type concealed floor-standing.
S-**MR2E5.
6 capacities: 2,2 - 7,3 kW.

VRF. Built-in nanoe X Generator Mark 1.

G1 type floor console.
S-**MG1E5N.
5 capacities: 2,2 - 5,6 kW.

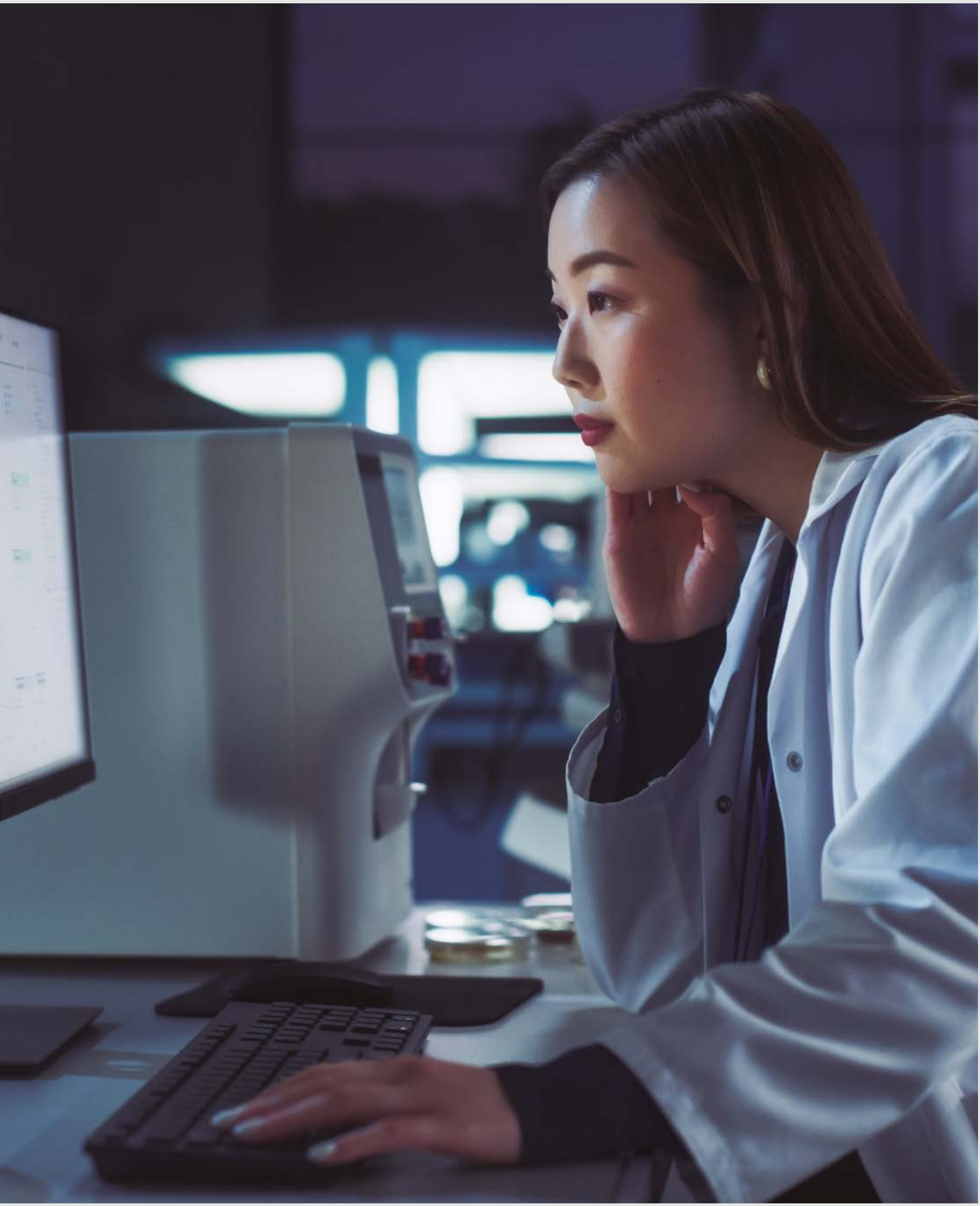
Ventilation. Built-in nanoe X Generator Mark 1.

Ceiling mounted air-e.
FV-15CSD1G.
1 capacity.

nanoe™ X: improving protection 24/7

100% Panasonic, the DNA of Japanese craftsmanship

Applying advanced technologies that truly make life better, we live by an unparalleled commitment to product quality.
Panasonic is building on the Japanese tradition of uncompromising quality control worldwide, developing and manufacturing fine products and delivering them to customers everywhere.



At Panasonic, we believe that the best air conditioner is one that works quietly and effectively in the background whilst minimising its impact on the environment.

People who use our products can look forward to long years of high-quality performance without the need for constant service. As part of our rigorous design and development process, Panasonic air conditioners undergo a variety of stringent tests to ensure their effectiveness and long-term reliability. Tests for durability, waterproofing, shock resistance, and noise are conducted on component parts or on the finished products themselves.
As a result of all of these time consuming efforts, Panasonic air conditioners meet industrial standards and regulations in every country where they are sold.

International Standard Quality

To uphold the company's reputation around the world, Panasonic strives continuously to offer quality with minimized environmental impact.

Reliable parts that meet or exceed industrial standards.
In every country where they are sold, Panasonic air conditioners comply with all required industrial standards and regulations. In addition, Panasonic conducts stringent testing to ensure the reliability of parts and materials. The strength of the resin material used in a propeller fan is confirmed by a tension test.

Compliance with RoHS / REACH substance restrictions.
Panasonic products and used materials strictly comply with chemical substance restrictions as defined by RoHS or REACH. During the development and production of parts, stringent inspections are conducted on over 100 materials to ensure that no hazardous substances are included.

Sophisticated production process.
Panasonic's air conditioner production lines employ state-of-the-art factory automation technologies to ensure products are manufactured with high attention to quality to meet expectations of reliability and trustworthiness.

Durability

At Panasonic we know the importance of a long service life with minimal maintenance. That's why we subject our air conditioners to a wide range of stringent durability tests.

Long-term durability test.
To ensure durability and stable operation for many years, we conduct a long-term continuous operation test under conditions that are much more severe than actual operating conditions.

Compressor reliability test.
After the continuous operation test, we remove the compressor from a selected outdoor unit, disassemble it, and examine the internal mechanisms and parts for potential failure. This helps ensure reliable long-term performance under harsh conditions.

Waterproofing test.
The unit - which is subject to rain and wind - complies with IPX4 waterproof specifications. Contact sections on printed circuit boards are resin-potted to prevent adverse effects caused by exposure to water (an unlikely occurrence).

A globally trusted air conditioning brand

Panasonic – leading the way in Heating and Cooling. With more than 65 years of experience, selling to more than 120 countries around the world, Panasonic is one of the leaders in the heating and cooling sector. With a diverse network of production and R&D facilities, Panasonic delivers innovative products incorporating cutting-edge technologies that set the standard for air conditioners worldwide.

From, for and by Europe.

Panasonic R&D Centers in Europe.
The European Research and Development Centers of Panasonic in Germany and Italy are focused on technology development for intelligent and climate-friendly future solutions.

Our European factories.
In 2018, Panasonic began producing air to water heat pumps at its factory in Pilsen, Czech Republic. By 2023, production expanded to include air to water and water to water chillers and heat pumps, fan coils, water source heat pumps, and rooftops at Panasonic's factories in Italy and France. Additionally, Panasonic's new refrigeration factory in Poland further strengthens its commitment to the European market.
With a combination of highly skilled teams and advanced production automation, Panasonic is well-positioned to meet Europe's growing demand while maintaining exceptional quality standards.

More than 50 years of experienced organization in Europe.
At Panasonic, we know that the best is always yet to come. This is why our air conditioning and heat pump solutions are constantly upgraded. Panasonic is committed to offering our customers innovative products in the heating and cooling market across Europe, and has the ambition to not only meet but also exceed their requirements.
Our Technology and Design teams anticipate the needs of tomorrow. We look to produce smaller, quieter, efficient solutions - with better technological features – that can reduce energy consumption while providing suitable temperature conditions for the user.

Czech

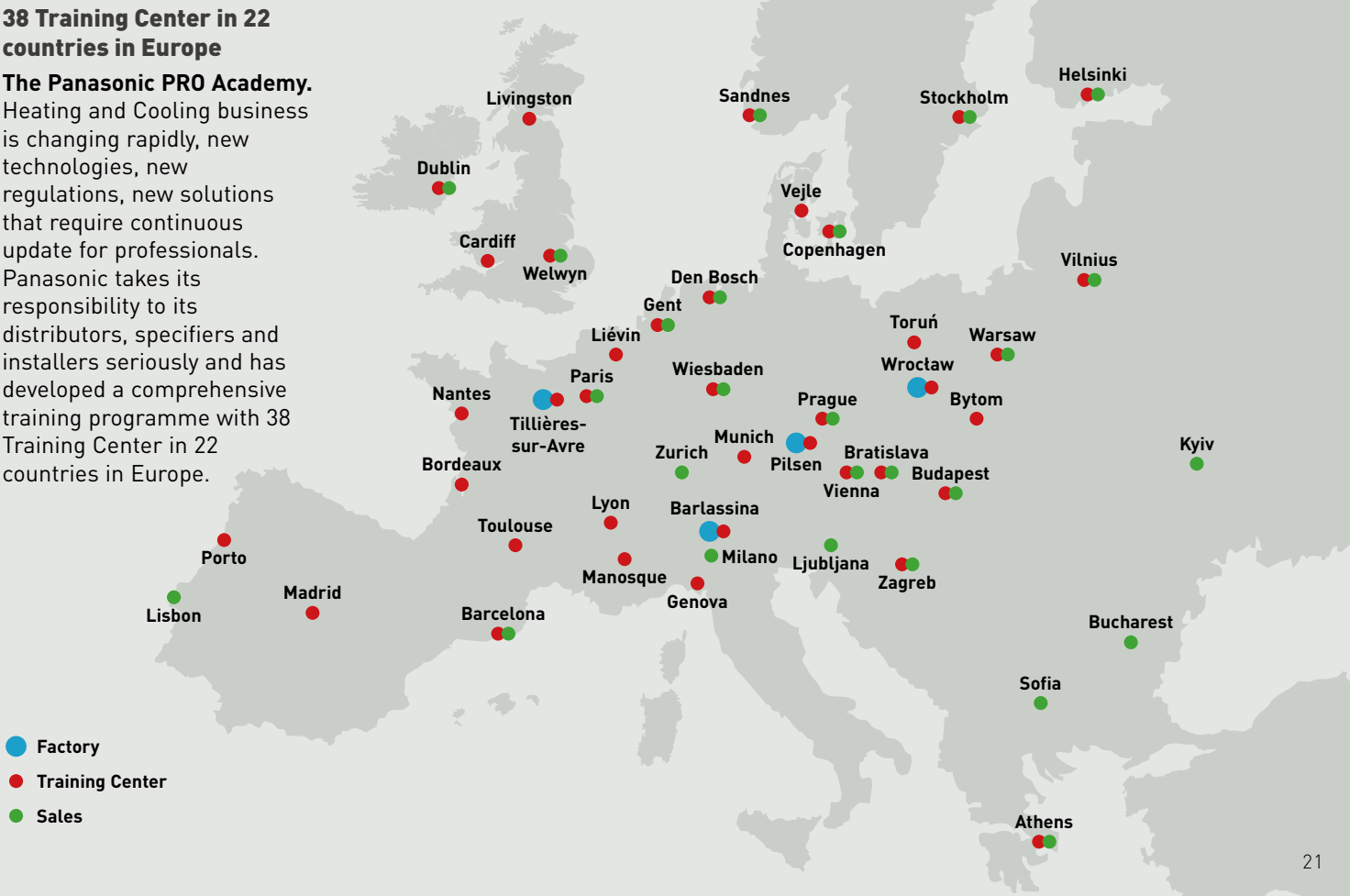
Italy

France

Poland

38 Training Center in 22 countries in Europe

The Panasonic PRO Academy.
Heating and Cooling business is changing rapidly, new technologies, new regulations, new solutions that require continuous update for professionals. Panasonic takes its responsibility to its distributors, specifiers and installers seriously and has developed a comprehensive training programme with 38 Training Center in 22 countries in Europe.



PRO Club. The professional website of Panasonic

Panasonic has an impressive range of support services for designers, specifiers, engineers and distributors working in the heating and cooling markets.

Panasonic PRO Club (www.panasonicproclub.com) is the online tool which makes your life easier! You just have to register and a lot of functionalities are freely available to you, wherever you are, from your computer or smartphone!

- Print catalogues with your logo and contact details
- Access to the extensive library of professional design, selection and calculation tools (Aquarea Designer, VRF software, chiller selector, etc.)
- Get documents of conformity and all other documents you may need
- Download all the service manuals, end user manuals and installation manuals
- Download energy labels in PDF format using the energy label generators
- Download Revit and CAD files and specification texts
- Know what to do with error codes (error code search by error code or unit ref.)
- PRO Academy: register for training
- Download product images in high resolutions, advertisements, deco guidelines
- Get to know special offers and promotions
- Find out about the latest news first

Easy download Panasonic service documentation and brochures.

Customise leaflets with your logo and contact details. Save and print the PDF.

Energy label generator. Download Energy labels of any device in PDF format.

Error Code on your smartphone and your PC: Search by error code or model reference. Online version + downloadable version for offline use.

Panasonic PRO Club is fully compatible with tablet computer and smartphone.

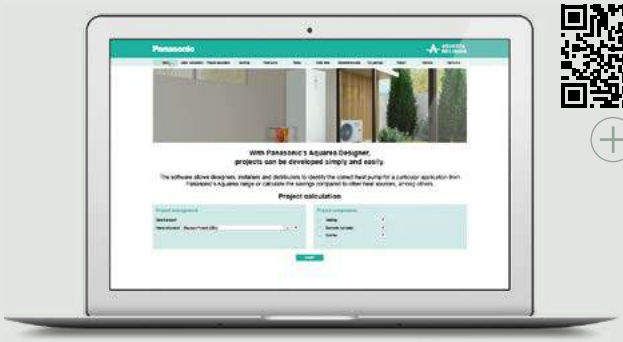
Visit www.panasonicproclub.com or connect simply with your smartphone to the PRO Club using this QR.

PRO Club

Panasonic provides bespoke software and tools helping system designers, installers and dealers to very quickly select, design and size systems or create wiring or hydraulic diagrams at the push of a button.

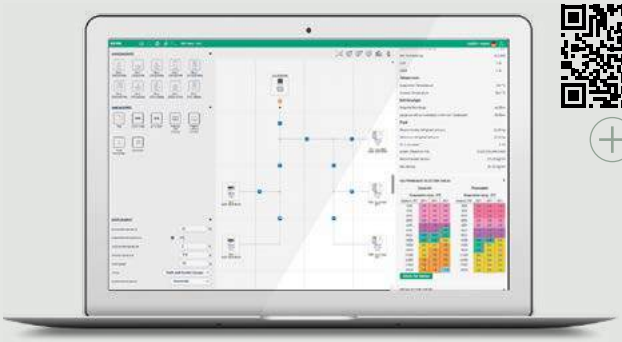
Aquarea design tools

Discover the suite of Aquarea design tools, created to simplify and optimise your workflow for Aquarea projects. From Aquarea Designer to the Hydraulic Scheme Generator, these resources are designed to make your planning process more efficient and effective.



Vent PRO

From selecting the right ventilation unit to planning the air distribution system and choosing the appropriate components, the Vent PRO guides you through every step to ensure the optimal solution for your project.

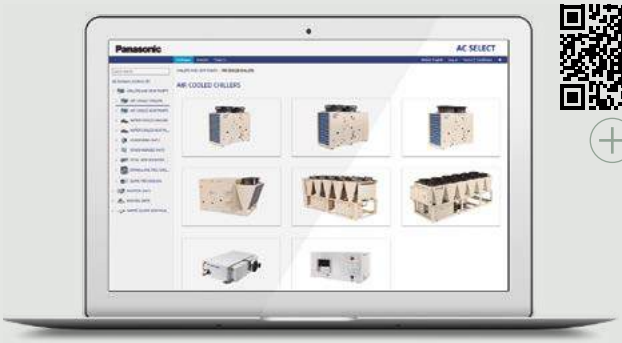


Panasonic DX PRO Designer

The Panasonic DX PRO Designer will be rebuilt with an improved user experience. The software runs in the cloud and is always up to date with the latest products. An intuitive interface supports the most complicated designs, allows online sharing and project collaboration with multilingual support.

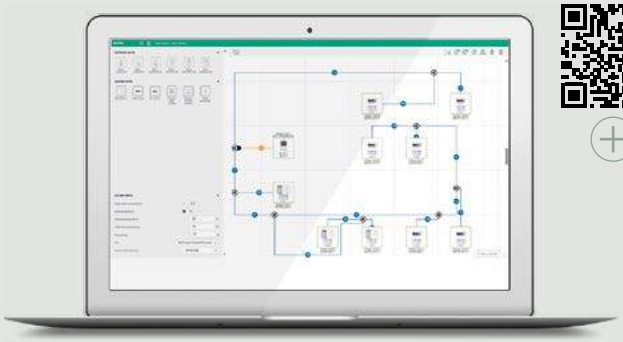
AC SELECT

Use AC SELECT to choose and configure your hydronic solution.
Panasonic online selection tool offers an easy and quick solution to specify all the hydronic, fan coil unit and rooftop ranges at required conditions.



REF PRO DESIGNER

Think beyond unit selection.
This advanced design tool supports engineers, installers, and technicians to design advanced systems for commercial refrigeration systems.



OPEN BIM – BIM & AutoCAD Support

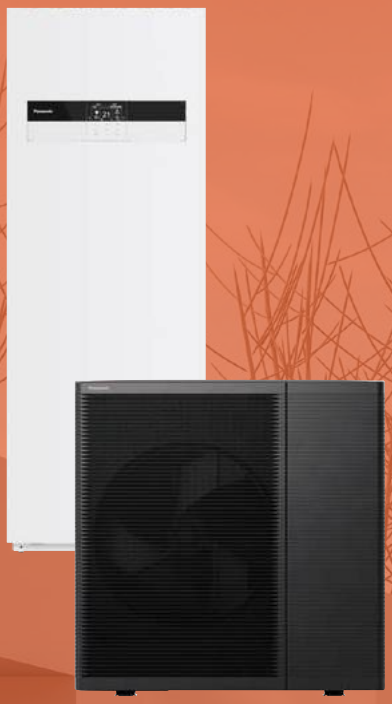
Panasonic offers a wide range of HVAC&R products with BIM (Building Information Modelling) objects in Revit format and AutoCAD files, providing comprehensive support for design offices, consultants, and installers in planning projects.

Panasonic

AQUAREA

Aquarea Heat Pumps: efficient comfort for every project

From 3 kW to 30 kW, Panasonic's Aquarea air to water heat pumps range is one of the widest on the market, designed for both new builds and refurbishments. With multiple All in One units, cascade controllers, and indoor comfort solutions, Aquarea delivers energy savings and comfort for every project, from single homes to centralised systems.



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Highlighted features

From 3 kW to 30 kW, Panasonic Aquarea Heat Pumps offer one of the widest ranges on the market, suitable for both new builds and refurbishment projects. Developed for high system efficiency, installation flexibility and long-term operational reliability.

Developed and manufactured by Panasonic, the Aquarea range combines advanced heat pump technology with over 65 years of HVAC engineering expertise.

Aquarea Heat Pumps integrate exclusive Panasonic technologies such as T-CAP for reliable capacity at low outdoor temperatures, U-Vacua™ insulation to minimise heat loss, and in-house developed Panasonic compressors engineered for efficiency, durability and quiet operation.

Reliable performance at extremely low outdoor temperatures.

Panasonic Aquarea is engineered for stable operation at outdoor temperatures as low as -25 °C, ensuring consistent system performance while reducing energy consumption and CO_2 emissions.

- **UP TO 80% ENERGY SAVING COMPARED TO BOILERS**
- **RELIABLE COMFORT IN EXTREME OUTDOOR CONDITIONS**
- **CO_2 LOWER CO_2 EMISSIONS**

Aquarea – a comprehensive heating solution by Panasonic.

Panasonic extends its commitment to comfort and energy savings beyond heat pumps by offering a comprehensive range of solutions for indoor comfort.

Room solutions.
Fan coils, water loop heat pumps.

Ventilation and IAQ.
Residential ventilation solutions.

Control and connectivity.
Smart room control and energy management.

Domestic Hot Water.
High-efficiency DHW tanks.

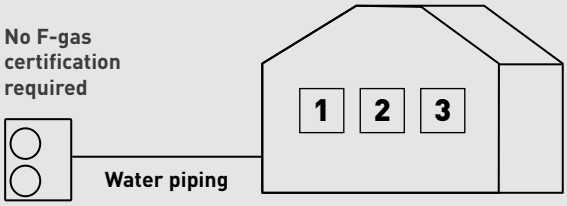
Service solutions.
Aquarea Service Cloud for remote service.

Maintenance solutions.
Aquarea Service+.

Discover the Aquarea Heat Pump range

Aquarea Hydraulic systems

The Aquarea Hydraulic system simplifies installation by requiring only water pipes between the outdoor unit and the interior of the building.

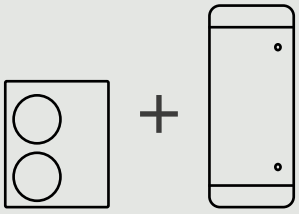


Hydraulic indoor unit options

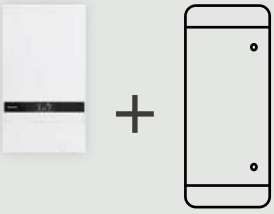
1 Stand-alone outdoor unit + optional DHW tank.
This hydraulic system without indoor unit offers high installation flexibility, ideal for retrofit projects.

2 All in One indoor unit.
The All in One unit combines the indoor unit and a DHW tank, simplifying installation and saving space.

3 Bi-bloc indoor unit + optional DHW.
This wall-mounted unit offers flexible installation with customizable tank sizes.



120 L - 185 L - 260 L



		5,0 kW	7,0 kW	9,0 kW	12,0 kW	16,0 kW	20,0 kW	25,0 kW	30,0 kW
Aquarea High Performance	1 ph	✔	✔	✔	✔	✔			
	3 ph			✔	✔	✔			
Aquarea T-CAP	1 ph			✔	✔				
	3 ph			✔	✔	✔	✔	✔	✔

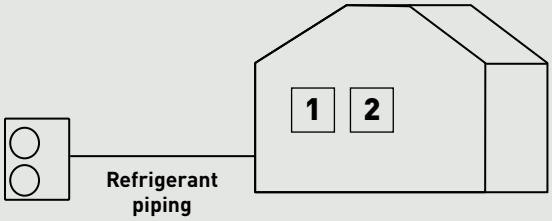
Aquarea DHW Heat Pumps

Using a compressor with natural refrigerant R290, Aquarea DHW Heat Pumps efficiently produce domestic hot water and significantly reduce energy consumption and CO_2 emissions compared to electric heaters and other traditional systems.

Panasonic Aquarea provides the ideal solution for any project, enhancing the efficiency of homes and simplifying the installation process.

Aquarea Split systems

The Aquarea split system features a separate outdoor unit and indoor unit connected by refrigerant pipes. It requires no antifreeze protection for outdoor piping, even during long periods of inactivity in cold climates.

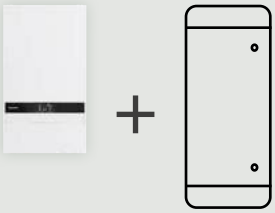


Indoor unit options

1 All in One indoor unit.
The All in One unit combines the indoor unit and a DHW tank, simplifying installation and saving space.

2 Bi-bloc indoor unit + optional DHW.
This wall-mounted unit offers flexible installation with customizable tank sizes.

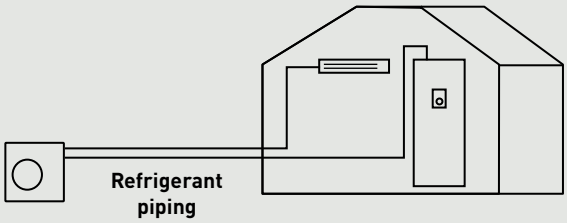
185 L - 260 L



		3,0 kW	5,0 kW	7,0 kW	9,0 kW	12,0 kW	16,0 kW
Aquarea High Performance	1 ph	✔	✔	✔	✔	✔	✔
	3 ph				✔	✔	✔
Aquarea T-CAP	1 ph				✔	✔	
	3 ph				✔	✔	✔

Aquarea EcoFleX

Designed for new installations, the Aquarea EcoFleX heat pump combines air to air indoor units and a hot water tank. It delivers hot water, heating, cooling, and cleaner air, all with outstanding efficiency, energy savings, and low CO_2 emissions.



Comfort heating and peace of mind with Aquarea solution

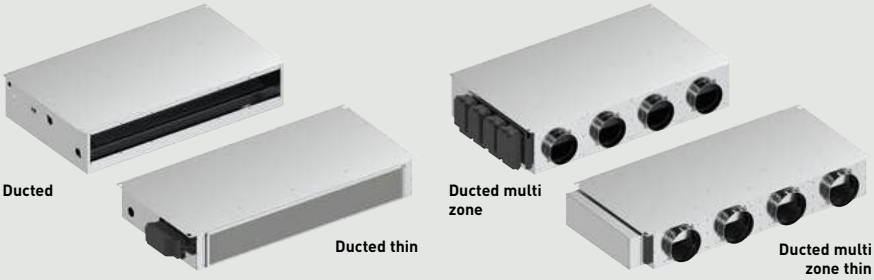
Aquarea Air Smart fan coils.

Stylish, compact fan coil units for high comfort and energy savings.

Aquarea Air Smart fan coil – Floor standing.
Even narrower and thinner fan coils.

Aquarea Air Smart fan coil – Wall-mounted.
The thinnest and most quietest in its class.

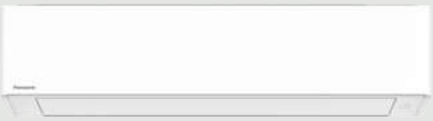
Aquarea Air Smart fan coil – Ducted / ducted multi zone.
Thin version with only 185 mm height.
Integrated multi zone management (2-5 zones, with the multi zone line-up).



Flex Air / Flex Air Smart fan coils.

A large range of fan coil units dedicated to commercial applications.

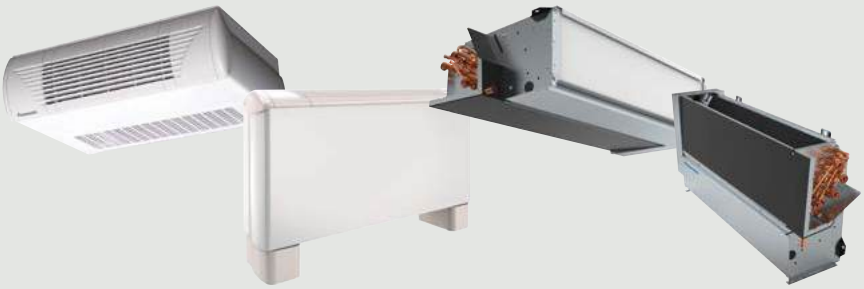
Flex Air Smart fan coil – Wall-mounted – FK1.
Stylish design. nanoe™ X (Generator Mark 3).



Flex Air Smart fan coil – Medium static pressure duct – FF1.
nanoe™ X (Generator Mark 3).

nanoe™ X

Flex Air fan coil – Comfort.
Floor and ceiling units with high configuration flexibility.

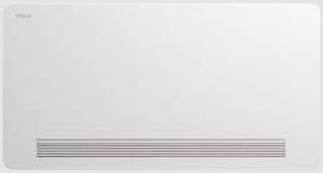


Panasonic extends its commitment to comfort and energy savings beyond heat pumps by offering a comprehensive range of solutions for indoor comfort.

Aquarea Loop, the water loop heat pump for multi-family buildings.

Efficiently replaces existing radiators in centralised heating systems.

R290



Wide range of water tanks DHW tanks, buffer tanks and combo tanks available.

Residential ventilation units.

Aquarea Vent – Counter flow ventilation units.
Suitable for single family houses or apartments.
High-efficiency sensible heat recovery.

Heat recovery ventilation unit.
Designed for areas up to approximately 140 m².
High energy-efficiency rotary heat exchanger with EC technology fans.

tado° for room heating control and smart energy management services.

Unlocking maximum efficiency and savings – without sacrificing cosy temperatures at any time.

tado° smart heating customers save an average of 22% on their energy consumption.

*Based on internal data averaged across all tado° customers, collected up to 11/2023.

Cascade solutions.

Boost the capacity up to 300 kW by connecting the Aquarea Heat Pumps in cascade.

Aquarea Service Cloud.

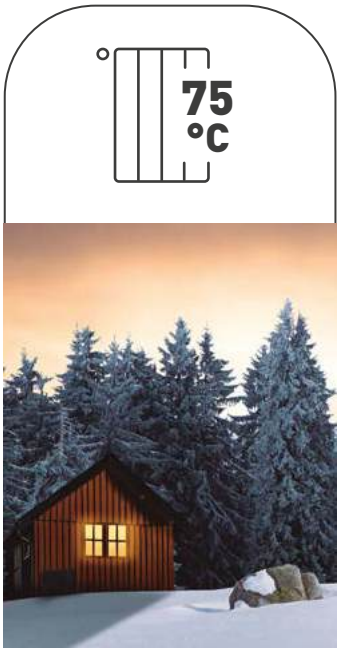
For remote maintenance of the Aquarea Heat Pump.

At the forefront of heating innovation: Panasonic Aquarea with natural refrigerant R290

Aquarea air to water heat pumps with R290 refrigerant offer an advanced, energy efficient solution for heating, cooling, and domestic hot water that delivers outstanding performance, aligning with our vision of a carbon-free society and our GREEN IMPACT plan.

0,02 Global Warming Potential

Panasonic's newest series are engineered with industry leading natural refrigerant R290, which has a low Global Warming Potential (GWP) of just 0,02, helping reduce CO_2 emissions and environmental impact.



Output water.

Up to 75 °C water outlet down to -15 °C* outdoor.

*-10 °C for L Series. Down to 15 °C outdoor for 20, 25 and 30 kW models.

Quiet operation.

Only 27 dB(A) sound pressure at 5m*.

*Sound pressure calculation for WH-WDG05LE5, free standing, A +7 °C, W 35 °C in Quiet mode 3.

Flexible hydronic installation.

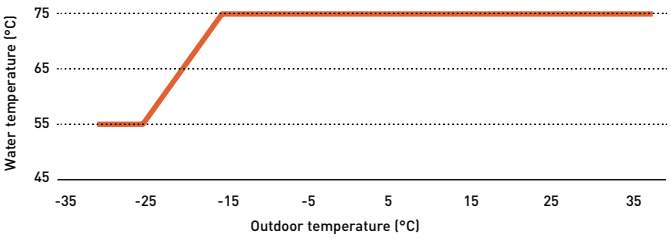
Hydronic connection between indoor and outdoor.

Made and designed by Panasonic.

Reliable outdoor units with Panasonic compressor.

Output water. High performance under extreme conditions

Excellent solution for heating system retrofit.
The compressor operates without backup heating down to -28 °C ambient temperatures, and can be integrated alongside existing radiators with a high-water flow temperature of up to 75 °C at -15 °C outside temperature. Even at -28 °C outside temperature, it can supply hot water at 55 °C.

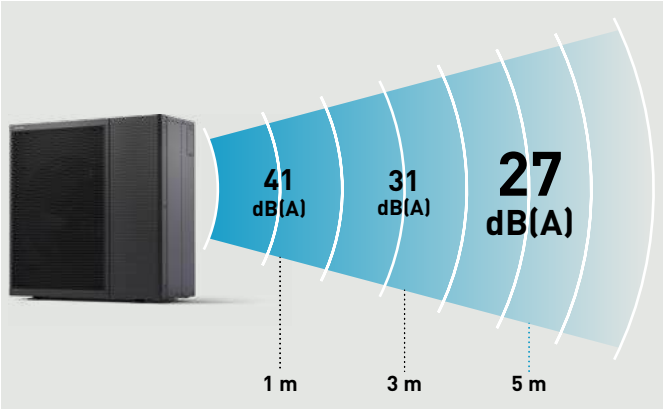


*For M Series T-CAP 9, 12 and 16 kW models. M Series High Performance operates down to -25 °C with 75 °C water outlet down to -15 °C ambient. L Series operates down to -25 °C with 75 °C water outlet down to -10 °C ambient.

Sterilisation process without heater.
It can also reach a domestic hot water temperature of up to 65 °C without the use of the electric heater, so the tank sterilisation can be performed with the heat pump operation.

Quiet operation. Panasonic's unique low noise architecture

The compressor, which is a major source of noise, is equipped with a double-bottomed structure to provide a safe, quiet structure that does not disturb neighbours in crowded residential areas.

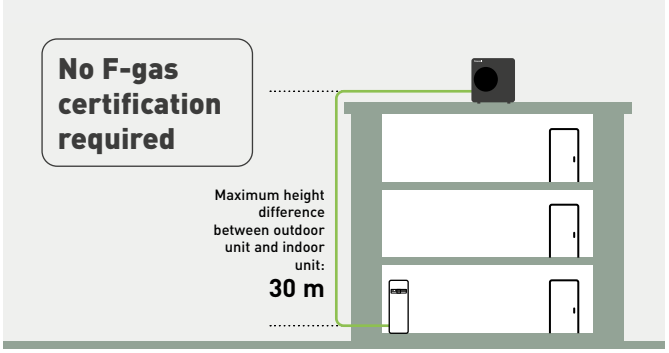


*Sound pressure calculation for WH-WDG05LE5, free standing, A +7 °C, W 35 °C in Quiet mode 3.

Flexible hydronic installation

The installation of the system is 100% hydronic, with only water pipes between the outdoor unit and the interior of the home.

More living space at home.
No indoor safety measures needed for refrigerant or fuel gas piping.



*For L Series only when the outdoor unit is installed above the indoor unit, and the water pressure does not exceed 1 bar at the outdoor unit.

Made and designed by Panasonic.

Aquarea High Performance L Series from 5 to 9 kW.

Wi-Fi adapter included

Aquarea High Performance M Series from 9 to 16 kW.
Aquarea T-CAP M Series from 9 to 30 kW.

Wi-Fi adapter included

*Check availability of units and combinations.

Aquarea M Series, the latest generation of high performance heat pumps with R290

Combining flexible system design, quiet operation and up to 75 °C water flow, the Aquarea M Series offers a reliable, high-quality heat pump solution for new-build and retrofit applications.

*For 9, 12 and 16 kW single and three phase.

OUTPUT WATER

Up to 75 °C water outlet down to -15 °C outdoor*.

*Down to 15 °C outdoor for 20, 25 and 30 kW models.

QUIET OPERATION

Only 29 dB(A) sound pressure at 5 m*.

*Sound pressure calculation for WH-WXG12ME5, free standing, A +7 °C, W 35 °C in Quiet mode 3.

FLEXIBLE HYDRONIC INSTALLATION

Hydronic connection between indoor and outdoor.

MADE AND DESIGNED BY PANASONIC

Reliable outdoor units with Panasonic compressor.

SMART CONTROL AND MAINTENANCE

Panasonic Comfort Cloud App and Aquarea Service Cloud included.

HIGH-EFFICIENCY

ErP 35 °C.
Energy efficiency class up to A+++*.

*Scale from A+++ to D.

Flexible installation, suitable for retrofit and new buildings.

Thanks to its new, modular concept, the outdoor unit can function independently with just an indoor remote control, for those seeking basic functionalities. Homeowners can opt for enhanced functionality by incorporating the more advanced control module or selecting between a Bi-bloc or All in One indoor units.

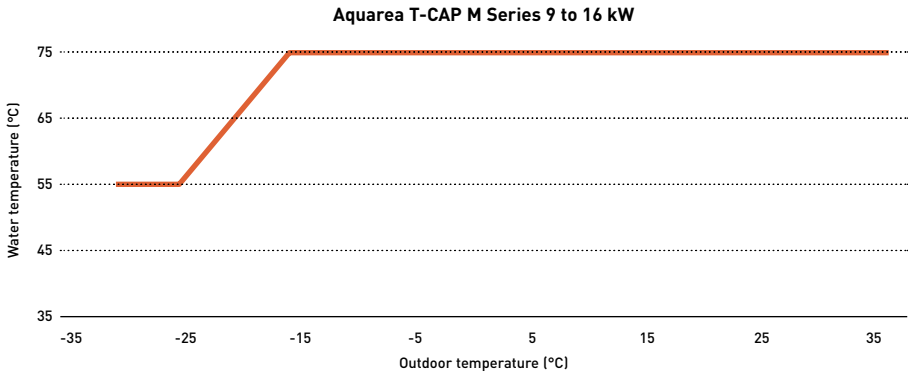
Available in 120 L,185 L and 260 L DHW tank.

	Remote controller	Control module	Bi-bloc (available from 9 to 16 kW)	All in One (available from 9 to 16 kW)
CN-CNT	✔ (1)	✔ (2)	✔ (2)	✔ (2)
Backup heater	—	Field supply	✔	✔
Expansion vessel (10 L)	—	—	✔	✔
Additional functions	—	CZ-NS7P	CZ-NS6P	CZ-NS6P

Output water. High performance under extreme conditions

Excellent solution for heating system retrofit.
The compressor operates without backup heating down to -28 °C* ambient temperatures, and can be integrated alongside existing radiators with a high-water flow temperature of up to 75 °C at -15 °C outside temperature. Even at -28 °C* outside temperature, it can supply hot water at 55 °C.

*For M Series T-CAP (WH-WXG**). In case of M Series High Performance (WH-WDG**) operation down to -25 °C.



High energy efficiency in heating and domestic hot water

The Aquarea M Series saves energy and significantly reduces operating cost by achieving the highest ErP energy rating. Aquarea M Series can reach a domestic hot water temperature of up to 65 °C without the use of the electric heater, so the tank sterilisation can be performed with the heat pump operation for further energy savings.

*Rating conditions: Heating: Inside air temperature: 20 °C Dry Bulb / Outside air temperature: 7 °C Dry Bulb / 6 °C Wet Bulb. Conditions: Water input temperature: 30 °C / Water output temperature: 35 °C. Energy rating for WH-WXG12ME8.

A+ **ENERGY EFFICIENCY CLASS UP TO A+.**
SCALE FROM A+ TO F.

A+++ A++ **ERP 35 °C / 55 °C. ENERGY EFFICIENCY CLASS UP TO A+++/A++.**
SCALE FROM A+++ TO D.

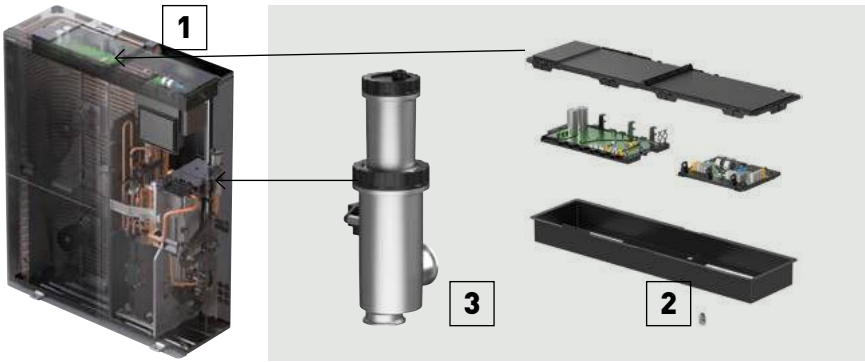
Great serviceability

Cutting-edge outdoor unit design keeps the PCB in a safe and accessible location.

Aquarea M Series safety optimisation.

1 | Non-flammable control box
2 | Power box cable gland with sealed connections
3 | Air/refrigerant separator

*This image applies to 9, 12 and 16 kW.

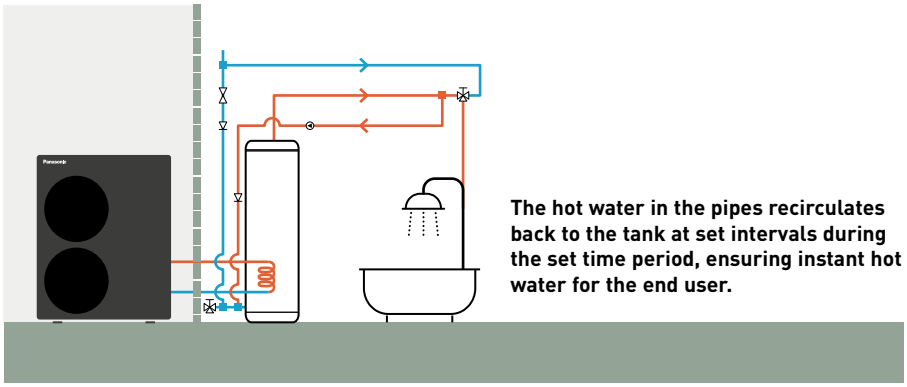


Enhanced comfort and advanced connectivity with the Aquarea M Series

Aquarea M Series delivers a revolution in the design, performance and connectivity, aligning with our vision of a carbon-free society and our GREEN IMPACT plan.

Maximising hot water comfort.

- Up to 40% more tap water with a higher tank temperature setting to save space
- New domestic hot water circulation mode for instant availability of hot tap water
- During sterilisation, the domestic hot water circulation mode is activated to ensure sterilisation of the water pipes



The hot water in the pipes recirculates back to the tank at set intervals during the set time period, ensuring instant hot water for the end user.

Internet adapter included for Smart Control and remote maintenance

The Aquarea M Series comes standard with an internet adapter for Wi-Fi or WLAN connection. It can be easily connected via the front panel of the indoor units or the control module, providing flexible and intuitive connectivity.

Advanced control and connectivity features, enhanced interface.

Smart bivalency.
Cost effective bivalent mode with power tariff logic.

Smart Grid Ready.
The Aquarea M Series features the SG Ready function* for seamless connection to smart grid controls.

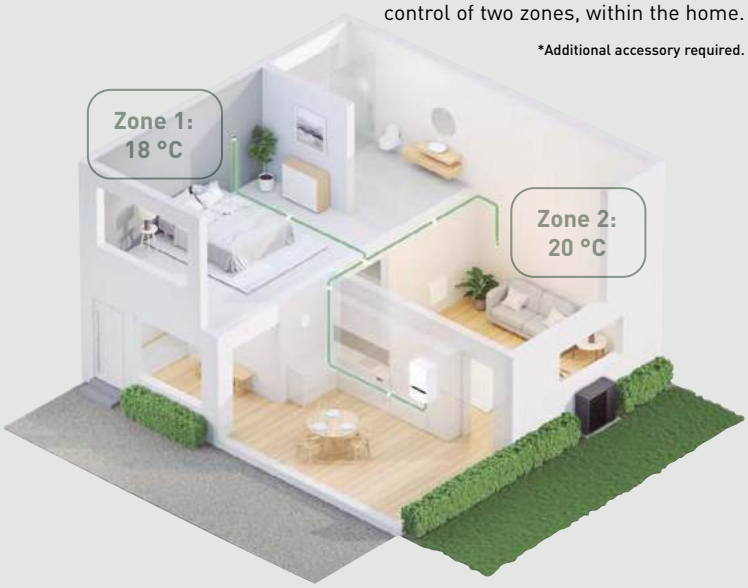
Enhanced connectivity.
A second interface connection port (CN-CNT) offers improved connectivity when connecting the outdoor unit to the control module or an indoor unit.

*Additional accessory required.

BMS integration.
Aquarea integrates seamlessly with Modbus or KNX projects*, allowing bi-directional monitoring and control of all operating parameters.

Dual controller system.
A dual controller system, for independent control of two zones, within the home.

*Additional accessory required.



Aquarea All in One Hydraulic M Series

The ultimate space saving solution.

Available in 120 L, 185 L and 260 L DHW tank, with a footprint of just 599 x 602 mm.

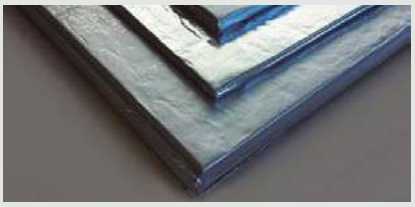
- **599 X 602 MM FOOTPRINT REDUCES REQUIRED INSTALLATION SPACE**
- **NO BUFFER TANK REQUIRED, REDUCING SPACE, COST AND INSTALLATION TIME**
- **40 % UP TO 40% MORE TAP WATER WITH A HIGHER TANK TEMPERATURE SETTING**
- **ROBUST BODY AND TOP SURFACE ENABLES INSTALLATION OF A TOP VENTILATION UNIT**

Aquarea All-in-One M series: the best Panasonic technology.

Great serviceability.
- Easy access to hydraulic part thanks to door opening mechanism
- All sensors can be checked from the remote controller
- Water pressure sensor and reading on home-screen

Other high quality components inside.
- Maintenance free Inox stainless 120 L,185 L or 260 L tank
- Variable speed water pump ("A class")
- Backup heater
- 3 way valve inside

Extended elevation difference (up to 30 m).
With the new expansion vessel, the All in One M Series allows a high indoor/outdoor height difference of up to 30 m.



U-Vacua™ Vacuum insulation panel.
U-Vacua™ panels offer 19 times the insulation performance of polystyrene foam. Since the system retains heat longer, it needs to heat up fewer times each day, resulting in energy savings.

Aquarea All in One with Electrical Anode:

The All in One with built-in impressed current anode is the ideal solution for installations in locations with harsh water conditions.

*Available only on models with a 185 L or 260 L DHW tank.

Aquarea T-CAP M Series: Designed for demanding conditions, powered by natural refrigerant R290

Introducing T-CAP M Series, innovative Aquarea Heat Pumps with natural refrigerant R290, delivering superior performance even in extreme conditions.

Aquarea T-CAP outdoor units are highly reliable thanks to the quality of all components, including the new compressor with injection technology, developed and manufactured by Panasonic, that can work in outdoor temperatures as low as -28 °C.

75 °C OUTPUT WATER

Up to 75 °C water outlet down to -15 °C outdoor*.

*Down to 15 °C outdoor for 20, 25 and 30 kW models.

QUIET OPERATION

Only 29 dB(A) sound pressure at 5 m*.

*Sound pressure calculation for WH-WXG12ME5, free standing, A +7 °C, W 35 °C in Quiet mode 3.

-28°C EXTREME CONDITIONS

Compressor operating down to -28 °C outdoor temperatures.

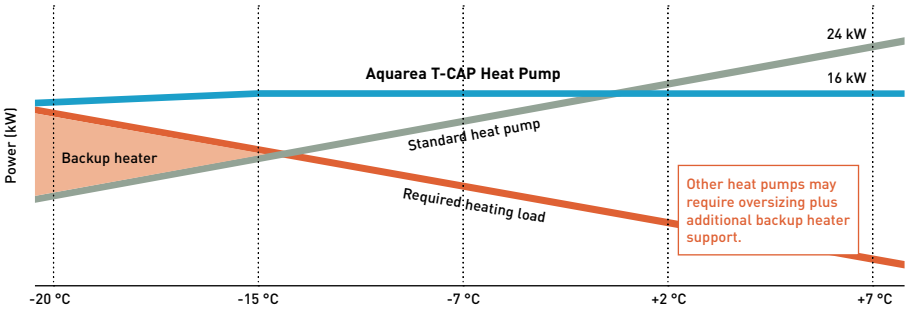
-15°C T-CAP TECHNOLOGY

Keeping heating capacity down to -15 °C at 55 °C water outlet.

Aquarea T-CAP, high performance whatever the climate

With Aquarea T-CAP technology and the new compressor with Injection technology, Panasonic heat pumps can work in outdoor temperatures as low as -28 °C and maintain capacity without backup heating at -15 °C*.

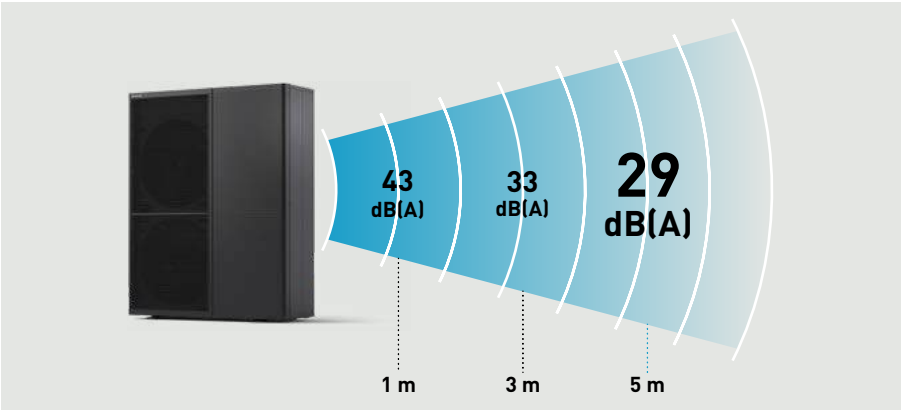
*WH-WXG20/25/30ME8 work down to -25 °C outdoor.



Quiet operation. Panasonic's unique low noise architecture

The compressor, which is a major source of noise, is equipped with a double-bottomed structure to provide a safe, quiet structure that does not disturb neighbours in crowded residential areas.

*Sound pressure calculation for WH-WXG12ME8, free standing, A +7 °C, W 35 °C in Quiet mode 3.



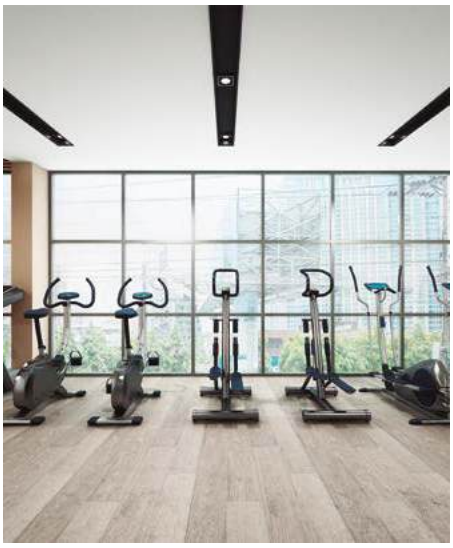
Big Aquarea T-CAP M Series, the ideal solution for centralised heating and DHW installations

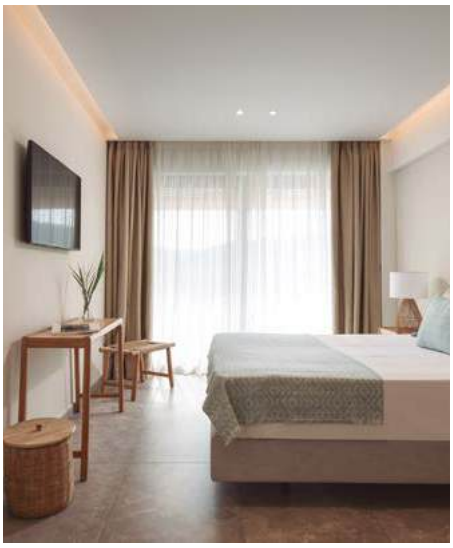
The Big Aquarea M Series offers a flexible, compact and energy efficient solution for central heating and/or domestic hot water installations in multi-family or commercial buildings.

T-CAP technology, stable operation and high performance under extreme conditions.

The solution is suitable for both new buildings and retrofits, as it offers a more sustainable alternative to traditional fossil fuel heating systems and it can be easily integrated with existing water system such as fan coils, floor heating or domestic hot water tanks.

- 300kW UP TO 300 KW IN CASCADE
- COMPACT SOLUTION WITH SMALL FOOTPRINT
- 55 °C KEEPING CAPACITY AT 55 °C WATER OUTLET DOWN TO -15 °C OUTDOOR
- QUIET OPERATION
- PANASONIC INVERTER COMPRESSOR
- 65 °C DHW AT 65 °C WITH COMPRESSOR ONLY



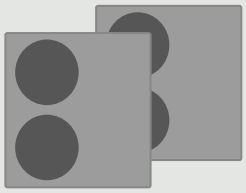


- **Units from 20 to 30 kW, up to 300 kW in cascade**
- **Easy replacement of other heating sources**
- **Flexible control options: remote control only or control module for enhanced functionality**
- **Seamless Modbus integration**
- **Designed to blend with architecture and environment**

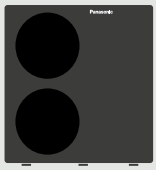
Maintained capacity.
Time-saving installation.
Cost-saving.
Space saving.

*For 30 kW demand at 55 °C water outlet and -7 °C outdoor temperature.

2x 20 kW heat pump
Conventional cascade system



1x 30 kW*
Big Aquarea T-CAP M Series

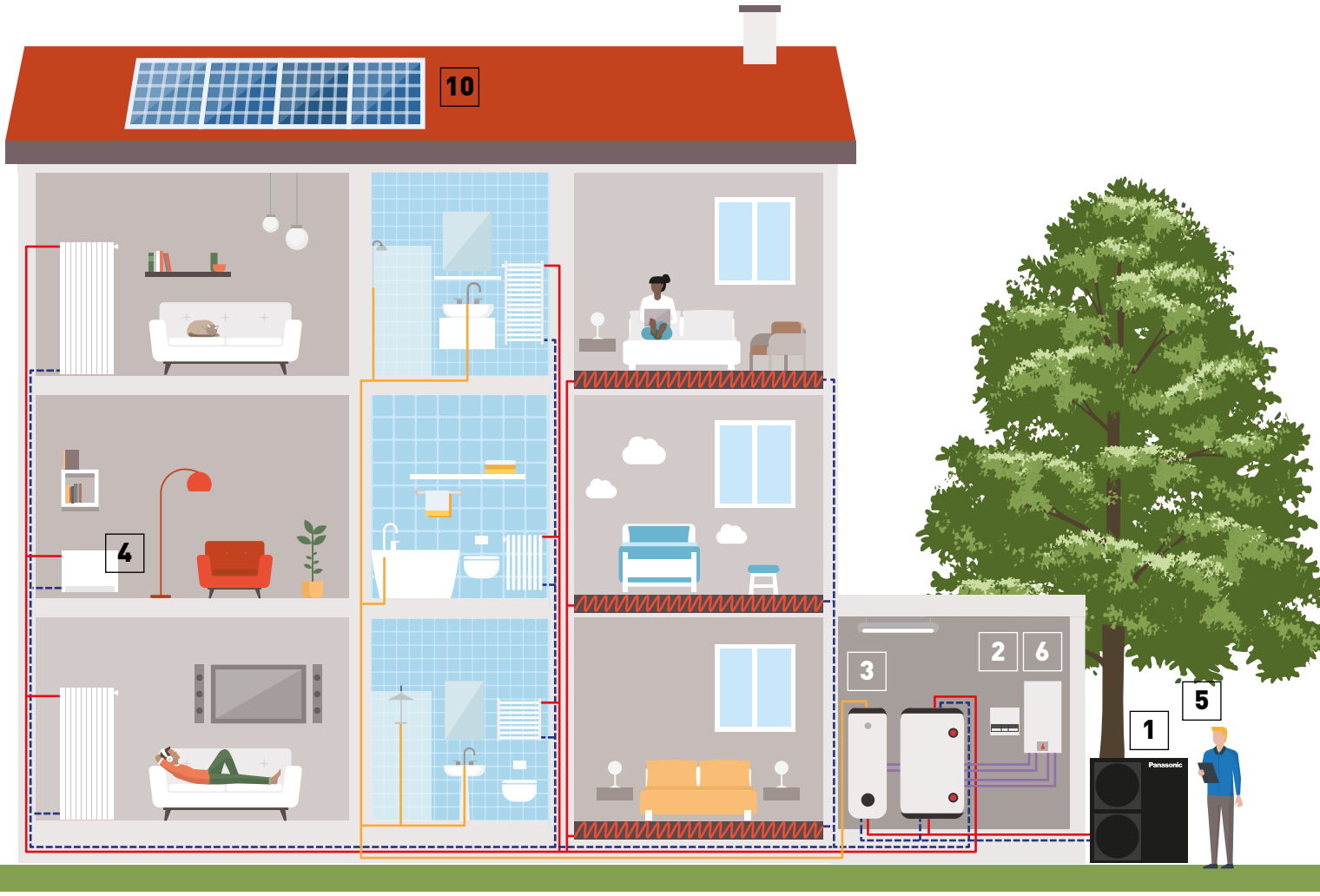


Reliable technology.

The outdoor units are equipped with a Panasonic R290 scroll compressor. The compressor is manufactured in-house with T-CAP technology including injection.
The outdoor heat exchanger is protected with a Bluefin treatment for harsh ambient conditions.

Big Aquarea for centralised heating and DHW installations in multi-family or commercial buildings

The Big Aquarea M Series offers a flexible, compact and energy efficient solution for central heating and/or domestic hot water installations in multi-family or commercial buildings.



1

Big Aquarea T-CAP M Series.
25 kW heat pumps in cascade, for a space saving solution.
It can replace an old fossil fuel boiler.

2

M Series control module.
The control module allows for enhanced control functionality. Operation with the remote controller only is also possible.

3

High-efficiency DHW tank.
A high-efficiency tank provides the required volume of hot water, at the correct temperature, reducing energy costs.

4

Aquarea Loop.
The water loop heat pump provides heating and cooling for every apartment or room connected to a central water loop.

4

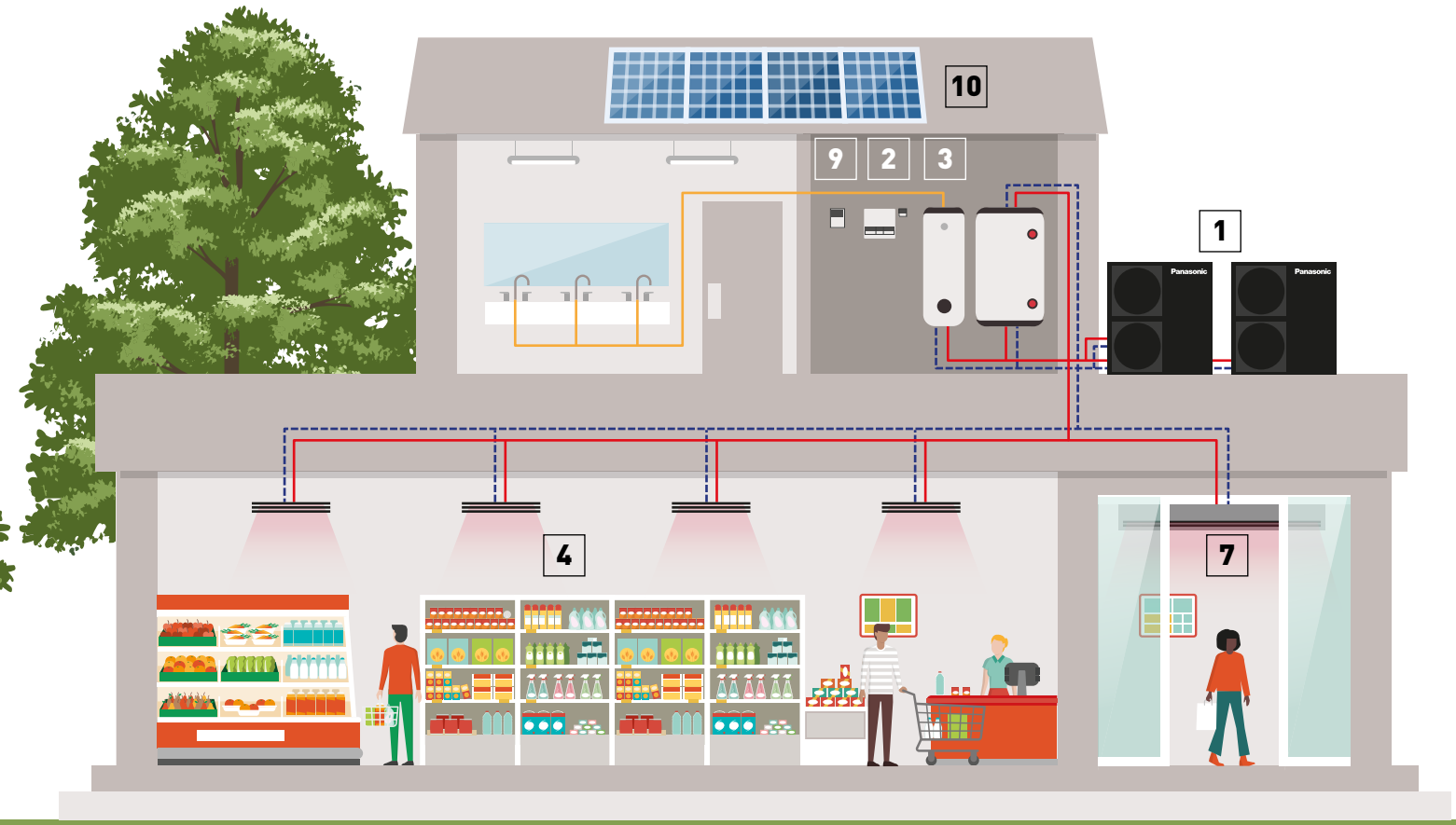
Fan coils, radiators or floor heating.
Aquarea Heat Pumps can be integrated into a new or existing water system.

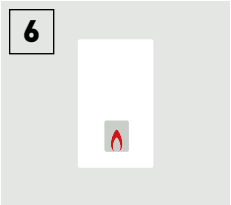
5

Aquarea Service Cloud.
This IoT solution provides powerful and user-friendly management and monitoring of Aquarea Heat Pumps and enables remote maintenance.

A revolution in the design, performance, connectivity, and sustainability.

- Scalable solution, up to 300 kW in cascade
- Suitable for new build and retrofit
- Up to 75 °C water outlet
- Easy replacement of other heating sources and integration into existing water systems
- Quiet operation
- Maintains output at 55 °C down to -15 °C
- Hot water production at 65 °C with compressor only
- Flexible control options and seamless Modbus integration





OPTIONAL.
Bivalent mode.
Cost-effective bivalent mode with energy tariff logic when combined with an existing boiler.

Air Curtain with water Coil.
Water coil air curtains can be used in the hydraulic system to have efficient performance of the water system.

BMS integration.
The system can be easily integrated into a Modbus project with the optional accessory.

Cascade manager.
Manages up to 10 Aquarea Heat Pumps, balancing working hours, can control up to 2 buffer tanks and integrates PV, among others.

Photovoltaics.
Thanks to the integration with PV, the demand or power consumption for heating or hot water production is adapted to the PV production.

Commercial Smart Edge.

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.

P-SMART EDGE

P-Smart Nexus

+

COMPATIBLE WITH ENTIRE HVAC RANGE

SIMPLIFIED COMMISSIONING

OPTIMISED PLANT MANAGEMENT

ADVANCED ANALYTICS

Aquarea K Series

A revolution in design, efficiency, connectivity and sustainability.

R32 REFRIGERANT

Aquarea K Series is a ground breaking low-energy system for heating, cooling and domestic hot water production that delivers outstanding performance. This model is ideal for new installations and well-insulated homes.

WIDE RANGE

Wide range to suit all homes: High Performance and T-CAP.

FURTHER NOISE REDUCTION

-8 dB(A) in Quiet mode.

OPTIONAL REMOTE CONTROL AND MAINTENANCE

Panasonic Comfort Cloud App and Aquarea Service Cloud.

A+++ HIGH ENERGY EFFICIENCY FOR HEATING

High energy class for low temperature applications*.

*Scale from A+++ to D. Might not apply to all the models.

A+ HIGH ENERGY EFFICIENCY FOR DOMESTIC HOT WATER

DHW COP up to 3,5*.

*Scale from A+ to F.

60 °C OUTPUT WATER

Up to 60 °C water outlet down to -10 °C outdoor.

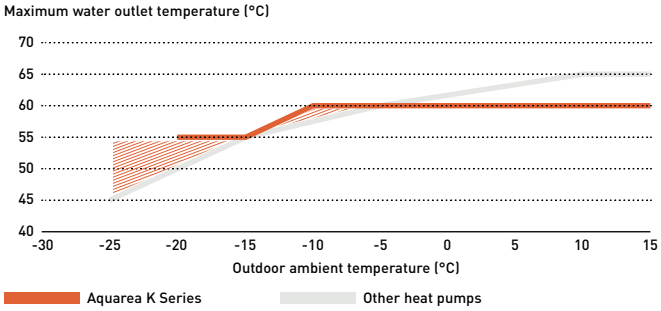
Further advanced features:

- **High tank insulation performance thanks to U-Vacua™***
- **All in One indoor unit available in 185 L and 260 L**
- **Less frequent maintenance with pre-installed magnet filter**
- **Water pressure sensor built-in**
- **Easy access to hydraulic parts**
- **Operation without backup heater at -25 °C**
- **Bluefin treatment protection on outdoor heat exchanger for harsh ambient conditions**

*Only applicable to All in One indoor unit. U-Vacua™ is a vacuum insulation panel (VIP) technology.

Aquarea K Series keeps 60 °C water outlet temperature even at very low temperatures

Aquarea K Series is able to keep 60 °C water outlet temperature in outdoor temperatures down to -10 °C, keeping high comfort in the room even at low temperatures. With other heat pumps, water temperature dramatically drops at low outdoor temperatures, making the heat pump to work out of the design conditions and creating discomfort inside the room.



Aquarea K Series for every project need.

Available in both T-CAP and High Performance, the Aquarea K Series offers a versatile range of solutions to suit different project sizes and needs.

The outdoor unit is designed to harmonize with architecture and the environment.

The compressor, which is a major source of noise, is equipped with a double-bottomed structure to provide a safe, quiet structure that does not disturb neighbours in crowded residential areas.

-8 dB(A) in Quiet mode

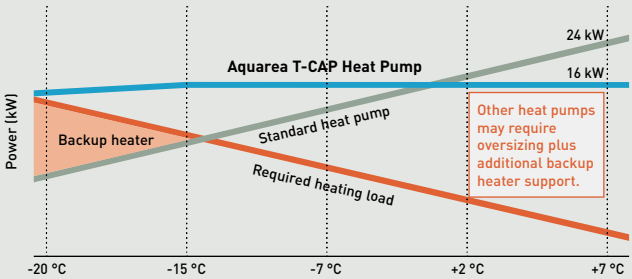
Aquarea T-CAP K Series.

For retrofit and new builds, the ideal solution for those installations where the output capacity is demanding.

The entire Aquarea T-CAP line-up is excellent for replacing gas or oil boilers and for connecting to new underfloor heating, radiators or fan coil units.
Aquarea T-CAP can maintain the rated heating capacity even at -15 °C outdoor temperature, without requiring an electrical heater. This makes it an ideal solution for locations with extremely low temperatures

Aquarea T-CAP, high performance whatever the climate

With Aquarea T-CAP technology, Panasonic heat pumps can work in outdoor temperatures as low as -28 °C and maintain capacity without backup heating at -15 °C.

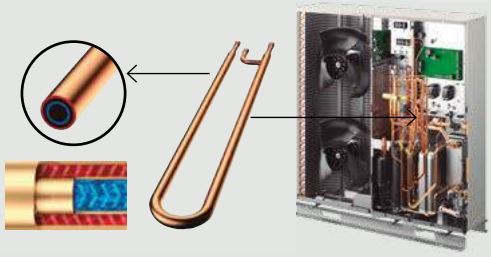


How Aquarea T-CAP K Series maintains performance even at -15 °C outdoors

A patent has been obtained for technology that can maintain heating capacity even in low outdoor temperatures through optimal control that comes from incorporating dual-piped heat exchanger into the refrigeration cycle.

Dual-piped heat exchanger.
Low pressure and low-temperature refrigerant in the inner pipe.

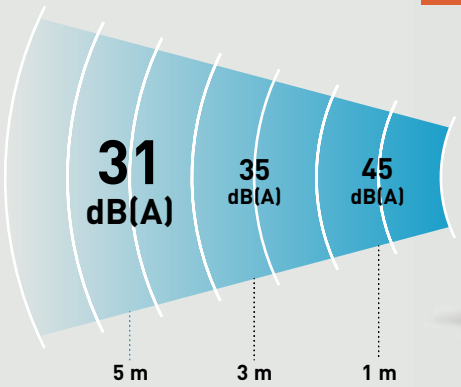
Image of the Aquarea T-CAP J Series Mono-bloc.



Aquarea T-CAP Super Quiet

Up to 7 dB(A) quieter, same outstanding performance.
The Super Quiet outdoor units operate up to 7 dB(A) quieter than standard T-CAP models, ensuring peace for residents and neighbours without compromising performance.
Perfect for noise-sensitive environments where outdoor units must blend into the surroundings.

*Sound pressure calculation for WH-UQZ09KE8 , free standing, A +7 °C, W 35 °C in Quiet mode 3.



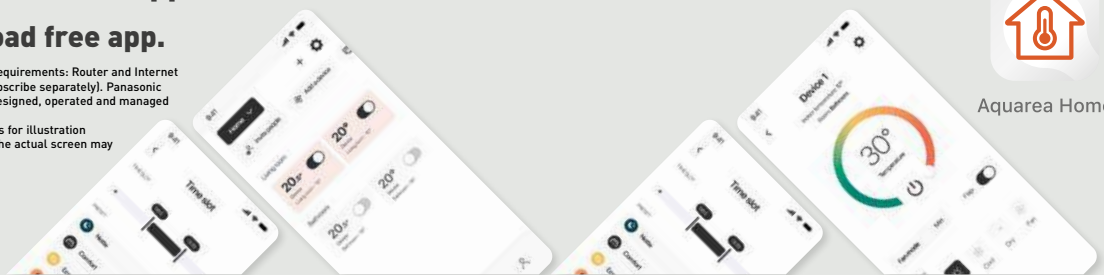
Aquarea Loop: Efficient radiator retrofit for centralised heating with integrated cooling

The Aquarea Loop is a decentralised water-to-air heat pump using natural refrigerant R290, designed to replace radiators in centralised heating systems.

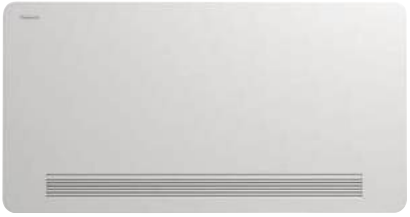
Aquarea Home App

Download free app.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Panasonic Cloud Server is designed, operated and managed by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Aquarea Home



R290

Ideal for multi-family buildings, social housing, hotels, schools, offices, ...

SEE PRODUCT SPECIFICATIONS

Efficiently replaces existing radiators in centralised heating systems.

It delivers heating and cooling for buildings with a central water loop 20 ~ 30 °C, ensuring high-efficiency and seamless integration with existing pipework.

- LOW THERMAL LOSSES
- SIMULTANEOUS HEATING AND COOLING
- USE OF EXISTING PIPEWORK FOR RENOVATIONS*
- UNIT-LEVEL ENERGY METERING

*Based on the low flow rate requirement – must be checked on each project.

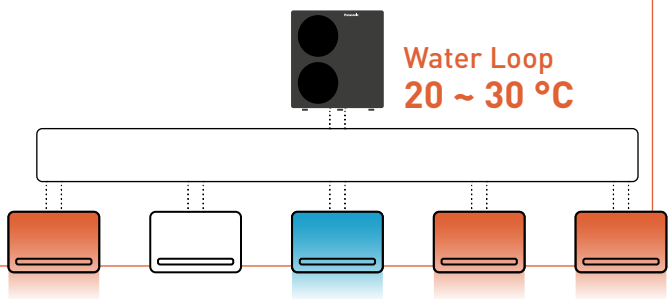
Additional benefits of the Aquarea Loop:

- Minimal disruption to the building and option for phased renovation
- Pre-installed hydraulic parts for faster installation
- Compact unit – only 140 mm deep
- No need for gas connection or chimney
- Reduced operating costs for long-term savings
- Full room-by-room autonomy for optimal comfort
- Independent or grouped scheduling via the Aquarea Home app or BMS
- High seasonal efficiency across the entire system
- Lower CO_2 emissions compared to traditional heating systems

Flexible heating and cooling for collective buildings.

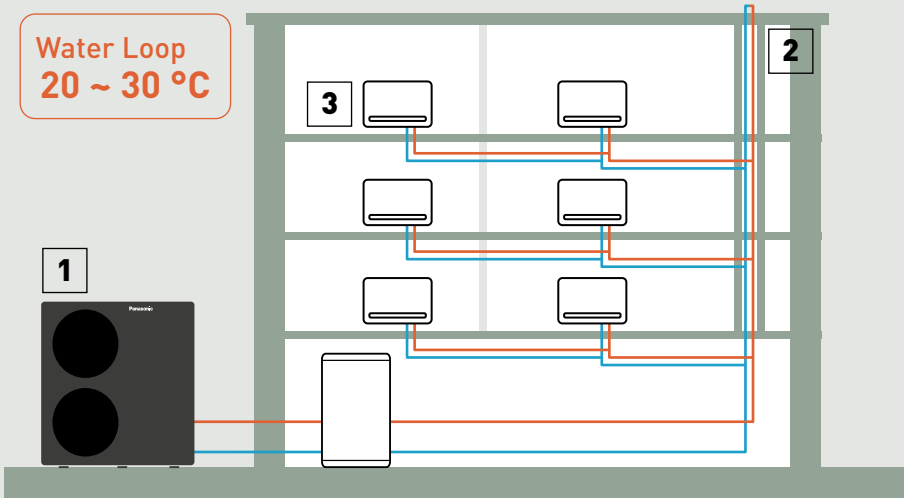
Aquarea Loop is a decentralised solution for heating and cooling connected to a central water loop. Operating at low water temperatures (20 ~ 30 °C), it prevents condensation, reduces energy losses and optimises system efficiency.

Each Aquarea Loop unit can select its own operating mode—heating or cooling—independently, allowing simultaneous operation in both modes across the system.



Retrofit application: centralised low temperature installation for decentralised heating and cooling.

1 | Centralised Aquarea Heat Pump (first stage of generation) replacing a high temperature traditional heat source
2 | Loop water temperature 20 ~ 30 °C. The existing pipework may be reused
3 | Aquarea Loop heat pump (second stage of generation) replacing conventional radiators



New Aquarea EcoFleX

R32
REFRIGERANT

2-in-1 – Flexible comfort and efficiency all year round.

The new Aquarea EcoFleX offers enhanced versatility. It delivers heat recovery hot water, heating, cooling, and cleaner air with nanoe™ X technology, all in one compact solution.

Comfort, flexibility and energy savings in one compact solution.

EcoFleX delivers heating, cooling and hot water from a single system. Its advanced heat recovery technology reuses energy to maximise savings while ensuring continuous comfort.

MAXIMUM FLEXIBILITY

Up to 3 air to air indoor units plus an air-to-water unit with an integrated DHW tank.

nanoeX ULTIMATE COMFORT

Continuous heating, cooling, DHW and cleaner air with nanoe™ X, down to -25 °C.*

*For CU-4WZ90CBE5. CU-2WZ71YBE5 operates down to -15 °C.

FURTHER ENERGY SAVINGS

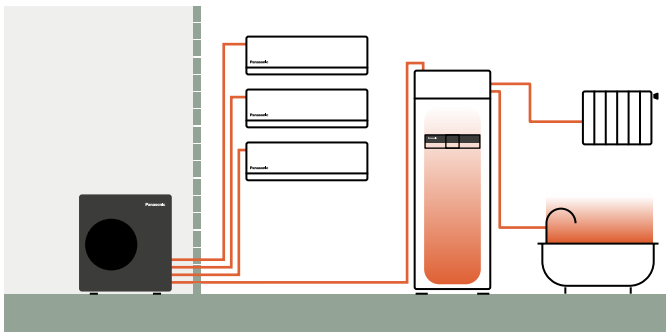
Heat recovery during cooling provides free DHW, reducing energy costs.

COMPACT DESIGN

The compact outdoor unit delivers both heating or cooling and DHW simultaneously.

EcoFleX system overview

1 outdoor unit. Up to 3 air to air indoor units for space heating or cooling. 1 air to water indoor unit for DHW and heating via radiators or underfloor heating.



Wide choice of indoor units for any installation

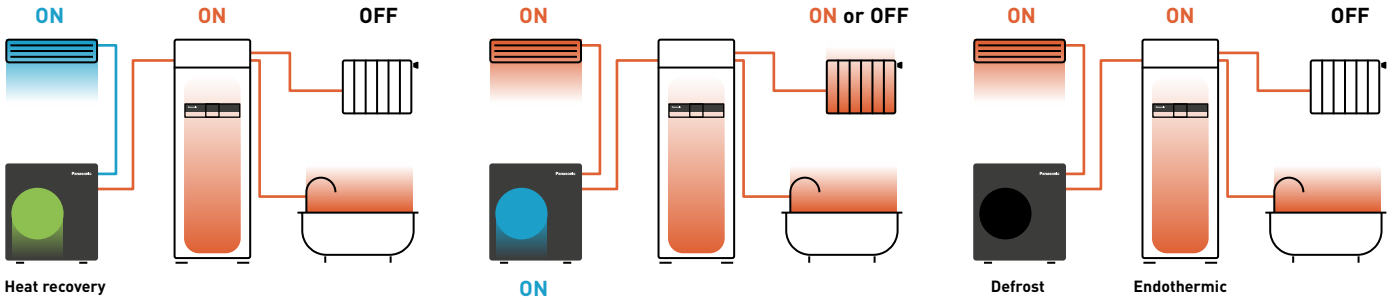
A versatile range of indoor units, including Etherea wall-mounted and EcoFleX ducted units, both featuring nanoe™ X technology, plus slim duct options for narrow ceilings. The ideal solution for any project.

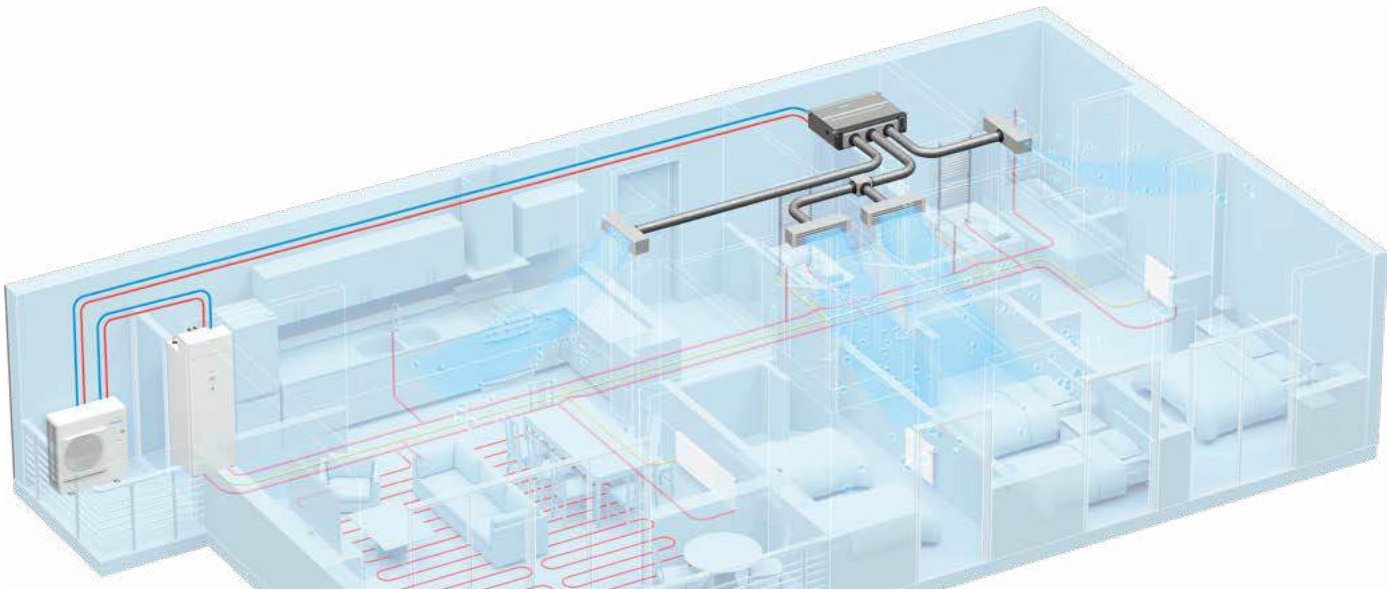
Unique technologies behind Aquarea EcoFleX

Heat recovery.
During cooling, the heat extracted from indoor air is recovered and used to produce domestic hot water, maximising energy efficiency.

Bi-heating.
Simultaneous operation for space heating (air to air), heating via radiators or underfloor systems, and domestic hot water.

Non-stop heating.
During defrost cycles, heat from the tank maintains air to air heating, ensuring continuous comfort without interruptions.





Aquarea EcoFleX. Air to water indoor unit

Integrated DHW tank and heat exchanger for domestic hot water and space heating via radiators or underfloor systems.

Compact design for easy integration.

Ideal for kitchens, utility rooms or confined spaces, with a depth comparable to standard kitchen appliances for seamless installation.

Compact, yet easy to maintain.

Adapted door opening mechanism.

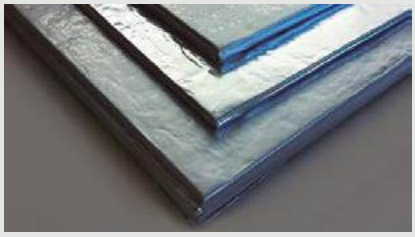
Easy service access.
Front access to hydraulic components via door mechanism reduces maintenance time and cost.

High-efficiency water filter.
Superior filtration minimises tank maintenance for long-term reliability.

An optional version with a built-in impressed current anode is available for installations in areas with harsh water conditions.

Optimised heat exchanger design.
Top-mounted heat exchanger simplifies installation.

Slim unit with large tank capacity.
185 L tank in a compact footprint (W 599 x D 602 mm) for space-saving installation.



Advanced U-Vacua™ insulation technology.
High performance vacuum insulation retains heat up to 19 times better than standard urethane foam.

Aquarea EcoFleX. Air to air indoor units

Connect up to three indoor units for flexible heating and cooling in any space.

SEE PRODUCT SPECIFICATIONS

Wide choice of indoor units for any installation.

A versatile range of indoor units, including Etherea wall-mounted and EcoFleX ducted units, both featuring nanoe™ X technology, plus slim duct options for narrow ceilings. The ideal solution for any project.

	Cooling capacity	Indoor unit dimension	Indoor air quality	Comfort	Installation	Connectivity
Aquarea EcoFleX hide-away	7,1 kW	**250** x 1000 x 730	nanoeX nanoe X Generator Mark 2	**26 dB(A)**	Selectable air inlet position Built-in drain pump Static pressure: 10 - 150 Pa	**CONEX with Wi-Fi** Optional KNX, Modbus, BACnet
Low static pressure hide-away	2,0 to 6,0 kW	**200** x 750 x 640	Air filter	**26 dB(A)**	Selectable air inlet position Built-in drain pump	Optional KNX, Modbus, BACnet
Wall-mounted Etherea	1,6 to 7,1 kW	295 x **870** x 229 (295 x 1040 x 244 wide model)	nanoeX nanoe X Generator Mark 3 Internal cleaning function	Aerowings 2.0 **21 dB(A)**	Easy installation	**Built-in Wi-Fi** Optional KNX, Modbus, BACnet

nanoe™ X: improving protection 24/7

Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long. nanoe™ X works together with heating or cooling function when you are at home and can work independently when you are away.

nanoeX Improving Protection 24/7

CLEANS THE AIR WHEN YOU ARE AWAY.
LEAVE THE nanoe™ MODE ON TO INHIBIT CERTAIN POLLUTANTS AND DEODORISE BEFORE YOU RETURN HOME

IMPROVES YOUR ENVIRONMENT WHEN YOU ARE AT HOME.
ENJOY A CLEANER, COMFORTABLE SPACE WITH LOVED ONES

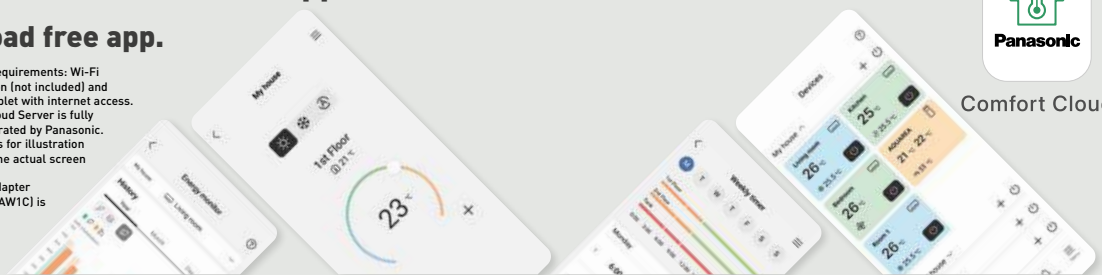
*Available with Etherea and Ecoflex hide-away indoor units.

nanoeX

Panasonic Comfort Cloud App

Download free app.

Other hardware requirements: Wi-Fi internet connection (not included) and Smartphone or tablet with internet access. The Panasonic Cloud Server is fully managed and operated by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.
*Optional Wi-Fi adapter (CZ-TAW1B/CZ-TAW1C) is required.



Panasonic Comfort Cloud

Download Now on the App Store

GET IT ON Google Play

Smart Solutions for Aquarea systems

Panasonic provides a comprehensive range of smart solutions for managing heating, cooling, and domestic hot water installations with Aquarea Heat Pumps.

Each app features advanced functionality, user-friendly interfaces, and seamless connectivity, providing complete control and optimization of Aquarea systems.

With multiple apps designed to meet a variety of requirements, the optimal solution can be chosen based on the specific needs of the project—whether it's achieving greater energy savings, enhancing comfort, or ensuring peace of mind with remote maintenance by a service partner.

Compare Aquarea Smart Solutions	Comfort Cloud	Aquarea Home	tado°
	Panasonic Comfort Cloud App	**Aquarea Home App**	**tado°**
Aquarea Heat Pump management	✔ Requires Cloud adapter CZ-TAW1B. Included with Aquarea L, M Series and EcoFleX.	✔ Requires Home Network Hub PCZ-ESW737.	✔ Requires Heat Pump Optimizer X PAW-THPOXE.
Remote maintenance via Aquarea Service Cloud	✔	–	–
Room control	✔ 1 or 2 heating zones control	✔ Aquarea Air Smart fan coils Aquarea Loop Aquarea Vent RAC Solo Requires remote control with Wi-Fi or Home Network Hub PCZ-ESW737.	✔ Radiators Underfloor heating Requires tado° Room control devices and Heat Pump Optimizer X or Bridge X.

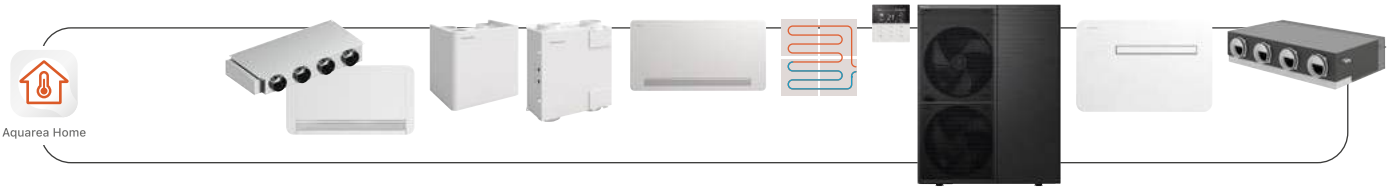
Aquarea Home App, seamless control of all Aquarea room solutions

Introducing the Aquarea Home App: Effortlessly manage the Aquarea room solutions anytime, anywhere, 24/7.

Aquarea Home

Integrated control of Aquarea Heat Pumps and room solutions through a single intuitive, user-friendly app [1].

- CENTRALISED REMOTE CONTROL
- CONTROL BY ROOM
- WEEKLY TIMER
- USER-FRIENDLY INTERFACE



1) Aquarea Air Smart fan coils, Aquarea Vent, Aquarea Loop, underfloor heating (field supply), RAC Solo and PACi NX multi zone duct: requires a remote control with Wi-Fi connectivity or a Modbus controller connected to the Aquarea Home Network Hub (PCZ-ESW737). 2) Aquarea Heat Pumps: require the Home Network Hub (PCZ-ESW737) to be connected to the CN-CNT port.

Comfort management, anytime, anywhere.

Home and room management.
Control heat pumps and terminals by room; monitor indoor/outdoor temperatures.

Device settings.
Adjust ON / OFF, temperature, and operating mode for all devices.

Scheduling.
Set independent weekly timers for each device.

*The app screen is for illustration purposes only. The actual screen may differ.

Connecting to Aquarea Home.

Aquarea Home supports two connection methods:
- Direct Wi-Fi connection
- Connection via the Home Network Hub (PCZ-ESW737): One heat pump and up to 16 room solutions per Hub

Both methods can be used simultaneously within the same home or installation.

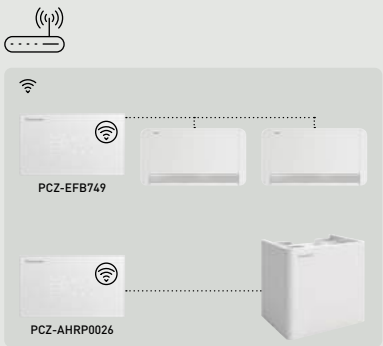
Requirements for connecting with Aquarea Home App

1 | Compatible devices and required accessories

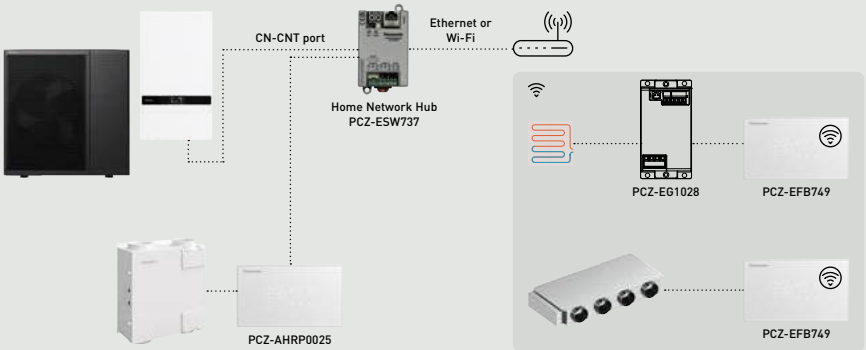
	Connection via Wi-Fi	Connection via Home Network Hub (PCZ-ESW737)
Aquarea Air Smart fan coils	✔ Requires PCZ-EFB749 or Wi-Fi on-board display	✔ Requires PCZ-EEB749 or Modbus on-board display
Aquarea Loop	✔ Requires Wi-Fi on-board display	✔ Requires Modbus on-board display
Aquarea Vent	✔ Requires PCZ-AHRP0025	✔ Requires PCZ-AHRP0026
Underfloor heating (field supply)	✔ Requires PCZ-EG1028 and PCZ-EFB749	✔ Requires PCZ-EG1028 and PCZ-EEB749
Aquarea H Series onwards	—	✔ Connection to CN-CNT port
RAC Solo	✔	✔
PACi NX multi zone duct	✔	—

2 | In-house WLAN or Wi-Fi internet connection
3 | Smartphone or tablet with internet connection

Case 1.
Room terminals via Wi-Fi only (no Hub).



Case 2.
Room terminals via Wi-Fi and/or Hub; heat pump via Home Network Hub.



Panasonic Comfort Cloud App

A powerful and intuitive app designed to manage and monitor your Panasonic heat pumps from anywhere, 24/7. With energy monitoring features, it helps reduce operational costs while ensuring your desired comfort.

Panasonic Comfort Cloud

*Requires Wi-Fi adapter CZ-TAW1B or CZ-TAW1C.

- REMOTE CONTROL
- WEEKLY TIMER
- MONITOR ENERGY CONSUMPTION
- ENABLES AQUAREA SERVICE CLOUD FOR REMOTE MAINTENANCE

Comfort management, anytime, anywhere.

Easily control heating, cooling, and DHW settings through an intuitive interface, maximising energy savings and comfort.

- Control of up to 2 heating zones (ON / OFF, temperature setting, mode selection, DHW setting)
- Optimised scheduling with weekly timer

Easy and powerful energy management.

Monitor and optimise your heat pump's energy usage to balance comfort and efficiency.

- Track energy consumption for space heating, cooling and domestic hot water
- Daily, weekly and yearly energy visualisation monitor energy recovery for domestic hot water production with Aquarea EcoFleX

Further peace of mind

Ensure your Aquarea Heat Pump is always under control.

- Enables remote maintenance via the Aquarea Service Cloud, managed by service partners
- Notification in case of malfunction

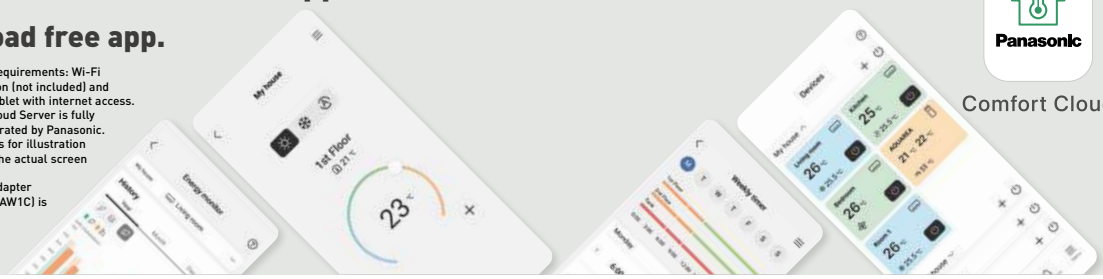
Requirements for connecting with Panasonic Comfort Cloud App

1 | Aquarea H Series or later
2 | Cloud adapter, CZ-TAW1B or CZ-TAW1C connected via the CN-CNT port. Included in M and L Series, and EcoFleX. For other series, it needs to be purchased separately.
3 | In-house WLAN or Wi-Fi internet connection
4 | Smartphone or tablet with internet connection

Panasonic Comfort Cloud App

Download free app.

Other hardware requirements: Wi-Fi internet connection (not included) and Smartphone or tablet with internet access. The Panasonic Cloud Server is fully managed and operated by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.
*Optional Wi-Fi adapter (CZ-TAW1B/CZ-TAW1C) is required.



Panasonic Comfort Cloud

Download on the App Store

GET IT ON Google Play

Aquarea Service Cloud

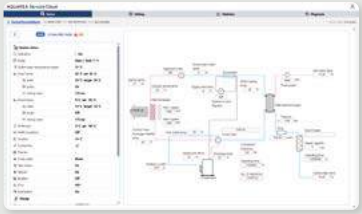
AQUAREA Service Cloud

With the Aquarea Service Cloud, installers can remotely take care of their customers' heating systems. It saves time and money and shortens the response time, thus increasing the customers' satisfaction.

TIME AND COST SAVING. REMOTE SYSTEM ADJUSTMENT. REMOTE DIAGNOSIS. ONE VISIT, SPARE PART IN HAND

INCREASED CUSTOMER SATISFACTION. FASTER SERVICE. TIME SAVING (LESS NUMBER OF VISITS)

Home page.
Overview of connected users at a glance with two display options: map view or list view.



Unit status.
Real-time overview of the unit's operating status with up to 28 key parameters.

Statistics.
Customisable performance statistics covering up to 71 parameters, accessible anytime for detailed analysis.

Unit settings.
Remote configuration of most user and installer settings for convenient system management.

Note: User interface design may vary.

Aquarea Service Cloud offers three versions to optimise system performance and reduce downtime.

Aquarea Service Cloud	**Standard version.** Remote maintenance made simple	**Advanced version.** For preventive and corrective maintenance	**Diagnosis version.** For predictive maintenance
License pack (20 licenses)	—	**SR-A2W-SVCADV20**	**SR-A2W-SVCDIA20**
RRP (20 licenses)	**Free of charge**	**Check price**	**Check price**
Unit status	✔	✔	✔
Unit settings	✔	✔	✔
Error logs	Last 4	Last 50	Last 50
Statistics	7 days	1 year	1 year
Statistics bulk download		✔	✔
Group management		✔	✔
System diagram		✔	✔
Pre-error data*		✔	✔
24h diagnosis algorithms			✔
COP weekly average			✔

Requirements:

1 | End user: Aquarea Heat Pump connected to the Panasonic Comfort Cloud App
2 | Installer/maintenance company: Service ID. Installer registration: https://aquarea-service.panasonic.com/

Activation in just 3 steps

1 | Log in to Panasonic Comfort Cloud App (end user) or Aquarea Service Cloud (installer)
2 | Submit the activation request. The process can be initiated by either party
3 | Confirmation is completed via email link by the other party

*The end user can adjust the installer's level of control at any time (four levels).

Aquarea Heat Pumps + tado°, the integrated solution for maximum energy savings and comfort

tado° X enables room control and smart energy management services.

A smart solution for maintaining the perfect temperature in your home.

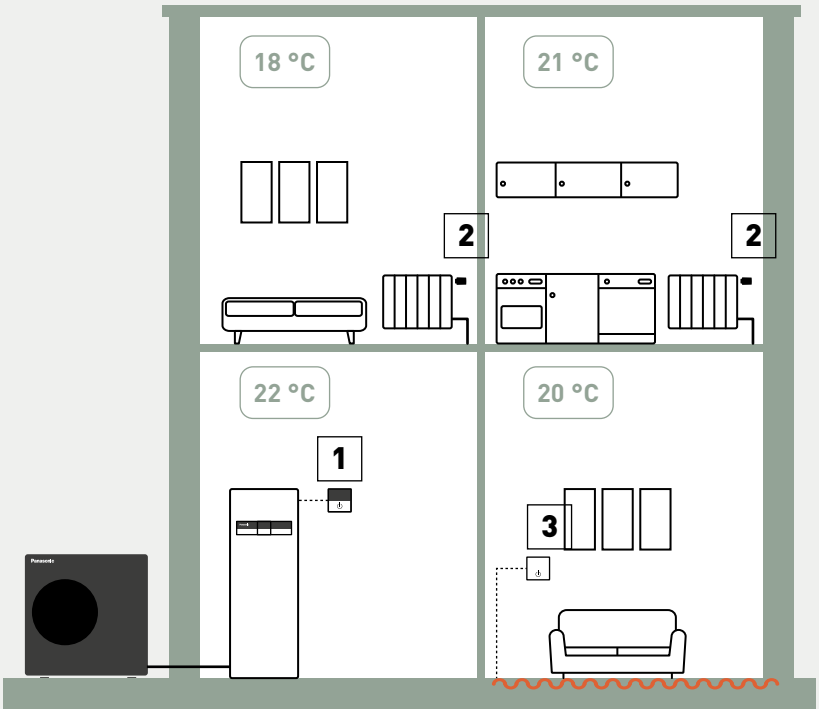
matter

BUILT ON THREAD

1

tado° Heat Pump Optimizer X.
Connecting to Aquarea Heat Pumps and enabling multi-room control and loadshifting.

tado° app and Balance for Heat Pumps*.
Multi-Room Control, scheduling and energy insights in one market leading app.
*Requires additional subscription.



2

tado° Smart Radiator Thermostat X.
For radiator control.

3

tado° Wired Smart Thermostat X.
For underfloor heating control.

Panasonic and tado° are redefining comfort and energy savings for Aquarea Heat Pumps.

tado° | Panasonic

Partnership for smart heat pump solutions

With joint developments such as AQUAREA Sync, which boosts efficiency by up to 10%, and Hydronic Balancing for optimal heat distribution, homeowners enjoy smarter control and greater energy savings.

MORE tado° OPTIONS IN ACCESSORIES SECTION

EASY INSTALLATION

Intuitive system selection. Offline installation possible.

FUTURE-PROOF SOLUTION

Further efficiency gains via planned software updates.

ADVANCED ENERGY SAVINGS

With the individual room temperature control.

RELIABLE AND TRUSTWORTHY

Guaranteed and optimised interoperability.

tado° Heat Pump Optimizer X and Balance for Heat Pumps.
Intelligent heating control optimised for Aquarea Heat Pumps.
The optional Balance subscription maximizes savings by unlocking additional optimisations.

tado° Room Control.
tado° Smart Thermostats simply replace the radiator thermostats or wall thermostats in your home and let you control your heating room by room in one easy-to-use app.

1) Requires the tado° Heat Pump Optimizer X, the tado° Bridge X or another Thread border router. 2) Not required with a Heat Pump Optimizer X or another Thread border router.

The tado° app.
Intuitive smart heating technology with Geofencing, Open Window Detection, Multi-Room Control, and offline Smart Schedules.

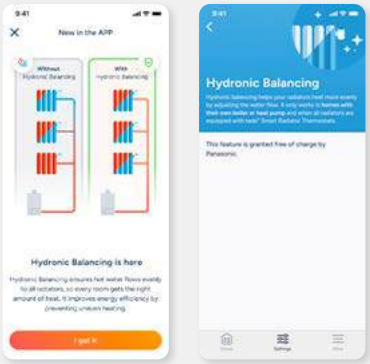
Exclusive benefits with the Panasonic | tado° bundle.

12 MONTHS FREE BALANCE FOR HEAT PUMPS

AQUAREA SYNC FOR UP TO +10% HIGHER EFFICIENCY

HYDRONIC BALANCING INCLUDED*

*Normally only available with AI Assist subscription.



Hydronic Balancing.

tado° Room control sets with Heat Pump Optimizer X	
KIT-TSRTXHP0XE	Set of tado° Heat Pump Optimizer X and 1x Smart Radiator Thermostat X
KIT-TSRTX4HP0XE	Set of tado° Heat Pump Optimizer X and 4x tado° Smart Radiator Thermostat X
KIT-TSTXHP0XE	Set of tado° Heat Pump Optimizer X and 1x Smart Thermostat X
KIT-TSTXSRTX2HP0XE	Set of tado° Heat Pump Optimizer X and 1x Smart Thermostat X and 2x Smart Radiator Thermostat X

tado° Room control sets with Bridge X	
PAW-TSRTXB	tado° Smart Radiator Thermostat X with Bridge X
PAW-TSTXB	tado° Smart Thermostat X with Bridge X
PAW-TSTXSRTX2B	Set of 1x Smart Thermostat X, 2x Smart Radiator Thermostat X and 1x Bridge X
tado° X devices	
PAW-THP0XE	tado° Heat Pump Optimizer X (with Europlug)
PAW-TSTX	tado° Smart Thermostat X
PAW-TSRTX	tado° Smart Radiator Thermostat X
PAW-TSRTX4	4x tado° Smart Radiator Thermostat X
PAW-TWTSX	tado° Wireless Temperature Sensor X
PAW-TBX	tado° Bridge X
PAW-TWRXE	tado° X Wireless receiver

Control and connectivity

Aquarea Heat Pumps provide a range of control options for efficient system management.

Integration with KNX and Modbus enables centralised operation through home management systems, optimising performance and costs.

Advanced remote controller.

Aquarea remote controller is designed in harmony with the whole system, with optimised user interface and improved features.
The remote controller can be removed from the indoor unit and installed in the living room.

K, L and M Series remote controller.
Dual controller system: A dual controller system for independent control of two zones within the home (requires additional remote controller CZ-RTW2-1 for M Series or CZ-RTW1 for K and L Series).

	K, L and M Series				H and J Series	
	Main controller		Sub controller		Main controller	
Quick menu	✔		✔		✔	
User menu	✔		✔		✔	
Installer / custom menu	✔		—		✔	
Maintenance menu	✔		—		✔	
Error reset	✔		✔		✔	
Internal thermostat	✔ Zone 1	✔ Zone 2	✔ Zone 1	✔ Zone 2	✔ Zone 1	✔ Zone 2

Installer functions:
System setup, operation setup (including heating / cooling modes, ΔT setup), dry concrete mode and cost-effective bivalent mode*, among others.

*Only for K, L and M Series.

End user functions:
Mode selection (including auto, powerful and quiet modes), weekly timer and energy monitoring,among others.

PCBs for additional functions.

CZ-NS4P: H and J Series.
CZ-NS5P: K and L Series.
CZ-NS6P: M Series All in One and Bi-bloc.
CZ-NS7P: M Series control module.
The optional PCB enables additional control functions for Aquarea Heat Pumps.
Functions available through the connection of the Optional PCB to the Main PCB:
· 2-zone control, with 2 mixing valves, 2 pumps and 2 room thermostats or sensors
· Control of swimming pool
· Solar thermal control
· External error signal output
· 0-10 V signal for heat pump demand control
· SG Ready [1)]
· Stop compressor by external compressor switch
· Switch heating and cooling by external heat-cool switch

1) Aquarea H and J Series heat pumps in combination with the optional PCB CZ-NSP4 hold the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Warmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control.

Control by BMS.

Maximum flexibility for seamless integration with KNX and Modbus projects, enabling full bi-directional monitoring and control of all operating parameters.
· Quick and easy installation
· Direct connection to the unit via the CN-CNT connector
· Bidirectional control
· Simultaneous operation via remote controller and gateway

*For specific functionality list of each gateway, please check the user's manual.

	Modbus RTU gateways			
	PAW-AZAW-MBS-M	**PAW-AW-MBS-M**	**CZ-NSMB-C**	**CZ-NSMB**
Dimension (H x W x D)	80 x 92 x 22 mm	93 x 53 x 59 mm	93 x 53 x 25 mm	85 x 50 x 20 mm
Mounting	Fixed by 2 screws or double-sided adhesive	DIN Rail	DIN Rail	Inside Big Aquarea T-CAP, Control Module, Bi-bloc and All in One*.
Configuration	App and Bluetooth®	DIP switch	DIP switch	DIP switch
External power supply	12 V DC	Not required	Not required	Not required
Compatibility	H Series onwards	H Series onwards	H Series onwards	M Series

	KNX gateways		EEbus gateways
	PAW-AZAW-KNX-1	**PAW-AW-KNX-H**	**PAW-AZAW-EEBUS-1**
Dimension (H x W x D)	80 x 92 x 22 mm	59 x 45 x 21 mm	80 x 92 x 22 mm
Mounting	Fixed by 2 screws or double-sided adhesive	Not required	Fixed by 2 screws or double-sided adhesive
Configuration	App and Bluetooth®	DIP switch	App and Bluetooth®
External power supply	12 V DC	Not required	12 V DC
Compatibility	J, K or L Series	H, K or L Series	H Series onwards

*Big Aquarea T-CAP: WH-WXG20ME8, WH-WXG25ME8 and WH-WXG30ME8. Control module: WH-CME5, WH-CME8 and WH-CME8L. Bi-bloc (requires installation kit CZ-NSMB-MTPL): WH-SDC0916M3E5, WH-SDC0916M6E5 and WH-SDC0316M9E8. All in One (requires installation kit CZ-NSMB-MTPL): WH-ADC0916M3E51, WH-ADC0916M3E52, WH-ADC0916M6E52, WH-ADC0916M3E53, WH-ADC0916M6E53, WH-ADC0316M9E81, WH-ADC0316M9E82, WH-ADC0316M9E83.

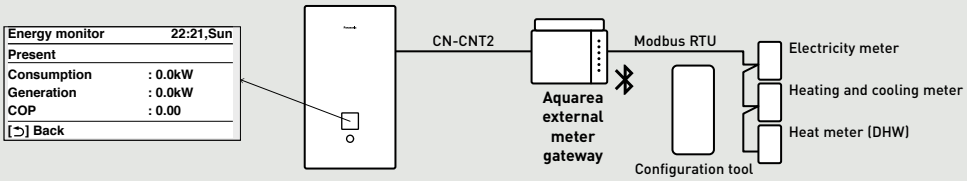
External meter gateway.

PAW-A2W-EXTMETER

· Energy consumption and production from external Modbus RTU meters
· Real values visualized via Aquarea remote controller and Panasonic Comfort Cloud App
· Compatible with Aquarea K Series onwards

Possibility to mix internal calculation and external meters			
Configuration	**Electricity meter (HP)**	**Heat meter (heating and cooling)**	**Heat meter (DHW)**
Only external meters	External	External	External
Only external consumption meter	External	Internal calculation	Internal calculation
Only external production meters (2 meters)	Internal calculation	External	External
Only external production meter (single meter for total production)	Internal calculation	External	Internal calculation

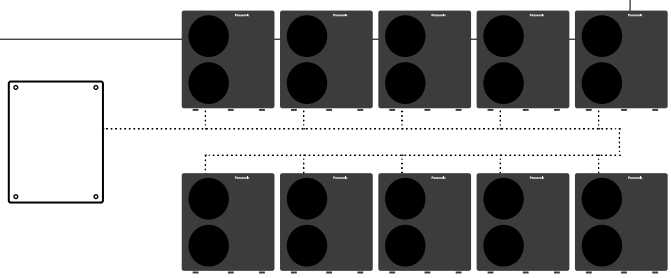
Functions:
· Configuration via App (iOS and Android™) using Bluetooth®
· Easy to setup thanks to templates for some meters manufacturers
· Configuration can be done before and just send it on commissioning



Cascade manager

Designed for central heating projects, small hotels, supermarkets and restaurants, the cascade manager manages the demand for energy efficient heating and cooling balancing working hours.

Up to 10 heat pumps (up to 300 kW)



- Cascade up to 10 units
- Heating and cooling control
- Domestic hot water (DHW) control
- Management up to 75 °C (L or M Series)
- Provides total energy consumption and generation
- All components in one case
- BMS integration

Cascade manager.

PAW-A2W-CMH-3

Cascade up to 10 heat pumps, getting up to 300 kW, with a large, easy-to-use touch screen display, providing intuitive control.

· Photovoltaics integration (PV optimised algorithm)
· Control of 3 way valves for cooling (2 buffer tanks)
· Heating/cooling 0-10 V demand signal – controls target outlet temperature
· Energy meters compatibility
  - Meters communication with Modbus RTU
  - Pre-configuration of 4 market popular meters
· BMS integration via Modbus TCP
· Working mode: entire system in heating/cooling or DHW by priority

Compatible with Aquarea Heat Pumps from H Series onwards [1].

1) Requires 1 CZ-NSMB or 1 PAW-AZAW-MBS-M per each Aquarea Heat Pump.

Aquarea Cascade Edge.

PAW-A2W-CME4 and PAW-A2W-CME10

Cascade up to 4 or 10 Aquarea Heat Pumps, also in combination with ECOi-W AQUA chillers and heat pumps, and get up to 750 kW [1]. Remotely control your units with a local web visualization via smartphone, tablet or PC.

· Local web visualization of the cascade controller
· Easy connection with smartphone, tablet or PC thanks to the Wi-Fi access point on the device
· 2 possible online management solutions:
  - P-Smart Nexus: easy access and global visualization of all your sites
  - Via customer VPN or MyDNS configuration
· Data ownership thanks to local data storage (no cloud storage)
· BMS Integration via BACnet IP
· Smaller buffer tank or smaller capacity unit thanks to 2 possible logic working modes
  - Possibility to combine all the heat pumps between heating/cooling and DHW, providing both simultaneously
  - Entire system in heating/cooling or DHW by priority
· Configuration wizard with default values

Compatible with Aquarea Heat Pumps from H Series onwards [2].

1) Maximum capacity combining 1 Aquarea (main) + 9 ECOi-W AQUA-G BLUE 80 kW (sub unit). 2) Requires 1 CZ-NSMB or 1 PAW-AZAW-MBS-M per each Aquarea Heat Pump.

P-SMART EDGE

P-Smart Edge.
Control and monitoring online solution for Aquarea Cascade Edge systems wherever you are. In a simple click, configure and receive status updates of all your units.

P-Smart Nexus

P-Smart Nexus.
Smart multi-site online control which allows a remote global supervision of all your sites.

	PAW-A2W-CMH-3	PAW-A2W-CME4	PAW-A2W-CME10
Cascade up to number of heat pumps	Up to 10	Up to 4	Up to 10
Management of heat demand, balancing working hours	✔	✔	✔
Integration of photovoltaics (PV optimised algorithm)	✔	–	–
Connectable buffer tank	2 tanks	1 tank	1 tank
Heating/cooling 0-10 V demand signal	✔	–	–
BMS integration	Modbus TCP	BACnet IP	BACnet IP
Built-in touch screen display	✔	–	–
Management via smartphone, tablet or PC	–	✔	✔
Remote monitoring via P-Smart Edge	–	✔	✔
Multi-site control via P-Smart Nexus	–	✔	✔
Data statistics visualization	–	✔	✔

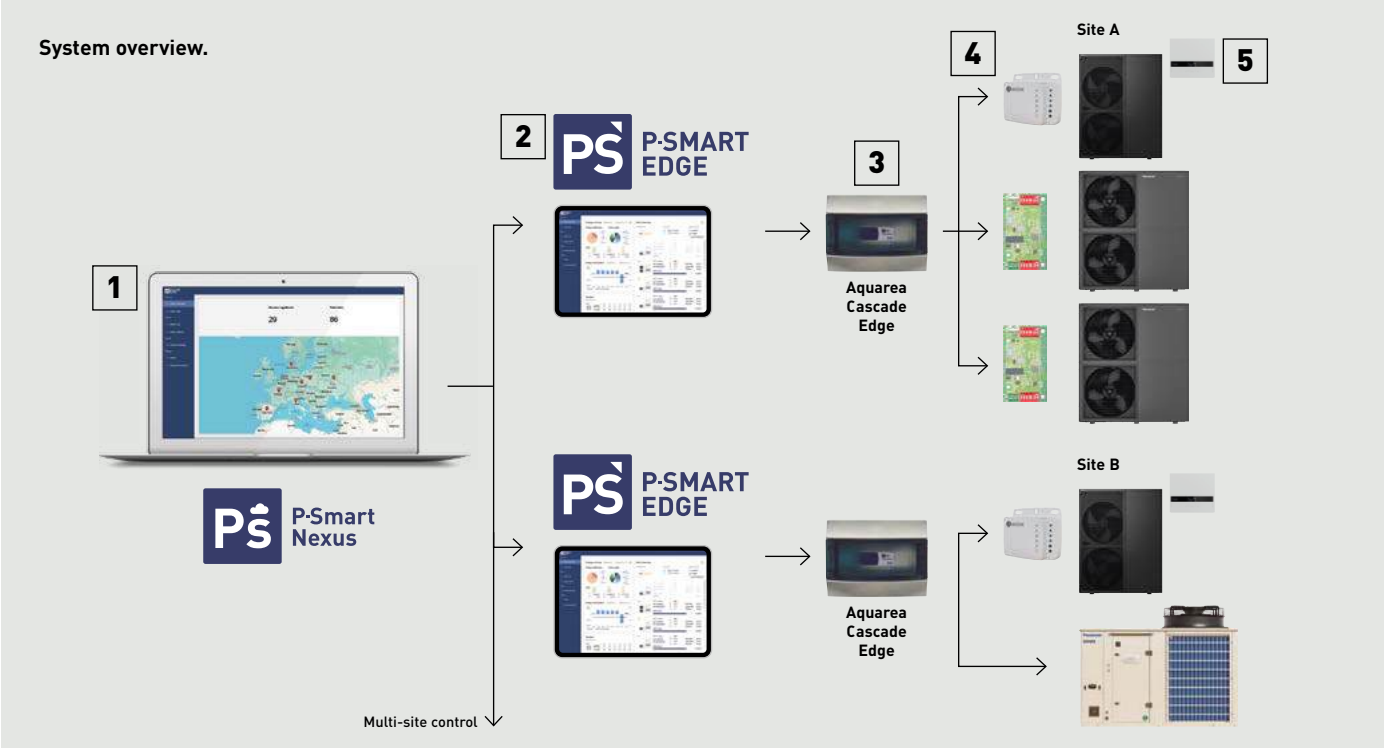
P-Smart Edge for Aquarea Cascade Edge

Complete and remote centralized control of your Aquarea cascade system.

P-SMART EDGE

P-Smart Edge.

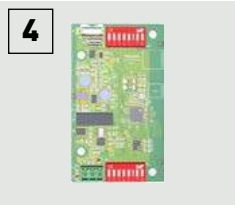
Control and monitoring solution for Aquarea cascade systems wherever you are. In a simple click, configure and receive status updates of all your units.



P-Smart Nexus.
Smart multi-site control which allows a remote global supervision of all your sites. Control your different installations wherever you are, with easy on-site network setup.

P-Smart Edge.
Control and monitoring solution for Aquarea cascade systems, even outside your installation site.

Aquarea Cascade Edge.
PAW-A2W-CME4 and PAW-A2W-CME10.



Modbus interface.
Requires 1 Modbus gateway (see page 57) per each Aquarea Heat Pump.

Aquarea cascade system.
Main unit: control module or Bi-bloc mandatory + optional PCB.
Sub units: remote controller needed. Possibility of combination with other Panasonic commercial products (ECOi-W AQUA chillers and heat pumps).

*Check availability for chiller connection.

Advantages

Powerful remote management with user-friendly interface.
- Simple and intuitive home screen with: Plant overview, energy overview, DHW status and buffer and zone list
- Alarm status and history
- 3 different user profiles: facility manager, installer and maintenance
- Online visualization, no installation of any specific software is required

Remote configuration of the technical parameters.
Possible configuration of:
- Installation settings
- Sterilisation configuration (schedule)
- Outdoor units silence mode (schedule)
- Bivalent
- SG Ready
- COP ranking

Historical system data.
- Graphs and data showing the energy overview related to periods of 7 days or 8 hours
- Data stored for up to 2 years

Note: User interface design may vary.

P-Smart Nexus: smart multi-site remote management.
- Remote global supervision of all your sites in one place
- 24/7 control of all the installations
- Easy connection to Aquarea Cascade Edge without special on-site network setup
- 3-year subscription from the start-up included
- Online visualization, no installation of any specific software is required

How Panasonic contributes to Nearly Zero Energy Buildings (nZEB)

Our expertise gained over the years has helped to launch a range of products that contribute to a more carbon-free society.

Panasonic is committed to develop products with greater energy efficiency.
Highly efficient Panasonic solutions can help to significantly reduce the energy consumption of the house, at the same time a high level of comfort and good indoor air quality are kept.

- Aquarea High performance heat pump for heating, cooling and domestic hot water production
- Panasonic Comfort Cloud App, for energy monitoring
- Heat recovery ventilation system
- PV panels to produce renewable energy on-site

Aquarea Heat Pumps and the ventilation unit with heat recovery certified as Passive House Component

Aquarea High Performance K and L Series heat pumps and the residential ventilation units have been certified by the Passive House Institute (PHI) as Passive House Component. This certification ensures highly energy efficient components according to international criteria for respective thermal performance, comfort and indoor air quality.

Certified models can be checked under the certification section of https://database.passivehouse.com.

CERTIFIED COMPONENT Passive House Institute

cool, temperate climate CERTIFIED COMPONENT Passive House Institute

H3 Grande Passive House, Poland.
When looking for a energy efficient heating solution, Polish construction company Procyon selected a 5 kW Panasonic Aquarea High Performance heat pump for its passive house project, H3 Grande. Procyon found this solution reduced annual heating expenses by almost half compared to an oil-based system, or by 10% in comparison to natural gas.
H3 Grande is a 175 m² detached house certified by the Passive House Institute (PHI) in Darmstadt. It is designed to minimise energy losses while incorporating an attractive, yet simple aesthetic. The building's shape, interior design and pitched roof contribute to the energy balance of the house, while large south-facing windows and wall insulation provide passive thermal comfort by retaining heat. The building has very low heating demand of approximately 15 W/m² and is designed to minimise energy.

Aquarea and PV integration

Aquarea Heat Pumps are designed with the future in mind.

Thanks to the integration of the Aquarea Heat Pumps with PV, the demand or power consumption for heating, cooling and domestic hot water production is adapted to the PV production.

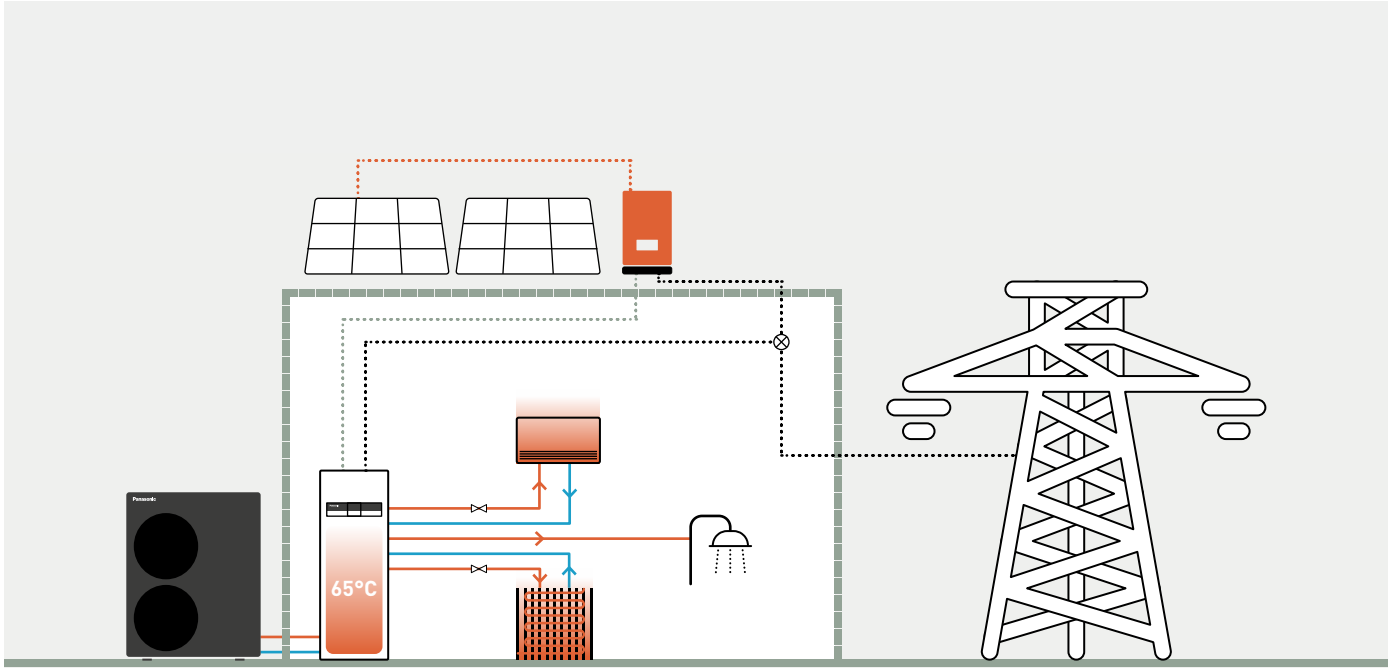
- SAVINGS ON HEAT PUMP RUNNING COSTS
- REDUCED PRIMARY ENERGY CONSUMPTION
- CO_2 LOWER CO_2 EMISSIONS
- MAXIMISED COMFORT

Aquarea Heat Pumps can be integrated with PV thanks to the optional PCB [1)]

With the SG Ready function, the Aquarea Heat Pumps will be able to store thermal energy during periods where the electricity produced is higher than the demand in the house. These are some examples:

1 | Store DHW at higher temperature. Aquarea M and L Series can produce DHW at 65 °C up to 40% more tap water
2 | Heat or cool the house to maintain a comfortable temperature continuously. This requires less energy during the off-peak production hours
3 | Store thermal energy in a buffer tank

1) CZ-NS*P. Check the model reference by Series in the control for Aquarea Heat Pumps section.



Turning a family home into an energy-neutral house. Installer Sinne Technyk chose the Aquarea T-CAP heat pump in combination with HIT KURO photovoltaic panels for a house in Oudemirdum in Friesland, the Netherlands. With this combination, the household enjoys energy-neutral and free heating and hot water, as well as a more comfortable indoor climate. “The aim was to create an energy-neutral house and to reduce gas consumption to zero,” explains Leo van der Molen of Sinne Technyk. “This makes a heat pump an interesting option”. With the comfort of customers and neighbours in mind, a silent Aquarea T-CAP heat pump was chosen, powered by 24 Panasonic HIT KURO solar panels of 325 Wp each.

Aquarea design tools to make your life easier

Discover the suite of Aquarea design tools crafted to streamline your professional workflow on Aquarea projects.

These resources are designed to make your planning process more efficient and effective.

Aquarea Designer.

With Panasonic's Aquarea Designer – Online tool, projects can be developed simply and easily. The newly developed air to water design tool is optimised to help HVAC professionals easily identify the most appropriate Aquarea air to water heat pump for a particular application, to calculate the savings compared to other heat sources and to calculate CO_2 emissions very quickly.

The system can produce a Heat Pump Design Report which includes:

- Customer and general project information
- Heating system specific data
- Heat pump dimensioning, including information about the chosen Panasonic heat pump
- Calculated energy demand and performance factors
- CO_2 savings by the different energy sources
- Comparison of yearly operational or economic costs (optional)

All the support tools are available in Panasonic PRO Club (www.panasonicproclub.com).

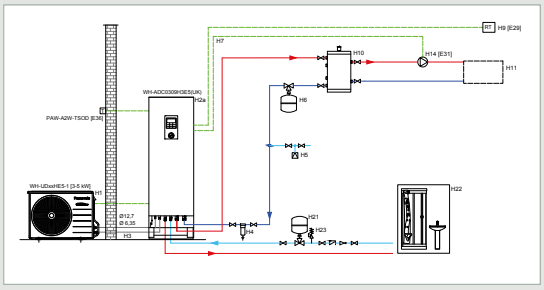
Among many others, these are the main tools for the design of Aquarea projects.

PRO Club

Hydraulic scheme generator.

The Aquarea Hydraulic Scheme Generator (HSG) allows users to select a hydraulic schematic according to their installation requirements. This will be accompanied by the relevant electrical connection schematic and component list.

The latest features and upgrades include:
· A modern user interface
· Accessory model choice selection
· Expanded buffer tank options
· Additional refrigerant and hydraulic specification details



Vent PRO.

From selecting the right ventilation unit to planning the air distribution system and choosing the appropriate components, the Vent PRO guides you through every step to ensure the optimal solution for your project.

Heating demand calculator.

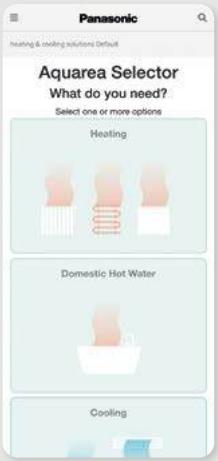
This software can quickly and easily determine the heating requirements for the rooms in a project. The Heating demand calculator will help determine approximately how much power is needed to heat each room individually. The result in kilowatts will help you choose the space heater best suited to your needs.

CAD images and spec texts.

In order to add value in the design of projects, Panasonic has a wide library of 2D CAD, BIM objects (Building Information Modeling) and Spec texts to be used in Revit.

Try the new Panasonic Augmented Reality projector.

Helping you to find the Aquarea Heat Pumps for your home in just a few clicks!



Aquarea Hydraulic

Aquarea T-CAP		9 kW	12 kW	16 kW	20 kW	25 kW	30 kW
P. 70 , 72	R290 **All in One** **· R290** **1ph - 3ph**	 WH-ADC0916M3E51 WH-ADC0916M3E52 [1] WH-ADC0916M3E5AN2 WH-ADC0916M3E53 [1] WH-ADC0916M3E5AN3 WH-ADC0316M9E81 WH-ADC0316M9E82 WH-ADC0316M9E8AN2 WH-ADC0316M9E83 WH-ADC0316M9E8AN3 WH-WXG09ME5 WH-WXG09ME8	 WH-ADC0916M3E51 WH-ADC0916M3E52 [1] WH-ADC0916M3E5AN2 WH-ADC0916M3E53 [1] WH-ADC0916M3E5AN3 WH-ADC0316M9E81 WH-ADC0316M9E82 WH-ADC0316M9E8AN2 WH-ADC0316M9E83 WH-ADC0316M9E8AN3 WH-WXG12ME5 WH-WXG12ME8	 WH-ADC0316M9E81 WH-ADC0316M9E82 WH-ADC0316M9E8AN2 WH-ADC0316M9E83 WH-ADC0316M9E8AN3 WH-WXG16ME8			
P. 70 , 72	R290 **Bi-bloc** **· R290** **1ph - 3ph**	 WH-SDC0916M3E5 [1] WH-SDC0316M9E8 WH-WXG09ME5 WH-WXG09ME8	 WH-SDC0916M3E5 [1] WH-SDC0316M9E8 WH-WXG12ME5 WH-WXG12ME8	 WH-SDC0316M9E8 WH-WXG16ME8			
P. 70 , 72	R290 **Control module** **· R290** **1ph - 3ph**	 WH-CME5 WH-CME8 WH-WXG09ME5 WH-WXG09ME8	 WH-CME5 WH-CME8 WH-WXG12ME5 WH-WXG12ME8	 WH-CME8 WH-WXG16ME8	 WH-CME8L WH-WXG20ME8	 WH-CME8L WH-WXG25ME8	 WH-CME8L WH-WXG30ME8
P. 70 , 72	R290 **Stand-alone** **· R290** [2] **1ph - 3ph**	 WH-WXG09ME5 WH-WXG09ME8	 WH-WXG12ME5 WH-WXG12ME8	 WH-WXG16ME8	 WH-WXG20ME8	 WH-WXG25ME8	 WH-WXG30ME8
P. 74	**Mono-bloc** **· R32** **1ph - 3ph**	 WH-MXC09J3E5-1 WH-MXC09J3E8-1	 WH-MXC12J6E5-1 WH-MXC12J9E8-1	 WH-MXC16J9E8-1			

Models with R290 refrigerant. Models with R32 refrigerant.
1) Also available with other backup heater capacities. 2) Requires CZ-RTW2TAW1C.
WH-__E5 1ph // WH-__E8 3ph.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

Aquarea High Performance		5 kW	7 kW	9 kW	12 kW	16 kW
P. 76 , 78	R290 **All in One** **· R290** **1ph - 3ph**	 WH-ADC0509L3E51 WH-ADC0509L3E5 [1] WH-ADC0509L3E5B WH-ADC0509L3E5AN [1] WH-WDG05LE5	 WH-ADC0509L3E51 WH-ADC0509L3E5 [1] WH-ADC0509L3E5B WH-ADC0509L3E5AN [1] WH-WDG07LE5	 WH-ADC0509L3E51 WH-ADC0509L3E5 [1] WH-ADC0509L3E5B WH-ADC0509L3E5AN [1] WH-WDG09LE5 WH-ADC0316M9E81 WH-ADC0316M9E82 WH-ADC0316M9E8AN2 WH-ADC0316M9E83 WH-ADC0316M9E8AN3 **NEW!** WH-WDG09ME8	 WH-ADC0916M3E51 WH-ADC0916M3E52 [1] WH-ADC0916M3E5AN2 WH-ADC0916M3E53 [1] WH-ADC0916M3E5AN3 WH-ADC0316M9E81 WH-ADC0316M9E82 WH-ADC0316M9E8AN2 WH-ADC0316M9E83 WH-ADC0316M9E8AN3 **NEW!** WH-WDG12ME5 WH-WDG12ME8	 WH-ADC0916M3E51 WH-ADC0916M3E52 [1] WH-ADC0916M3E5AN2 WH-ADC0916M3E53 [1] WH-ADC0916M3E5AN3 WH-ADC0316M9E81 WH-ADC0316M9E82 WH-ADC0316M9E8AN2 WH-ADC0316M9E83 WH-ADC0316M9E8AN3 **NEW!** WH-WDG16ME5 WH-WDG16ME8
P. 76 , 78	R290 **Bi-bloc** **· R290** **1ph - 3ph**	 WH-SDC0509L3E5 [1] WH-WDG05LE5	 WH-SDC0509L3E5 [1] WH-WDG07LE5	 WH-SDC0509L3E5 [1] WH-WDG09LE5 WH-SDC0916M3E5 [1] WH-SDC0316M9E8 **NEW!** WH-WDG09ME8	 WH-SDC0916M3E5 [1] WH-SDC0316M9E8 **NEW!** WH-WDG12ME5 WH-WDG12ME8	 WH-SDC0916M3E5 [1] WH-SDC0316M9E8 **NEW!** WH-WDG16ME5 WH-WDG16ME8
P. 78	R290 **Control module** **· R290** **1ph - 3ph**			 WH-CME8 **NEW!** WH-WDG09ME8	 WH-CME5 WH-CME8 **NEW!** WH-WDG12ME5 WH-WDG12ME8	 WH-CME5 WH-CME8 **NEW!** WH-WDG16ME5 WH-WDG16ME8
P. 78	R290 **Stand-alone** **· R290 [2]** **1ph - 3ph**			 **NEW!** WH-WDG09ME8	 **NEW!** WH-WDG12ME5 WH-WDG12ME8	 **NEW!** WH-WDG16ME5 WH-WDG16ME8
P. 81	**Mono-bloc** **· R32** **1ph**	 **NEW!** WH-MDC05J3E5-1	 **NEW!** WH-MDC07J3E5-1	 **NEW!** WH-MDC09J3E5-1		

Models with R290 refrigerant. Models with R32 refrigerant.
1) Also available with other backup heater capacities. 2) Requires CZ-RTW2TAW1C.
WH-__E5 1ph // WH-__E8 3ph.

Aquarea Split

Aquarea T-CAP		9 kW	12 kW	16 kW
P. 82, 83, 84, 85	All in One · R32 1ph - 3ph	 WH-ADC0912K6E5 WH-ADC0912K6E5AN WH-ADC0912K6E53 WH-ADC0912K6E5AN3 WH-UXZ09KE5 WH-ADC0912K9E8 WH-ADC0912K9E8AN WH-ADC0912K9E83 WH-ADC0912K9E8AN3 WH-UXZ09KE8	 WH-ADC0912K6E5 WH-ADC0912K6E5AN WH-ADC0912K6E53 WH-ADC0912K6E5AN3 WH-UXZ12KE5 WH-ADC0912K9E8 WH-ADC0912K9E8AN WH-ADC0912K9E83 WH-ADC0912K9E8AN3 WH-UXZ12KE8	 WH-ADC16K9E8 WH-ADC16K9E8AN WH-ADC16K9E83 WH-ADC16K9E8AN3 WH-UXZ16KE8
P. 90	Bi-bloc · R32 1ph - 3ph	 WH-SXC09K3E5 [1] WH-UXZ09KE5 WH-SXC09K3E8 [1] WH-UXZ09KE8	 WH-SXC12K6E5 WH-UXZ12KE5 WH-SXC12K9E8 WH-UXZ12KE8	 WH-SXC16K9E8 WH-UXZ16KE8

Aquarea T-CAP Super Quiet		9 kW	12 kW	16 kW
P. 86, 87, 88, 89	All in One · R32 3ph	 NEW! WH-ADC0912K9E8 WH-ADC0912K9E8AN WH-ADC0912K9E83 WH-ADC0912K9E8AN3 WH-UQZ09KE8	 NEW! WH-ADC0912K9E8 WH-ADC0912K9E8AN WH-ADC0912K9E83 WH-ADC0912K9E8AN3 WH-UQZ12KE8	 NEW! WH-ADC16K9E8 WH-ADC16K9E8AN WH-ADC16K9E83 WH-ADC16K9E8AN3 WH-UQZ16KE8
P. 91	Bi-bloc · R32 3ph	 NEW! WH-SXC09K9E8 [1] WH-UQZ09KE8	 NEW! WH-SXC12K9E8 WH-UQZ12KE8	 NEW! WH-SXC16K9E8 WH-UQZ16KE8

Models with R32 refrigerant.
1) Also available with other backup heater capacities.
WH-__E5 1ph // WH-__E8 3ph.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

Aquarea High Performance		3 kW	5 kW	7 kW	9 kW	12 kW	16 kW
P. 92, 93, 94, 95, 96, 97, 98, 99	All in One · R32 1ph - 3ph	 WH-ADC0309K3E5 [1] WH-ADC0309K3E5B WH-ADC0309K3E5AN [1] WH-UDZ03KE5	 WH-ADC0309K3E5 [1] WH-ADC0309K3E5B WH-ADC0309K3E5AN [1] WH-UDZ05KE5	 WH-ADC0309K3E5 [1] WH-ADC0309K3E5B WH-ADC0309K3E5AN [1] WH-UDZ07KE5	 WH-ADC0309K3E5 [1] WH-ADC0309K3E5B WH-ADC0309K3E5AN [1] WH-UDZ09KE5 WH-ADC0912K9E8 WH-ADC0912K9E8AN WH-ADC0912K9E83 WH-ADC0912K9E8AN3 WH-UDZ09KE8	 WH-ADC0912K6E5 WH-ADC0912K6E5AN WH-ADC0912K6E53 WH-ADC0912K6E5AN3 WH-UDZ12KE5 WH-ADC0912K9E8 WH-ADC0912K9E8AN WH-ADC0912K9E83 WH-ADC0912K9E8AN3 WH-UDZ12KE8	 WH-ADC16K6E5 WH-ADC16K6E5AN WH-ADC16K6E53 WH-ADC16K6E5AN3 WH-UDZ16KE5 WH-ADC16K9E8 WH-ADC16K9E8AN WH-ADC16K9E83 WH-ADC16K9E8AN3 WH-UDZ16KE8
P. 100, 101	Bi-bloc · R32 1ph - 3ph	 WH-SDC0309K3E5 [1] WH-UDZ03KE5	 WH-SDC0309K3E5 [1] WH-UDZ05KE5	 WH-SDC0309K3E5 [1] WH-UDZ07KE5	 WH-SDC0309K3E5 [1] WH-UDZ09KE5 WH-SDC09K3E8 [1] WH-UDZ09KE8	 WH-SDC12K6E5 WH-UDZ12KE5 WH-SDC12K9E8 WH-UDZ12KE8	 WH-SDC16K6E5 WH-UDZ16KE5 WH-SDC16K9E8 WH-UDZ16KE8

Models with R32 refrigerant.
1) Also available with other backup heater capacities.
WH-__E5 1ph // WH-__E8 3ph.

Aquarea EcoFleX		7,1 kW	9,5 kW
P. 102	EcoFleX · R32 1ph	 WH-ADF0309J3E5CM S-71WF3E CU-2WZ71YBE5	 NEW! WH-ADF0309K3E5M WH-ADF0309K3E5ANM S-71WF3E CS-MZ16CKE CS-Z20CKEW CS-Z25CKEW CS-Z35CKEW CS-Z42CKEW CS-Z50CKEW CS-Z71CKEW CS-MZ20CD3EA CS-Z25CD3EAW CS-Z35CD3EAW CS-Z50CD3EAW CS-Z60CD3EAW CU-4WZ90CBE5

Aquarea DHW Heat Pump

Aquarea DHW Heat Pump		100 L	150 L	200 L	260 L
P. 128	R290 Aquarea DHW Heat Pump · R290 1ph	 P-DHW100AE5	 P-DHW150AE5	 P-DHW200AE5 P-DHW200CAE5	 P-DHW260AE5 P-DHW260CAE5

Aquarea T-CAP Hydraulic M Series outdoor units. Single phase / Three phase · R290

Natural refrigerant R290 with GWP 0,02.
Energy efficiency: A+++ in heating at 35 °C / Built-in flow meter.
Flexibility: Hydronic connection between indoor and outdoor / Built-in magnetic water filter.
Comfort: Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / Up to 75 °C flow temperature / 55 °C flow temperature at -25 °C / Low noise level
Control: Optimised user interface and improved features (2 zone control, bivalent control).

Check all our certified heat pumps on:
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A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW* A+ TO F

*For All in One.

Combination table						Outdoor unit				
Indoor unit						Heating capacity				
						Single phase		Three phase		
		DHW tank	Backup heater capacity	Electrical anode		9,0 kW	12,0 kW	9,0 kW	12,0 kW	16,0 kW
						WH-WXG09ME5	WH-WXG12ME5	WH-WXG09ME8	WH-WXG12ME8	WH-WXG16ME8
Hydraulic All in One	1ph	120 L	3 kW	—	WH-ADC0916M3E51	✔	✔	—	—	—
		185 L	3 kW	—	WH-ADC0916M3E52	✔	✔	—	—	—
		185 L	3 kW	✔	WH-ADC0916M3E5AN2	✔	✔	—	—	—
		185 L	6 kW	—	WH-ADC0916M6E52	✔	✔	—	—	—
		260 L	3 kW	—	WH-ADC0916M3E53	✔	✔	—	—	—
		260 L	3 kW	✔	WH-ADC0916M3E5AN3	✔	✔	—	—	—
		260 L	6 kW	—	WH-ADC0916M6E53	✔	✔	—	—	—
	3ph	120 L	9 kW	—	WH-ADC0316M9E81	✔	✔	✔	✔	✔
		185 L	9 kW	—	WH-ADC0316M9E82	✔	✔	✔	✔	✔
		185 L	9 kW	✔	WH-ADC0316M9E8AN2	✔	✔	✔	✔	✔
		260 L	9 kW	—	WH-ADC0316M9E83	✔	✔	✔	✔	✔
		260 L	9 kW	✔	WH-ADC0316M9E8AN3	✔	✔	✔	✔	✔
Hydraulic Bi-bloc	1ph	—	3 kW	—	WH-SDC0916M3E5	✔	✔	—	—	—
		—	6 kW	—	WH-SDC0916M6E5	✔	✔	—	—	—
	3ph	—	9 kW	—	WH-SDC0316M9E8	✔	✔	✔	✔	✔
Control module	1ph	—	—	—	WH-CME5	✔	✔	—	—	—
	3ph	—	—	—	WH-CME8	✔	✔	✔	✔	✔
Remote controller with Wi-Fi adapter	—	—	—	—	CZ-RTW2TAW1C	✔	✔	✔	✔	✔

Combination table - Big Aquarea T-CAP Hydraulic M Series			Outdoor unit		
Indoor unit			Heating capacity		
			Three phase		
			20,0 kW	25,0 kW	30,0 kW
			WH-WXG20ME8	WH-WXG25ME8	WH-WXG30ME8
Control module	3ph	WH-CME8L	✔	✔	✔
Remote controller with Wi-Fi adapter	—	CZ-RTW2TAW1C	✔	✔	✔

Accessories	
CZ-RTW2TAW1C	Remote controller with Wi-Fi adapter (required for stand-alone outdoor units). M Series
CZ-RTW2-1	Optional remote controller for 2 zone control. M Series
CZ-NS6P	PCB for advanced functions. M Series All in One and Bi-bloc
CZ-NS7P	PCB for advanced functions. M Series control module
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat
PAW-A2W-AFVLV-112	1 antifreeze valve 1 1/2". It is required to order 2 valves per system. For 20, 25 and 30 kW
PAW-A2W-AFVLV-1	1 antifreeze valve 1". It is required to order 2 valves per system. For 9, 12 and 16 kW
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel

Accessories	
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TE50H1AE	Tank 500 L - Enamelled DHW
PAW-TE75H1AEAN	Tank 750 L - Enamelled DHW
PAW-TE90H1AEAN	Tank 900 L - Enamelled DHW
PAW-3WYVLV-HW	3 way valve for DHW tanks
PAW-BTANK50L-2	Buffer tank 50 L
PAW-BTANK100L	Buffer tank 100 L
PAW-BTANKG200L	Buffer tank 200 L
PAW-BTANKG260L	Buffer tank 260 L
PAW-BC50FAE	Buffer tank 500 L
PAW-BC80FAE	Buffer tank 800 L
PAW-BC100FAE	Buffer tank 1000 L

R290 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 75 °C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | WI-FI INCLUDED | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

DHW A+: For All in One.

Aquarea T-CAP Hydraulic M Series outdoor units.

Outdoor unit			WH-WXG09ME5	WH-WXG12ME5	WH-WXG09ME8	WH-WXG12ME8	WH-WXG16ME8
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,23	12,00/5,06	9,00/5,23	12,00/5,06	16,00/4,89
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,24	12,00/3,23	9,00/3,24	12,00/3,23	16,00/3,20
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,81	12,00/3,54	9,00/3,81	12,00/3,54	16,00/3,30
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,54	12,00/2,42	9,00/2,54	12,00/2,42	16,00/2,37
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,45	12,00/3,00	9,00/3,45	12,00/3,00	16,00/2,53
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,35	12,00/2,17	9,00/2,35	12,00/2,17	16,00/1,97
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	9,00/3,61	9,00/3,61	9,00/3,61	9,00/3,61	9,00/3,61
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	9,00/5,26	12,00/5,26	9,00/5,26	12,00/5,26	16,00/5,26
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57(195/140)	5,00/3,46(197/135)	5,00/3,50(197/137)	4,73/3,65(186/143)	4,75/3,70(187/115)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,33/4,40(250/173)	6,20/4,40(245/173)	6,08/4,45(240/175)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,45/3,20(175/125)	4,38/3,25(172/127)	4,33/3,40(170/133)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A+++/A++	A++/A++	A++/A++
Sound power [2]	Heat	dB(A)	52	53	52	53	57
Dimension	H x W x D	mm	1520 x 1200 x 430	1520 x 1200 x 430	1520 x 1200 x 430	1520 x 1200 x 430	1520 x 1200 x 430
Net weight		kg	161	161	161	161	165
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power (Min/Max)	W	30/175	30/175	30/175	30/175	30/175
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	25,8	34,4	45,9
Refrigerant (R290) / CO_2 Eq. [3]		kg / T	1,78/0,00004	1,78/0,00004	1,78/0,00004	1,78/0,00004	1,78/0,00004
Operating range - outdoor ambient	Heat	°C	-28~+35	-28~+35	-28~+35	-28~+35	-28~+35
	Cool	°C	+10~+43	+10~+43	+10~+43	+10~+43	+10~+43
	DHW	°C	-28~+43	-28~+43	-28~+43	-28~+43	-28~+43
Water outlet	Heat / Cool	°C	25 ~ 75 [4] / 5 ~20	25 ~ 75 [4] / 5 ~20	25 ~ 75 [4] / 5 ~20	25 ~ 75 [4] / 5 ~20	25 ~ 75 [4]) / 5 ~20
Recommended fuse, supply [5]		A	30	30	20	20	25
Recommended minimum cable size, supply [5]		mm²	3x4,0	3x4,0	5x1,5	5x1,5	5x2,5

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825 (part load). 3) WH-WXG models are hermetically sealed. 4) Above -15 °C outdoor temperature. Between outdoor ambient -15 °C and -25 °C, the water outlet temperature gradually decreases from 75 °C to 55 °C. Below -25 °C outdoor temperature maximum water outlet temperature is 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511.

Big Aquarea T-CAP Hydraulic M Series outdoor units.

Outdoor unit			WH-WXG20ME8	WH-WXG25ME8	WH-WXG30ME8
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	20,00/4,80	25,00/4,50	30,00/4,40
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	20,00/3,18	25,00/3,00	30,00/3,00
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	20,00/3,39	25,00/2,80	30,00/2,50
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	20,00/2,08	25,00/1,97	30,00/1,95
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	20,00/2,48	25,00/2,36	30,00/2,33
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	20,00/1,90	25,00/1,80	30,00/1,49
Cooling capacity / EER (A 35 °C, W 7 °C) at Comfort mode		kW / EER	20,00/3,02	25,00/2,86	26,00/2,68
Cooling capacity / EER (A 35 °C, W 7 °C) at Efficiency mode (default)		kW / EER	15,00/3,61	15,00/3,61	15,00/3,61
Cooling capacity / EER (A 35 °C, W 18 °C) at Comfort mode		kW / EER	20,00/4,79	25,00/4,47	30,00/4,10
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,36/3,59 (171/141)	4,25/3,57 (167/140)	3,95/3,46 (155/135)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	5,37/4,07 (212/160)	5,22/4,14 (206/163)	4,93/4,01 (194/158)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	3,07/2,57 (120/100)	3,16/2,71 (123/105)	3,20/2,71 (125/105)
	Energy class [1]	A+++ to D	A/A+	A+/A+	A+/A+
Sound power [2]	Heat	dB(A)	56	59	61
Dimension	H x W x D	mm	1645 x 1500 x 460	1645 x 1500 x 460	1645 x 1500 x 460
Net weight		kg	240	240	240
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power (Min/Max)	W	230	230	230
Heating water flow (ΔT=5 K. 35 °C)		L/min	57,3	71,6	86,0
Refrigerant (R290) / CO_2 Eq. [3]		kg / T	3,0/0,00006	3,0/0,00006	3,0/0,00006
Operating range - outdoor ambient	Heat	°C	-25~+35	-25~+35	-25~+35
	Cool	°C	+10~+43	+10~+43	+10~+43
Water outlet	Heat / Cool	°C	20~75 [4]/5~20	20~75 [4]/5~20	20~75 [4]/5~20
Recommended fuse, supply [5]		A	50	50	50
Recommended minimum cable size, supply [5]		mm²	5x10 - 5x16	5x10 - 5x16	5x10 - 5x16

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825 (part load). 3) WH-WXG models are hermetically sealed. 4) Above 15 °C ambient temperature. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511.

Aquarea T-CAP Hydraulic M Series indoor units. Single phase / Three phase · R290

Natural refrigerant R290 with GWP 0,02.
Control: All control functions / 2 CN-CNT ports / Optional PCB for advanced functions.
Connectivity: Wi-Fi adapter included for smart control via Comfort Cloud App / Optional integration into BMS.

*For All in One.

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW* A+ TO F
Included

Control module:

Flexibility: Simplified installation / Minimal interior space required / Supports third-party backup heater.

Indoor unit		WH-CME5	WH-CME8	WH-CME8L
Dimension / Net weight H x W x D	mm / kg	454 x 520 x 116 / 7	454 x 520 x 116 / 7	454 x 520 x 116 / 7
Field supply electrical backup heater	kW	Up to 3 kW	Up to 9 kW	Up to 18 kW
Recommended fuse, supply [1]	A	16	30	≤9 kW: 20 — 9 kW< ≤18 kW: 40
Recommended minimum cable size, supply [1]	mm²	3x1,5	3x4,0	≤12 kW: 5x2,5 12 kW< ≤15 kW: 5x4,0 15 kW< ≤18 kW: 5x6,0
Connecting cable to the outdoor unit size	mm²	2x0,75	2x0,75	2x0,75

1) Check local regulations.

Bi-bloc:

Flexibility: Flexible choice of DHW tank size.

Indoor unit			WH-SDC0916M3E5	WH-SDC0916M6E5	WH-SDC0316M9E8
Sound pressure	Heat / Cool	dB(A)	22 / 22	22 / 22	22 / 22
Dimension / Net weight	H x W x D	mm / kg	892 x 500 x 348 / 28	892 x 500 x 348 / 28	892 x 500 x 348 / 29
Water pipe connector	Room	Inch	1¼	1¼	1¼
Water pipe connector (indoor / outdoor units)		Inch	1¼ / 1¼	1¼ / 1¼	1¼ / 1¼
Pipe length range standard / maximum		m	5 / 30	5 / 30	5 / 30
Elevation difference (in / out)		m	30	30	30

Electrical information for Bi-bloc and All in One indoor units		Single phase (3 kW heater)	Single phase (6 kW heater)	Three phase (9 kW heater)
Electric backup heater	kW	3,00	6,00	9,00
Recommended fuse, supply [1]	A	16	30	20
Recommended minimum cable size, supply [1]	mm²	3x1,5	3x4,0	5x1,5
Connecting cable to the outdoor unit size	mm²	2x0,75	2x0,75	2x0,75

1) Check local regulations. *This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW2TAW1C	Remote controller with Wi-Fi adapter (required for stand-alone outdoor units). M Series
CZ-RTW2-1	Optional remote controller for 2 zone control. M Series
CZ-NS6P	PCB for advanced functions. M Series All in One and Bi-bloc
CZ-NS7P	PCB for advanced functions. M Series control module
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat
CZ-NV3	3 way valve kit to fit inside the hydrokit. M Series
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled

Accessories	
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TE50H1AE	Tank 500 L - Enamelled DHW
PAW-TE75H1AEAN	Tank 750 L - Enamelled DHW
PAW-TE90H1AEAN	Tank 900 L - Enamelled DHW
PAW-3WYVLV-HW	3 way valve for DHW tanks
PAW-BTANK50L-2	Buffer tank 50 L
PAW-BTANK100L	Buffer tank 100 L
PAW-BTANKG200L	Buffer tank 200 L
PAW-BTANKG260L	Buffer tank 260 L
PAW-BC50FAE	Buffer tank 500 L
PAW-BC80FAE	Buffer tank 800 L
PAW-BC100FAE	Buffer tank 1000 L

R290 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 75 °C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | WI-FI INCLUDED | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

DHW A+: For All in One.

All in One:

Energy efficiency: A+ in DHW / DHW up to 65 °C without heater / Stainless steel DHW tank with U-Vacua™.
Flexibility: Backup heater included / Built-in 10 L expansion vessel / 30 m maximum height difference between indoor and outdoor / Suitable for harsh-water installations (AN version).

All in One with 120 L DHW tank*			Single phase	Three phase
Indoor unit			**WH-ADC0916M3E51**	**WH-ADC0316M9E81**
Dimension / Net weight	H x W x D	mm / kg	1293 x 599 x 602 / 74	1293 x 599 x 602 / 74
Water volume		L	120	120
Electric backup heater		kW	3,00	9,00

Domestic Hot Water energy efficiency

Indoor unit		**WH-ADC0916M3E51**	**WH-ADC0916M3E51**	**WH-ADC0316M9E81**	**WH-ADC0316M9E81**	**WH-ADC0316M9E81**
Outdoor unit		**WH-WXG09ME5**	**WH-WXG12ME5**	**WH-WXG09ME8**	**WH-WXG12ME8**	**WH-WXG16ME8**
Tapping profile according EN16147		L	L	L	L	L
DHW tank ERP efficiency average / warm / cold [1]	A+ to F	A+/A/A	A+/A/A	A+/A/A	A+/A/A	A+/A/A
DHW tank ERP average climate η / COPdHW	ηwh %/COPdHW	96/2,41	96/2,41	96/2,41	96/2,41	96/2,41
DHW tank ERP warm climate η / COPdHW	ηwh %/COPdHW	101/2,7	101/2,7	101/2,7	101/2,7	101/2,7
DHW tank ERP cold climate η / COPdHW	ηwh %/COPdHW	70/1,75	70/1,75	70/1,75	70/1,75	70/1,75

All in One with 185 L DHW tank			Single phase		Three phase
Indoor unit			**WH-ADC0916M3E52**	**WH-ADC0916M6E52**	**WH-ADC0316M9E82**
Indoor unit with Electrical Anode			**WH-ADC0916M3E5AN2**	**—**	**WH-ADC0316M9E8AN2**
Dimension / Net weight	H x W x D	mm / kg	1642 x 599 x 602 / 89	1642 x 599 x 602 / 89	1642 x 599 x 602 / 89
Water volume		L	185	185	185
Electric backup heater		kW	3,00	6,00	9,00

Domestic Hot Water energy efficiency

Indoor unit		**WH-ADC0916M3E52**	**WH-ADC0916M3E52**	**WH-ADC0316M9E82**	**WH-ADC0316M9E82**	**WH-ADC0316M9E82**
		WH-ADC0916M6E52	**WH-ADC0916M6E52**	**—**	**—**	**—**
		WH-ADC0916M3E5AN2	**WH-ADC0916M3E5AN2**	**WH-ADC0316M9E8AN2**	**WH-ADC0316M9E8AN2**	**WH-ADC0316M9E8AN2**
Outdoor unit		**WH-WXG09ME5**	**WH-WXG12ME5**	**WH-WXG09ME8**	**WH-WXG12ME8**	**WH-WXG16ME8**
Tapping profile according EN16147		L	L	L	L	L
DHW tank ERP efficiency average / warm / cold [1]	A+ to F	A+/A+/A	A+/A+/A	A+/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average climate η / COPdHW	ηwh %/COPdHW	123/3,00	123/3,00	123/3,00	123/3,00	117/2,85
DHW tank ERP warm climate η / COPdHW	ηwh %/COPdHW	132/3,30	132/3,30	132/3,30	132/3,30	128/3,20
DHW tank ERP cold climate η / COPdHW	ηwh %/COPdHW	88/2,20	88/2,20	88/2,20	88/2,20	84/2,10

All in One with 260 L DHW tank			Single phase		Three phase
Indoor unit			**WH-ADC0916M3E53**	**WH-ADC0916M6E53**	**WH-ADC0316M9E83**
Indoor unit with Electrical Anode			**WH-ADC0916M3E5AN3**	**—**	**WH-ADC0316M9E8AN3**
Dimension / Net weight	H x W x D	mm / kg	2036 x 599 x 602 / 105	2036 x 599 x 602 / 105	2036 x 599 x 602 / 105
Water volume		L	260	260	260
Electric backup heater		kW	3,00	6,00	9,00

Domestic Hot Water energy efficiency

Indoor unit		**WH-ADC0916M3E53**	**WH-ADC0916M3E53**	**WH-ADC0316M9E83**	**WH-ADC0316M9E83**	**WH-ADC0316M9E83**
		WH-ADC0916M6E53	**WH-ADC0916M6E53**	**—**	**—**	**—**
		WH-ADC0916M3E5AN3	**WH-ADC0916M3E5AN3**	**WH-ADC0316M9E8AN3**	**WH-ADC0316M9E8AN3**	**WH-ADC0316M9E8AN3**
Outdoor unit		**WH-WXG09ME5**	**WH-WXG12ME5**	**WH-WXG09ME8**	**WH-WXG12ME8**	**WH-WXG16ME8**
Tapping profile according EN16147		XL	XL	XL	XL	XL
DHW tank ERP efficiency average / warm / cold [1]	A+ to F	A+/A+/A	A+/A+/A	A+/A+/A	A+/A+/A	A / A+ / A
DHW tank ERP average climate η / COPdHW	ηwh %/COPdHW	123/3,00	123/3,00	125/3,10	125/3,10	115/2,85
DHW tank ERP warm climate η / COPdHW	ηwh %/COPdHW	132/3,30	132/3,30	136/3,35	136/3,35	129/3,20
DHW tank ERP cold climate η / COPdHW	ηwh %/COPdHW	88/2,20	88/2,20	95/2,35	95/2,35	85/2,10

All in One Indoor units technical data			
Sound pressure	Heat / Cool	dB(A)	22/22
Water pipe connector	Room / Shower	Inch	1¼/¾
Maximum DHW temperature		°C	65
Material inside tank			Stainless steel
Water pipe connector (indoor / outdoor units)		Inch	1¼/1¼
Pipe length range standard / maximum		m	5/30
Elevation difference (in / out)		m	30

1) Scale from A+ to F. *This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Aquarea T-CAP Mono-bloc J Series. Single phase / Three phase - MXC · R32

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.
Flexibility: Built-in magnetic water filter.
Comfort: Constant capacity at 55 °C down to -15 °C / 65 °C water outlet temperature.
Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).
Connectivity: Optional Wi-Fi and BMS integration.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

Optional

			Single phase			Three phase	
Outdoor unit			**WH-MXC09J3E5-1**	**WH-MXC12J6E5-1**	**WH-MXC09J3E8-1**	**WH-MXC12J9E8-1**	**WH-MXC16J9E8-1**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,08	12,00/4,80	9,00/5,08	12,00/4,80	16,00/4,52
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,08	12,00/3,05	9,00/3,08	12,00/3,05	16,00/2,86
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,81	12,00/3,53	9,00/3,81	12,00/3,53	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,54	12,00/2,42	9,00/2,54	12,00/2,42	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,08	12,00/2,82	9,00/3,08	12,00/2,82	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,12	12,00/2,00	9,00/2,12	12,00/2,00	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	9,00/3,18	12,00/2,90	9,00/3,09	12,00/2,84	14,50/2,84
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	9,00/4,62	12,00/3,95	9,00/4,46	12,00/3,79	16,00/3,75
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,46/3,31(176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	5,88/4,09(232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	3,83/3,20(150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Sound power [2]	Heat	dB(A)	61	61	61	61	63
Dimension	H x W x D	mm	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	140	140	140	140	150
Refrigerant (R32) / CO_2 Eq. [3]		kg / T	1,60/1,080	1,60/1,080	1,60/1,080	1,60/1,080	1,80/1,215
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
Pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power (Min/Max)	W	32/145	34/145	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	25,8	34,4	45,9
Electric backup heater		kW	3,00	6,00	3,00	9,00	9,00
Input power	Heat	kW	1,77	2,50	1,77	2,50	3,54
	Cool	kW	2,83	4,14	2,91	4,23	5,11
Running and starting current	Heat	A	8,3	11,6	2,6	3,7	5,3
	Cool	A	13,1	19,1	4,3	6,3	7,6
Current 1		A	29,0	29,0	14,7	11,8	16,4
Current 2		A	13,0	26,0	13,0	13,0	13,0
Recommended fuse, supply 1 / 2 [4]		A	30/30	30/30	20/16	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [4]		mm^2	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/3x1,5	5x1,5/5x1,5	5x2,5/5x1,5
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	10 ~ +43	10 ~ +43	10 ~ +43	10 ~ +43	10 ~ +43
Water outlet [5]	Heat	°C	20 ~ 65	20 ~ 65	20 ~ 65	20 ~ 65	20 ~ 65
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825. 3) WH-MXC models are hermetically sealed. 4) Check local regulations. 5) It is possible to set temperature by 65 °C on remote controller. Normally, outlet water temperature is 60 °C or lower. In case of ΔT setting with remote controller is 15 °C and the outdoor ambient temperature is 5 to 20 °C, outlet water temperature 65 °C is possible. *EER and COP calculation is based in accordance to EN 14511.

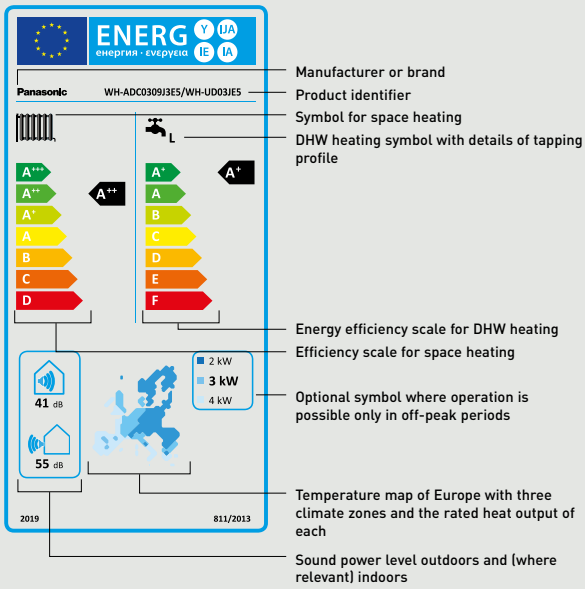
Accessories	
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L – Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L – Stainless steel
PAW-3WYVLV-HW	3 way valve for DHW tanks
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
PAW-A2W-AFVLV-1	1 antifreeze valve 1". It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5,08 COP HIGH PERFORMANCE | 65°C OUTPUT WATER FLOW TEMPERATURE | DHW | -20 °C HEATING MODE | WATER FILTER WITH MAGNET | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | ADVANCED CONTROL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Validating efficiency and performance of Aquarea Heat Pumps

Aquarea Heat Pumps achieve outstanding efficiency and performance, validated through ErP labels and Keymark certifications. These credentials ensure that Aquarea Heat Pumps deliver reliable and sustainable heating solutions.



Energy labels: guiding consumers to energy savings.

Energy labels help consumers make informed purchasing decisions and support Ecodesign requirements that reduce energy demand and combat global warming.
Heat pumps are classified into seven efficiency categories, from A+++ (most efficient) to D (least efficient). For hot water cylinders, the range is from A+ to F.
Thanks to advanced technologies, Panasonic offers solutions that achieve the highest energy ratings, ensuring high-efficiency and performance.

Keymark certification: a mark of quality and reliability.

The Keymark certification is a quality mark that demonstrates compliance with European standards. Issued by independent certification bodies, it ensures products meet rigorous quality and performance criteria.
Aquarea Heat Pumps proudly carry the Keymark certification, validating their exceptional efficiency and reliability.

Check all our certified heat pumps on: **www.heatpumpkeymark.com**

Aquarea High Performance Hydraulic L Series. Single phase · R290

Natural refrigerant R290 with GWP 0,02.
Energy efficiency: A+++ in heating at 35 °C.
Flexibility: Hydronic connection between indoor and outdoor / Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 75 °C flow temperature at -10 °C / 55 °C flow temperature at -25 °C.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW* A+ TO F

*For All in One.

Included

Combination table							Outdoor unit		
Indoor unit							Heating capacity		
							Single phase (power to indoor)		
		DHW tank	Backup heater capacity	2 zones	Electrical anode		5,0 kW	7,0 kW	9,0 kW
							WH-WDG05LE5	WH-WDG07LE5	WH-WDG09LE5
Hydraulic All in One	1ph	120 L	3 kW	—	—	WH-ADC0509L3E51	✔	✔	✔
		185 L	3 kW	—	—	WH-ADC0509L3E5	✔	✔	✔
		185 L	3 kW	—	✔	WH-ADC0509L3E5AN	✔	✔	✔
		185 L	6 kW	—	—	WH-ADC0509L6E5	✔	✔	✔
		185 L	6 kW	—	✔	WH-ADC0509L6E5AN	✔	✔	✔
		185 L	3 kW	✔	—	WH-ADC0509L3E5B	✔	✔	✔
Hydraulic Bi-bloc	1ph	—	3 kW	—	—	WH-SDC0509L3E5	✔	✔	✔
		—	6 kW	—	—	WH-SDC0509L6E5	✔	✔	✔

Outdoor unit			WH-WDG05LE5	WH-WDG07LE5	WH-WDG09LE5
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	5,00/5,05	7,00/4,93	9,00/4,55
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	5,00/3,07	7,00/2,98	8,90/3,03
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	5,00/3,52	6,85/3,43	7,00/3,41
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	5,00/2,34	6,25/2,34	7,00/2,41
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	5,00/3,01	5,80/3,01	7,00/2,80
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	5,00/2,12	5,80/2,12	7,00/2,13
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	5,00/3,23	7,00/3,03	8,20/2,82
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	5,00/5,00	7,00/4,73	9,00/4,19
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	5,06/3,63 (200/142)	4,96/3,62 (195/142)	4,84/3,67 (190/144)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,00/4,27 (237/168)	6,31/4,52 (249/178)	6,44/4,50 (255/177)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,25/3,28 (167/128)	4,25/3,29 (167/129)	4,31/3,33 (170/130)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++
Sound power [2]	Heat	dB(A)	52	53	54
Dimension / Net weight	H x W x D	mm / kg	996 x 980 x 430 / 98	996 x 980 x 430 / 98	996 x 980 x 430 / 97
Refrigerant (R290) / CO_2 Eq.		kg / T	0,96/0,00002	0,96/0,00002	1,00/0,00002
Operating range - outdoor ambient	Heat	°C	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 75 / 5 ~ 20	20 ~ 75 / 5 ~ 20	20 ~ 75 / 5 ~ 20

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825 (part load). *EER and COP calculation is based in accordance to EN 14511.

R290 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 75 °C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | WI-FI INCLUDED | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

DHW A+: For All in One.

All in One:

Energy efficiency: A+ in DHW / DHW up to 65 °C without heater / Stainless steel DHW tank with U-Vacua™.
Flexibility: Built-in 2 zone kit (for 2 zones models) / Suitable for harsh-water installations (AN version).
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Wi-Fi adapter included for smart control via Comfort Cloud App.

Indoor unit			WH-ADC0509L3E51	WH-ADC0509L3E5	WH-ADC0509L6E5
Indoor unit 2 zones			—	WH-ADC0509L3E5B	—
Indoor unit with Electrical Anode			—	WH-ADC0509L3E5AN	WH-ADC0509L6E5AN
Sound pressure	Heat / Cool	dB(A)	31/31	28/28	28/28
Dimension	H x W x D	mm	1293 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight / 2 zones model		kg	79/—	93/101	94/—
Water pipe connector	Room	Inch	1¼	1¼	1¼
	Shower	Inch	¾	¾	¾
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power (Min/Max)	W	30/145	30/145	30/145
Heating water flow (ΔT=5 K. 35 °C)		L/min	14,3	14,3	25,8
Water volume		L	120	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Water pipe connector (indoor / outdoor units)		Inch	1/1	1/1	1/1
Pipe length range standard / maximum		m	5/30	5/30	5/30
Elevation difference (in / out)		m	10	10	10
Electric backup heater		kW	3,00	3,00	6,00
Recommended fuse, supply 1 / 2 [1]		A	25/16	25/16	25/30
Recommended minimum cable size, supply 1 / 2 [1]		mm²	3x2,5/3x1,5	3x2,5/3x1,5	3x2,5/3x4,0

Domestic Hot Water energy efficiency		120 L	185 L	120 L	185 L	120 L	185 L
Indoor unit	WH-	ADC0509L3E51	ADC0509L3E5	ADC0509L3E51	ADC0509L3E5	ADC0509L3E51	ADC0509L3E5
		—	ADC0509L3E5AN	—	ADC0509L3E5AN	—	ADC0509L3E5AN
		—	ADC0509L3E5B	—	ADC0509L3E5B	—	ADC0509L3E5B
		—	ADC0509L6E5	—	ADC0509L6E5	—	ADC0509L6E5
		—	ADC0509L6E5AN	—	ADC0509L6E5AN	—	ADC0509L6E5AN
Outdoor unit		WH-WDG05LE5		WH-WDG07LE5		WH-WDG09LE5	
Tapping profile according EN16147		M	L	M	L	M	L
DHW tank ERP efficiency average / warm / cold [2]	A+ to F	A+/A++/A	A+/A+/A	A+/A++/A	A+/A+/A	A+/A++/A	A+/A+/A
DHW tank ERP average climate η / COPdHW	ηwh%/COPdHW	115/2,88	148/3,61	115/2,88	148/3,61	115/2,88	148/3,61
DHW tank ERP warm climate η / COPdHW	ηwh%/COPdHW	134/3,35	160/4,00	134/3,35	160/4,00	134/3,35	160/4,00
DHW tank ERP cold climate η / COPdHW	ηwh%/COPdHW	90/2,26	112/2,80	90/2,26	112/2,80	90/2,26	112/2,80

1) Check local regulations. 2) Scale from A+ to F. *This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Bi-bloc:

Flexibility: Flexible choice of DHW tank size.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Wi-Fi adapter included for smart control via Comfort Cloud App.

Indoor unit			WH-SDC0509L3E5	WH-SDC0509L6E5
Sound pressure	Heat / Cool	dB(A)	28/28	28/28
Dimension / Net weight	H x W x D	mm / kg	892 x 500 x 348 / 33	892 x 500 x 348 / 33
Water pipe connector	Room	Inch	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed
	Input power (Min/Max)	W	30/145	30/145
Heating water flow (ΔT=5 K. 35 °C)		L/min	14,3	20,1
Water pipe connector (indoor / outdoor units)		Inch	1/1	1/1
Pipe length range standard / maximum		m	5/30	5/30
Elevation difference (in / out)		m	10	10
Electric backup heater		kW	3,00	6,00
Recommended fuse, supply 1 / 2 [1]		A	25/16	25/30
Recommended minimum cable size, supply 1 / 2 [1]		mm²	3x2,5/3x1,5	3x2,5/3x4,0

1) Check local regulations. *This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Common accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat
PAW-A2W-AFVLV-1	1 antifreeze valve 1". It is required to order 2 valves per system

Bi-bloc accessories	
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW tanks
CZ-NV2	3 way valve kit to fit inside the hydrokit. K and L Series
PAW-BTANK50L-2	Buffer tank 50 L

NEW! Aquarea High Performance Hydraulic M Series outdoor units. Single phase · R290

Natural refrigerant R290 with GWP 0,02.
Energy efficiency: A+++ in heating at 35 °C.
Flexibility: Hydronic connection between indoor and outdoor / Built-in magnetic water filter.
Comfort: Operation without backup heating at -25 °C / 75 °C water outlet temperature maximum at -15 °C outside temperature / 55 °C hot water even at -25 °C outside temperature.

NEW

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW* A+ TO F

*For All in One.

Included

Combination table						Outdoor unit				
Indoor unit						Heating capacity				
						Single phase		Three phase		
		DHW tank	Backup heater capacity	Electrical anode		12,0 kW	16,0 kW	9,0 kW	12,0 kW	16,0 kW
						WH-WDG12ME5	WH-WDG16ME5	WH-WDG09ME8	WH-WDG12ME8	WH-WDG16ME8
Hydraulic All in One	1ph	120 L	3 kW	—	WH-ADC0916M3E51	✔	✔	—	—	—
		185 L	3 kW	—	WH-ADC0916M3E52	✔	✔	—	—	—
		185 L	3 kW	✔	WH-ADC0916M3E5AN2	✔	✔	—	—	—
		185 L	6 kW	—	WH-ADC0916M6E52	✔	✔	—	—	—
		260 L	3 kW	—	WH-ADC0916M3E53	✔	✔	—	—	—
		260 L	3 kW	✔	WH-ADC0916M3E5AN3	✔	✔	—	—	—
		260 L	6 kW	—	WH-ADC0916M6E53	✔	✔	—	—	—
	3ph	120 L	9 kW	—	WH-ADC0316M9E81	✔	✔	✔	✔	✔
		185 L	9 kW	—	WH-ADC0316M9E82	✔	✔	✔	✔	✔
		185 L	9 kW	✔	WH-ADC0316M9E8AN2	✔	✔	✔	✔	✔
		260 L	9 kW	—	WH-ADC0316M9E83	✔	✔	✔	✔	✔
		260 L	9 kW	✔	WH-ADC0316M9E8AN3	✔	✔	✔	✔	✔
Hydraulic Bi-bloc	1ph	—	3 kW	—	WH-SDC0916M3E5	✔	✔	—	—	—
		—	6 kW	—	WH-SDC0916M6E5	✔	✔	—	—	—
	3ph	—	9 kW	—	WH-SDC0316M9E8	✔	✔	✔	✔	✔
Control module	1ph	—	—	—	WH-CME5	✔	✔	—	—	—
	3ph	—	—	—	WH-CME8	✔	✔	✔	✔	✔
Remote controller with Wi-Fi adapter	—	—	—	—	CZ-RTW2TAW1C	✔	✔	✔	✔	✔

Outdoor unit			WH-WDG12ME5	WH-WDG16ME5	WH-WDG09ME8	WH-WDG12ME8	WH-WDG16ME8
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	12,00/4,88	16,00/4,65	9,00/5,10	12,00/4,88	16,00/4,65
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	12,00/3,06	14,70/3,00	9,00/3,10	12,00/3,06	14,70/3,00
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	12,00/3,46	13,00/3,30	9,00/3,81	12,00/3,46	13,00/3,30
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	12,00/2,27	12,00/2,27	9,00/2,52	12,00/2,27	12,00/2,27
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	10,50/3,00	11,70/2,63	9,00/3,16	10,50/3,00	11,70/2,63
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	10,00/1,97	10,80/1,90	9,00/2,07	10,00/1,97	10,80/1,90
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	9,00/3,61	9,00/3,61	9,00/3,61	9,00/3,61	9,00/3,61
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	9,00/5,26	9,00/5,26	9,00/5,26	9,00/5,26	9,00/5,26
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,65/3,50(183/137)	4,58/3,58(180/140)	4,84/3,57(191/140)	4,65/3,58(183/140)	4,58/3,58(180/140)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,20/4,34(245/171)	6,20/4,34(245/171)	6,01/4,17(237/164)	6,20/4,34(245/171)	6,20/4,34(245/171)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,35/3,26(171/127)	4,30/3,26(169/127)	4,23/3,12(166/122)	4,35/3,26(171/127)	4,30/3,26(169/127)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A+	A++/A++	A++/A++
Sound power [2]	Heat	dB(A)	55	58	54	55	58
Dimension / Net weight	H x W x D	mm / kg	1520x1200x370/147	1520x1200x370/147	1520x1200x370/151	1520x1200x370/151	1520x1200x370/151
Pipe length range standard / maximum		m	5/30	5/30	5/30	5/30	5/30
Elevation difference (in / out)		m	30	30	30	30	30
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power (Min/Max)	W	30/175	30/175	30/175	30/175	30/175
Heating water flow (ΔT=5 K. 35 °C)		L/min	34,4	45,9	25,8	34,4	45,9
Refrigerant (R290) / CO_2 Eq. [3]		kg / T	1,58/0,00003	1,58/0,00003	1,58/0,00003	1,58/0,00003	1,58/0,00003
Operating range - outdoor ambient	Heat	°C	-25~+35	-25~+35	-25~+35	-25~+35	-25~+35
	Cool	°C	+10~+43	+10~+43	+10~+43	+10~+43	+10~+43
Water outlet	Heat [4] / Cool	°C	25~75/5~20	25~75/5~20	25~75/5~20	25~75/5~20	25~75/5~20
Recommended fuse, supply [5]		A	32	32	20	20	20
Recommended minimum cable size, supply [5]		mm²	3x4,0	3x4,0	5x1,5	5x1,5	5x1,5

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825 (part load). 3) WH-WDG models are hermetically sealed. 4) Water outlet up to 75 °C above -15 °C outdoor. Between outdoor ambient -15 °C and -25 °C, the water outlet temperature gradually decreases from 75 °C to 55 °C. 5) Check local regulations. **EER and COP calculation is based in accordance to EN 14511.

R290 REFRIGERANT · A++ ErP 55 °C · A+++ ErP 35 °C · A+ DHW · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · DHW · -25 °C HEATING MODE · WATER FILTER WITH MAGNET · 75 °C OUTPUT WATER FLOW TEMPERATURE · FLOW SENSOR · BOILER CONNECTION · WI-FI INCLUDED · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

DHW A+: For All in One.

A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

A+ DHW* A+ TO F

Included

Aquarea High Performance Hydraulic M Series indoor units. Single phase · R290

Natural refrigerant R290 with GWP 0,02.
Control: All control functions / 2 CN-CNT ports / Optional PCB for advanced functions.
Connectivity: Wi-Fi adapter included for smart control via Comfort Cloud App / Optional integration into BMS.

All in One:

Energy efficiency: A+ in DHW / DHW up to 65 °C without heater / Stainless steel DHW tank with U-Vacua™.
Flexibility: Backup heater included / Built-in 10 L expansion vessel / 30 m maximum height difference between indoor and outdoor / Suitable for harsh-water installations (AN version).

Indoor unit		WH-ADC	0916M3E51	0316M9E81	0916M3E52	0916M6E52	0316M9E82	0916M3E53	0916M6E53	0316M9E83
Indoor unit with Electrical Anode		WH-ADC	—	—	0916M3E5AN2	—	0316M9E8AN2	0916M3E5AN3	—	0316M9E8AN3
Sound pressure	Heat / Cool	dB(A)	22/22	22/22	22/22	22/22	22/22	22/22	22/22	22/22
Dimension / Net weight	H x W x D	mm / kg	1293 x 599 x 602/73	1293 x 599 x 602/77	1642 x 599 x 602/88	1642 x 599 x 602/88	1642 x 599 x 602/89	2036 x 599 x 602/105	2036 x 599 x 602/105	2036 x 599 x 602/105
Water pipe connector	Room / Shower	Inch	1¼/¾	1¼/¾	1¼/¾	1¼/¾	1¼/¾	1¼/¾	1¼/¾	1¼/¾
Water volume		L	120	120	185	185	185	260	260	260
Maximum DHW temperature		°C	65	65	65	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Water pipe connector (indoor / outdoor units)		Inch	1¼/1¼	1¼/1¼	1¼/1¼	1¼/1¼	1¼/1¼	1¼/1¼	1¼/1¼	1¼/1¼
Electric backup heater		kW	3,00	9,00	3,00	6,00	9,00	3,00	6,00	9,00
Recommended fuse, supply [1]		A	15/16	20	15/16	30	20	15/16	30	20
Recommended minimum cable size, supply [1]		mm²	3x1,5	5x1,5	3x1,5	3x4,0	5x1,5	3x1,5	3x4,0	5x1,5
Connecting cable to the outdoor unit size		mm²	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75	2x0,75

Domestic Hot Water energy efficiency

Indoor unit	WH-	ADC0916M3E51	ADC0916M3E51	ADC0916M3E52	ADC0916M3E52	ADC0916M3E53	ADC0916M3E53
		—	—	ADC0916M3E5AN2	ADC0916M3E5AN2	ADC0916M3E5AN3	ADC0916M3E5AN3
		—	—	ADC0916M6E52	ADC0916M6E52	ADC0916M6E53	ADC0916M6E53
Outdoor unit		**WH-WDG12ME5**	**WH-WDG16ME5**	**WH-WDG12ME5**	**WH-WDG16ME5**	**WH-WDG12ME5**	**WH-WDG16ME5**
Tapping profile according EN16147		M	M	L	L	XL	XL
DHW tank ERP efficiency average / warm / cold [2]	A+ to F	A+/A+/A	A/A+/A	A+/A+/A	A+/A+/A	A+/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW	ηwh%/COPdHW	100/2,51	96/2,40	120/3,00	115/2,87	124/3,10	114/2,85
DHW tank ERP warm climate η / COPdHW	ηwh%/COPdHW	104/2,60	101/2,51	134/3,35	134/3,35	134/3,35	134/3,35
DHW tank ERP cold climate η / COPdHW	ηwh%/COPdHW	73/1,82	70/1,75	88/2,20	84/2,10	94/2,35	84/2,10

Domestic Hot Water energy efficiency

Indoor unit		WH-ADC0316M9E81	WH-ADC0316M9E81	WH-ADC0316M9E81	WH-ADC0316M9E82	WH-ADC0316M9E82
		—	—	—	WH-ADC0316M9E8AN2	WH-ADC0316M9E8AN2
Outdoor unit		**WH-WDG09ME8**	**WH-WDG12ME8**	**WH-WDG16ME8**	**WH-WDG09ME8**	**WH-WDG12ME8**
Tapping profile according EN16147		M	M	M	L	L
DHW tank ERP efficiency average / warm / cold [2]	A+ to F	A+/A+/A	A+/A+/A	A/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average climate η / COPdHW	ηwh%/COPdHW	100/2,51	100/2,51	96/2,40	120/3,00	120/3,00
DHW tank ERP warm climate η / COPdHW	ηwh%/COPdHW	108/2,70	108/2,70	101/2,51	134/3,35	134/3,35
DHW tank ERP cold climate η / COPdHW	ηwh%/COPdHW	73/1,82	73/1,82	70/1,75	88/2,20	88/2,20

Domestic Hot Water energy efficiency

Indoor unit	WH-ADC	WH-ADC0316M9E82	WH-ADC0316M9E83	WH-ADC0316M9E83	WH-ADC0316M9E83
		WH-ADC0316M9E8AN2	WH-ADC0316M9E8AN3	WH-ADC0316M9E8AN3	WH-ADC0316M9E8AN3
Outdoor unit		**WH-WDG16ME8**	**WH-WDG09ME8**	**WH-WDG12ME8**	**WH-WDG16ME8**
Tapping profile according EN16147		L	XL	XL	XL
DHW tank ERP efficiency average / warm / cold [2]	A+ to F	A+/A+/A	A+/A+/A	A+/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW	ηwh%/COPdHW	115/2,87	124/3,10	124/3,10	114/2,85
DHW tank ERP warm climate η / COPdHW	ηwh%/COPdHW	134/3,35	134/3,35	134/3,35	134/3,35
DHW tank ERP cold climate η / COPdHW	ηwh%/COPdHW	84/2,10	94/2,35	94/2,35	84/2,10

1) Check local regulations. 2) Scale from A+ to F. Energy class A with 16 kW outdoor unit. *Tentative data. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Aquarea High Performance Hydraulic M Series indoor units. Single phase · R290

Natural refrigerant R290 with GWP 0,02.
Control: All control functions / 2 CN-CNT ports / Optional PCB for advanced functions.
Connectivity: Wi-Fi adapter included for smart control via Comfort Cloud App / Optional integration into BMS.

A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

Included

Bi-bloc:

Flexibility: Flexible choice of DHW tank size.

Indoor unit			WH-SDC0916M3E5	WH-SDC0916M6E5	WH-SDC0316M9E8
Sound pressure	Heat / Cool	dB(A)	22/22	22/22	22/22
Dimension / Net weight	H x W x D	mm / kg	892 x 500 x 348/28	892 x 500 x 348/28	892 x 500 x 348/29
Water pipe connector	Room	Inch	1¼	1¼	1¼
Water pipe connector (indoor / outdoor units)		Inch	1¼/1¼	1¼/1¼	1¼/1¼
Electric backup heater		kW	3,00	6,00	9,00
Recommended fuse, supply [1]		A	15/16	30	20
Recommended minimum cable size, supply [1]		mm²	3x1,5	3x4,0	5x1,5
Connecting cable to the outdoor unit size		mm²	2x0,75	2x0,75	2x0,75

1) Check local regulations. *This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Control module:

Flexibility: Simplified installation / Minimal interior space required / Supports third-party backup heater.

Indoor unit			WH-CME5	WH-CME8
Dimension / Net weight	H x W x D	mm / kg	454 x 520 x 116/7	454 x 520 x 116/7
Field supply electrical backup heater		kW	Up to 3 kW	Up to 9 kW
Recommended fuse, supply [1]		A	16	30
Recommended minimum cable size, supply [1]		mm²	3x1,5	3x4,0
Connecting cable to the outdoor unit size		mm²	2x0,75	2x0,75

1) Check local regulations.

Accessories	
CZ-RTW2TAW1C	Remote controller with Wi-Fi adapter (required for stand-alone outdoor units). M Series
CZ-RTW2-1	Optional remote controller for 2 zone control. M Series
CZ-NS6P	PCB for advanced functions. M Series All in One and Bi-bloc
CZ-NS7P	PCB for advanced functions. M Series control module
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat
PAW-A2W-AFVLV-1	1 antifreeze valve 1". It is required to order 2 valves per system

Accessories	
CZ-NV3	3 way valve kit to fit inside the hydrokit. M Series
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW tanks
PAW-BTANK50L-2	Buffer tank 50 L
PAW-BTANK100L	Buffer tank 100 L
PAW-BTANKG200L	Buffer tank 200 L
PAW-BTANKG260L	Buffer tank 260 L

NEW

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A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

Optional

NEW! Aquarea High Performance Mono-bloc J Series. Single phase - MDC · R32

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.
Flexibility: Built-in magnetic water filter / Built-in 6 L expansion vessel.
Comfort: Operating range to -20 °C / 60 °C flow temperature / Cooling mode down to +10 °C.
Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).
Connectivity: Optional Wi-Fi and BMS integration

				Single phase	
Outdoor unit			**WH-MDC05J3E5-1**	**WH-MDC07J3E5-1**	**WH-MDC09J3E5-1**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	5,00/5,08	7,00/4,76	9,00/4,48
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	5,00/3,01	7,00/2,82	8,95/2,78
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	5,00/3,57	7,00/3,40	7,45/3,13
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	5,00/2,27	6,30/2,16	7,00/2,12
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	5,00/2,78	6,80/2,81	7,50/2,63
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	5,00/1,85	6,30/1,86	7,00/1,80
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	5,00/3,31	7,00/3,06	9,00/2,71
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	5,00/5,05	7,00/4,73	9,00/4,25
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	5,12/3,63 (202/142)	4,90/3,32 (193/130)	4,90/3,32 (193/130)
	Energy class	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,00/4,20 (237/165)	5,75/4,07 (227/160)	5,75/4,07 (227/160)
	Energy class	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,08/2,95 (160/115)	4,18/2,98 (164/116)	4,18/2,98 (164/116)
	Energy class	A+++ to D	A++/A+	A++/A+	A++/A+
Sound power [1]	Heat	dB(A)	59	59	59
Dimension	H x W x D	mm	865 x 1283 x 320	865 x 1283 x 320	865 x 1283 x 320
Net weight		kg	99	104	104
Refrigerant (R32) / CO_2 Eq. [2]		kg / T	1,3/0,878	1,3/0,878	1,3/0,878
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
Pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power (Min/Max)	W	34/96	36/100	39/108
Heating water flow (ΔT=5 K. 35 °C)		L/min	14,3	20,1	25,8
Electric backup heater		kW	3,00	3,00	3,00
Input power	Heat	kW	0,985	1,47	2,01
	Cool	kW	1,51	2,29	3,32
Running and starting current	Heat	A	4,7	7,0	9,3
	Cool	A	7,0	10,5	14,7
Current 1		A	12	17	17
Current 2		A	13	13	13
Recommended fuse [3]		A	30/15	30/15	30/16
Recommended minimum cable size, supply 1 / 2 [3]		mm²	3x1,5/3x1,5	3x2,5/3x1,5	3x2,5/3x1,5
Operating range - outdoor ambient	Heat	°C	-20~35	-20~35	-20~35
	Cool	°C	+10~+43	+10~+43	+10~+43
Water outlet	Heat	°C	20~60	20~60	20~60
	Cool	°C	5~20	5~20	5~20

1) Sound power in accordance to 811/2013, 813/2013 and EN 12102-1:2017 at +7 °C. 2) WH-MDC models are hermetically sealed. 3) Check local regulations. *EER and COP calculation is based in accordance to EN 14511.

Accessories	
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L – Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L – Stainless steel
PAW-3WYVLV-HW	3 way valve for DHW tanks
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
PAW-A2W-AFVLV-1	1 antifreeze valve 1". It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5,08 COP HIGH PERFORMANCE | DHW | -20 °C HEATING MODE | WATER FILTER WITH MAGNET | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | ADVANCED CONTROL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Aquarea T-CAP All in One 185 L K Series. Single phase / Three phase · R32

Comfort: Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C.
Flexibility: 599 x 602 footprint / Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™ / Built-in flow meter.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

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www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

			Single phase (power to indoor)		Three phase (power to indoor)		
Kit			**KIT-AXC09K6E5**	**KIT-AXC12K6E5**	**KIT-AXC09K9E8**	**KIT-AXC12K9E8**	**KIT-AXC16K9E8**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,29	9,00/2,10	12,00/2,29	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,58/3,46(180/135)	4,46/3,31(176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	5,88/4,09(232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	3,83/3,20(150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Indoor unit			**WH-ADC0912K6E5**	**WH-ADC0912K6E5**	**WH-ADC0912K9E8**	**WH-ADC0912K9E8**	**WH-ADC16K9E8**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight		kg	101	101	102	102	103
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145	173
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	25,8	34,4	45,9
Water volume		L	185	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A/A+/A	A/A+/A	A/A+/A	A/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	112/2,80	112/2,80	112/2,80	112/2,80	107/2,68
DHW tank ERP warm climate η / COPdHW		ηwh %/COPdHW	132/3,30	132/3,30	132/3,30	132/3,30	128/3,20
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	88/2,20	88/2,20	88/2,20	88/2,20	84/2,10
Outdoor unit			**WH-UXZ09KE5**	**WH-UXZ12KE5**	**WH-UXZ09KE8**	**WH-UXZ12KE8**	**WH-UXZ16KE8**
Sound power [3]	Heat	dB(A)	65	65	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320/88	1340 x 900 x 320/88	1340 x 900 x 320/90	1340 x 900 x 320/90	1340x900x320/103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [4]	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

Electrical information		**WH-ADC0912K6E5**	**WH-ADC0912K6E5**	**WH-ADC0912K9E8**	**WH-ADC0912K9E8**	**WH-ADC16K9E8**
Electric backup heater	kW	6,00	6,00	9,00	9,00	9,00
Recommended fuse [5]	A	30/30	30/30	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]	mm²	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | -15°C CONSTANT HEATING T-CAP | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

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A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

Aquarea T-CAP All in One 185 L K Series. Single phase / Three phase with Electrical Anode · R32

Comfort: Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C.
Flexibility: Suitable for harsh-water installations / 599 x 602 footprint / Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™ / Built-in flow meter.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

			Single phase (power to indoor)		Three phase (power to indoor)		
Kit			**KIT-AXC09K6E5AN**	**KIT-AXC12K6E5AN**	**KIT-AXC09K9E8AN**	**KIT-AXC12K9E8AN**	**KIT-AXC16K9E8AN**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,29	9,00/2,10	12,00/2,29	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,58/3,46(180/135)	4,46/3,31(176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	5,88/4,09(232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	3,83/3,20(150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Indoor unit		**WH-**	**ADC0912K6E5AN**	**ADC0912K6E5AN**	**ADC0912K9E8AN**	**ADC0912K9E8AN**	**ADC16K9E8AN**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight		kg	101	101	102	102	103
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145	173
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	25,8	34,4	45,9
Water volume		L	185	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A/A+/A	A/A+/A	A/A+/A	A/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	112/2,80	112/2,80	112/2,80	112/2,80	107/2,68
DHW tank ERP warm climate η / COPdHW		ηwh%/COPdHW	132/3,30	132/3,30	132/3,30	132/3,30	128/3,20
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	88/2,20	88/2,20	88/2,20	88/2,20	84/2,10
Outdoor unit			**WH-UXZ09KE5**	**WH-UXZ12KE5**	**WH-UXZ09KE8**	**WH-UXZ12KE8**	**WH-UXZ16KE8**
Sound power [3]	Heat	dB(A)	65	65	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320/88	1340 x 900 x 320/88	1340 x 900 x 320/90	1340 x 900 x 320/90	1340 x 900 x 320/103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)
Pipe length range / Elevation difference (in / out)		m / m	3~30/20	3~30/20	3~30/20	3~30/20	3~30/20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28~+35	-28~+35	-28~+35	-28~+35	-28~+35
	Cool	°C	+10~+43	+10~+43	+10~+43	+10~+43	+10~+43
Water outlet [4]	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20

Electrical information	**WH-**	**ADC0912K6E5AN**	**ADC0912K6E5AN**	**ADC0912K9E8AN**	**ADC0912K9E8AN**	**ADC16K9E8AN**
Electric backup heater	kW	6,00	6,00	9,00	9,00	9,00
Recommended fuse [5]	A	30/30	30/30	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]	mm²	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | -15°C CONSTANT HEATING T-CAP | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Aquarea T-CAP All in One 260 L K Series. Single phase / Three phase · R32

Comfort: Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C.
Flexibility: 599 x 602 footprint / Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™ / Built-in flow meter.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

			Single phase (power to indoor)		Three phase (power to indoor)		
Kit			**KIT-AXC09K6E53**	**KIT-AXC12K6E53**	**KIT-AXC09K9E83**	**KIT-AXC12K9E83**	**KIT-AXC16K9E83**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,29	9,00/2,10	12,00/2,29	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,58/3,46(180/135)	4,46/3,31(176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	5,88/4,09(232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	3,83/3,20(150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Indoor unit			**WH-ADC0912K6E53**	**WH-ADC0912K6E53**	**WH-ADC0912K9E83**	**WH-ADC0912K9E83**	**WH-ADC16K9E83**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	H x W x D	mm	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602
Net weight		kg	119	119	119	119	120
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	25,8	34,4	45,9
Water volume		L	260	260	260	260	260
Maximum DHW temperature		°C	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			XL	XL	XL	XL	XL
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A+/A	A+/A+/A	A+/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	123/3,08	123/3,08	123/3,08	123/3,08	98/2,45
DHW tank ERP warm climate η / COPdHW		ηwh %/COPdHW	134/3,35	134/3,35	134/3,35	134/3,35	123/3,08
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	94/2,35	94/2,35	94/2,35	94/2,35	80/2,00
Outdoor unit			**WH-UXZ09KE5**	**WH-UXZ12KE5**	**WH-UXZ09KE8**	**WH-UXZ12KE8**	**WH-UXZ16KE8**
Sound power [3]	Heat	dB(A)	65	65	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320/88	1340 x 900 x 320/88	1340 x 900 x 320/90	1340 x 900 x 320/90	1340x900x320/103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [4]	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

Electrical information		**WH-ADC0912K6E53**	**WH-ADC0912K6E53**	**WH-ADC0912K9E83**	**WH-ADC0912K9E83**	**WH-ADC16K9E83**
Electric backup heater	kW	6,00	6,00	9,00	9,00	9,00
Recommended fuse [5]	A	30/30	30/30	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]	mm²	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | -15°C CONSTANT HEATING T-CAP | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

A+ DHW A+ TO F

Optional

Aquarea T-CAP All in One 260 L K Series. Single phase / Three phase with Electrical Anode · R32

Comfort: Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C.
Flexibility: Suitable for harsh-water installations / 599 x 602 footprint / Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™ / Built-in flow meter.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

			Single phase (power to indoor)		Three phase (power to indoor)		
Kit			**KIT-AXC09K6E5AN3**	**KIT-AXC12K6E5AN3**	**KIT-AXC09K9E8AN3**	**KIT-AXC12K9E8AN3**	**KIT-AXC16K9E8AN3**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,29	9,00/2,10	12,00/2,29	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,58/3,46(180/135)	4,46/3,31(176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	5,88/4,09(232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	3,83/3,20(150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Indoor unit		**WH-**	**ADC0912K6E5AN3**	**ADC0912K6E5AN3**	**ADC0912K9E8AN3**	**ADC0912K9E8AN3**	**ADC16K9E8AN3**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	H x W x D	mm	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602
Net weight		kg	119	119	119	119	120
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	25,8	34,4	45,9
Water volume		L	260	260	260	260	260
Maximum DHW temperature		°C	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			XL	XL	XL	XL	XL
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A+/A	A+/A+/A	A+/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	123/3,08	123/3,08	123/3,08	123/3,08	98/2,45
DHW tank ERP warm climate η / COPdHW		ηwh%/COPdHW	134/3,35	134/3,35	134/3,35	134/3,35	123/3,08
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	94/2,35	94/2,35	94/2,35	94/2,35	80/2,00
Outdoor unit			**WH-UXZ09KE5**	**WH-UXZ12KE5**	**WH-UXZ09KE8**	**WH-UXZ12KE8**	**WH-UXZ16KE8**
Sound power [3]	Heat	dB(A)	65	65	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320/88	1340 x 900 x 320/88	1340 x 900 x 320/90	1340 x 900 x 320/90	1340 x 900 x 320/103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)
Pipe length range / Elevation difference (in / out)		m / m	3~30/20	3~30/20	3~30/20	3~30/20	3~30/20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28~+35	-28~+35	-28~+35	-28~+35	-28~+35
	Cool	°C	+10~+43	+10~+43	+10~+43	+10~+43	+10~+43
Water outlet [4]	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20

Electrical information	**WH-**	**ADC0912K6E5AN3**	**ADC0912K6E5AN3**	**ADC0912K9E8AN3**	**ADC0912K9E8AN3**	**ADC16K9E8AN3**
Electric backup heater	kW	6,00	6,00	9,00	9,00	9,00
Recommended fuse [5]	A	30/30	30/30	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]	mm²	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT · A++ ErP 55 °C · A+++ ErP 35 °C · A+ DHW · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · -15°C CONSTANT HEATING T-CAP · DHW · -28 °C HEATING MODE · WATER FILTER WITH MAGNET · 60°C OUTPUT WATER FLOW TEMPERATURE · FLOW SENSOR · BOILER CONNECTION · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

NEW! Aquarea T-CAP All in One 185 L K Series. Three phase. Super Quiet outdoor unit · R32

Comfort: Super Quiet outdoor unit (-7 dB(A)) / Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C
Flexibility: 599 x 602 footprint / Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™ / Built-in flow meter
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

NEW

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

Three phase (power to indoor)

Kit			KIT-AQC09K9E8	KIT-AQC12K9E8	KIT-AQC16K9E8
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,20	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,44 / 3,20 (175 / 125)	4,44 / 3,34 (175 / 131)	4,46/3,31 (176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,47/4,34 (256/171)	5,88/4,09 (232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,31/3,26 (169/127)	3,83/3,20 (150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++
Indoor unit			**WH-ADC0912K9E8**	**WH-ADC0912K9E8**	**WH-ADC16K9E8**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight		kg	102	102	103
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	173
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A/A+/A	A/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	112/2,80	112/2,80	107/2,68
DHW tank ERP warm climate η / COPdHW		ηwh %/COPdHW	132/3,30	132/3,30	128/3,20
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	88/2,20	88/2,20	84/2,10
Outdoor unit			**WH-UQZ09KE8**	**WH-UQZ12KE8**	**WH-UQZ16KE8**
Sound power [3]	Heat	dB(A)	58	58	62
Dimension / Net weight	H x W x D	mm / kg	1410 x 1284 x 322 / 131	1410 x 1284 x 322 / 131	1410 x 1284 x 322 / 145
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20	3 ~ 30 / 20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [4]	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information			**WH-ADC0912K9E8**	**WH-ADC0912K9E8**	**WH-ADC16K9E8**
Electric backup heater		kW	9,00	9,00	9,00
Recommended fuse [5]		A	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]		mm²	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | -15°C CONSTANT HEATING T-CAP | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

NEW

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

NEW! Aquarea T-CAP All in One 185 L K Series. Three phase with Electrical Anode. Super Quiet outdoor unit · R32

Comfort: Super Quiet outdoor unit (-7 dB(A)) / Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C.
Flexibility: Suitable for harsh-water installations / 599 x 602 footprint / Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™ / Built-in flow meter.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

			Three phase (power to indoor)		
Kit			**KIT-AQC09K9E8AN**	**KIT-AQC12K9E8AN**	**KIT-AQC16K9E8AN**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,20	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,44 / 3,20 (175 / 125)	4,44 / 3,34 (175 / 131)	4,46/3,31 (176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,47/4,34 (256/171)	5,88/4,09 (232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,31/3,26 (169/127)	3,83/3,20 (150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++
Indoor unit			**WH-ADC0912K9E8AN**	**WH-ADC0912K9E8AN**	**WH-ADC16K9E8AN**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight		kg	102	102	103
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	173
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A/A+/A	A/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	112/2,80	112/2,80	107/2,68
DHW tank ERP warm climate η / COPdHW		ηwh%/COPdHW	132/3,30	132/3,30	128/3,20
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	88/2,20	88/2,20	84/2,10
Outdoor unit			**WH-UQZ09KE8**	**WH-UQZ12KE8**	**WH-UQZ16KE8**
Sound power [3]	Heat	dB(A)	58	58	62
Dimension / Net weight	H x W x D	mm / kg	1410 x 1284 x 322 / 131	1410 x 1284 x 322 / 131	1410 x 1284 x 322 / 145
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20	3 ~ 30 / 20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [4]	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information		**WH-ADC0912K9E8AN**	**WH-ADC0912K9E8AN**	**WH-ADC16K9E8AN**
Electric backup heater	kW	9,00	9,00	9,00
Recommended fuse [5]	A	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]	mm²	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | -15°C CONSTANT HEATING T-CAP | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

NEW! Aquarea T-CAP All in One 260 L K Series. Three phase. Super Quiet outdoor unit · R32

Comfort: Super Quiet outdoor unit (-7 dB(A)) / Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C.
Flexibility: 599 x 602 footprint / Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™ / Built-in flow meter.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

NEW

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

Three phase (power to indoor)

Kit			KIT-AQC09K9E83	KIT-AQC12K9E83	KIT-AQC16K9E83
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,29	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,44 / 3,20 (175 / 125)	4,44 / 3,34 (175 / 131)	4,46/3,31 (176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,47/4,34 (256/171)	5,88/4,09 (232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,31/3,26 (169/127)	3,83/3,20 (150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++
Indoor unit			**WH-ADC0912K9E83**	**WH-ADC0912K9E83**	**WH-ADC16K9E83**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602
Net weight		kg	119	119	120
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Water volume		L	260	260	260
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			XL	XL	XL
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	123/3,08	123/3,08	98/2,45
DHW tank ERP warm climate η / COPdHW		ηwh %/COPdHW	134/3,35	134/3,35	123/3,08
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	94/2,35	94/2,35	80/2,00
Outdoor unit			**WH-UQZ09KE8**	**WH-UQZ12KE8**	**WH-UQZ16KE8**
Sound power [3]	Heat	dB(A)	58	58	62
Dimension / Net weight	H x W x D	mm / kg	1410 x 1284 x 322 / 131	1410 x 1284 x 322 / 131	1410 x 1284 x 322 / 145
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20	3 ~ 30 / 20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [4]	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information			**WH-ADC0912K9E83**	**WH-ADC0912K9E83**	**WH-ADC16K9E83**
Electric backup heater		kW	9,00	9,00	9,00
Recommended fuse [5]		A	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]		mm²	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | -15°C CONSTANT HEATING T-CAP | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

NEW

A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

A+ DHW A+ TO F

Optional

NEW! Aquarea T-CAP All in One 260 L K Series. Three phase with Electrical Anode. Super Quiet outdoor unit · R32

Comfort: Super Quiet outdoor unit (-7 dB(A)) / Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C.
Flexibility: Suitable for harsh-water installations / 599 x 602 footprint / Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™ / Built-in flow meter.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

			Three phase (power to indoor)		
Kit			**KIT-AQC09K9E8AN3**	**KIT-AQC12K9E8AN3**	**KIT-AQC16K9E8AN3**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,29	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,44 / 3,20 (175 / 125)	4,44 / 3,34 (175 / 131)	4,46/3,31 (176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,47/4,34 (256/171)	5,88/4,09 (232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,31/3,26 (169/127)	3,83/3,20 (150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++
Indoor unit			**WH-ADC0912K9E8AN3**	**WH-ADC0912K9E8AN3**	**WH-ADC16K9E8AN3**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602
Net weight		kg	119	119	120
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Water volume		L	260	260	260
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			XL	XL	XL
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	123/3,08	123/3,08	98/2,45
DHW tank ERP warm climate η / COPdHW		ηwh%/COPdHW	134/3,35	134/3,35	123/3,08
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	94/2,35	94/2,35	80/2,00
Outdoor unit			**WH-UQZ09KE8**	**WH-UQZ12KE8**	**WH-UQZ16KE8**
Sound power [3]	Heat	dB(A)	58	58	62
Dimension / Net weight	H x W x D	mm / kg	1410 x 1284 x 322 / 131	1410 x 1284 x 322 / 131	1410 x 1284 x 322 / 145
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20	3 ~ 30 / 20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [4]	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information		**WH-ADC0912K9E8AN3**	**WH-ADC0912K9E8AN3**	**WH-ADC16K9E8AN3**
Electric backup heater	kW	9,00	9,00	9,00
Recommended fuse [5]	A	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]	mm²	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | -15°C CONSTANT HEATING T-CAP | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Aquarea T-CAP Bi-bloc K Series. Single phase / Three phase · R32

Comfort: Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C.
Flexibility: Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / "A"-rated variable-speed pump / Built-in flow meter.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

Optional

			Single phase (power to indoor)		Three phase (power to indoor)		
Kit 3 kW electric heater			**KIT-WXC09K3E5**	**—**	**KIT-WXC09K3E8**	**—**	**—**
Kit 6 kW electric heater			**KIT-WXC09K6E5**	**KIT-WXC12K6E5**	**—**	**—**	**—**
Kit 9 kW electric heater			**—**	**—**	**KIT-WXC09K9E8**	**KIT-WXC12K9E8**	**KIT-WXC16K9E8**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,29	9,00/2,10	12,00/2,29	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,96/3,57(195/140)	4,58/3,46(180/135)	4,46/3,31(176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,47/4,34(256/171)	5,88/4,09(232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,31/3,26(169/127)	3,83/3,20(150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Indoor unit 3 kW electric heater			**WH-SXC09K3E5**	**—**	**WH-SXC09K3E8**	**—**	**—**
Indoor unit 6 kW electric heater			**WH-SXC09K6E5**	**WH-SXC12K6E5**	**—**	**—**	**—**
Indoor unit 9 kW electric heater			**—**	**—**	**WH-SXC09K9E8**	**WH-SXC12K9E8**	**WH-SXC16K9E8**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	H x W x D	mm	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348
Net weight 3 kW / 6 kW / 9 kW		kg	40/41/—	—/41/—	40/—/41	—/—/41	—/—/42
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145	173
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	25,8	34,4	45,9
Outdoor unit			**WH-UXZ09KE5**	**WH-UXZ12KE5**	**WH-UXZ09KE8**	**WH-UXZ12KE8**	**WH-UXZ16KE8**
Sound power [2]	Heat	dB(A)	65	65	65	65	65
Dimension	H x W x D	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Net weight		kg	88	88	90	90	103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)
Pipe length range / Elevation difference (in / out)		m	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [3]	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

Electrical information	**Heater**	**3 kW**	**6 kW**	**6 kW**	**3 kW**	**9 kW**	**9 kW**	**9 kW**
Electric backup heater	kW	3,00	6,00	6,00	3,00	9,00	9,00	9,00
Recommended fuse [4]	A	30/ 15 or 16	30/30	30/30	20/ 15 or 16	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [4]	mm²	3x4,0/ 3x1,5	3x4,0/ 3x4,0	3x4,0/3x4,0	5x1,5/ 3x1,5	5x1,5/ 5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825. 3) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 4) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW tanks
CZ-NV2	3 way valve kit to fit inside the hydrokit. K and L Series

Accessories	
PAW-BTANK50L-2	Buffer tank 50 L
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | -15°C CONSTANT HEATING T-CAP | DHW | -28 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

NEW

A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

Optional

NEW! Aquarea T-CAP Bi-bloc K Series. Three phase. Super Quiet outdoor unit · R32

Comfort: Super Quiet outdoor unit (-7 dB(A)) / Constant capacity at 55 °C down to -15 °C / Operating range to -28 °C / 60 °C flow temperature at -10 °C.
Flexibility: Built-in magnetic water filter.
Energy efficiency: A+++ heating at 35 °C / "A"-rated variable-speed pump / Built-in flow meter.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

				Three phase (power to indoor)	
Kit 3 kW electric heater			**KIT-WQC09K3E8**	**—**	**—**
Kit 9 kW electric heater			**KIT-WQC09K9E8**	**KIT-WQC12K9E8**	**KIT-WQC16K9E8**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,03	12,10/4,84	16,00/4,38
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,07	12,10/3,04	16,00/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,69	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,31	12,00/2,29	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,00	12,00/2,72	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,10	12,00/2,29	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,44 / 3,20 (175 / 125)	4,44 / 3,34 (175 / 131)	4,46/3,31 (176/129)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,47/4,34 (256/171)	5,88/4,09 (232/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,31/3,26 (169/127)	3,83/3,20 (150/125)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++
Indoor unit 3 kW electric heater			**WH-SXC09K3E8**	**—**	**—**
Indoor unit 9 kW electric heater			**WH-SXC09K9E8**	**WH-SXC12K9E8**	**WH-SXC16K9E8**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348
Net weight 3 kW / 9 kW		kg	40/41	—/41	—/42
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	173
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Outdoor unit			**WH-UQZ09KE8**	**WH-UQZ12KE8**	**WH-UQZ16KE8**
Sound power [2]	Heat	dB(A)	58	58	62
Dimension	H x W x D	mm	1410 x 1284 x 322	1410 x 1284 x 322	1410 x 1284 x 322
Net weight		kg	131	131	145
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range / Elevation difference (in / out)		m	3 ~ 30/20	3 ~ 30/20	3 ~ 30/20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [3]	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

Electrical information	**Heater**	**3 kW**	**9 kW**	**12 kW**	**16 kW**
Electric backup heater	kW	3,00	9,00	9,00	9,00
Recommended fuse [4]	A	20/ 15 or 16	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [4]	mm²	5x1,5/ 3x1,5	5x1,5/ 5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825. 3) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 4) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW tanks
CZ-NV2	3 way valve kit to fit inside the hydrokit. K and L Series

Accessories	
PAW-BTANK50L-2	Buffer tank 50 L
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT · A++ ErP 55 °C · A+++ ErP 35 °C · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · -15°C CONSTANT HEATING T-CAP · DHW · -28 °C HEATING MODE · WATER FILTER WITH MAGNET · 60°C OUTPUT WATER FLOW TEMPERATURE · FLOW SENSOR · BOILER CONNECTION · SOLAR KIT · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

Aquarea High Performance All in One 185 L K Series. Single phase · R32

Energy efficiency: A+++ heating at 35 °C / A+ DHW / COP up to 5,33 / DHW COP up to 3,50 / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™.
Flexibility: 599 x 602 footprint / Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

			Single phase (power to indoor)					
Kit 3 kW electric heater			**KIT-ADC03K3E5**	**KIT-ADC05K3E5**	**KIT-ADC07K3E5**	**KIT-ADC09K3E5**	**—**	**—**
Kit 6 kW electric heater			**KIT-ADC03K6E5**	**KIT-ADC05K6E5**	**KIT-ADC07K6E5**	**KIT-ADC09K6E5**	**KIT-ADC12K6E5**	**KIT-ADC16K6E5**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	3,20/5,33	5,00/5,10	7,00/4,86	9,00/4,55	12,10/4,78	16,00/4,31
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	3,20/2,81	5,00/3,03	7,00/2,92	8,90/2,93	12,00/2,96	14,70/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	3,20/3,64	5,00/3,57	6,85/3,43	7,00/3,40	11,50/3,44	13,00/3,18
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	3,20/2,19	5,00/2,29	6,25/2,23	6,30/2,18	9,20/2,25	10,00/2,24
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	3,30/2,80	5,00/2,79	5,75/2,95	6,25/2,84	10,10/2,74	11,70/2,61
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	3,20/1,79	5,00/1,89	5,35/1,98	5,90/1,93	8,40/1,97	9,10/1,85
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	3,20/3,52	5,00/3,05	6,70/3,03	8,20/2,72	10,70/2,68	12,20/2,68
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	3,20/4,71	5,00/4,90	6,70/4,72	9,00/4,18	10,70/3,92	13,00/3,80
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	5,07/3,47(200/136)	5,12/3,63(202/142)	4,90/3,62(193/142)	4,44/3,41(175/133)	4,58/3,33(180/130)	4,46/3,40(176/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,20/4,20(245/165)	6,00/4,20(237/165)	5,75/4,07(227/160)	5,75/4,07(227/160)	6,47/4,34(256/171)	6,20/4,30(245/169)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,00/2,83(157/110)	4,08/2,95(160/115)	4,18/2,98(164/116)	4,18/2,98(164/116)	4,31/3,26(169/127)	4,28/3,10(168/121)
	Energy class [1]	A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+	A++/A++	A++/A+
Indoor unit 3 kW electric heater			**WH-ADC0309K3E5**	**WH-ADC0309K3E5**	**WH-ADC0309K3E5**	**WH-ADC0309K3E5**	**—**	**—**
Indoor unit 6 kW electric heater			**WH-ADC0309K6E5**	**WH-ADC0309K6E5**	**WH-ADC0309K6E5**	**WH-ADC0309K6E5**	**WH-ADC0912K6E5**	**WH-ADC16K6E5**
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	28/28	33/33	33/33
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight 3 kW / 6 kW		kg	100/101	100/101	100/101	100/101	—/101	—/101
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	9,2	14,3	20,1	25,8	34,4	45,8
Water volume		L	185	185	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A++/A	A+/A++/A	A+/A++/A	A+/A++/A	A+/A/A	A+/A/A
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	128/3,20	140/3,50	140/3,50	140/3,50	100/2,50	100/2,50
DHW tank ERP warm climate η / COPdHW		ηwh %/COPdHW	154/3,86	160/4,00	160/4,00	160/4,00	116/2,90	116/2,90
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	99/2,48	112/2,80	112/2,80	112/2,80	80/2,00	80/2,00
Outdoor unit			**WH-UDZ03KE5**	**WH-UDZ05KE5**	**WH-UDZ07KE5**	**WH-UDZ09KE5**	**WH-UDZ12KE5**	**WH-UDZ16KE5**
Sound power [3]	Heat	dB(A)	55	55	56	56	65	65
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298/37	795 x 875 x 380/55	795 x 875 x 380/55	795 x 875 x 380/55	1340 x 900 x 320/88	1340 x 900 x 320/88
Refrigerant (R32) / CO_2 Eq.		kg / T	0,9/0,608	1,3/0,878	1,3/0,878	1,3/0,878	1,6/1,080	1,6/1,080
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 25/20	3 ~ 40 (3 ~ 50) [4]/30	3 ~ 40 (3 ~ 50) [4]/30	3 ~ 40 (3 ~ 50) [4]/30	3~30(3~50) [5]/20(30) [5]	3~30(3~50) [5]/20(30) [5]
Pre-charged pipe length / Additional gas amount		m / g/m	10/20	10/25	10/25	10/25	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [6]	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

Electrical information	**Heater**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**6 kW**	**6 kW**
Electric backup heater	kW	3,00	6,00	3,00	6,00	3,00	6,00	3,00	6,00	6,00	6,00
Recommended fuse [7]	A	16/16	16/30	16/16	16/30	25/16	25/30	25/16	25/30	30/30	30/30
Recommended minimum cable size, supply 1 / 2 [7]	mm²	3x1,5/3x1,5	3x1,5/3x4,0	3x1,5/3x1,5	3x1,5/3x4,0	3x2,5/3x1,5	3x2,5/3x4,0	3x2,5/3x1,5	3x2,5/3x4,0	3x4,0/3x4,0	3x4,0/3x4,0

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Operation range down to -25 °C in heating with 3 ~ 40 m pipe length range, operation range down to -15 °C in heating with 3 ~ 50 m pipe length range. 5) Ambient temperature down to -10 °C. Below -10 °C, permitted piping length and elevation difference is 3 ~ 30 m, 20 m. 6) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 7) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT · A++ ErP 55 °C · A+++ ErP 35 °C · A+ DHW · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · 5.33 COP HIGH PERFORMANCE · DHW · -25 °C HEATING MODE · WATER FILTER WITH MAGNET · 60°C OUTPUT WATER FLOW TEMPERATURE · FLOW SENSOR · BOILER CONNECTION · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

Check all our certified heat pumps on:
www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

Aquarea High Performance All in One 185 L K Series. Single phase with Electrical Anode · R32

Energy efficiency: A+++ heating at 35 °C / A+ DHW / COP up to 5,33 / DHW COP up to 3,50 / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™.
Flexibility: Suitable for harsh-water installations / 599 x 602 footprint / Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

			Single phase (power to indoor)					
Kit 3 kW electric heater		**KIT-**	**ADC03K3E5AN**	**ADC05K3E5AN**	**ADC07K3E5AN**	**ADC09K3E5AN**	**—**	
Kit 6 kW electric heater		**KIT-**	**ADC03K6E5AN**	**ADC05K6E5AN**	**ADC07K6E5AN**	**ADC09K6E5AN**	**ADC12K6E5AN**	**ADC16K6E5AN**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	3,20/5,33	5,00/5,10	7,00/4,86	9,00/4,55	12,10/4,78	16,00/4,31
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	3,20/2,81	5,00/3,03	7,00/2,92	8,90/2,93	12,00/2,96	14,70/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	3,20/3,64	5,00/3,57	6,85/3,43	7,00/3,40	11,50/3,44	13,00/3,18
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	3,20/2,19	5,00/2,29	6,25/2,23	6,30/2,18	9,20/2,25	10,00/2,24
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	3,30/2,80	5,00/2,79	5,75/2,95	6,25/2,84	10,10/2,74	11,70/2,61
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	3,20/1,79	5,00/1,89	5,35/1,98	5,90/1,93	8,40/1,97	9,10/1,85
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	3,20/3,52	5,00/3,05	6,70/3,03	8,20/2,72	10,70/2,68	12,20/2,68
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	3,20/4,71	5,00/4,90	6,70/4,72	9,00/4,18	10,70/3,92	13,00/3,80
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	5,07/3,47(200/136)	5,12/3,63(202/142)	4,90/3,62(193/142)	4,44/3,41(175/133)	4,58/3,33(180/130)	4,46/3,40(176/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,20/4,20(245/165)	6,00/4,20(237/165)	5,75/4,07(227/160)	5,75/4,07(227/160)	6,47/4,34(256/171)	6,20/4,30(245/169)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,00/2,83(157/110)	4,08/2,95(160/115)	4,18/2,98(164/116)	4,18/2,98(164/116)	4,31/3,26(169/127)	4,28/3,10(168/121)
	Energy class [1]	A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+	A++/A++	A++/A+
Indoor unit 3 kW electric heater		**WH-**	**ADC0309K3E5AN**	**ADC0309K3E5AN**	**ADC0309K3E5AN**	**ADC0309K3E5AN**	**—**	**—**
Indoor unit 6 kW electric heater		**WH-**	**ADC0309K6E5AN**	**ADC0309K6E5AN**	**ADC0309K6E5AN**	**ADC0309K6E5AN**	**ADC0912K6E5AN**	**ADC16K6E5AN**
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	28/28	33/33	33/33
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight 3 kW / 6 kW		kg	100/101	100/101	100/101	100/101	—/101	—/101
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	9,2	14,3	20,1	25,8	34,4	45,8
Water volume		L	185	185	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A++/A	A+/A++/A	A+/A++/A	A+/A++/A	A+/A/A	A+/A/A
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	128/3,20	140/3,50	140/3,50	140/3,50	100/2,50	100/2,50
DHW tank ERP warm climate η / COPdHW		ηwh%/COPdHW	154/3,86	160/4,00	160/4,00	160/4,00	116/2,90	116/2,90
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	99/2,48	112/2,80	112/2,80	112/2,80	80/2,00	80/2,00
Outdoor unit			**WH-UDZ03KE5**	**WH-UDZ05KE5**	**WH-UDZ07KE5**	**WH-UDZ09KE5**	**WH-UDZ12KE5**	**WH-UDZ16KE5**
Sound power [3]	Heat	dB(A)	55	55	56	56	65	65
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298/37	795 x 875 x 380/55	795 x 875 x 380/55	795 x 875 x 380/55	1340 x 900 x 320/88	1340 x 900 x 320/88
Refrigerant (R32) / CO_2 Eq.		kg / T	0,9/0,608	1,3/0,878	1,3/0,878	1,3/0,878	1,6/1,080	1,6/1,080
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 25/20	3 ~ 40 (3 ~ 50) [4]/30	3 ~ 40 (3 ~ 50) [4]/30	3 ~ 40 (3 ~ 50) [4]/30	3~30(3~50) [5]/20(30) [5]	3~30(3~50) [5]/20(30) [5]
Pre-charged pipe length / Additional gas amount		m / g/m	10/20	10/25	10/25	10/25	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [6]	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

Electrical information	**Heater**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**6 kW**	**6 kW**
Electric backup heater	kW	3,00	6,00	3,00	6,00	3,00	6,00	3,00	6,00	6,00	6,00
Recommended fuse [7]	A	16/16	16/30	16/16	16/30	25/16	25/30	25/16	25/30	30/30	30/30
Recommended minimum cable size, supply 1 / 2 [7]	mm²	3x1,5/ 3x1,5	3x1,5/ 3x4,0	3x1,5/ 3x1,5	3x1,5/ 3x4,0	3x2,5/ 3x1,5	3x2,5/ 3x4,0	3x2,5/ 3x1,5	3x2,5/ 3x4,0	3x4,0/3x4,0	3x4,0/3x4,0

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Operation range down to -25 °C in heating with 3 ~ 40 m pipe length range, operation range down to -10 °C in heating with 3 ~ 50 m pipe length range. 5) Ambient temperature down to -10 °C. Below -10 °C, permitted piping length and elevation difference is 3 ~ 30 m, 20 m. 6) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 7) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ AUTO SPEED | A CLASS WATER PUMP | 5,33 COP HIGH PERFORMANCE | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Aquarea High Performance All in One 260 L K Series. Single phase with Electrical Anode · R32

Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™.
Flexibility: Suitable for harsh-water installations (AN version) / 599 x 602 footprint / Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

			Single phase (power to indoor)			
Kit			**KIT-ADC12K6E53**	**KIT-ADC16K6E53**	**KIT-ADC12K6E5AN3**	**KIT-ADC16K6E5AN3**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	12,10/4,78	16,00/4,31	12,10/4,78	16,00/4,31
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	12,00/2,96	14,70/2,72	12,00/2,96	14,70/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	11,50/3,44	13,00/3,18	11,50/3,44	13,00/3,18
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,20/2,25	10,00/2,24	9,20/2,25	10,00/2,24
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	10,10/2,74	11,70/2,61	10,10/2,74	11,70/2,61
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	8,40/1,97	9,10/1,85	8,40/1,97	9,10/1,85
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	10,70/2,68	12,20/2,68	10,70/2,68	12,20/2,68
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	10,70/3,92	13,00/3,80	10,70/3,92	13,00/3,80
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,58/3,33 (180/130)	4,46/3,40 (176/133)	4,58/3,33 (180/130)	4,46/3,40 (176/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,20/4,30 (245/169)	6,47/4,34 (256/171)	6,20/4,30 (245/169)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,28/3,10 (168/121)	4,31/3,26 (169/127)	4,28/3,10 (168/121)
	Energy class [1]	A+++ to D	A++/A++	A++/A+	A++/A++	A++/A+
Indoor unit			**WH-ADC0912K6E53**	**WH-ADC16K6E53**	**WH-ADC0912K6E5AN3**	**WH-ADC16K6E5AN3**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33
Dimension	H x W x D	mm	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602
Net weight		kg	119	119	119	120
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	34,4	34,4	34,4	45,8
Water volume		L	260	260	260	260
Maximum DHW temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A/A	A+/A/A	A+/A/A	A+/A/A
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	100/2,50	100/2,50	100/2,50	100/2,50
DHW tank ERP warm climate η / COPdHW		ηwh %/COPdHW	116/2,90	116/2,90	116/2,90	116/2,90
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	80/2,00	80/2,00	80/2,00	80/2,00
Outdoor unit			**WH-UDZ12KE5**	**WH-UDZ16KE5**	**WH-UDZ12KE5**	**WH-UDZ16KE5**
Sound power [3]	Heat	dB(A)	65	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320/88	1340 x 900 x 320/88	1340 x 900 x 320/88	1340 x 900 x 320/88
Refrigerant (R32) / CO_2 Eq.		kg / T	1,6/1,080	1,6/1,080	1,6/1,080	1,6/1,080
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35)/1/2 (12,70)	1/4 (6,35)/5/8 (15,88)	1/4 (6,35)/1/2 (12,70)	1/4 (6,35)/5/8 (15,88)
Pipe length range / Elevation difference (in / out)		m / m	3~30 (3~50) [4]/20 (30) [4]	3~30 (3~50) [4]/20 (30) [4]	3~30 (3~50) [4]/20 (30) [4]	3~30 (3~50) [4]/20 (30) [4]
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-25~+35	-25~+35	-25~+35	-25~+35
	Cool	°C	+10~+43	+10~+43	+10~+43	+10~+43
Water outlet	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20

Electrical information		**WH-ADC0912K6E53**	**WH-ADC16K6E53**	**WH-ADC0912K6E5AN3**	**WH-ADC16K6E5AN3**
Electric backup heater	kW	6,00	6,00	6,00	6,00
Recommended fuse [5]	A	30/30	30/30	30/30	30/30
Recommended minimum cable size, supply 1 / 2 [5]	mm²	3x4,0/3x4,0	3x4,0/3x4,0	3x4,0/3x4,0	3x4,0/3x4,0

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN 12102-1:2017 at +7 °C. 4) Operation range down to -25 °C in heating with 3~40 m pipe length range, operation range down to -15 °C in heating with 3~50 m pipe length range. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT · A++ ErP 55 °C · A+++ ErP 35 °C · A+ DHW · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · 5.33 COP HIGH PERFORMANCE · DHW · -25 °C HEATING MODE · WATER FILTER WITH MAGNET · 60°C OUTPUT WATER FLOW TEMPERATURE · FLOW SENSOR · BOILER CONNECTION · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

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Aquarea High Performance All in One 185 L K Series. Single phase 2 zones · R32

Energy efficiency: A+++ heating at 35 °C / A+ DHW / COP up to 5.33 / DHW COP up to 3.50 / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™.
Flexibility: Built-in 2-zone kit / 599 x 602 footprint / Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

			Single phase (power to indoor)			
Kit			**KIT-ADC03K3E5B**	**KIT-ADC05K3E5B**	**KIT-ADC07K3E5B**	**KIT-ADC09K3E5B**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	3,20/5,33	5,00/5,10	7,00/4,86	9,00/4,55
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	3,20/2,81	5,00/3,03	7,00/2,92	8,90/2,93
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	3,20/3,64	5,00/3,57	6,85/3,43	7,00/3,40
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	3,20/2,19	5,00/2,29	6,25/2,23	6,30/2,18
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	3,30/2,80	5,00/2,79	5,75/2,95	6,25/2,84
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	3,20/1,79	5,00/1,89	5,35/1,98	5,90/1,93
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	3,20/3,52	5,00/3,05	6,70/3,03	8,20/2,72
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	3,20/4,71	5,00/4,90	6,70/4,72	9,00/4,18
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	5,07/3,47 (200/136)	5,12/3,63 (202/142)	4,90/3,62 (193/142)	4,44/3,41 (175/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,20/4,20 (245/165)	6,00/4,20 (237/165)	5,75/4,07 (227/160)	5,75/4,07 (227/160)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,00/2,83 (157/110)	4,08/2,95 (160/115)	4,18/2,98 (164/116)	4,18/2,98 (164/116)
	Energy class [1]	A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+
Indoor unit			**WH-ADC0309K3E5B**	**WH-ADC0309K3E5B**	**WH-ADC0309K3E5B**	**WH-ADC0309K3E5B**
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	28/28
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight		kg	109	109	109	109
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed
	Input power (Min/Max)	W	30/120	30/120	30/120	30/120
Heating water flow (ΔT=5 K. 35 °C)		L/min	9,2	14,3	20,1	25,8
Water volume		L	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A++/A	A+/A++/A	A+/A++/A	A+/A++/A
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	128/3,20	140/3,50	140/3,50	140/3,50
DHW tank ERP warm climate η / COPdHW		ηwh%/COPdHW	154/3,86	160/4,00	160/4,00	160/4,00
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	99/2,48	112/2,80	112/2,80	112/2,80
Outdoor unit			**WH-UDZ03KE5**	**WH-UDZ05KE5**	**WH-UDZ07KE5**	**WH-UDZ09KE5**
Sound power [3]	Heat	dB(A)	55	55	56	56
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298/37	795 x 875 x 380/55	795 x 875 x 380/55	795 x 875 x 380/55
Refrigerant (R32) / CO_2 Eq.		kg / T	0,9/0,608	1,3/0,878	1,3/0,878	1,3/0,878
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 25/20	3 ~ 40 (3 ~ 50) [4]/30	3 ~ 40 (3 ~ 50) [4]/30	3 ~ 40 (3 ~ 50) [4]/30
Pre-charged pipe length / Additional gas amount		m / g/m	10/20	10/25	10/25	10/25
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

Electrical information			**WH-ADC0309K3E5B**	**WH-ADC0309K3E5B**	**WH-ADC0309K3E5B**	**WH-ADC0309K3E5B**
Electric backup heater		kW	3,00	3,00	3,00	3,00
Recommended fuse [5]		A	16/16	16/16	25/16	25/16
Recommended minimum cable size, supply 1 / 2 [5]		mm²	3x1,5/3x1,5	3x1,5/3x1,5	3x2,5/3x1,5	3x2,5/3x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN 12102-1:2017 at +7 °C. 4) Operation range down to -25 °C in heating with 3 ~ 40 m pipe length range, operation range down to -15 °C in heating with 3 ~ 50 m pipe length range. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5,33 COP HIGH PERFORMANCE | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Aquarea High Performance All in One 185 L K Series. Three phase · R32

Energy efficiency: A+++ heating at 35 °C / A DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™.
Flexibility: 599 x 602 footprint / Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

			Three phase (power to indoor)		
Kit			**KIT-ADC09K9E8**	**KIT-ADC12K9E8**	**KIT-ADC16K9E8**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/4,90	12,10/4,78	16,00/4,31
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/2,97	12,00/2,96	14,70/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,63	11,50/3,44	13,20/3,28
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,26	9,20/2,25	10,00/2,21
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/2,88	10,10/2,74	11,60/2,57
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	8,10/2,07	8,40/1,97	9,10/1,85
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57 (195/140)	4,58/3,33 (180/130)	4,46/3,40 (176/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,47/4,34 (256/171)	6,20/4,30 (245/169)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,31/3,26 (169/127)	4,28/3,10 (168/121)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A+
Indoor unit			**WH-ADC0912K9E8**	**WH-ADC0912K9E8**	**WH-ADC16K9E8**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight		kg	102	102	103
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A/A+/A	A/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	100/2,50	100/2,50	96/2,40
DHW tank ERP warm climate η / COPdHW		ηwh %/COPdHW	116/2,90	116/2,90	115/2,88
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	80/2,00	80/2,00	76/1,90
Outdoor unit			**WH-UDZ09KE8**	**WH-UDZ12KE8**	**WH-UDZ16KE8**
Sound power [3]	Heat	dB(A)	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320 / 90	1340 x 900 x 320 / 90	1340 x 900 x 320 / 103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20	3 ~ 30 / 20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [4]	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information			**WH-ADC0912K9E8**	**WH-ADC0912K9E8**	**WH-ADC16K9E8**
Electric backup heater		kW	9,00	9,00	9,00
Recommended fuse [5]		A	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]		mm²	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 4,90 COP HIGH PERFORMANCE | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

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A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

Aquarea High Performance All in One 185 L K Series. Three phase with Electrical Anode · R32

Energy efficiency: A+++ heating at 35 °C / A DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™.
Flexibility: Suitable for harsh-water installations / 599 x 602 footprint / Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

				Three phase (power to indoor)	
Kit			**KIT-ADC09K9E8AN**	**KIT-ADC12K9E8AN**	**KIT-ADC16K9E8AN**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/4,90	12,10/4,78	16,00/4,31
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/2,97	12,00/2,96	14,70/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,63	11,50/3,44	13,20/3,28
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,26	9,20/2,25	10,00/2,21
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/2,88	10,10/2,74	11,60/2,57
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	8,10/2,07	8,40/1,97	9,10/1,85
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57 (195/140)	4,58/3,33 (180/130)	4,46/3,40 (176/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,47/4,34 (256/171)	6,20/4,30 (245/169)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,31/3,26 (169/127)	4,28/3,10 (168/121)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A+
Indoor unit			**WH-ADC0912K9E8AN**	**WH-ADC0912K9E8AN**	**WH-ADC16K9E8AN**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight		kg	102	102	103
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A/A+/A	A/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	100/2,50	100/2,50	96/2,40
DHW tank ERP warm climate η / COPdHW		ηwh%/COPdHW	116/2,90	116/2,90	115/2,88
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	80/2,00	80/2,00	76/1,90
Outdoor unit			**WH-UDZ09KE8**	**WH-UDZ12KE8**	**WH-UDZ16KE8**
Sound power [3]	Heat	dB(A)	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320 / 90	1340 x 900 x 320 / 90	1340 x 900 x 320 / 103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20	3 ~ 30 / 20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [4]	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information			**WH-ADC0912K9E8AN3**	**WH-ADC0912K9E8AN3**	**WH-ADC16K9E8AN3**
Electric backup heater		kW	9,00	9,00	9,00
Recommended fuse [5]		A	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]		mm²	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN 12102 under conditions of the EN14825. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 4,90 COP HIGH PERFORMANCE | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Aquarea High Performance All in One 260 L K Series. Three phase · R32

Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™.
Flexibility: 599 x 602 footprint / Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

			Three phase (power to indoor)		
Kit			**KIT-ADC09K9E83**	**KIT-ADC12K9E83**	**KIT-ADC16K9E83**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/4,90	12,10/4,78	16,00/4,31
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/2,97	12,00/2,96	14,70/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,63	11,50/3,44	13,20/3,28
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,26	9,20/2,25	10,00/2,21
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/2,88	10,10/2,74	11,60/2,57
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	8,10/2,07	8,40/1,97	9,10/1,85
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57(195/140)	4,58/3,33(180/130)	4,46/3,40(176/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34(256/171)	6,47/4,34(256/171)	6,20/4,30(245/169)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26(169/127)	4,31/3,26(169/127)	4,28/3,10(168/121)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A+
Indoor unit			**WH-ADC0912K9E83**	**WH-ADC0912K9E83**	**WH-ADC16K9E83**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602
Net weight		kg	119	119	120
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	46,0
Water volume		L	260	260	260
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			XL	XL	XL
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	123/3,08	123/3,08	98/2,45
DHW tank ERP warm climate η / COPdHW		ηwh %/COPdHW	134/3,35	134/3,35	123/3,08
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	94/2,35	94/2,35	80/2,00
Outdoor unit			**WH-UDZ09KE8**	**WH-UDZ12KE8**	**WH-UDZ16KE8**
Sound power [3]	Heat	dB(A)	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320 / 90	1340 x 900 x 320 / 90	1340 x 900 x 320 / 103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20	3 ~ 30 / 20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information			**WH-ADC0912K9E83**	**WH-ADC0912K9E83**	**WH-ADC16K9E83**
Electric backup heater		kW	9,00	9,00	9,00
Recommended fuse [5]		A	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]		mm²	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN 12102-1:2017 at +7 °C. 4) Operation range down to -25 °C in heating with 3 ~ 40 m pipe length range, operation range down to -15 °C in heating with 3 ~ 50 m pipe length range. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5.33 COP HIGH PERFORMANCE | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Check all our certified heat pumps on:
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A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Optional

Aquarea High Performance All in One 260 L K Series. Three phase with Electrical Anode · R32

Energy efficiency: A+++ heating at 35 °C / A+ DHW / "A"-rated variable-speed pump / Stainless steel DHW tank with U-Vacua™.
Flexibility: Suitable for harsh-water installations / 599 x 602 footprint / Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

				Three phase (power to indoor)	
Kit			**KIT-ADC09K9E8AN3**	**KIT-ADC12K9E8AN3**	**KIT-ADC16K9E8AN3**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/4,90	12,10/4,78	16,00/4,31
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/2,97	12,00/2,96	14,70/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,63	11,50/3,44	13,20/3,28
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,26	9,20/2,25	10,00/2,21
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/2,88	10,10/2,74	11,60/2,57
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	8,10/2,07	8,40/1,97	9,10/1,85
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57 (195/140)	4,58/3,33 (180/130)	4,46/3,40 (176/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,47/4,34 (256/171)	6,20/4,30 (245/169)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,31/3,26 (169/127)	4,28/3,10 (168/121)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A+
Indoor unit			**WH-ADC0912K9E8AN3**	**WH-ADC0912K9E8AN3**	**WH-ADC16K9E8AN3**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	2036 x 599 x 602	2036 x 599 x 602	2036 x 599 x 602
Net weight		kg	119	119	120
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Water volume		L	260	260	260
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			XL	XL	XL
DHW tank ERP efficiency average / warm / cold [2]		A+ to F	A+/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	123/3,08	123/3,08	98/2,45
DHW tank ERP warm climate η / COPdHW		ηwh%/COPdHW	134/3,35	134/3,35	123/3,08
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	94/2,35	94/2,35	80/2,00
Outdoor unit			**WH-UDZ09KE8**	**WH-UDZ12KE8**	**WH-UDZ16KE8**
Sound power [3]	Heat	dB(A)	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320 / 90	1340 x 900 x 320 / 90	1340 x 900 x 320 / 103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20	3 ~ 30 / 20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information		**WH-ADC0912K9E8AN3**	**WH-ADC0912K9E8AN3**	**WH-ADC16K9E8AN3**
Electric backup heater	kW	9,00	9,00	9,00
Recommended fuse [5]	A	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [5]	mm²	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN 12102-1:2017 at +7 °C. 4) Operation range down to -25 °C in heating with 3 ~ 40 m pipe length range, operation range down to -15 °C in heating with 3 ~ 50 m pipe length range. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud

Accessories	
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5,33 COP HIGH PERFORMANCE | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Aquarea High Performance Bi-bloc K Series. Single phase - SDC · R32

Energy efficiency: A+++ heating at 35 °C / COP up to 5,33 / "A"-rated variable-speed pump.
Flexibility: Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

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A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

Optional

			Single phase (power to indoor)					
Kit 3 kW electric heater			**KIT-WC03K3E5**	**KIT-WC05K3E5**	**KIT-WC07K3E5**	**KIT-WC09K3E5**	**—**	**—**
Kit 6 kW electric heater			**KIT-WC03K6E5**	**KIT-WC05K6E5**	**KIT-WC07K6E5**	**KIT-WC09K6E5**	**KIT-WC12K6E5**	**KIT-WC16K6E5**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	3,20/5,33	5,00/5,10	7,00/4,86	9,00/4,55	12,10/4,78	16,00/4,31
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	3,20/2,81	5,00/3,03	7,00/2,92	8,90/2,93	12,00/2,96	14,70/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	3,20/3,64	5,00/3,57	6,85/3,43	7,00/3,40	11,50/3,44	13,00/3,18
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	3,20/2,19	5,00/2,29	6,25/2,23	6,30/2,18	9,20/2,25	10,00/2,24
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	3,30/2,80	5,00/2,79	5,75/2,95	6,25/2,84	10,10/2,74	11,70/2,61
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	3,20/1,79	5,00/1,89	5,35/1,98	5,90/1,93	8,40/1,97	9,10/1,85
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	3,20/3,52	5,00/3,05	6,70/3,03	8,20/2,72	10,70/2,68	12,20/2,68
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	3,20/4,71	5,00/4,90	6,70/4,72	9,00/4,18	10,70/3,92	13,00/3,80
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_{s} %)	5,07/3,47(200/136)	5,12/3,63(202/142)	4,90/3,62(193/142)	4,44/3,41(175/133)	4,58/3,33(180/130)	4,46/3,40(176/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_{s} %)	6,20/4,20(245/165)	6,00/4,20(237/165)	5,75/4,07(227/160)	5,75/4,07(227/160)	6,47/4,34(256/171)	6,20/4,30(245/169)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_{s} %)	4,00/2,83(157/110)	4,08/2,95(160/115)	4,18/2,98(164/116)	4,18/2,98(164/116)	4,31/3,26(169/127)	4,28/3,10(168/121)
	Energy class [1]	A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+	A++/A++	A++/A+
Indoor unit 3 kW electric heater		**WH-**	**SDC0309K3E5**	**SDC0309K3E5**	**SDC0309K3E5**	**SDC0309K3E5**	**—**	**—**
Indoor unit 6 kW electric heater		**WH-**	**SDC0309K6E5**	**SDC0309K6E5**	**SDC0309K6E5**	**SDC0309K6E5**	**SDC12K6E5**	**SDC16K6E5**
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	30/30	30/31	33/33	33/33
Dimension	H x W x D	mm	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348
Net weight 3 kW / 6 kW		kg	40/41	40/41	40/41	40/41	41	41
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	9,2	14,3	20,1	25,8	34,4	45,8
Outdoor unit			**WH-UDZ03KE5**	**WH-UDZ05KE5**	**WH-UDZ07KE5**	**WH-UDZ09KE5**	**WH-UDZ12KE5**	**WH-UDZ16KE5**
Sound power [2]	Heat	dB(A)	55	55	56	56	65	65
Dimension	H x W x D	mm	622 x 824 x 298	795 x 875 x 380	795 x 875 x 380	795 x 875 x 380	1340 x 900 x 320	1340 x 900 x 320
Net weight		kg	37	55	55	55	88	88
Refrigerant (R32) / CO_2 Eq.		kg / T	0,9/0,608	1,3/0,878	1,3/0,878	1,3/0,878	1,6/1,080	1,6/1,080
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)
Pipe length range		m	3 ~ 25	3 ~ 40 (3 ~ 50) [3]	3 ~ 40 (3 ~ 50) [3]	3 ~ 40 (3 ~ 50) [3]	3 ~ 30	3 ~ 30
Elevation difference (in / out)		m	20	30	30	30	20	20
Pre-charged pipe length		m	10	10	10	10	10	10
Additional gas amount		g/m	20	25	25	25	30	30
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [4]	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information	**Heater**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**6 kW**	**6 kW**
Electric backup heater	kW	3,00	6,00	3,00	6,00	3,00	6,00	3,00	6,00	6,00	6,00
Recommended fuse [5]	A	16/16	16/30	16/16	16/30	25/16	25/30	25/16	25/30	30/30	30/30
Recommended minimum cable size, supply 1 / 2 [5]	mm^2	3x1,5/ 3x1,5	3x1,5/ 3x4,0	3x1,5/ 3x1,5	3x1,5/ 3x4,0	3x2,5/ 3x1,5	3x2,5/ 3x4,0	3x2,5/ 3x1,5	3x2,5/ 3x4,0	3x4,0/3x4,0	3x4,0/3x4,0

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825. 3) Operation range down to -25 °C in heating with 3 ~ 40 m pipe length range, operation range down to -15 °C in heating with 3 ~ 50 m pipe length range. 4) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW tanks
CZ-NV2	3 way valve kit to fit inside the hydrokit. K and L Series

Accessories	
PAW-BTANK50L-2	Buffer tank 50 L
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5,33 COP HIGH PERFORMANCE | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

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www.heatpumpkeymark.com

A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

Optional

Aquarea High Performance Bi-bloc K Series. Three phase - SDC · R32

Energy efficiency: A+++ heating at 35 °C / "A"-rated variable-speed pump.
Flexibility: Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

				Three phase (power to indoor)	
Kit 3 kW electric heater			**KIT-WC09K3E8**	**—**	**—**
Kit 9 kW electric heater			**KIT-WC09K9E8**	**KIT-WC12K9E8**	**KIT-WC16K9E8**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/4,90	12,10/4,78	16,00/4,31
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/2,97	12,00/2,96	14,70/2,72
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,63	11,50/3,44	13,20/3,28
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,26	9,20/2,25	10,00/2,21
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/2,88	10,10/2,74	11,60/2,57
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	8,10/2,07	8,40/1,97	9,10/1,85
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	8,80/3,11	10,70/2,68	13,40/2,64
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	8,80/4,63	10,70/3,92	15,50/3,60
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,96/3,57 (195/140)	4,58/3,33 (180/130)	4,46/3,40 (176/133)
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	6,47/4,34 (256/171)	6,47/4,34 (256/171)	6,20/4,30 (245/169)
	Energy class [1]	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η_s %)	4,31/3,26 (169/127)	4,31/3,26 (169/127)	4,28/3,10 (168/121)
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A+
Indoor unit 3 kW electric heater			**WH-SDC09K3E8**	**—**	**—**
Indoor unit 9 kW electric heater			**WH-SDC09K9E8**	**WH-SDC12K9E8**	**WH-SDC16K9E8**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348
Net weight 3 kW / 9 kW		kg	40/41	—/41	—/41
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Outdoor unit			**WH-UDZ09KE8**	**WH-UDZ12KE8**	**WH-UDZ16KE8**
Sound power [2]	Heat	dB(A)	65	65	65
Dimension	H x W x D	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Net weight		kg	90	90	103
Refrigerant (R32) / CO_2 Eq.		kg / T	1,60/1,080	1,60/1,080	1,83/1,235
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)
Pipe length range		m	3 ~ 30	3 ~ 30	3 ~ 30
Elevation difference (in / out)		m	20	20	20
Pre-charged pipe length		m	10	10	10
Additional gas amount		g/m	30	30	30
Operating range - outdoor ambient	Heat	°C	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet [3]	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information		**3 kW heater**	**9 kW heater**	**9 kW heater**	**9 kW heater**
Electric backup heater	kW	3,00	9,00	9,00	9,00
Recommended fuse [4]	A	20/15/16	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 [4]	mm²	5x1,5/3x1,5	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 under conditions of the EN14825. 3) Operation range down to -25 °C in heating with 3 ~ 40 m pipe length range, operation range down to -15 °C in heating with 3 ~ 50 m pipe length range. 4) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW tanks
CZ-NV2	3 way valve kit to fit inside the hydrokit. K and L Series

Accessories	
PAW-BTANK50L-2	Buffer tank 50 L
CZ-TAW1B	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

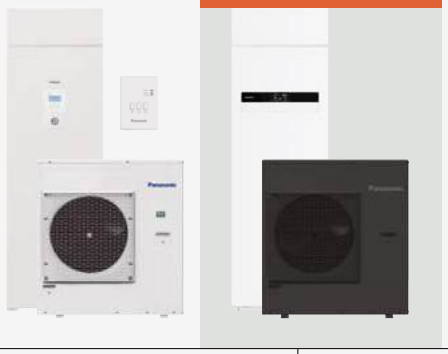
R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

Aquarea EcoFleX. Single phase · R32

Energy efficiency: Heat recovery during cooling provides free DHW.
Flexibility: Small foot print outdoor unit / Up to 3 air to air indoor units plus an air to water unit with integrated DHW tank.
Comfort: Continuous heating down to -25 °C [1] / nanoe™ X technology to improve protection 24/7.
Connectivity: Wi-Fi adapter included for smart control via Comfort Cloud App [2].

1) For CU-4WZ90CBE5. CU-2WZ71YBE5 operates down to -15 °C. 2) Except low static pressure hide-away indoor units.

NEW



A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
A+ DHW A+ TO F
Included*

Aquarea EcoFleX	Indoor units			Outdoor units	
				CU-2WZ71YBE5	CU-4WZ90CBE5
	DHW tank	Electrical anode			
Air to water indoor units				**1 unit**	**1 unit**
Aquarea EcoFleX air to water indoor unit	185 L	—	**WH-ADF0309J3E5CM**	✔	—
	185 L	—	**WH-ADF0309K3E5M**	—	✔
	185 L	✔	**WH-ADF0309K3E5ANM**	—	✔
Air to air indoor units				**1 unit**	**Up to 3 units**
Aquarea EcoFleX hide-away	—	—	**S-71WF3E**	✔	✔
Low static pressure hide-away	—	—	**CS-MZ20CD3EA**	—	✔
	—	—	**CS-Z25CD3EAW**	—	✔
	—	—	**CS-Z35CD3EAW**	—	✔
	—	—	**CS-Z50CD3EAW**	—	✔
	—	—	**CS-Z60CD3EAW**	—	✔
Etherea wall-mounted (graphite grey / silver /matt white)	—	—	**— / — / CS-MZ16CKE**	—	✔
	—	—	**CS-XZ20CKEW-H / CS-XZ20CKEW / CS-Z20CKEW**	—	✔
	—	—	**CS-XZ25CKEW-H / CS-XZ25CKEW / CS-Z25CKEW**	—	✔
	—	—	**CS-XZ35CKEW-H / CS-XZ35CKEW / CS-Z35CKEW**	—	✔
	—	—	**CS-XZ42CKEW-H / — / CS-Z42CKEW**	—	✔
	—	—	**— / CS-XZ50CKEW / CS-Z50CKEW**	—	✔
	—	—	**— / — / CS-Z71CKEW**	—	✔

Outdoor unit			CU-2WZ71YBE5	CU-4WZ90CBE5	CU-4WZ90CBE5
Connected air to air indoor units			**1 (S-71WF3E)**	**1 (S-71WF3E)**	**2 ~ 3**
Indoor nominal capacity (Min - Max)			**— ~ 7,10 kW**	**— ~ 7,10 kW**	**3,20 ~ 11,00 kW**
Cooling capacity	Nominal (Min - Max)	kW	7,10 (1,20 - 8,10)	7,10 (1,60 - 9,00)	9,00 (1,60 - 10,20)
EER [1]	Nominal (Min - Max)	W/W	3,40 (2,55 - 2,47)	3,40 (3,40 - 2,57)	3,83 (4,00 - 3,00)
SEER [2]			**5,60 A+**	**5,60 A+**	**7,00 A++**
Pdesign (cooling)		kW	7,10	7,10	9,00
Input power	Nominal (Min - Max)	kW	2,09 (0,47 - 3,28)	2,09 (0,47 - 3,50)	2,35 (0,40 - 3,40)
Annual energy consumption [3]		kWh/a	444	444	450
Heating capacity	Nominal (Min - Max)	kW	7,10 (2,00 - 10,20)	7,10 (2,00 - 10,20)	9,50 (2,00 - 12,00)
Heating capacity at -7 °C		kW			
COP [1]	Nominal (Min - Max)	W/W	3,90 (4,65 - 3,00)	3,90 (4,65 - 3,00)	4,30 (5,56 - 3,64)
SCOP [2]			**3,90 A**	**3,90 A**	**4,60 A++**
Pdesign at -10 °C		kW	4,80	5,80	6,50
Input power	Nominal (Min - Max)	kW	1,82 (0,43 - 3,40)	1,82 (0,43 - 3,40)	2,21 (0,36 - 3,30)
Annual energy consumption [3]		kWh/a	1723	2082	1978
Current	Cool / Heat	A	10,1 / 8,7	10,1 / 8,7	11,2 / 10,6
Power supply		V	230	230	230
Recommended fuse		A			
Recommended power cable section		mm²			
Sound pressure [4]	Cool / Heat (air to air)	dB(A)	49 / 49	49 / 49	53 / 55
Sound power [4]	Cool / Heat (air to air)	dB(A)	68 / 67	68 / 67	69 / 70
Dimension / Net weight	H x W x D	mm / kg	999 x 940 x 340 / 82	999 x 940 x 340 / 83	999 x 940 x 340 / 83
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 3/8 (9,52)	1/4 (6,35) / 3/8 (9,52)
Maximum total piping length		m	70	70	80
Pipe length range to one unit		m	3 ~ 35	3 ~ 35	3 ~ 25
Elevation difference (in / out)		m	30	30	20
Pre-charged pipe length / Additional gas amount		m / g/m	30 / 20	30 / 25	30 / 25
Refrigerant (R32) / CO_2 Eq.		kg / T	2,40 / 1,62	2,58 / 1,74	2,58 / 1,74
Operating range - outdoor ambient	Heat (air to air)	°C	-15 ~ +24	-15 ~ +24	-25 ~ +24
	Cool (air to air)	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heat (air to water)	°C	-15 ~ +35	-15 ~ +35	-25 ~ +35
	Heat recovery (floor / DHW)	°C	+10 ~ +35 / +10 ~ +46	+10 ~ +35 / +10 ~ +46	+10 ~ +35 / +10 ~ +46

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER and SCOP data measurement is measured according to EN 14825. Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure and power is measured under cooling mode (outdoor 35 °C DB, indoor 27 °C/19 °C) and heating mode (outdoor 7 °C/6 °C, indoor 20 °C DB). Sound pressure is measured with distance 1,0 m from the unit and height at 1,5 m.

R32 REFRIGERANT | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | FLOW SENSOR | HEAT RECOVERY PORT | ADVANCED CONTROL | WI-FI INCLUDED | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

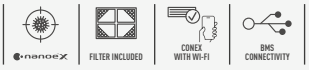
HEATING MODE: For CU-4WZ90CBE5. WI-FI INCLUDED: For EcoFleX hide-away and Etherea wall-mounted units.

Indoor unit			WH-ADF0309J3E5CM	WH-ADF0309K3E5M	WH-ADF0309K3E5ANM
Compatible outdoor unit			CU-2WZ71YBE5	CU-4WZ90CBE5	CU-4WZ90CBE5
Heating capacity / COP [1] (A +7 °C, W 35 °C)		kW / COP	8,00/4,21	8,00/4,21	8,00/4,21
Heating capacity / COP [1] (A +7 °C, W 55 °C)		kW / COP	8,00/2,81	8,00/2,81	8,00/2,81
Heating capacity / COP [1] (A +2 °C, W 35 °C)		kW / COP	6,70/3,25	6,70/3,25	6,70/3,25
Heating capacity / COP [1] (A +2 °C, W 55 °C)		kW / COP	6,00/2,08	6,00/2,08	6,00/2,08
Heating capacity / COP [1] (A -7 °C, W 35 °C)		kW / COP	5,60/2,84	5,60/2,84	5,60/2,84
Heating capacity / COP [1] (A -7 °C, W 55 °C)		kW / COP	5,30/1,91	5,30/1,91	5,30/1,91
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency [2]	SCOP (η_s %)	4,00/3,20 (157/125)	4,00/3,20 (157/125)	4,00/3,20 (157/125)
	Energy class [3]	A+++ to D	A++/A++	A++/A++	A++/A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency [2]	SCOP (η_s %)	5,69/3,69 (224/145)	5,69/3,69 (224/145)	5,69/3,69 (224/145)
	Energy class [3]	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency [2]	SCOP (η_s %)	3,61/2,80 (141/109)	3,61/2,80 (141/109)	3,61/2,80 (141/109)
	Energy class [3]	A+++ to D	A+/A+	A+/A+	A+/A+
Sound pressure [4]	Heat	dB(A)	28	28	28
Dimension / Net weight	H x W x D	mm / kg	1880 x 598 x 600 / 108	1882 x 599 x 602 / 107	1882 x 599 x 602 / 107
Electric backup heater		kW	3,00	3,00	3,00
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Heating water flow (ΔT=5 K. 35 °C)		L/min	22,90	22,90	22,90
Tapping profile according EN16147			L	L	L
DHW tank ERP efficiency average / warm / cold [5] [6]		A+ to F	A/A+/A	A/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW [5]		ηwh%/COPdHW	104/2,60	104/2,60	104/2,60
DHW tank ERP warm climate η / COPdHW [5]		ηwh%/COPdHW	134/3,35	134/3,35	134/3,35
DHW tank ERP cold climate η / COPdHW [5]		ηwh%/COPdHW	92/2,30	92/2,30	92/2,30
Heat recovery capacity (DHW 55 °C)		kW	7,10+9,00	7,10+9,00	7,10+9,00
Heat recovery input power (DHW 55 °C)		kW	3,15	3,15	3,15
Heat recovery COP (DHW 55 °C)			5,11	5,11	5,11
Water outlet		°C	20~55	20~55	20~55
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12.70)	3/8 (9.52) / 5/8 (15.88)	3/8 (9.52) / 5/8 (15.88)
Water pipe diameter	Room / DHW	Inch (mm)	1 1/4 / 3/4	1 1/4 / 3/4	1 1/4 / 3/4

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER & SCOP data measurement is measured at condition according to EN 14825. 3) Scale from A+++ to D. 4) The sound pressure and power is measured under cooling mode (outdoor 35 °C DB, indoor 27 °C/19 °C) and heating mode (outdoor 7 °C/6 °C, indoor 20 °C DB). Sound pressure is measured with distance 1,0 m from the unit and height at 1,5 m. 5) Tank DHW tapping COP is measured under condition according to EN 16147. 6) Scale from A+ to F.

CONEX wired remote controller, white.
CZ-RTC6W/BL/BLW2

CONEX wired remote controller, black.
CZ-RTC6/BL/BLW2



Aquarea EcoFleX hide-away	Indoor unit	Cooling capacity	Heating capacity	External static pressure [1]	Sound pressure [2]	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
		kW	kW	Pa	dB(A)	mm / kg	Inch (mm)
7,1 kW	S-71WF3E	7,10	7,10	10 - 150	34/26/- — 34/26/-	250 x 1000 x 730/30	1/4 (6,35) / 1/2 (12,70)

Optional wireless control kit.
CZ-RL511D

NEW! Low static pressure hide-away	Indoor unit	Cooling capacity	Heating capacity	External static pressure [1]	Sound pressure [2]	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
		kW	kW	Pa	dB(A)	mm / kg	Inch (mm)
2,0 kW	CS-MZ20CD3EA	2,00	2,80	15 - 45	34/29/26 — 36/29/26	200 x 750 x 640/19	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-Z25CD3EAW	2,50	3,20	15 - 45	35/29/26 — 37/29/26	200 x 750 x 640/19	1/4 (6,35) / 3/8 (9,52)
3,5 kW	CS-Z35CD3EAW	3,50	4,00	15 - 45	35/29/26 — 37/29/26	200 x 750 x 640/19	1/4 (6,35) / 3/8 (9,52)
5,0 kW	CS-Z50CD3EAW	5,00	6,00	15 - 50	41/31/28 — 41/32/29	200 x 750 x 640/19	1/4 (6,35) / 3/8 (9,52)
6,0 kW	CS-Z60CD3EAW	6,00	7,50	15 - 50	41/32/29 — 43/34/31	200 x 750 x 640/19	1/4 (6,35) / 1/2 (12,70)

Optional wired remote controller.
CZ-RD517C

NEW! Wall-mounted Etherea	Indoor unit graphite grey	Indoor unit silver	Indoor unit matt white	Cooling capacity	Heating capacity	Sound pressure [3]	Dimension / Net weight	Piping diameter
						Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
				kW	kW	dB(A)	mm / kg	Inch (mm)
1,6 kW	—	—	CS-MZ16CKE	1,60	2,30	37/26/21— 38/27/21	295 x 870 x 229/10	1/4 (6,35) / 3/8 (9,52)
2,0 kW	CS-XZ20CKEW-H	CS-XZ20CKEW	CS-Z20CKEW	2,00	2,80	37/26/21 — 38/27/21	295 x 870 x 229/10	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-XZ25CKEW-H	CS-XZ25CKEW	CS-Z25CKEW	2,50	3,20	41/27/21 — 41/29/21	295 x 870 x 229/10	1/4 (6,35) / 3/8 (9,52)
3,5 kW	CS-XZ35CKEW-H	CS-XZ35CKEW	CS-Z35CKEW	3,50	4,00	44/30/21 — 45/35/21	295 x 870 x 229/11	1/4 (6,35) / 3/8 (9,52)
4,2 kW	CS-XZ42CKEW-H	—	CS-Z42CKEW	4,20	4,90	44/33/27 — 45/37/31	295 x 870 x 229/10	1/4 (6,35) / 3/8 (9,52)
5,0 kW	—	CS-XZ50CKEW	CS-Z50CKEW	5,00	6,00	44/39/32 — 46/39/32	295 x 1040 x 244/12	1/4 (6,35) / 3/8 (9,52)
7,1 kW	—	—	CS-Z71CKEW	7,10	7,70	49/40/32 — 49/40/32	295 x 1040 x 244/13	1/4 (6,35) / 1/2 (12,70)

1) The specification listed on the table indicates values under the condition of 25 Pa (2,5 mmAq) which are applied for factory default setting. Change switch on PCB from Hi to S-Hi to have more than 6,0 mmAq. 2) The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit with 1 m duct on the suction side and 2 m duct on the discharge side. The sound pressure is measured in accordance with JIS C 9612. 3) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed.

Possible outdoor / indoor units combinations

Rooms	Outdoor unit	Indoor capacity connected (Min - Max)	Aquarea EcoFleX hide-away	Low static pressure hide-away					Wall-mounted Etherea						
			71	20	25	35	50	60	16	20	25	35	42	50	71
1	CU-2WZ71YBE5	—~7,10 kW	✔												
1	CU-4WZ90CBE5	— ~ 7,10 kW	✔ [1]												
2 ~ 3	CU-4WZ90CBE5	3,20 ~ 11,00 kW	✔ [1]	✔	✔	✔	✔ [2]	✔	✔	✔	✔	✔	✔ [2]	✔ [2]	✔ [3]

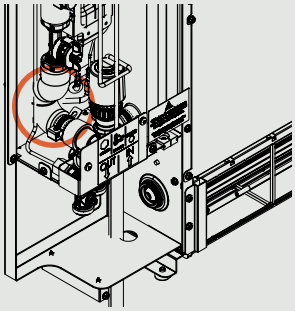
1) Pipe reducer CZ-MA2PA required. 2) Pipe reducer CZ-MA1PA required. 3) Pipe reducer CZ-MA2PA and CZ-MA3PA required.

Aquarea Loop: Efficient radiator retrofit for centralised heating with integrated cooling

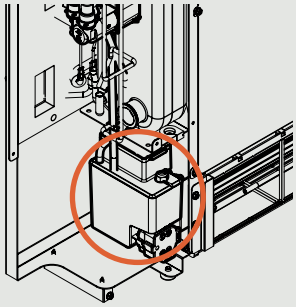
The Aquarea Loop is a decentralised water-to-air heat pump using natural refrigerant R290, designed to replace radiators in centralised heating systems.

Choice of pre-installed hydraulic options available.

2 and 3 way valves with modulation.



Injection kit.



If it is not possible to pipe away condensation, it is possible to reinject it into the system thanks to an optional kit which can be installed inside of the unit.

Aquarea Loop · R290

- Compact indoor unit – only 140 mm depth
- DC Inverter compressor with natural refrigerant R290
- Simultaneous heating and cooling capability
- Low temperature water loop (20 - 30 °C) all year round
- Use of existing piping for renovations*
- Integrated unit-level energy metering

*Based on the low flow rate requirement – must be checked on each project.

Model (the complete model codes are shown in the table below)			P-CWSL10	P-CWSL20	P-CWSL30
Cooling capacity [1]	Nominal (Min - Max)	kW	1,10 (0,20 - 1,20)	1,50 (0,30 - 1,70)	2,60 (0,60 - 3,00)
EER		W/W	4,40	4,80	4,80
SEER [2]			**5,50**	**6,10**	**7,90**
Input power [1]		kW	0,2	0,3	0,5
Heating capacity [3]	Nominal (Min - Max)	kW	1,10 (0,40 - 1,40)	2,00 (0,40 - 2,30)	3,10 (0,80 - 3,60)
COP		W/W	5,20	5,40	5,90
SCOP [2]			**6,44**	**6,92**	**6,74**
Input power [3]		kW	0,2	0,4	0,5
Ventilation					
Ventilation speeds			4	4	4
Air flow	Min / Ave / Max	m³/h	50 / 105 / 160	100 / 205 / 330	175 / 305 / 500
Electrical data					
Power supply	Voltage	V	230	230	230
	Phase		Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50
Maximum input current		mA	1,74	3,87	5,01
Maximum consumption		kW	0,40	0,89	1,15
Sound levels					
Sound power [4]	Max	dB(A)	48	50	52
Sound pressure [5]	Min / Nom / Max	dB(A)	28 / 33 / 40	29 / 34 / 42	31 / 35 / 44
Hydraulic data					
Connection type			Eurokonus	Eurokonus	Eurokonus
Hydraulic connections		Inch	¾	¾	¾
Water flow rate	Heating / Cooling	L/min	3,7 / 4,5	7,7 / 5,2	12,0 / 9,0
Nominal pressure drop	Heating / Cooling	kPa	6,80 / 4,80	11,20 / 5,40	12,50 / 7,50
Nominal pressure drop with flow control valve	Heating / Cooling	kPa	7,80 / 5,40	14,20 / 6,70	20,50 / 11,80
Refrigerant (R290)		kg	0,10	0,14	0,15
Dimension and weight					
Dimension / Net weight	H x W x D	mm / kg	641 x 775 x 144 / 135	641 x 975 x 144 / 140	641 x 1225 x 144 / 145
Operating range and water outlet					
Operating range - indoor air	Heating / Cooling	°C	5 ~ 27 / 18 ~ 35	5 ~ 27 / 18 ~ 35	5 ~ 27 / 18 ~ 35
Water outlet	Heating / Cooling	°C	10 ~ 45 / 15 ~ 50	10 ~ 45 / 15 ~ 50	10 ~ 45 / 15 ~ 50

1) Loop water temperature 30 °C - Ambient air temperature 27 °C, indoor humidity 38% - Performance according to EN 14511. 2) SEER and SCOP in accordance with EN 14825. 3) Ring water temperature 20 °C - Ambient air temperature 20 °C, indoor humidity 50% - Performance according to EN 14511. 4) Sound power measured according to EN 16583. 5) Sound pressure at a distance of 1 m measured according to ISO 7779.

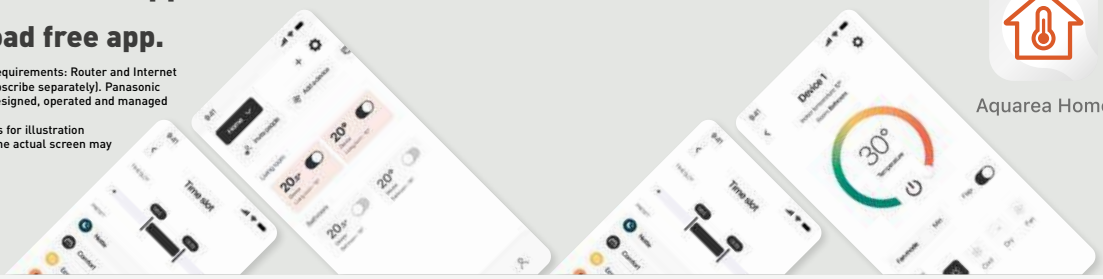
Aquarea Loop with on-board display				
Hydraulic configuration	Without valves	**P-CWSL10SC5-HCE**	**P-CWSL20SC5-HCE**	**P-CWSL30SC5-HCE**
	Without valves + injection kit	**P-CWSL10SC5-HFE**	**P-CWSL20SC5-HFE**	**P-CWSL30SC5-HFE**
	2 and 3 way valve with modulation	**P-CWSL10SC5-HBE**	**P-CWSL20SC5-HBE**	**P-CWSL30SC5-HBE**
	2 and 3 way valve with modulation + injection kit	**P-CWSL10SC5-HEE**	**P-CWSL20SC5-HEE**	**P-CWSL30SC5-HEE**

Aquarea Loop with on-board display with integrated Wi-Fi				
Hydraulic configuration	Without valves	**P-CWSL10SC5-WCE**	**P-CWSL20SC5-WCE**	**P-CWSL30SC5-WCE**
	Without valves + injection kit	**P-CWSL10SC5-WFE**	**P-CWSL20SC5-WFE**	**P-CWSL30SC5-WFE**
	2 and 3 way valve with modulation	**P-CWSL10SC5-WBE**	**P-CWSL20SC5-WBE**	**P-CWSL30SC5-WBE**
	2 and 3 way valve with modulation + injection kit	**P-CWSL10SC5-WEE**	**P-CWSL20SC5-WEE**	**P-CWSL30SC5-WEE**

Aquarea Home App

Download free app.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Panasonic Cloud Server is designed, operated and managed by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Aquarea Home

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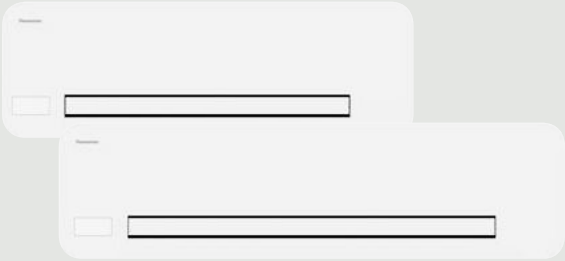
Aquarea Air Smart fan coils have a minimal visual impact and can be elegantly integrated into any home or office environment, adapting to any type of furniture.

Designed to provide both heating and cooling in one compact unit, they maximise energy savings when combined with an Aquarea Heat Pumps.

- **SLIM, SOPHISTICATED DESIGN WITH METAL CASING**
- **SELF-MODULATING AIRFLOW (PI LOGIC) AND DC INVERTER FAN MOTOR**
- **WIDE RANGE WITH MULTIPLE CONFIGURATION OPTIONS**
- **ADVANCED CONTROL AND CONNECTIVITY OPTIONS**

Aquarea Air Smart fan coil – Floor standing.
Even narrower and thinner fan coils.

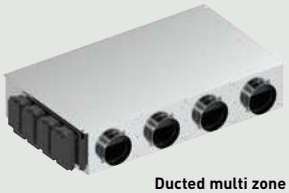
Aquarea Air Smart fan coil – Wall-mounted.
The thinnest and most quietest in its class.



Aquarea Air Smart fan coil – Ducted / ducted multi zone.
Thin version with only 185 mm height.
Integrated multi zone management (2-5 zones, with the multi zone line-up).

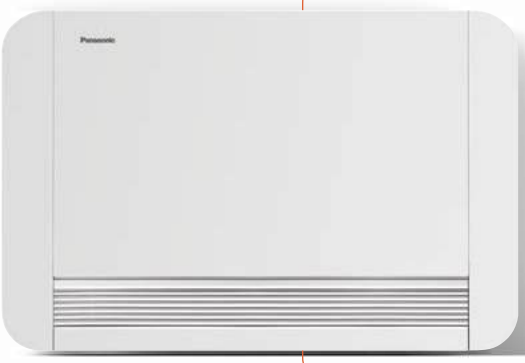
Ducted

Ducted thin



Ducted multi zone

Ducted multi zone thin



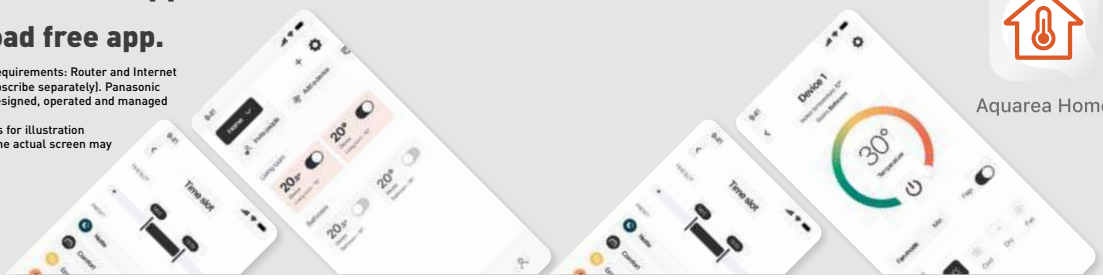
Self-modulated air flow control by the unit.

The fan speed is no longer "stepped" but continuously modulated with proportional and integrative logic: this reduces both noise and annoying air movements.

Aquarea Home App

Download free app.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Panasonic Cloud Server is designed, operated and managed by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Aquarea Home

Aquarea Air Smart fan coil – Floor standing

Slim chassis profile, only 129 mm / RAL 9003 / DC Inverter – maximising comfort and energy savings / Modulated air flow.
Possible configurations: Left or right water connections / 2 or 3 way valves as accessories / On-board or wall mounted control or PCB for analog input (0-10 V)

Optional

Model (the complete model codes are shown in the table below)			P-FAL10	P-FAL20	P-FAL30	P-FAL35	P-FAL40
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
Total cooling capacity [2]		kW	0,43/0,73/0,91	0,75/1,36/2,12	1,15/2,08/2,81	1,32/2,39/3,30	1,36/2,57/3,71
Sensible capacity [2]		kW	0,29/0,51/0,71	0,59/1,04/1,54	0,83/1,51/2,11	1,02/1,84/2,65	1,05/1,98/2,90
Water flow [2]		l/h	73,67/125,07/155,91	128,50/233,01/363,22	197,03/356,36/481,43	226,15/409,48/565,39	—
Water pressure drop [2] [3]		kPa	5,7/10,2/12,1	1,9/4,3/8,2	2,7/9,9/17,1	2,5/8,8/18,0	—
Heating capacity [4]		kW	0,37/0,69/1,00	0,82/1,50/2,19	1,19/2,15/2,99	1,45/2,56/3,73	1,47/2,78/4,23
Water flow [4]		l/h	65,11/120,91/179,87	144,60/269,80/389,71	211,61/380,89/532,55	259,22/456,72/671,86	—
Water pressure drop [3] [4]		kPa	2,6/6,8/9,1	1,5/4,3/9,2	2,7/9,3/19,1	3,0/8,9/21,2	—
Sound levels							
Sound power		dB(A)	37/47/54	37/47/54	37/47/57	37/47/55	37/48/58
Sound pressure [5]		dB(A)	24/33/41	25/34/42	26/34/44	26/35/46	28/38/47
Ventilation							
Number of fans			1	1	1	1	1
Air flow		m³/h	49/91/146	124/210/294	194/318/438	302/410/567	364/479/663
Maximum static pressure		Pa	10	10	13	13	13
Electrical data							
Power supply	V / Phase / Hz	V	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Consumption		W	7,0/9,0/13,0	14,0/18,0/22,0	16,0/20,0/24,0	18,0/22,0/26,5	—
Water connections							
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections		Inch	¾	¾	¾	¾	¾
Dimension and weight							
Dimension / Weight	H x W x D	mm / kg	579 x 680 x 129 / 17	579 x 880 x 129 / 20	579 x 1080 x 129 / 23	579 x 1280 x 129 / 26	579 x 1480 x 129 / 29

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A).

Option 1. Standard configurations with built-in accessories

Fan coil with on-board display		
Left-hand piping, vertical installation, built-in 3 way valve		
P-FAL10SC-HLE		
P-FAL20SC-HLE		
P-FAL30SC-HLE		
P-FAL35SC-HLE		
P-FAL40SC-HLE		
Fan coil with wall-mounted control		
Left-hand piping, vertical installation, built-in 3 way valve		
P-FAL10SC-RLE		
P-FAL20SC-RLE		
P-FAL30SC-RLE		
P-FAL35SC-RLE		
P-FAL40SC-RLE		
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**

Option 2. Configure your own Aquarea Air Smart fan coil – Floor standing unit

Left-hand piping	Right-hand piping
P-FAL10SC-00E	**P-FAL10DC-00E**
P-FAL20SC-00E	**P-FAL20DC-00E**
P-FAL30SC-00E	**P-FAL30DC-00E**
P-FAL35SC-00E	**P-FAL35DC-00E**
P-FAL40SC-00E	**P-FAL40DC-00E**

Control options (required)	On-board display	With Modbus	**PCZ-ECA844**
		With integrated Wi-Fi	**PCZ-EWA844**
	Wall-mounted control	With Modbus	**PCZ-ESE845 + PCZ-EEB749**
		With integrated Wi-Fi	**PCZ-ESE845 + PCZ-EFB749**
	PCB for analog control (0-10 V)		**PCZ-B10842**
Valve kits (optional)	3 way valve with motor		**PCZ-V30720**
	2 way valve with motor		**PCZ-V20139**
Condensate drip tray for horizontal installation (optional)	For P-FAL10		**PCZ-GB0520**
	For P-FAL20		**PCZ-GB0521**
	For P-FAL30		**PCZ-GB0522**
	For P-FAL35		**PCZ-GB0523**
	For P-FAL40		**PCZ-GB0524**

Accessories and options	
PCZ-LC0158	Set of 2 legs to protect water pipes

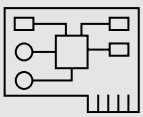
Accessories and options	
PCZ-LC0606	Set of 2 legs to anchor the unit to the floor

Control options.

On-board display with Modbus or integrated Wi-Fi.

Wall-mounted control with Modbus or integrated Wi-Fi.
PCZ-EEB749 / PCZ-EFB749

PCB for analog control (0-10 V).
PCZ-B10842



Optional

Aquarea Air Smart fan coil – Wall-mounted

Slim chassis profile, only 128 mm / RAL 9003 / DC Inverter – maximising comfort and energy savings / Modulated air flow. **Possible configurations:** Left or right water connections / 2 or 3 way valves as accessories / On-board or wall mounted control or PCB for analog input (0-10 V)

Model (the complete model codes are shown in the table below)			P-FMM10	P-FMM15	P-FMM20	P-FMM40
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
Total cooling capacity [2]		kW	0,49/0,88/1,24	0,62/1,08/1,61	0,70/1,21/1,94	1,32/2,66/3,94
Sensible capacity [2]		kW	0,37/0,70/0,98	0,52/0,86/1,27	0,57/1,02/1,52	1,08/2,05/2,92
Water flow [2]		l/h	84,00/150,80/212,40	106,20/185,00/275,80	119,90/207,30/332,40	226,40/455,30/674,30
Water pressure drop [2]		kPa	4,8/10,5/11,7	4,7/5,6/5,1	5,5/5,4/5,3	1,8/6,0/12,1
Heating capacity [3]		kW	0,54/0,98/1,45	0,76/1,30/1,93	0,78/1,49/2,28	1,63/3,04/4,44
Water flow [3]		l/h	97,00/176,30/264,50	139,30/239,80/354,40	141,10/273,30/414,40	296,40/547,00/800,90
Water pressure drop [3]		kPa	5,1/12,0/16,3	4,8/6,3/7,2	6,0/6,4/8,1	2,3/6,9/14,1
Sound levels						
Sound power		dB(A)	35/46/53	36/47/54	37/48/58	38/48/62
Sound pressure [4]		dB(A)	25/33/40	25/34/41	26/34/42	27/37/51
Ventilation						
Air flow		m³/h	84/155/228	124/229/331	138/283/440	230/480/788
Electrical data						
Power supply	V / Phase / Hz	V	230/1/50	230/1/50	230/1/50	230/1/50
Consumption		W	5/8/19	5/9/20	5/11/29	8/23/30
Water connections						
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections		Inch	¾	¾	¾	¾
Dimension and weight						
Dimension / Weight	H x W x D	mm / kg	335 x 815 x 128/14	335 x 1015 x 128/16	335 x 1215 x 128/19	335 x 1215 x 215/24

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A).

Option 1. Standard configurations with built-in accessories

Fan coil with on-board display and wireless IR control		
Right-hand piping, built-in 3 way valve		
P-FMM10DC-QNE		
P-FMM15DC-QNE		
P-FMM20DC-QNE		
P-FMM40DC-QNE		

Fan coil with wall-mounted control		
Right-hand piping, built-in 3 way valve		
P-FMM10DC-RNE		
P-FMM15DC-RNE		
P-FMM20DC-RNE		
P-FMM40DC-RNE		
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**

Valve kits (optional)	
PCZ-V30688	3 way valve with motor for models 10, 15, 20
PCZ-V30718	3 way valve with motor for model 40

Option 2. Configure your own Aquarea Air Smart fan coil – Wall-mounted unit

Fan coil with on-board display and wireless IR control		
Left-hand piping	Right-hand piping	
P-FMM10SC-Q0E	**P-FMM10DC-Q0E**	
P-FMM15SC-Q0E	**P-FMM15DC-Q0E**	
P-FMM20SC-Q0E	**P-FMM20DC-Q0E**	
—	**P-FMM40DC-Q0E**	

Fan coil with wall-mounted control		
Left-hand piping	Right-hand piping	
P-FMM10SC-R0E	**P-FMM10DC-R0E**	
P-FMM15SC-R0E	**P-FMM15DC-R0E**	
P-FMM20SC-R0E	**P-FMM20DC-R0E**	
—	**P-FMM40DC-R0E**	
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**

Fan coil with PCB for analog control (0-10 V)	
Left-hand piping	Right-hand piping
P-FMM10SC-V0E	**P-FMM10DC-V0E**
P-FMM15SC-V0E	**P-FMM15DC-V0E**
P-FMM20SC-V0E	**P-FMM20DC-V0E**
—	**P-FMM40DC-V0E**

Valve kits (optional)	
PCZ-V20687	2 way valve with motor for models 10, 15, 20
PCZ-V20139	2 way valve with motor for model 40

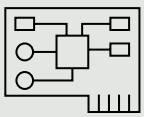
Control options.

On-board display with Modbus.

Wall-mounted control with Modbus or integrated Wi-Fi.

PCZ-EEB749 / PCZ-EFB749

PCB for analog control (0-10 V).



Aquarea Air Smart fan coil – Ducted thin / ducted

Fan coil ducted units with cooling and heating.
Cooling capacity: 0,7 to 5,3 kW.
Heating capacity: 0,7 to 5,8 kW.

Optional controller. Wall-mounted control with Modbus.
PCZ-EEB749

Optional controller. Wall-mounted control with integrated Wi-Fi.
PCZ-EFB749

Optional controller. PCB for analog control (0-10 V).

CHECK PAGE 135 FOR A WIDER SELECTION OF ACCESSORIES

The range at a glance

- Slim profile, only 185 mm for the thin version
- DC Inverter – maximising comfort and energy savings
- Modulated air flow
- Quiet operation
- Centrifugal fan with single motor impeller
- Vertical or horizontal installation

Possible configurations

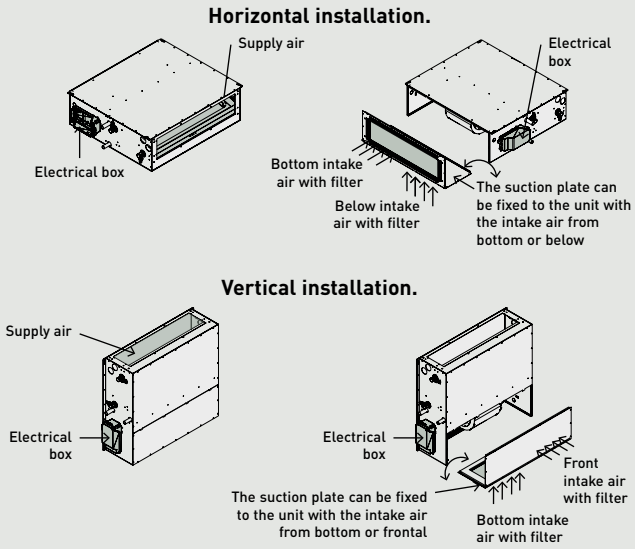
- Left or right water connections
- 2 or 3 way valves as accessories
- Wall-mounted control or PCB for analog input (0-10 V)

High-efficiency ducted fan coil for high comfort and quiet operation thanks to self modulating air flow control.

Ducted thin, designed to fit any space

With a height of only 185 mm, the thin version is even more versatile than the classic version and fits perfectly into any wall or false ceiling with either horizontal or vertical installation.

High installation flexibility.



Technical performance

			Ducted thin					Ducted				
Model (the complete model codes are shown in the table below)			**P-FTN15**	**P-FTN20**	**P-FTN25**	**P-FTN35**	**P-FTN45**	**P-FSN20**	**P-FSN25**	**P-FSN35**	**P-FSN45**	**P-FSN55**
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
Total cooling capacity [2]		kW	0,66/1,14/1,40	1,01/1,84/2,10	1,23/2,17/2,60	1,47/2,40/3,30	1,72/2,80/4,45	0,82/1,37/1,88	1,27/1,86/2,14	1,53/2,38/2,97	1,81/3,22/3,48	1,82/3,97/5,31
Sensible capacity [2]		kW	0,46/0,84/1,05	0,70/1,27/1,50	0,88/1,56/2,10	1,06/1,77/2,45	1,23/2,33/3,20	0,61/0,96/1,48	0,93/1,43/1,56	1,17/1,98/2,92	1,33/2,58/2,95	1,33/2,75/3,65
Water flow [2]		l/h	113/195/270	173/315/405	211/373/510	251/412/610	295/481/805	141/235/322	218/319/367	262/408/509	310/552/596	312/680/910
Water pressure drop [2] [3]		kPa	1,0/3,0/5,0	2,0/5,0/8,0	4,0/10,0/17,0	2,0/5,0/11,0	2,0/6,0/14,0	9,2/11,8/15,7	9,9/14,9/19,4	2,4/2,8/2,9	9,0/12,6/14,6	4,1/16,1/27,2
Heating capacity [4]		kW	0,68/1,32/1,65	1,01/1,80/2,10	1,32/2,32/2,86	1,63/2,76/3,71	1,89/3,98/5,20	0,9/1,48/1,98	1,36/2,04/2,54	1,81/2,63/3,45	1,96/3,77/4,46	1,95/4,23/5,73
Water flow [4]		l/h	115/222/310	170/303/440	235/410/540	288/486/730	329/692/880	159/261/349	239/360/448	319/464/608	346/665/787	347/754/1025
Water pressure drop [3] [4]		kPa	1,0/3,0/6,0	2,0/5,0/9,0	4,0/11,0/18,0	2,0/6,0/13,0	3,0/10,0/15,0	51/12,0/16,3	10,3/15,6/21,5	2,6/2,8/2,9	9,2/15,6/18,4	4,0/16,4/29,3
Sound levels												
Sound power		dB(A)	42/47/53	44/51/58	45/52/58	46/54/60	47/54/61	46/54/58	46/54/58	46/54/57	47/55/58	48/55/60
Ventilation												
Number of fans			1	1	2	2	3	1	1	2	2	3
Air flow		m³/h	90/200/290	140/290/390	190/390/550	230/450/680	250/610/870	120/260/390	180/350/560	240/440/730	260/550/905	280/750/1150
Maximum static pressure		Pa	100	90	120	110	140	90	130	110	140	140
Electrical data												
Power supply	Voltage	V	230	230	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
Consumption		W	14/32/80	22/55/140	26/65/160	33/80/160	38/115/230	6/11/24	7/14/31	8/16/34	13/30/38	14/42/85
Degree of protection		IP	X0	X0	X0	X0	X0	X0	X0	X0	X0	X0
Connections												
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections		Inch	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾
Condensate drainage connection		mm	20	20	20	20	20	20	20	20	20	20
Intake air connection	Base x Height	mm	460 x 100	660 x 100	860 x 100	1060 x 100	1320 x 100	460 x 150	660 x 150	860 x 150	1060 x 150	1320 x 150
Return air connection	Base x Height	mm	510 x 100	710 x 100	910 x 100	1110 x 100	1370 x 100	510 x 150	710 x 150	910 x 150	1110 x 150	1370 x 150
Dimension and weight												
Dimension	H x W x D	mm	185 x 590 x 575	185 x 790 x 575	185 x 990 x 575	185 x 1190 x 575	185 x 1440 x 575	240 x 590 x 695	240 x 790 x 695	240 x 990 x 695	240 x 1190 x 695	240 x 1440 x 695
Weight		kg	30	41	45	54	65	32	43	47	56	67

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.

Configure your own Aquarea Air Smart fan coil – Ducted thin / ducted unit

Fan coil with wall-mounted control		
Left-hand piping	Right-hand piping	
P-FTN15005-RE	**P-FTN15R05-RE**	
P-FTN20005-RE	**P-FTN20R05-RE**	
P-FTN25005-RE	**P-FTN25R05-RE**	
P-FTN35005-RE	**P-FTN35R05-RE**	
P-FTN45005-RE	**P-FTN45R05-RE**	
P-FSN20005-RE	**P-FSN20R05-RE**	
P-FSN25005-RE	**P-FSN25R05-RE**	
P-FSN35005-RE	**P-FSN35R05-RE**	
P-FSN45005-RE	**P-FSN45R05-RE**	
P-FSN55005-RE	**P-FSN55R05-RE**	
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**

Fan coil with PCB for analog control (0-10 V)	
Left-hand piping	Right-hand piping
P-FTN15005-JE	**P-FTN15R05-JE**
P-FTN20005-JE	**P-FTN20R05-JE**
P-FTN25005-JE	**P-FTN25R05-JE**
P-FTN35005-JE	**P-FTN35R05-JE**
P-FTN45005-JE	**P-FTN45R05-JE**
P-FSN20005-JE	**P-FSN20R05-JE**
P-FSN25005-JE	**P-FSN25R05-JE**
P-FSN35005-JE	**P-FSN35R05-JE**
P-FSN45005-JE	**P-FSN45R05-JE**
P-FSN55005-JE	**P-FSN55R05-JE**

Valve kits (optional)	
PCZ-V30361	3 way valve with motor

Valve kits (optional)	
PCZ-V20139	2 way valve with motor

Aquarea Air Smart fan coil – Ducted multi zone thin / ducted multi zone

Fan coil ducted units with cooling and heating.
Cooling capacity: 0,5 to 7,6 kW.
Heating capacity: 0,5 to 8,52 kW.

Optional controller. Wall-mounted control with Modbus.
PCZ-EEB749

Optional controller. Wall-mounted control with integrated Wi-Fi.
PCZ-EFB749

Optional controller. PCB for analog control (0-10 V).

CHECK PAGE 138 FOR A WIDER SELECTION OF ACCESSORIES

The range at a glance

- Multi zone management (2-5 zones)
- Slim profile, only 185 mm for the thin version
- DC Inverter – maximising comfort and energy savings
- Modulated air flow
- Quiet operation
- Centrifugal fan with single motor impeller

Possible configurations

- Left or right water connections
- 2 or 3 way valves as accessories
- Wall-mounted control or PCB for analog input (0-10 V)

The ducted Smart fan coil unit with integrated multi zone management.

High installation flexibility.

Single air outlet per zone.

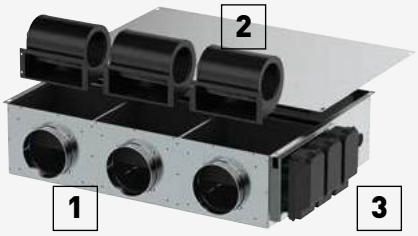
Example:
3 air outlets for 3 independent zones.

Multiple air outlets per zone.

Example:
3 air outlets for 2 independent zones.
Zone 1 with dual channel.
Zone 2 with single channel.

Multi zone management

Thanks to integrated multi zone management and the use of forward-bladed centrifugal brushless EC multi-fans, the fan coil ducted multi zone allow independent management of the different thermal zones, resulting in benefits in terms of efficiency, comfort and quietness.

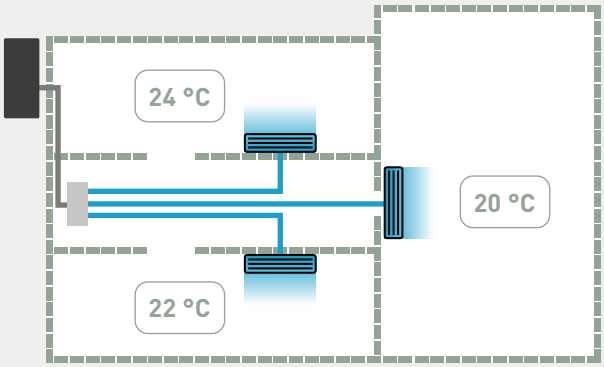


1 | **Air supply plate.**
Built-in air supply plate, number of outlets depending on unit size.

- P-FTQ30/P-FSQ30: 2 outlets DN 160 mm
- P-FTQ45/P-FSQ45: 3 outlets DN 160 mm
- P-FTQ60/P-FSQ60: 4 outlets DN 160 mm
- P-FTQ65/P-FSQ75: 5 outlets DN 160 mm

2 | **Fans.**
Integrated multi-fans for independent management of the different zones.

3 | **Horizontal condensate tray.**
Allows the collection of condensate if the unit is installed horizontally.



Technical performance

			Ducted multi zone thin				Ducted multi zone			
Model (the complete model codes are shown in the table below)			**P-FTQ30**	**P-FTQ45**	**P-FTQ60**	**P-FTQ65**	**P-FSQ30**	**P-FSQ45**	**P-FSQ60**	**P-FSQ75**
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
Total cooling capacity [2]		kW	1,10/1,97 /3,02	1,16/2,97 /4,40	2,02/3,68 /5,70	2,09/4,15 /6,40	0,47/3,80 /3,23	0,66/3,77 /4,57	0,85/4,87 /5,88	1,06/6,31 /7,61
Sensible capacity [2]		kW	0,76 /1,37 /2,15	0,79/2,09 /3,16	1,45/2,67 /4,10	1,61/3,08 /4,60	0,33/2,70 /2,22	0,48/2,62 /3,16	0,63/3,40 /4,10	0,78/4,32 /5,20
Single zone cooling capacity [2]		kW	0,49/1,30 /1,70	0,49/1,30 /1,70	0,49/1,30 /1,70	0,49/1,30 /1,70	—/—/2,10	—/—/2,10	—/—/2,10	—/—/2,10
Single zone sensible capacity [2]		kW	0,31/0,89 /1,23	0,31/0,89 /1,23	0,31/0,89 /1,23	0,31/0,89 /1,23	—/—/1,50	—/—/1,50	—/—/1,50	—/—/1,50
Water flow [2]		l/h	190/338 /530	200/510 /800	346/630 /1030	358/713 /1220	80/651 /553	113/647 /782	146/834 /1008	182,3/1081 /1304
Water pressure drop [2] [3]		kPa	4,0/11,0/22,0	2,0/9,0/18,0	3,0/9,0/18,0	1,0/4,0/9,0	1,8/29,0/54,1	1,2/25,7/36,4	1,0/20,2/28,5	1,6/37,3/52,6
Heating capacity [4]		kW	1,15/2,11 /3,30	1,71/3,19 /4,90	-/5,76/6,30	2,67/4,75 /7,65	0,45/3,90 /3,61	0,68/4,16 /5,08	0,90/5,42 /6,59	1,13/6,87 /8,37
Single zone heating capacity [4]		kW	0,42/1,29 /1,85	0,42/1,29 /1,85	0,42/1,29 /1,85	0,42/1,29 /1,85	—/—/2,20	—/—/2,20	—/—/2,20	—/—/2,20
Water flow [4]		l/h	200/368 /560	296/554 /800	391/699 /1110	464/826 /1305	80/688 /636	120/748 /914	159/975 /1189	199/1230 /1502
Water pressure drop [3] [4]		kPa	4,0/13,0/25,0	3,0/10,0/19,0	3,0/10,0/18,0	2,0/5,0/10,0	1,4/29,0/61,2	1,1/28,9/42,3	0,9/23,1/33,7	1,5/41,4/60,6
Sound levels										
Sound power		dB(A)	40/49/58	42/50/59	42/52/61	43/53/62	—/—/60	—/—/61	—/—/62	—/—/64
Ventilation										
Number of fans			2	3	4	5	2	3	4	5
Air flow		m³/h	145/290 /480	215/435 /720	288/576 /960	360/720 /1200	60/600 /810	90/900 /1215	120/1200 /1620	150/1500 /2025
Single zone air flow		m³/h	50/160/240	50/160/240	50/160/240	50/160/240	60/205/300	60/205/300	60/205/300	60/205/300
Maximum static pressure		Pa	100	100	100	100	100	100	100	100
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Consumption		W	31/66/130	45/102/195	61/135/260	76/162/325	53/140/178	159/420/534	212/560/712	265/700/890
Degree of protection		IP	X0	X0	X0	X0	X0	X0	X0	X0
Connections										
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections		Inch	¾	¾	¾	¾	¾	¾	¾	¾
Condensate drainage connection		mm	20	20	20	20	20	20	20	20
Intake air connection		mm	160	160	160	160	160	160	160	160
Return air connection	Base x Height	mm	630 x 100	830 x 100	1030 x 100	1320 x 100	630 x 150	830 x 150	1030 x 150	1320 x 150
Dimension and weight										
Dimension	H x W x D	mm	185 x 790 x 575	185 x 990 x 575	185 x 1190 x 575	185 x 1440 x 575	240 x 790 x 695	240 x 990 x 695	240 x 1190 x 695	240 x 1440 x 695
Weight		kg	41	45	54	56	43	47	56	67

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.

Configure your own Aquarea Air Smart fan coil – Ducted multi zone thin / ducted multi zone unit

Fan coil with wall-mounted control		
Left-hand piping	Right-hand piping	
P-FTQ30005-RE	**P-FTQ30R05-RE**	
P-FTQ45005-RE	**P-FTQ45R05-RE**	
P-FTQ60005-RE	**P-FTQ60R05-RE**	
P-FTQ65005-RE	**P-FTQ65R05-RE**	
P-FSQ30005-RE	**P-FSQ30R05-RE**	
P-FSQ45005-RE	**P-FSQ45R05-RE**	
P-FSQ60005-RE	**P-FSQ60R05-RE**	
P-FSQ75005-RE	**P-FSQ75R05-RE**	
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**

Fan coil with PCB for analog control (0-10 V)	
Left-hand piping	Right-hand piping
P-FTQ30005-JE	**P-FTQ30R05-JE**
P-FTQ45005-JE	**P-FTQ45R05-JE**
P-FTQ60005-JE	**P-FTQ60R05-JE**
P-FTQ65005-JE	**P-FTQ65R05-JE**
P-FSQ30005-JE	**P-FSQ30R05-JE**
P-FSQ45005-JE	**P-FSQ45R05-JE**
P-FSQ60005-JE	**P-FSQ60R05-JE**
P-FSQ75005-JE	**P-FSQ75R05-JE**

Valve kits (optional)	
PCZ-V30361	3 way valve with motor

Valve kits (optional)	
PCZ-V20139	2 way valve with motor

Flex Air Smart fan coil – Wall-mounted DC fan – FK1

Fan coil wall units with new stylish design and nanoe™ X (Mark 3).
Cooling capacity: 1,9 to 5,2 kW.
Heating capacity: 2,2 to 5,3 kW.

Optional

nanoe™ X as a standard.

Optional controller. CONEX Series, white or black.
CZ-RTC6W/BL/BLW2 or
CZ-RTC6/BL/BLW2

Optional controller. Wired remote controller with Econavi function.
CZ-RTC5B

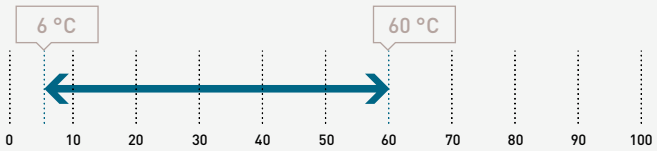
Optional controller. Infrared remote controller for wall-mounted.
CZ-RWS3

Optional controller. Wired remote controller.
PAW-FC-903EC

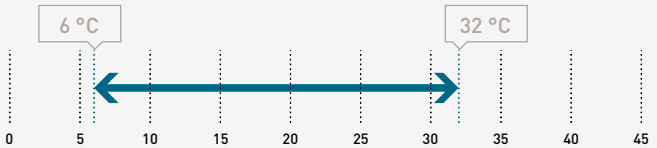
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



Maximum operating pressure: 10 bar.

The range at a glance

- Versions (2-pipes): with and without 3 way valve
- 6 sizes
- DC fan for better efficiency and control
- Air flow from 360 to 1045 m³/h
- nanoe™ X technology to improve protection 24/7
- G1 cleanable air filter
- S-Link available - compatible with Panasonic controllers

Advantages

- Ideal for commercial and residential applications in combination with Aquarea Heat Pumps
- Modern stylish design with flat face and compact size
- Inner and outer motorized louvers with five-step positions
- Six directional piping outlet to adapt to different installations
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Quieter operation than AC fan models
- Very easy servicing through a removable front panel
- Cleanable synthetic-type air filter
- Compatibility with a wide range of controllers

Accessories supplied loose
CZ-RWS3 – infrared remote controller
CZ-RTC5B – wired remote controller with Econavi function
CZ-RTC6W – CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL – CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6 – CONEX wired remote controller (non-wireless), black
CZ-RTC6BL – CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-CENSC1 – Econavi energy saving sensor
PAW-FC-903EC – wired remote controller
CZ-64ESMC3 – system controller for 64 indoor units
CZ-256ESMC3 – centralised controls up to 256 indoor units
CZ-ANC3 – central ON / OFF controller, up to 16 groups, 64 indoor units

Technical performance

Flex Air Smart fan coil – Wall-mounted DC fan - FK1		Standard model	S-19FK1E0	S-24FK1E0	S-27FK1E0	S-36FK1E0	S-45FK1E0	S-52FK1E0
		With 3 way valve	S-19FK1E	S-24FK1E	S-27FK1E	S-36FK1E	S-45FK1E	S-52FK1E
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes								
Total cooling capacity [2]		kW	1,40/1,65/1,90	1,92/2,17/2,41	2,02/2,51/2,73	2,65/3,11/3,61	3,02/3,78/4,50	4,03/4,63/5,23
Sensible capacity [2]		kW	1,10/1,35/1,54	1,50/1,71/1,91	1,59/2,00/2,19	2,12/2,52/2,98	2,25/2,84/3,41	3,04/3,51/4,02
Water flow [2]		l/h	250/295/342	344/389/432	362/449/489	473/556/648	539/680/809	724/830/908
Water pressure drop (coil only)		kPa	4/6/8	8/11/13	9/14/17	16/22/30	19/30/42	34/44/56
Water pressure drop (with 3 way valve) [2]		kPa	18/23/29	25/29/36	26/39/44	42/57/74	53/80/110	90/112/142
Air flow [2]		m³/h	230/276/345	324/361/416	343/434/480	462/572/710	488/603/753	637/753/879
Input power [2]		W	10/11/12	12/12/14	12/14/16	15/19/26	13/17/22	18/23/29
Sound pressure Lp [2] [3]		dB(A)	27	26	29	39	35	40
Sound power Lw [2]		dB(A)	40	39	42	49	47	52
Heating capacity [4]		kW	1,59/1,92/2,23	1,97/2,39/2,72	2,18/2,64/3,01	2,89/3,48/4,03	3,09/4,21/5,13	4,03/4,72/5,33
Water flow [4]		l/h	281/329/381	339/417/481	379/463/533	508/614/715	544/740/898	710/827/931
Water pressure drop (coil only)		kPa	5/8/10	8/12/16	10/15/20	18/27/36	19/36/52	33/44/56
Water pressure drop (with 3 way valve) [4]		kPa	18/24/30	23/31/39	25/36/47	42/60/72	46/82/118	74/97/128
Air flow [4]		m³/h	253/314/406	343/425/489	379/471/545	517/646/765	511/730/925	672/810/960
Input power [4]		W	10/12/13	12/14/15	13/15/17	16/21/28	14/21/32	19/26/35
Sound pressure Lp [3] [4]		dB(A)	24/27/29	22/26/29	23/28/32	30/36/41	28/36/42	34/39/43
Sound power Lw [4]		dB(A)	37/40/43	37/39/42	38/42/45	44/49/55	42/47/51	48/52/56
Water connections								
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
		Inch	1/2	1/2	1/2	1/2	1/2	1/2
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Dimension and weight								
Dimension	H x W x D	mm	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 1060 x 249	295 x 1060 x 249
Weight		kg	12	13	13	13	14	14

Energy efficiency class [5]

Flex Air Smart fan coil – Wall-mounted DC fan - FK1								
2-pipes	**FCEER** [2]	**A to E**	**B**	**B**	**B**	**B**	**A**	**A**
	$\eta_{s,c}$	**%**	**144,2**	**166,9**	**172,1**	**169,3**	**226,8**	**213,0**
	FCCOP [4]	**A to E**	**B**	**B**	**B**	**B**	**B**	**B**
	$\eta_{s,h}$	**%**	**160,0**	**167,0**	**170,5**	**173,4**	**208,5**	**198,0**

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent.

Flex Air Smart fan coil – Wall-mounted.

Great flexibility and improved air quality for your projects.

Flex Air Smart fan coil – Wall-mounted unit is the first Panasonic water fan coil integrated with nanoe™ X technology for improved air quality and compatible with individual and centralised PACi NX/VRF controls.

nanoe™ X

COMPATIBILITY WITH PACi NX/VRF CONTROLS

QUIET OPERATION

STYLISH DESIGN

MOTORIZED LOUVERS

COMPACT FOOTPRINT

ErP

SUPER QUIET

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE

The range belong to fan coil commercial policy.

NEW

NEW! Flex Air Smart fan coil – Medium static pressure duct DC fan – FF1

Fan coil medium static pressure ductable units with nanoe™ X (Mark 3).
Cooling capacity: 2,3 to 9,3 kW.
Heating capacity: 2,7 to 9,8 kW.

Optional controller. CONEX Series, white or black.
CZ-RTC6W/BL/BLW2 or CZ-RTC6/BL/BLW2

Optional controller. Infrared remote controller for wall-mounted.
CZ-RWS3

Optional controller. Wired remote controller with touch control.
PAW-FC-907EC

Optional controller. Wired remote controller.
PAW-FC-903EC

Optional controller. SRC - mini BMS controller.

SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

The range at a glance

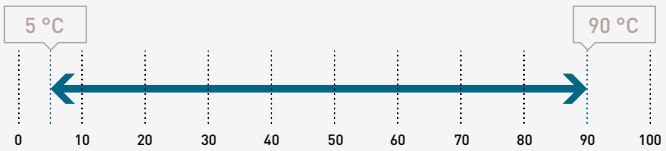
- Versions: 2-pipe and 4-pipe
- 7 sizes
- DC fan for better efficiency and control
- Air flow from 590 to 1500 m³/h
- External static pressure: 120 Pa
- nanoe™ X technology to improve protection 24/7
- S-Link available - compatible with Panasonic controllers

Advantages

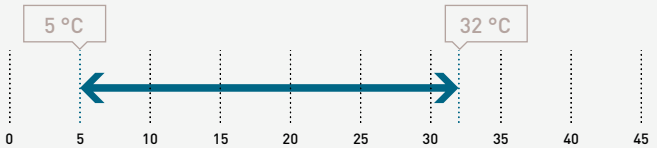
- Ideal for commercial and residential applications with a low height for all sizes
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Efficiency class: A in cooling and heating modes for all sizes
- Flexible hydraulic connection right/left and right electrical connection
- Air return and discharge configuration: In line (I) or from the same side (U)
- Different aeraulic plenum configurations: rectangular or Circular Ø200 mm
- Compatibility with a wide range of controllers
- G1 cleanable synthetic-type air filter
- Very easy servicing

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air Smart fan coil*			S-23FF1E	S-28FF1E	S-40FF1E	S-50FF1E	S-70FF1E	S-80FF1E	S-93FF1E
Fan speed [1]			**Max**	**Max**	**Max**	**Max**	**Max**	**Max**	**Max**
2-pipes									
Total cooling capacity [2]		kW	2,30	2,80	4,00	5,00	7,00	8,00	9,30
Heating capacity [3]		kW	2,70	3,30	4,20	5,20	7,50	8,30	9,80
4-pipes									
Total cooling capacity [2]		kW	2,14	2,71	3,74	4,75	6,87	7,31	8,71
Heating capacity [4]		kW	4,95	5,96	5,16	7,10	8,56	10,16	11,36
Ventilation									
Air flow [5]	2-pipes	m³/h	590	680	576	980	1230	1180	1500
	4-pipes	m³/h	420	600	460	780	1110	1110	1360
External static pressure		Pa	120	120	120	120	120	120	120
Water connections									
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Water connections		Inch	1/2	1/2	1/2	3/4	3/4	3/4	3/4
Dimension and weight									
Dimension	H x W x D	mm	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730
Weight		kg	26	26	33	33	33	47	47

Tentative data

Energy efficiency class [6]

Flex Air Smart fan coil									
2-pipes	**FCEER**	**A to E**	**A**	**A**	**A**	**A**	**A**	**A**	**A**
	FCCOP	**A to E**	**A**	**A**	**A**	**A**	**A**	**A**	**A**
4-pipes	**FCEER**	**A to E**	**A**	**A**	**A**	**A**	**A**	**A**	**A**
	FCCOP	**A to E**	**A**	**A**	**A**	**A**	**A**	**A**	**A**

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.
4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) According to Eurovent 6/10 (air flow test method) and 8/12 (sound test method). 6) According to Eurovent. *Available in Summer 2026.

Accessories and options
2W or 3W – 2 way or 3 way valves
CB – Circuit breakers
PUMP – Drain pump
EH – Electric heaters (from 500 W to 2500 W)
Fresh air intake Ø 100 mm
FH – Fuse holder

Accessories and options
G2 / G3 / G4 filters
Other speeds configuration (standard factory set speeds in technical table)
Many air inlet/outlet configurations
HL/ER – Hydraulic left – electric right
HR/ER – Hydraulic right – electric right

Tentative data

Accessories supplied loose
SRC – Smart remote control – Mini building management system (only with Modbus RTU)
CZ-RTC6W – CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL – CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6 – CONEX wired remote controller (non-wireless), black

Accessories supplied loose
CZ-RTC6BL – CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RWS3 + CZ-RWRC3 – Infrared remote controller and receiver
PAW-FC-907EC – Wired remote controller with touch control
PAW-FC-903EC – Wired remote controller
KIT REMOTE SENSOR – Remote sensor for ducted unit

Tentative data

The range belong to fan coil commercial policy.

Flex Air fan coil – Comfort AC fan

Fan coil floor and ceiling units with cooling and heating.
Cooling capacity: 0,6 to 6,9 kW.
Heating capacity: 0,6 to 7,4 kW.

Optional controller. WRC remote control.

Optional controller. SRC - mini BMS controller.

Optional controller. Electronic controller TControl POD glass.

Optional controller. Electronic controller TControl EASY 3S.

Optional controller. Wired remote controller with touch control.
PAW-FC-907AC

Optional controller. Wired remote controller.
PAW-FC-903AC

Optional controller. Advanced wired remote controller.
PAW-FC-RC1

SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 7 sizes
- 5-speed AC fan - standard factory set speeds: S1,S3,S5
- Air flow from 94 to 1064 m³/h
- Configuration: universal installation units (vertical or horizontal) with or without cabinet
- Left or right water connections
- Many air inlet/outlet configurations
- G2 air filter (G3 as an option)

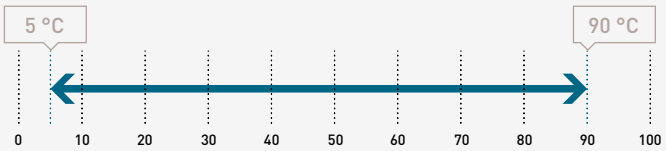
Advantages

- Silent units
- New casing design for an increased robustness
- Harmonious and aesthetic RAL 9003 painted cabinet
- Valves, condensate drain pan and drain pump factory mounted
- 100% factory tested

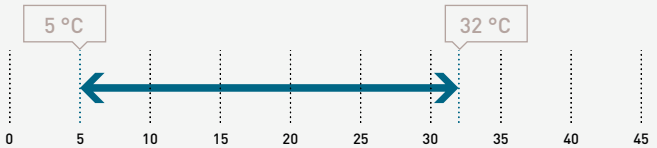
Accessories and options
2W or 3W – 2 way or 3 way valves
4-pipes kit (additional coil)
CB – Circuit breakers
PUMP – Drain pump
EH – Electric heaters (from 500 W to 2500 W)
FC/FCG – Feet with/without grid
FH – Fuse holders
G3 filter
DG – Horizontal or vertical drain guard (with valve)
Many air inlet/outlet configurations
C/O – Electromechanical sensor for automatic changeover

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – Comfort AC fan			P-FC10	P-FC20	P-FC30	P-FC40	P-FC50	P-FC60	P-FC70
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes									
Total cooling capacity [2]		kW	0,66/1,00/1,45	0,61/0,96/1,38	0,95/1,88/2,37	1,14/2,28/3,02	1,71/3,16/4,64	2,57/4,33/5,53	3,24/5,84/6,91
Sensible capacity [2]		kW	0,48/0,77/1,05	0,43/0,70/1,02	0,78/1,44/1,80	0,83/1,66/2,23	1,24/2,23/3,27	1,81/3,14/4,25	2,26/4,11/4,85
Water flow [2]		l/h	114/172/250	105/165/238	164/324/408	196/393/520	295/544/799	443/746/953	558/1006/1190
Water pressure drop [2] [3]		kPa	9,17/19,5/39,1	2,65/4,62/7,43	5,8/17,6/26,3	17,0/21,5/35,2	7,5/22,8/47,1	12,6/33,9/54,4	4,4/13,9/19,4
Heating capacity [4]		kW	0,63/1,18/1,71	0,63/1,03/1,53	1,00/1,86/2,49	1,14/2,28/3,18	1,79/3,47/4,81	2,45/4,22/5,63	3,45/6,27/7,41
Water flow [4]		l/h	109/203/295	109/177/264	172/320/429	196/393/548	308/598/829	422/727/970	594/1080/1276
Water pressure drop [3] [4]		kPa	5,9/17,3/33,8	2,76/5,06/8,54	5,8/16,2/27,0	5,0/15,6/28,1	6,1/20,7/38,5	18,6/52,4/91,4	4,9/16,0/22,3
4-pipes									
Total cooling capacity [2]		kW	0,63/0,88/1,24	0,87/1,34/1,73	0,91/1,80/2,28	0,98/2,14/2,85	1,57/2,88/4,13	2,60/4,39/5,61	3,17/5,62/6,58
Sensible capacity [2]		kW	0,46/0,67/0,91	0,65/1,02/1,36	0,75/1,39/1,74	0,71/1,57/2,10	1,14/2,04/2,92	1,82/3,18/4,28	2,21/3,96/4,62
Water flow [2]		l/h	109/152/214	150/231/298	157/310/393	169/369/491	270/496/711	448/756/966	546/968/1133
Water pressure drop [2] [3]		kPa	7,6/13,9/26,3	2,33/4,44/6,64	2,8/8,6/13,1	5,8/20,5/33,6	3,9/11,6/22,8	10,2/27,7/44,5	5,3/16,2/22,1
Heating capacity [5]		kW	0,63/1,00/1,41	1,00/1,40/1,68	1,28/1,81/2,13	1,22/2,21/2,85	2,01/3,19/4,08	2,71/4,24/5,33	3,65/5,00/5,90
Water flow [5]		l/h	54/86/121	86,1/121/145	110/156/183	105/190/245	173/275/351	233/365/459	314/431/508
Water pressure drop [3] [5]		kPa	1,2/2,1/3,3	1,15/2,2/3,12	2,8/4,7/6,1	5,1/13,9/21,8	5,7/12,5/19,4	11,6/24,8/37	35,4/60,7/81,2
Sound levels									
Sound power	2-pipes	dB(A)	33/40/49	31/43/50	30/45/52	43/47/51	34/43/56	38/51/58	43/56/61
	4-pipes	dB(A)	33/40/49	31/43/50	30/45/52	33/44/51	34/46/56	38/51/58	43/56/61
Sound pressure [6]	2-pipes	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52
	4-pipes	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52
NR [6]	2-pipes		19/26/35	17/29/36	16/31/38	16/30/37	20/32/42	24/37/44	29/42/47
	4-pipes		19/26/35	17/29/36	16/31/38	16/30/37	20/32/42	24/37/44	29/42/47
Ventilation									
Number of fans			1	1	1	2	2	2	2
Air flow	2-pipes	m³/h	94/190/283	68/104/196	138/274/390	270/311/417	253/486/716	350/640/933	480/893/1064
	4-pipes	m³/h	95/168/253	89/161/241	132/263/369	148/335/467	242/466/671	334/614/885	470/859/1012
Filter			G2	G2	G2	G2	G2	G2	G2
Electrical data									
Power supply	Voltage	V	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	13/24/36	13/18/31	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147
	4-pipes	W	13/24/36	11/18/28	16/37/44	15/37/55	28/54/70	37/74/104	53/99/145
Electric heater		W	500	500	500/1000	1250	1250/2500	1250/2500	1250/2500
Water connections									
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	½	½	½	½	½	½	¾
4-pipes	Heating	Inch	½	½	½	½	½	½	½
Dimension									
With cabinet - without feet	H x W x D	mm	477 x 766 x 225	477 x 766 x 225	477 x 951 x 225	477 x 1136 x 225	477 x 1321 x 225	477 x 1506 x 225	575 x 1319 x 225
Without cabinet	H x W x D	mm	430 x 570 x 220	430 x 570 x 220	430 x 753 x 220	430 x 938 x 220	430 x 1122 x 220	430 x 1307 x 220	530 x 1121 x 220
Weight									
With cabinet	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37
Without cabinet	2 / 4-pipes	kg	13/14	13/14	15/16	20/22	22/24	26/28	27/29

Energy efficiency class [7]

Flex Air fan coil – Comfort AC fan									
2-pipes	**FCEER**	**A to E**	**E**	**E**	**D**	**D**	**D**	**D**	**D**
	FCCOP	**A to E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**
4-pipes	**FCEER**	**A to E**	**E**	**D**	**D**	**D**	**E**	**D**	**D**
	FCCOP	**A to E**	**E**	**D**	**D**	**D**	**E**	**E**	**E**

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 7) According to Eurovent. *Standard configuration with left hand hydraulic connection. G2 air filter included as standard.

Accessories supplied loose
KIT Plogic – Kit Plogic control board
KIT BRC – Kit basic remote control (only with Plogic control board)
KIT WRC – Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 – Kit Plogic Modbus board
Other speeds configuration (standard factory set speeds in technical table)
SRC – Smart remote control – Mini building management system (only with Modbus RTU)
Suspension kit
TCEASY 2P/4P – Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

Accessories supplied loose
TCEASY 2P+C/O – Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P – Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH – Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907AC – Wired remote controller with touch control
PAW-FC-903AC – Wired remote controller
PAW-FC-RC1 – Advanced wired remote controller

ErP SUPER QUIET ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

The range belong to fan coil commercial policy.

Flex Air fan coil – Comfort EC fan

Fan coil floor and ceiling units with cooling and heating.
Cooling capacity: 0,5 to 9,1 kW.
Heating capacity: 0,6 to 12,9 kW.

Optional controller.
WRC remote control.

Optional controller.
SRC - mini BMS controller.

Optional controller.
Electronic controller TControl POD glass.

Optional controller.
Electronic controller TControl EASY 3S.

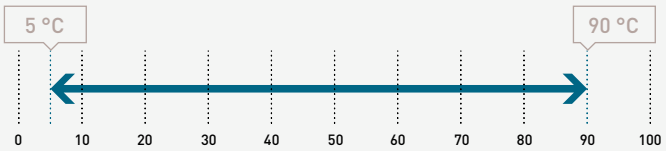
Optional controller.
Wired remote controller with touch control.
PAW-FC-907EC

Optional controller.
Wired remote controller.
PAW-FC-903EC

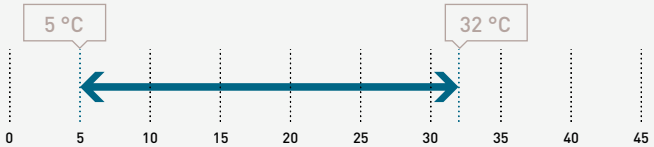
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 8 sizes
- Low energy consumption EC fan: 100% controllable via a 0-10 V signal or 3 operating speeds
- Air flow from 91 to 1548 m³/h
- Configuration: universal installation units (vertical or horizontal) with or without cabinet
- Left or right water connections
- Many air inlet/outlet configurations
- G2 air filter (G3 as an accessory)

Advantages

- Excellent performances: FCEER and FCCOP up to "A"
- Silent units
- New casing design for an increased robustness
- Harmonious and aesthetic RAL 9003 painted cabinet
- Valves, condensate drain pan and drain pump factory mounted
- 100% factory tested

Accessories and options
2W or 3W – 2 way or 3 way valves
4-pipes kit (additional coil)
CB – Circuit breakers
PUMP – Drain pump
EH – Electric heaters (from 500 W to 2500 W)
FC/FCG – Feet with/without grid
FH – Fuse holders
G3 filter
DG – Horizontal or vertical drain guard (with valve)
Many air inlet/outlet configurations
C/O – Electromechanical sensor for automatic changeover

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – Comfort EC fan			P-FC10	P-FC20	P-FC30	P-FC40	P-FC50	P-FC60	P-FC70	P-FC80
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes										
Total cooling capacity [2]		kW	0,59/1,16/1,96	0,48/0,84/1,31	0,67/1,41/1,83	1,34/2,93/4,19	1,15/2,59/3,41	1,98/4,45/5,24	2,30/4,29/5,91	4,59/6,13/8,36
Sensible capacity [2]		kW	0,48/1,00/1,76	0,36/0,65/1,03	0,47/1,04/1,34	0,95/2,10/3,00	0,79/1,72/2,25	1,35/3,51/4,02	1,91/4,10/4,96	3,32/4,51/6,28
Water flow [2]		l/h	102/200/338	105/226/365	141/336/505	231/505/722	231/615/858	341/767/903	439/958/1128	791/1056/1440
Water pressure drop [2] [3]		kPa	7,5/25,7/69,5	1,4/4,3/9,3	5,9/21,8/42,9	6,4/24,3/46,3	4,9/28,7/53,9	7,8/35,8/49,0	2,7/12,6/17,5	14,1/21,4/37,6
Heating capacity [4]		kW	0,67/1,30/2,31	0,68/1,04/2,52	0,80/1,72/2,66	1,11/2,48/4,46	1,38/3,89/5,19	1,95/4,93/5,82	3,05/5,81/7,17	4,21/5,80/8,43
Water flow [4]		l/h	115/224/398	117/264/434	138/296/458	191/427/768	238/670/894	336/849/1002	525/1001/1235	798/1101/1598
Water pressure drop [3] [4]		kPa	6,5/20,6/59,1	1,7/5,5/12,4	4,1/14,2/30,4	4,8/18,1/51,9	3,8/25,7/44,6	12,2/70,7/97,5	3,9/13,8/20,9	14,4/23,1/45,6
4-pipes										
Total cooling capacity [2]		kW	0,40/0,64/1,41	0,57/1,20/2,18	0,75/1,84/2,93	1,03/2,20/3,52	1,17/3,45/4,39	1,69/3,90/4,69	2,44/4,88/6,06	4,44/5,86/9,07
Sensible capacity [2]		kW	0,30/0,51/1,24	0,43/0,96/1,76	0,55/1,44/2,28	0,73/1,57/2,58	0,92/2,61/3,28	1,12/3,05/3,63	1,83/3,61/4,53	3,20/4,31/6,84
Water flow [2]		l/h	68,9/109/243	98,2/207/376	129/317/505	177/379/606	202/594/756	291/672/808	420/841/1044	765/1009/1562
Water pressure drop [2] [3]		kPa	5,2/10,5/40,1	1,3/3,8/9,7	4,0/13,7/28,0	9,3/27,8/58,9	2,3/16,2/25,6	4,6/22,0/31,4	3,2/12,3/18,8	18,8/30,6/67,2
Heating capacity [5]		kW	0,61/1,13/1,87	0,79/1,33/2,09	1,41/2,01/2,77	1,57/2,49/3,62	2,18/3,34/4,10	1,81/4,05/4,81	3,45/4,67/5,53	5,74/7,99/12,90
Water flow [5]		l/h	52,5/97,3/161	68/115/180	121/173/239	135/214/312	188/288/353	156/349/414	297/402/476	494/688/1111
Water pressure drop [3] [5]		kPa	1,1/2,4/4,8	<1/2,0/4,8	7,9/12,3/18,6	10,9/22,2/41,1	6,5/13,6/19,6	16,1/45,3/57,5	32,2/53,9/72,4	19,2/34,5/83,1
Sound levels										
Sound power	2-pipes	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	45/57/59	51/56/64
	4-pipes	dB(A)	34/43/54	34/47/60	31/50/59	29/44/56	32/51/57	32/54/58	46/57/64	51/56/64
Sound pressure [6]	2-pipes	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55
	4-pipes	dB(A)	25/34/45	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55
NR [6]	2-pipes		20/33/46	20/33/46	17/36/45	15/30/38	16/37/43	18/40/44	26/40/45	37/42/50
	4-pipes		20/29/40	20/33/46	17/36/45	15/30/38	16/37/43	18/40/44	26/40/45	37/42/50
Ventilation										
Number of fans			1	1	1	2	2	2	2	3
Air flow	2-pipes	m³/h	108/228/417	98/134/227	119/257/345	170/412/678	203/577/816	245/737/912	350/641/894	500/680/1063
	4-pipes	m³/h	76/110/226	84/200/380	123/297/540	148/298/524	185/587/755	205/668/845	329/798/989	660/884/1548
Filter			G2	G2	G2	G2	G2	G2	G2	G2
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	7/12/41	7/13/41	6/16/42	2/13/43	4/23/46	4/30/54	12/35/77	23/42/108
	4-pipes	W	5/7/17	7/13/40	6/14/40	2/11/39	4/23/44	4/28/52	13/37/84	22/41/116
Electric heater		W	500	500	500/1000	1250	1250/2500	1250/2500	1250/2500	1250/2500
Water connections										
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	½	½	½	½	½	½	¾	¾
4-pipes	Heating	Inch	½	½	½	½	½	½	½	½
Dimension										
With cabinet - without feet	H x W x D	mm	477 x 766 x 225	477 x 766 x 225	477 x 951 x 225	477 x 1136 x 225	477 x 1321 x 225	477 x 1506 x 225	575 x 1319 x 225	575 x 1506 x 225
Without cabinet	H x W x D	mm	430 x 570 x 220	430 x 570 x 220	430 x 753 x 220	430 x 938 x 220	430 x 1122 x 220	430 x 1307 x 220	530 x 1121 x 220	530 x 1316 x 220
Weight										
With cabinet	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37	47/49
Without cabinet	2 / 4-pipes	kg	13/14	13/14	15/16	20/22	22/24	26/28	27/29	38/40

Energy efficiency class [7]

Flex Air fan coil – Comfort EC fan										
2-pipes	**FCEER**	**A to E**	**C**	**D**	**B**	**A**	**A**	**A**	**B**	**B**
	FCCOP	**A to E**	**D**	**D**	**C**	**B**	**A**	**B**	**B**	**C**
4-pipes	**FCEER**	**A to E**	**C**	**C**	**B**	**A**	**B**	**B**	**B**	**A**
	FCCOP	**A to E**	**C**	**C**	**B**	**A**	**B**	**B**	**B**	**A**

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 7) According to Eurovent. *Standard configuration with left hand hydraulic connection. G2 air filter included as standard.

Accessories supplied loose
KIT Plogic – Kit Plogic control board
KIT BRC – Kit basic remote control (only with Plogic control board)
KIT WRC – Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 – Kit Plogic Modbus board
Other speeds configuration (standard factory set speeds in technical table)
SRC – Smart remote control – Mini building management system (only with Modbus RTU)
Suspension kit
TCEASY 2P/4P – Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

Accessories supplied loose
TCEASY 2P+C/O – Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P – Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH – Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907AC/EC – Wired remote controller with touch control
PAW-FC-903AC/EC – Wired remote controller
PAW-FC-RC1 – Advanced wired remote controller

ErP | EC MOTOR GREEN VENTILATION | SUPER QUIET | VERY HIGH PERFORMANCE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

The range belong to fan coil commercial policy.

Storage tanks for heating and DHW

NEW

Buffer tanks

Model		PAW-BTANK50L-2	PAW-BTANK100L	PAW-BTANKG200L	PAW-BTANKG260L	PAW-BC50FAE	PAW-BC80FAE	PAW-BC100FAE
Water volume	L	48	100	194	252	500	800	1000
Energy losses	W							
Energy efficiency class (from A+ to F)		**B**	**B**	**B**	**C**	**C**	**C**	**C**
Material		Stainless steel	Stainless steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
Electric heater	kW	—	—	—	—	Optional PAW-HT9F24AE8	Optional PAW-HT9F24AE8	Optional PAW-HT9F24AE8
Jacket		Included	Included	Included	Included	Included	PAW-JKBC80FAE	PAW-JKBC100FAE
Dimension (Height / Diameter)	mm	636 / 430	1175 / 430	983 / 620	1239 / 620	1725 / 650	1785 / 790	2135 / 790
Net weight	kg	13	22	41	46	85	107	132

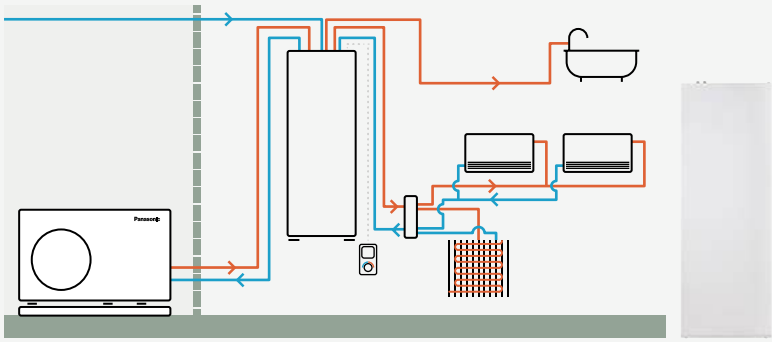
*Automatic air vent and drain cock are included. Built-in pocket sensor (sensor not included). **50 and 100 L Buffer Tanks are produced by OSO. 200 and 260 L Buffer Tanks are produced by Lapesa. 500, 800 and 1000 L Buffer Tanks are produced by Austria Email.

Accessories	
PAW-HT9F24AE8	Adjustable 3 phase electric heater D240 mm. Selectable output: 9,00 / 7,50 / 6,00 kW. Compatible with PAW-TE75H1AEAN, PAW-TE90H1AEAN, PAW-BC50FAE, PAW-BC80FAE and PAW-BC100FAE

Accessories	
PAW-JKBC80FAE	Jacket for 800 L buffer tank (PAW-BC80FAE)
PAW-JKBC100FAE	Jacket for 1000 L buffer tank (PAW-BC100FAE)

Combo tanks

The best option to combine with Mono-bloc units. DHW tank with buffer tank. Designed for retrofit applications, the DHW tank with a buffer tank is particularly suitable for fast integration on an existing installation. Easy to install, nice looking, high-efficiency for DHW production and for heating.



Model		PAW-TD20B8E3-2		PAW-TD23B6E5	
Material		Enamelled		Stainless steel	
Dimension H x W x D	mm	1770 x 640 x 690		1750 x 600 x 646	
Weight (empty)	kg	150		111	
Water volume	L	185 + 80		230 + 60	
Power supply	V, Phase, Hz	230, 1, 50		230, 1, 50	
		Hot water tank	**Buffer tank**	**Hot water tank**	**Buffer tank**
Water volume	L	185	80	230	60
Energy efficiency class (from A+ to F) [1]		**B**	**B**	**B**	**A**
Max working pressure	MPa (bar)	0,8 (8)	0,6 (6)	1,0 (10)	0,3 (3,0)
Pressure test	MPa (bar)	1,2 (12)	0,9 (9)	1,5 (15)	0,39 (3,9)
Max working temp	°C	90	90	80	80
Connections	mm	Ø22	Ø22	Ø22	Ø22, copper
Material		S 275 JR vitrified	S235 JR	EN 14521	EN 14521
Insulation	Material, t=mm	PUR, 50	PUR 40	PUR, 50	PUR, 50
Heating coil surface	m^2	2,1	—	1,8	—
Electric heater	W	3000	—	2800	—
Energy loss at 65 °C [2]	kWh/24h	1,3	—	1,25	—
Standing loss	W	53	46	52	29

1) EU Regulation 812/2013. 2) Tested pursuant to EN 12897:2006. *Enamelled Combo tank is produced by Lapesa. Stainless steel Combo tank is produced by OSO.

NEW

DHW tanks certified with selected outdoor units. See certifications at: **www.heatpumpkeymark.com**

Enamelled DHW tanks

· Optional 3 way valve accessory
· 20 m temperature sensor cable included
· 2 Years warranty of the inner vessel

Model	PAW-	TA15C1E5	TA20C1E5STD	TA30C1E5STD	TA30C2E5STD	TA40C1E5STD	TE50H1AE	TE75H1AEAN	TE90H1AEAN
Water volume	L	167	200	290	350	380	500	750	900
Maximum water temperature	°C	90	95	95	95	95	95	95	95
Dimension (Height / Diameter)	mm	1297/560	1340/610	1800/610	1835/670	1835/670	1806/760	2000/1000 [1]	2350/1000 [1]
Weight / filled with water	kg	88/255	90/280	120/389	169/519	191/572	254/754	317/1067	374/1274
Electric heater	kW	—	3,00	3,00	3,00	3,00	Optional PAW-HT6F18AE8	Optional PAW-HT6F18AE8	Optional PAW-HT6F18AE8
Jacket		Included	Included	Included	Included	Included	Included	PAW-JKTE75H1AE	PAW-JKTE90H1AE
Power supply	V	—	230	230	230	230	—	—	—
Material		Enamelled	Enamelled	Enamelled	Enamelled	Enamelled	Enamelled	Enamelled	Enamelled
Vessel protection (anode type)		Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Electronic	Electronic
Number of coils		1	1	1	2 (solar + heat pump)	1	1	1	1
Exchange surface	m²	1,8	1,8	2,6	3,5 / 1,2	3,8	6	6	7.5
Energy loss at 65 °C [2]	kWh/24h	1,08	1,37	1,61	1,76	1,76	1.90	2.56	2.87
Energy losses	W	45	57	67	73	73	79	107	120
Energy efficiency class (from A+ to F)		**B**	**B**	**B**	**B**	**B**	**B**	**C**	**C**

1) Including Jacket. 2) Insulated tested under EN12897. *Refer to the service manual for further details. **PAW-TA15C1E5 is produced by Lapesa. All other Enamelled tanks are produced by AEmail.

Accessories	
PAW-HT6F18AE8	Adjustable 3 phase electric heater D180 mm. Selectable output: 6,00 / 4,00 / 3,00 kW. Compatible with PAW-TE50H1AE
PAW-HT9F24AE8	Adjustable 3 phase electric heater D240 mm. Selectable output: 9,00 / 7,50 / 6,00 kW. Compatible with PAW-TE75H1AEAN, PAW-TE90H1AEAN, PAW-BC50FAE, PAW-BC80FAE and PAW-BC100FAE

Accessories	
PAW-JKTE75H1AE	Jacket for 750 L DHW tank (PAW-TE75H1AEAN)
PAW-JKTE90H1AE	Jacket for 900 L DHW tank (PAW-TE90H1AEAN)

Stainless steel DHW tanks

· Optional 3 way valve accessory
· 20 m temperature sensor cable included
· 2 Years warranty
· No maintenance required

Model		PAW-TD20C1E5-1	PAW-TD30C1E5-1	PAW-TD30C1E5HI-1
Water volume	L	192	284	280
Maximum water temperature	°C	75	75	75
Energy losses	W	42	49	49
Energy efficiency class (from A+ to F)		**A**	**A**	**A**
Material		Stainless steel	Stainless steel	Stainless steel
Electric heater	kW	1,5	1,5	1,5
Dimension (Height / Diameter)	mm	1270/595	1750/595	1750 / 595
Weight / filled with water	kg	50/—	61/—	65 / —
Power supply	V	230	230	230
Exchange surface	m²	1,8	1,8	2,35
Energy loss at 65 °C [1]	kWh/24h	1,01	1,18	1,18

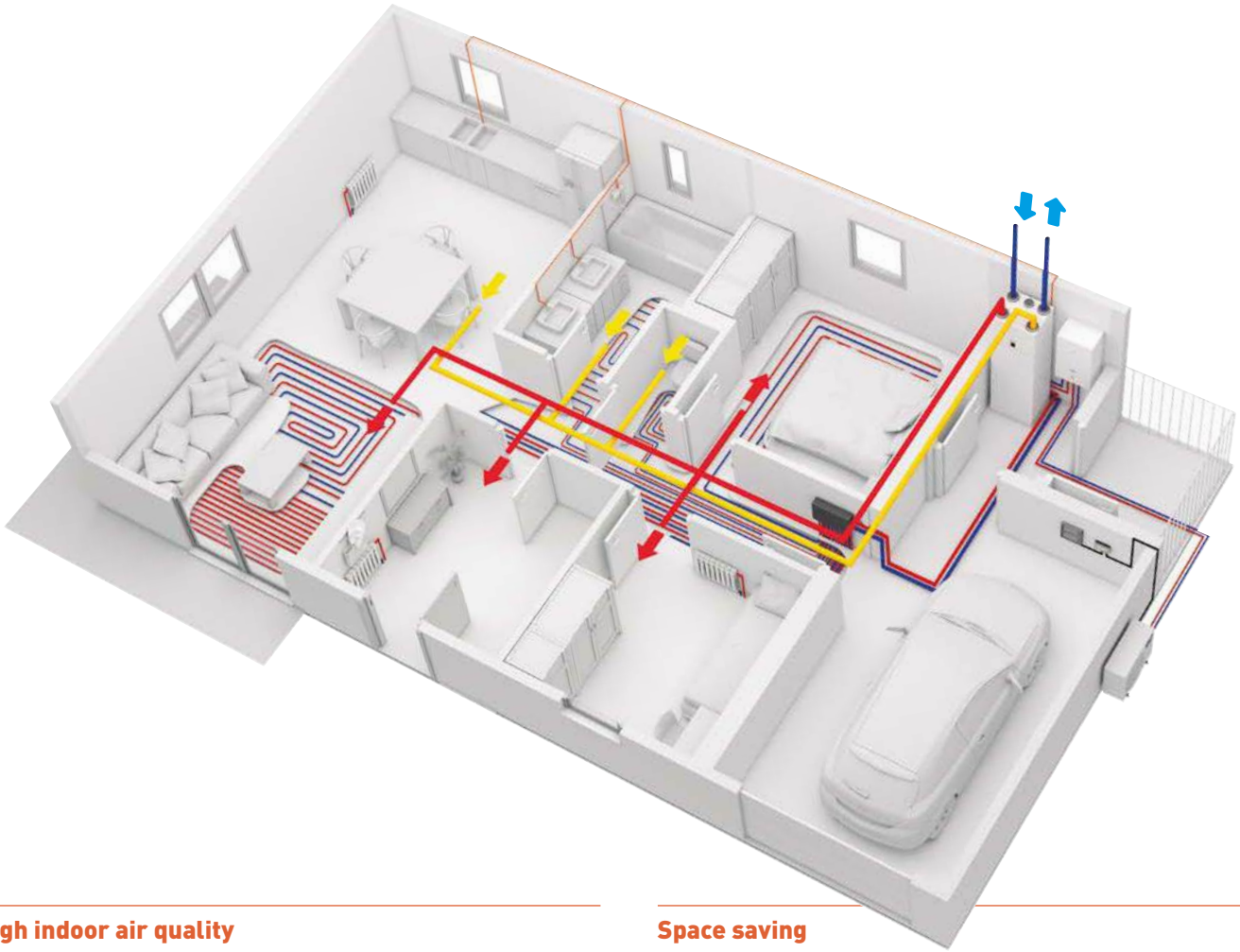
1) Insulated tested under EN12897. *Stainless steel tanks are produced by OSO.

Accessories for sanitary tanks	
PAW-3WYVLV-HW	3 way valve for DHW tanks
CZ-NV1	3 way valve kit to fit inside the hydrokit. H and J Series
CZ-NV2	3 way valve kit to fit inside the hydrokit. K and L Series

Accessories for sanitary tanks	
CZ-NV3	3 way valve kit to fit inside the hydrokit. M Series
PAW-EANODE2	Impressed current anode for 200 L Stainless steel tanks
PAW-EANODE3	Impressed current anode for 300 L Stainless steel tanks

Heat recovery ventilation unit

The heat recovery ventilation unit is design not only to provide a good indoor air quality, but it is also designed to recover heat that would otherwise be lost throughout ventilation. These heat recovery ventilation systems are used to assist in the retention of heat.



High indoor air quality

The unit is designed to provide fresh filtered air into the home, while keeping a high thermal comfort.

Energy saving

Most of the energy from the exhausted air is used to precondition the incoming air, leading to lower heating requirements in the building.

Space saving

The compact ventilation unit can be installed over the DHW square tank or the Aquarea All in One Compact indoor unit for an space saving solution.

Better user interface

The Residential ventilation unit and the Aquarea Heat Pumps can be controlled with one single user-friendly controller.

AQUAREA

Combine the Residential ventilation unit with Panasonic Aquarea for an space saving and highly efficient solution for heating, cooling, ventilation and DHW.

Heat Recovery Ventilation + Aquarea All in One Compact.

*The unit can be mounted on a All in One indoor unit (K, L or M Series) or installed on the wall (PAW-VEN-WBRK is needed).

PAW-A2W-VENTA-R

PAW-A2W-VENTA-L

Heat recovery ventilation unit

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

Model		PAW-A2W-VENTA-R	PAW-A2W-VENTA-L
Nominal air flow rate	m³/h	204 @ 50 Pa	
Maximum air flow rate	m³/h	292 @ 100 Pa	
SPF		1,24 @ 204 m³/h	
Heat exchanger rotor drive type		Variable speed	
Exchanger type		Rotating	
Heat recovery efficiency		84%	
Power supply	V / Hz	230 / 50 / Singe phase	
Power consumption	W	176	
Energy class, basic unit		**A**	
Energy class, unit with local control on demand		**A**	
Noise level	dB(A)	40	
Dimension (H x W x D)	mm	450 x 598 x 500	
Weight	kg	46	
Mounting position		Vertical	
Supply side		Right	Left
Duct connections	mm	DN125	
Filter class, supply air		F7/ePM1 60%	
Filter class, extract air		M5/ePM10 50%	
Minimum outdoor temperature	°C	-20	

*Heat recovery efficiency according to EN 13141-7. **Heat recovery ventilation unit is produced by Systemair.

Accessories	
PAW-VEN-FLTKIT	Supply and extract filters kit
PAW-VEN-ACCPCB	Optional PCB for additional functions
PAW-VEN-DPL	HRV touch control panel. White frame (cable must be ordered separately)
PAW-VEN-CBLEXT12	Cable with plug for electrical connection between unit and control panel, type CE and CD (12 m)
PAW-VEN-DIVPLG	Twin plugs for installation of several control panels type CD or CE for one unit

Accessories	
PAW-VEN-DPLBOX	HRV touch control panel wall-mounted kit
PAW-VEN-S-CO2RH-W	CO_2 RH wall-mounted sensor
PAW-VEN-S-CO2-W	CO_2 wall-mounted sensor
PAW-VEN-S-CO2-D	CO_2 duct sensor
PAW-VEN-WBRK	Wall bracket kit for stand-alone installation on the wall
PAW-VEN-HTR06	Electrical duct heater 0,6 kW (includes relay)
PAW-VEN-HTR12	Electrical duct heater 1,2 kW (includes relay)

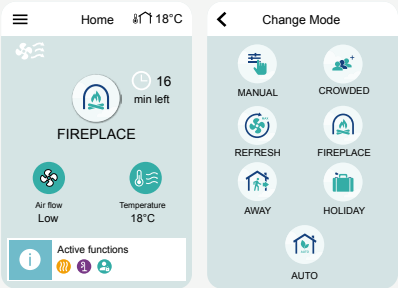
Main features of the residential ventilation unit

- Designed for areas up to approximately 140 m²
- High energy efficiency rotary heat exchanger with EC - technology fans
- Moisture transfer function to minimize condensation in supply air during wintertime
- The built in humidity sensor in extract air can be used for demand control
- Control via touch display and Startup Wizard for easy commissioning
- Modbus communication via RS-485
- Option to control an Aquarea H Series onwards heat pump from PAW-A2W-VENTA control panel Modbus gateway (PAW-AZAW-MBS-M, PAW-AW-MBS-M, CZ-NSMB-C or CZ-NSMB) and PAW-VEN-ACCPCB required

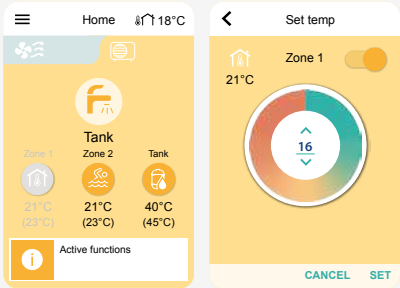
Control user-friendly interface

All settings and features accessible via a control panel, integrated into the front cover. The option for connecting one or more external control panels is available.

- Color touch screen with a user-friendly interface
- MANUAL and AUTO mode or choose preferred settings from the pre-configured user modes



- If Aquarea H and J Series heat pumps are connected with PAW-A2W-VENTA, the heat pump control options appear on the home screen in a separate tab



Aquarea Vent - Counter flow ventilation

Aquarea Vent systems provide a continuous supply of fresh air, ensuring optimal indoor air quality and comfort. Ideal for single-family homes or apartments with low energy requirements, Panasonic's HRV systems combine high-efficiency heat recovery, quiet operation, and advanced air filtration with flexible installation options.

Vent PRO.

Access the tool via the 'Tools' section in the Panasonic Pro Club (www.panasonicproclub.com).

From selecting the right ventilation unit to planning the air distribution system and choosing the appropriate components, the Vent PRO guides you through every step to ensure the optimal solution for your project.

Universal mounting.

Horizontal mounting.

Vertical mounting.

Aquarea Vent - Counter flow ventilation units

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

REFER TO PAGE 143 FOR THE COMPLETE LIST OF FILTERS AND ACCESSORIES FOR AIR DISTRIBUTION AND DIFFUSION SYSTEMS

			Universal mounting			Horizontal mounting				Vertical mounting			
P-VEN			**15XQAZE5**	**20XQAZE5**	**30XQAZE5**	**15XQAHE5**	**30XQAHE5**	**35XQAHE5**	**45XQAHE5**	**15XQAVE5**	**30XQAVE5**	**40XQAVE5**	**45XQAVE5**
Air flow	Nominal / Max	m³/h	91/130	147/210	224/ 320	109/155	210/300	238/340	288/455	112/170	210/300	266/380	315/450
Static pressure	Nominal / Max	Pa	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100
Recovery efficiency		%	87	85	85	86	85	89	88	86	86	87	86
Energy class			A	A	A	A	A	A	A	A	A	A	A
Power supply	Voltage	V	230	230	230	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50
Power consumption	Nominal	W	80	140	180	110	180	350	420	110	180	350	420
Sound power LWA		dB(A)	48	51	52	49	50	52	56	48	50	51	54
Dimension	H x W x D	mm	255 x 580 x 580	255 x 580 x 580	255 x 580 x 580	260 x 480 x 800	295 x 600 x 795	290 x 650 x 1150	290 x 1150 x 1150	510 x 430 x 625	590 x 575 x 785	590 x 735 x 785	590 x 785 x 735
Net weight		kg	19	19	19	25	30	38	40	32	38	42	43
Filter class			ePM1 80%	ePM1 80%	ePM1 80%	ePM1 80%	ePM1 70%	ePM1 70%	ePM1 70%	ePM1 80%	ePM1 70%	ePM1 70%	ePM1 70%
Duct connection		mm	160	160	160	160	160	160	160	160	160	160	160

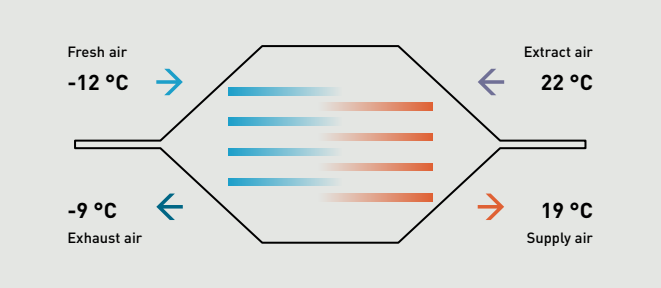
HIGH-EFFICIENCY SENSIBLE HEAT RECOVERY

HIGHLY EFFICIENT AIR RENEWAL AND FILTRATION, WITH 80% EPM1 FILTERS

INTEGRATED AIR QUALITY, HUMIDITY AND TEMPERATURE SENSORS

REMOTE CONTROL VIA WI-FI (OPTIONAL)

Balanced ventilation



Counter flow ventilation units are equipped with two fans to supply and extract air. A cross-flow heat exchanger recovers the energy contained in the extracted air and transfers it to the supplied air. This significantly reduces the building's energy consumption, while at the same time keeping a good quality of the indoor air.

Control options (required, to be ordered separately).

Wall-mounted control with Modbus.
PCZ-AHRP0025

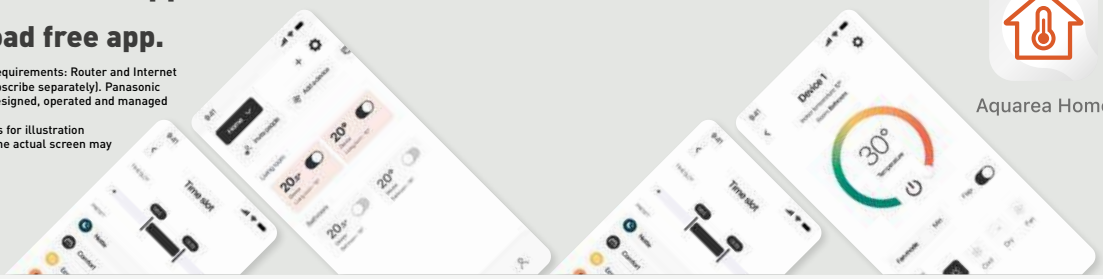
Wall-mounted control with integrated Wi-Fi for remote control via the Aquarea Home App.
PCZ-AHRP0026

- Integrated VOC - CO_2 air quality sensors
- Integrated humidity sensors
- Integrated temperature sensors
- Unit control and settings: Seasonal modes, temperature and fan speed ventilation settings
- Connectivity: Wi-Fi or Modbus

Aquarea Home App

Download free app.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Panasonic Cloud Server is designed, operated and managed by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Aquarea Home

Download on the App Store

GET IT ON Google Play

Aquarea DHW Heat Pumps

Using the natural refrigerant R290, Aquarea DHW Heat Pumps achieve the highest A+ energy efficiency class in their category, significantly reducing energy consumption and CO_2 emissions compared to electric heaters. The range includes wall-mounted and floor-standing models with tank capacities from 100 to 260 litres, designed to meet different household needs.

- A+ HIGH PERFORMANCE AND A+ ENERGY RANK
- -7°C +43°C WIDE OPERATION RANGE
- SAVES MAINTENANCE TIME WITH DRY CHECK FOR MAGNESIUM ANODE
- USER-FRIENDLY TOUCH CONTROL

R290

Check all our certified heat pumps on:
www.heatpumpkeymark.com

Aquarea DHW Heat Pumps

Type		Wall-mounted			Floor-standing		
Reference		**P-DHW100AE5**	**P-DHW150AE5**	**P-DHW200AE5**	**P-DHW200CAE5**	**P-DHW260AE5**	**P-DHW260CAE5**
Performance according to EN 16147							
Reference hot water temperature (T_{ref})	°C	55	55	55	55	55	55
Heating up time (A +14 °C / W 55 °C)	h:m	5:44	8:36	7:24	7:11	9:20	9:37
Heating up time (A +7 °C / W 55 °C)	h:m	6:44	9:48	7:47	7:38	10:24	10:27
Heating up time (A +2 °C / W 55 °C)	h:m	9:53	12:10	11:21	11:14	14:35	14:45
Heating up time in BOOST mode (A +7 °C / W 10-55 °C)	h:m	2:37	4:16	3:43	3:39	4:39	4:55
DHW tank ERP efficiency average / warm / cold	A+ to F	A+/A++/A	A+/A+/A+	A+/A++/A	A+/A++/A	A+/A++/A	A+/A+/A
DHW tank ERP average climate η / COPdHW	ηwh %/COPdHW	116/2,80	122 / 3,00	145 / 3,48	140 / 3,36	146 / 3,52	145 / 3,48
DHW tank ERP warm climate η / COPdHW	ηwh %/COPdHW	133/3,20	137 / 3,40	154 / 3,76	150 / 3,61	155 / 3,78	154 / 3,76
DHW tank ERP cold climate η / COPdHW	ηwh %/COPdHW	92/2,20	109 / 2,70	114 / 2,79	108/2,63	115 / 2,81	114 / 2,79
Indoor sound power [1]	dB(A)	46	46	50	50	50	50
Outdoor sound power [1]	dB(A)	51	51	56	56	56	56
Load profile		M	L	L	L	XL	XL
Water volume	L	100	142	202	194	260	251
Water volume of mixed water at 40 °C / V40	L	128	173	278	267	359	348
Additional coil exchanger connection		—	—	—	1"M	—	1"M
Additional coil surface	m²	—	—	—	1,05	—	1,05
Anticorrosion system	Anode	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
Anti-legionella cycle		Yes	Yes	Yes	Yes	Yes	Yes
Maximum working pressure - storage tank	Mpa (bar)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)
Dimension (H x W x D)	mm	1351 x 520 x 541	1682 x 520 x 541	1621 x 705 x 694	1621 x 705 x 694	1911 x 705 x 694	1911 x 705 x 694
Empty weight	kg	56	71	96	110	113	127
Heat pump air intake temperature range	°C	-5 ~ +43	-5 ~ +43	-7 ~ +43	-7 ~ +43	-7 ~ +43	-7 ~ +43
Maximum water temperature / with heater	°C	60 / 70	60 / 70	65/75	65/75	65/75	65/75
Refrigerant charge (R290)	kg	0,15	0,15	0,15	0,15	0,15	0,15
Power supply / frequency	V / Hz	230/50	230/50	230/50	230/50	230/50	230/50
Total maximum power consumption	W	1726	1726	1970	1970	1970	1970
Heat pump maximum power consumption	W	226	226	470	470	470	470
Electric heating element power consumption	W	1500	1500	1500	1500	1500	1500
Nominal air flow	m³/h	235	235	360	360	360	360
Available external pressure	Pa	71	71	88	88	88	88
Duct diameter	mm	125	125	160	160	160	160

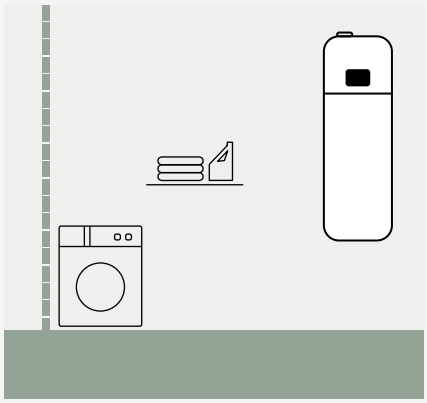
1) According to EN12102.

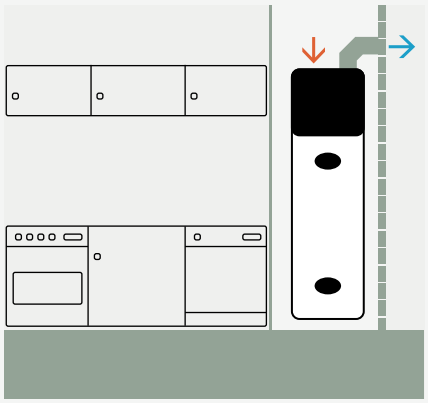
Wall mounted version..
- 100 L and 150 L DHW tank
- Wide operating range from -5 to +43 °C.
- 60 °C hot water only with heat pump

Floor standing version.
- 200 L and 260 L DHW tank
- Version with additional coil for operation with other heat sources such as PV panels
- Wide operating range from -7 to +43 °C
- 65 °C hot water only with heat pump

Space saving design

Side air ducts for easy installation in rooms as small as 2 metres high.





Accessories and control

Controls and room thermostats

Remote controller with Wi-Fi adapter (required for stand-alone outdoor units). M Series. Includes 10 m extension cable.

CZ-RTW2TAW1C

Optional remote controller for 2 zone control. K and L Series.

CZ-RTW1

Optional remote controller for 2 zone control. M Series.

CZ-RTW2-1

Cover for the remote control compartment of the indoor unit. K Series onwards.

PAW-A2W-COV-KL

Wired LCD room thermostat with weekly timer.

PAW-A2W-RTWIRED

Wireless LCD room thermostat with weekly timer.

PAW-A2W-RTWIRELESS

Cascade solutions

Cascade manager for Aquarea Heat Pumps. Cascade up to 10 Aquarea Heat Pumps.

PAW-A2W-CMH-3

Aquarea Cascade Edge (manager) for Aquarea Heat Pumps with P-Smart Edge control and monitoring software. Cascade up to 4 units.

PAW-A2W-CME4

Aquarea Cascade Edge (manager) for Aquarea Heat Pumps with P-Smart Edge control and monitoring software. Cascade up to 10 units.

PAW-A2W-CME10

tado° room control and smart energy management

tado° Room control sets with Heat Pump Optimizer X

Set of tado° Heat Pump Optimizer X and 1x Smart Radiator Thermostat X.

KIT-TSRTXHP0XE

Set of tado° Heat Pump Optimizer X and 4x tado° Smart Radiator Thermostat X.

KIT-TSRTX4HP0XE

Set of tado° Heat Pump Optimizer X and 1x Smart Thermostat X.

KIT-TSTXHP0XE

Set of tado° Heat Pump Optimizer X and 1x Smart Thermostat X and 2x Smart Radiator Thermostat X.

KIT-TSTXSRTX2HP0XE

tado° Room control sets with Bridge X

tado° Smart Radiator Thermostat X with Bridge X.

PAW-TSRTXB

tado° Smart Thermostat X with Bridge X.

PAW-TSTXB

Set of 1x Smart Thermostat X, 2x Smart Radiator Thermostat X and 1x Bridge X.

PAW-TSTXSRTX2B

tado° X devices

tado° Heat Pump Optimizer X (with Europlug).

PAW-THPOXE

tado° Heat Pump Optimizer X extension cable (10m).

PAW-THPO-CBL

tado° Smart Thermostat X.

PAW-TSTX

tado° Wireless Temperature Sensor X.

PAW-TWTSX

tado° Smart Radiator Thermostat X.

PAW-TSRTX

4x tado° Smart Radiator Thermostat X.

PAW-TSRTX4

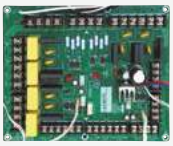
tado° Bridge X.

PAW-TBX

NEW! tado° X Wireless receiver.

PAW-TWRXE

PCBs for additional functions



PCB for advanced functions. H and J Series.

CZ-NS4P

PCB for advanced functions. K and L Series.

CZ-NS5P

PCB for advanced functions. M Series All in One and Bi-bloc.

CZ-NS6P

PCB for advanced functions. M Series control module.

CZ-NS7P

Connectivity

Optional Wi-Fi or WLAN adapter for Panasonic Comfort Cloud app and Aquarea Service Cloud.

CZ-TAW1B

10 m extension cable for CZ-TAW1B.

CZ-TAW1-CBL

Modbus RTU PCB for Aquarea M Series. For installation inside control module or Bi-bloc and All in One using installation kit CZ-NSMB-MTPL.

CZ-NSMB

NEW! Modbus PCB installation kit for Bi-bloc and All in One.

CZ-NSMB-MTPL

NEW! Panasonic Modbus RTU gateway with plastic case, compatible with all Aquarea Series.

CZ-NSMB-C

Modbus RTU gateway. 12 V DC power supply, compatible with Aquarea H Series onwards.

PAW-AZAW-MBS-M

Aquarea Home Network Hub for remote control via the Aquarea Home App.

PCZ-ESW737

External meter gateway for K Series onwards.

PAW-A2W-EXTMETER

NEW! DIN rail-mounted Modbus RTU gateway. Powered via CN-CNT, compatible with Aquarea H Series onwards.

PAW-AW-MBS-M

KNX interface for H Series onwards (Airzone).

PAW-AZAW-KNX-1

KNX interface for H Series onwards (Intesis).

PAW-AW-KNX-H

NEW! EEBUS gateway for H Series onwards.

PAW-AZAW-EEBUS-1

Sensors for Aquarea H Series onwards

Outdoor ambient sensor.

PAW-A2W-TSOD

Zone room sensor.

PAW-A2W-TSRT

Zone water sensor.

PAW-A2W-TSHC

Solar sensor.

PAW-A2W-TSSO

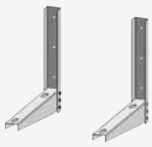
Buffer tank sensor (for H and J Series, PAW-A2W-TSHC required if optional PCB is used.

PAW-A2W-TSBU

In-line heater sensor for the control module M Series.

PAW-A2W-TSBH

All in One indoor unit accessories



NEW! Wall bracket to mount the All in One 120 L on the wall.

*Check availability.

CZ-NW1

Outdoor unit accessories

Base pan heater for Bi-bloc 3 and 5 kW (except L Series) and K Series 7 and 9 kW (1 fan model).

CZ-NE2P

Base pan heater. H and J Series and K Series 9 kW (2 fans model), 12 and 16 kW.

CZ-NE3P

Base pan heater. L Series 5, 7 and 9 kW and M Series.

CZ-NE4P

Base pan heater. M Series 20, 25, 30 kW.

CZ-NE5P

Outdoor base ground support for noise and vibration absorption.
Dimension (H x W x D): 600 x 95 x 130 mm
Safe working load: 500 kg

PAW-GRDBSE20

NEW! Heat pump foundation made from 100% recycled materials

PAW-RPB1AE

Black ground stand for outdoor unit with 940 mm wide condenser water tray.

PAW-GRDSTD940

Black ground stand for outdoor unit with 1100 mm wide condenser water tray.

PAW-GRDSTD1100

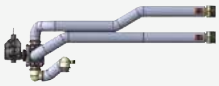
Electric heater foil for the ground stand with 940 mm wide condenser water tray.

PAW-GRDSTDHTR940

Electric heater foil for the ground stand with 1100 mm wide condenser water tray.

PAW-GRDSTDHTR1100

Hydraulic accessories



3 way valve kit to fit inside the hydrokit. H and J Series.

CZ-NV1

3 way valve kit to fit inside the hydrokit. K and L Series.

CZ-NV2

3 way valve kit to fit inside the hydrokit. M Series.

CZ-NV3

NEW! G1" 3 way ball valve with actuator for 3-16 kW heat pumps.

PAW-3WYVLV20-ES

NEW! G1 1/2" 3 way valve with actuator for 20-30 kW heat pumps.

PAW-3WYVLV32-ES

3 way valve for DHW tanks.

PAW-3WYVLV-HW

1 antifreeze valve 1".
It is required to order 2 valves per system. For 9, 12 and 16 kW.

PAW-A2W-AFVLV-1

1 antifreeze valve 1 1/2".
It is required to order 2 valves per system. For 20, 25 and 30 kW.

PAW-A2W-AFVLV-112

NEW! Double circulation unit with mixing function (one direct circuit + one mixing circuit).

PAW-A2W-DCUM1

Optional magnet for the water filter in H Series models.

PAW-A2W-MGTFILTER

Buffer and DHW tanks accessories

NEW! Adjustable 3 phase electric heater D180 mm. Selectable output: 6,00 / 4,00 / 3,00 kW. Compatible with PAW-TE50H1AE.

PAW-HT6F18AE8

NEW! Adjustable 3 phase electric heater D240 mm. Selectable output: 9,00 / 7,50 / 6,00 kW. Compatible with PAW-TE75H1AEAN, PAW-TE90H1AEAN, PAW-BC50FAE, PAW-BC80FAE and PAW-BC100FAE.

PAW-HT9F24AE8

NEW! Jacket for 800 L buffer tank (PAW-BC80FAE).

PAW-JKBC80FAE

NEW! Jacket for 1000 L buffer tank (PAW-BC100FAE).

PAW-JKBC100FAE

NEW! Jacket for 750 L DHW tank (PAW-TE75H1AEAN).

PAW-JKTE75H1AE

NEW! Jacket for 900 L DHW tank (PAW-TE90H1AEAN).

PAW-JKTE90H1AE

Aquarea DHW Heat Pumps accessories

NEW! Stand for wall-mounted models (required for installation in non-load-bearing walls).

PAW-DHW-STAND-1

NEW! Accessory kit for external connection (PV or water pump for circulation).

PAW-DHWSOLAR-KIT

EcoFleX accessories

CONEX wired remote controller (non-wireless), white.

CZ-RTC6W

CONEX wired remote controller with Bluetooth®, white.

CZ-RTC6WBL

CONEX wired remote controller with Wi-Fi and Bluetooth®, white.

CZ-RTC6WBLW2

CONEX wired remote controller (non-wireless), black.

CZ-RTC6

CONEX wired remote controller with Bluetooth®, black.

CZ-RTC6BL

CONEX wired remote controller with Wi-Fi and Bluetooth®, black.

CZ-RTC6BLW2

Wired remote controller for wall-mounted.

CZ-RD517C

Infrared remote controller Sky Remote. 2 m cable length of infrared receiver for hide-away.

CZ-RL511D

Reduces the connection size on the indoor unit from 1/2" to 3/8".

CZ-MA1PA

Increases the connection size on the outdoor unit from 3/8" to 1/2".

CZ-MA2PA

Reduces the connection size on the indoor unit from 5/8" to 1/2".

CZ-MA3PA

Aquarea Air Smart fan coil – Floor standing accessories

Control accessories

Wall-mounted control with Modbus for Aquarea Air Smart fan coils.

PCZ-EEB749

Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.

PCZ-EFB749

Wall-mounted control PCB for Aquarea Air Smart fan coil – Floor standing.

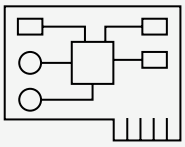
PCZ-ESE845

On-board display with Modbus for Aquarea Air Smart fan coil – Floor standing.

PCZ-ECA844

On-board display with integrated Wi-Fi for Aquarea Air Smart fan coil – Floor standing.

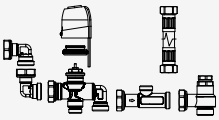
PCZ-EWA844



PCB for analog control (0-10V) for Aquarea Air Smart fan coil – Floor standing.

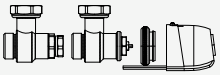
PCZ-B10842

Hydraulic accessories



3 way valve with motor for Aquarea Air Smart fan coil – Floor standing.

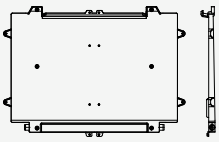
PCZ-V30720



2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.

PCZ-V20139

Installation accessories



Condensate drip tray for horizontal installation. For P-FAL10.

PCZ-GB0520

Condensate drip tray for horizontal installation. For P-FAL20.

PCZ-GB0521

Condensate drip tray for horizontal installation. For P-FAL30.

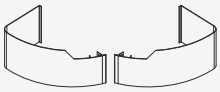
PCZ-GB0522

Condensate drip tray for horizontal installation. For P-FAL35.

PCZ-GB0523

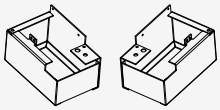
Condensate drip tray for horizontal installation. For P-FAL40.

PCZ-GB0524



Set of 2 legs to protect water pipes for Aquarea Air Smart fan coil – Floor standing.

PCZ-LC0158



Set of 2 legs to anchor the Aquarea Air Smart fan coil – Floor standing to the floor.

PCZ-LC0606

Aquarea Air Smart fan coil wall-mounted accessories

Control accessories

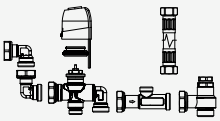
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.

PCZ-EEB749

Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.

PCZ-EFB749

Hydraulic accessories

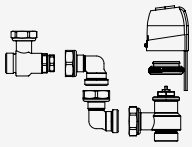


3 way valve with motor for Aquarea Air wall-mounted 10, 15 and 20.

PCZ-V30688

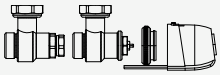
3 way valve with motor for Aquarea Air wall-mounted 40.

PCZ-V30718



2 way valve with motor for Aquarea Air wall-mounted 10, 15 and 20.

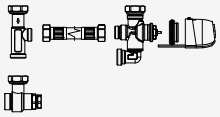
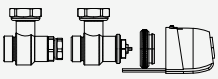
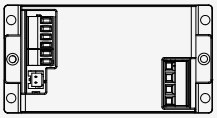
PCZ-V20687

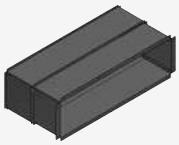


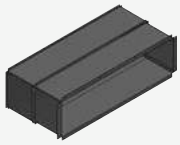
2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.

PCZ-V20139

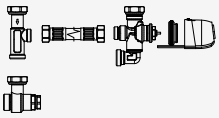
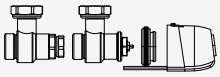
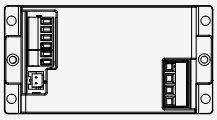
Aquarea Air Smart fan coil – Ducted thin accessories

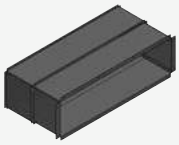
Control accessories		Hydraulic accessories		
				
Wall-mounted control with Modbus for Aquarea Air Smart fan coils. ———— PCZ-EEB749	**Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.** ———— PCZ-EFB749	**3 way valve with motor for Aquarea Air Smart fan coil – Ducted.** ———— PCZ-V30361	**2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.** ———— PCZ-V20139	**PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.** ———— PCZ-EG1028

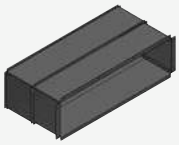
Replacement recirculation filter kit	Delivery plates	Return plenum	90° shooting plenum	Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm	Grille for telescopic kit for rear intake
					
For P-FSN20 and P-FTN15. ———— PCZ-AHRD0491	**With 2 circular inlets DN 160 mm. For P-FTN15.** ———— PCZ-AHRD0561	**With 2 circular inlets DN 160 mm. For P-FTN15.** ———— PCZ-AHRD0566	**For P-FTN15.** ———— PCZ-AHRD0576	**For P-FTN15.** ———— PCZ-AHRD0581	**For P-FTN15.** ———— PCZ-AHRD0586
For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30. ———— PCZ-AHRD0492	**With 3 circular inlets DN 160 mm. For P-FTN20.** ———— PCZ-AHRD0562	**With 3 circular inlets DN 160 mm. For P-FTN20.** ———— PCZ-AHRD0567	**For P-FTN20 and P-FTQ30.** ———— PCZ-AHRD0577	**For P-FTN20.** ———— PCZ-AHRD0582	**For P-FTN20.** ———— PCZ-AHRD0587
For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45. ———— PCZ-AHRD0493	**With 4 circular inlets DN 160 mm. For P-FTN25.** ———— PCZ-AHRD0563	**With 4 circular inlets DN 160 mm. For P-FTN25.** ———— PCZ-AHRD0568	**For P-FTN25 and P-FTQ45.** ———— PCZ-AHRD0578	**For P-FTN25.** ———— PCZ-AHRD0583	**For P-FTN25.** ———— PCZ-AHRD0588
For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60. ———— PCZ-AHRD0494	**With 6 circular inlets DN 160 mm. For P-FTN35.** ———— PCZ-AHRD0564	**With 6 circular inlets DN 160 mm. For P-FTN35.** ———— PCZ-AHRD0569	**For P-FTN35 and P-FTQ60.** ———— PCZ-AHRD0579	**For P-FTN35.** ———— PCZ-AHRD0584	**For P-FTN35.** ———— PCZ-AHRD0589
For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65. ———— PCZ-AHRD0495	**With 7 circular inlets DN 160 mm. For P-FTN45.** ———— PCZ-AHRD0565	**With 7 circular inlets DN 160 mm. For P-FTN45.** ———— PCZ-AHRD0570	**For P-FTN45 and P-FTQ65.** ———— PCZ-AHRD0580	**For P-FTN45.** ———— PCZ-AHRD0585	**For P-FTN45.** ———— PCZ-AHRD0590

Plenum kit for external air connection with damper for room recirculation	Ducting plate plenum kit for outdoor air connection with damper	90° plenum for outdoor air kit with damper	Telescopic kit. For plenum for outdoor air kit with damper	Grille for telescopic kit. For plenum for outdoor air kit with damper
				
For P-FTN15. ———— PCZ-AHRD0571	**For P-FTN15.** ———— PCZ-AHRD0611	**For P-FTN15.** ———— PCZ-AHRD0616	**For P-FTN15.** ———— PCZ-AHRD0621	**For P-FTN15.** ———— PCZ-AHRD0626
For P-FTN20 and P-FTQ30. ———— PCZ-AHRD0572	**For P-FTN20 and P-FTQ30.** ———— PCZ-AHRD0612	**For P-FTN20 and P-FTQ30.** ———— PCZ-AHRD0617	**For P-FTN20 and P-FTQ30.** ———— PCZ-AHRD0622	**For P-FTN20 and P-FTQ30.** ———— PCZ-AHRD0627
For P-FTN25 and P-FTQ45. ———— PCZ-AHRD0573	**For P-FTN25 and P-FTQ45.** ———— PCZ-AHRD0613	**For P-FTN25 and P-FTQ45.** ———— PCZ-AHRD0618	**For P-FTN25 and P-FTQ45.** ———— PCZ-AHRD0623	**For P-FTN25 and P-FTQ45.** ———— PCZ-AHRD0628
For P-FTN35 and P-FTQ60. ———— PCZ-AHRD0574	**For P-FTN35 and P-FTQ60.** ———— PCZ-AHRD0614	**For P-FTN35 and P-FTQ60.** ———— PCZ-AHRD0619	**For P-FTN35 and P-FTQ60.** ———— PCZ-AHRD0624	**For P-FTN35 and P-FTQ60.** ———— PCZ-AHRD0629
For P-FTN45 and P-FTQ65. ———— PCZ-AHRD0575	**For P-FTN45 and P-FTQ65.** ———— PCZ-AHRD0615	**For P-FTN45 and P-FTQ65.** ———— PCZ-AHRD0620	**For P-FTN45 and P-FTQ65.** ———— PCZ-AHRD0625	**For P-FTN45 and P-FTQ65.** ———— PCZ-AHRD0630

Aquarea Air Smart fan coil – Ducted accessories

Control accessories		Hydraulic accessories		
				
Wall-mounted control with Modbus for Aquarea Air Smart fan coils. ———— PCZ-EEB749	**Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.** ———— PCZ-EFB749	**3 way valve with motor for Aquarea Air Smart fan coil – Ducted.** ———— PCZ-V30361	**2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.** ———— PCZ-V20139	**PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.** ———— PCZ-EG1028

Replacement recirculation filter kit	Delivery plates	Return plenum	90° shooting plenum	Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm	Grille for telescopic kit for rear intake
					
For P-FSN20 and P-FTN15. ———— PCZ-AHRD0491	**With 2 circular inlets DN 160 mm. For P-FSN20.** ———— PCZ-AHRD0431	**With 2 circular inlets DN 160 mm. For P-FSN20.** ———— PCZ-AHRD0461	**For P-FSN20.** ———— PCZ-AHRD0521	**For P-FSN20.** ———— PCZ-AHRD0531	**For P-FSN20.** ———— PCZ-AHRD0541
For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30. ———— PCZ-AHRD0492	**With 3 circular inlets DN 160 mm. For P-FSN25.** ———— PCZ-AHRD0432	**With 3 circular inlets DN 160 mm. For P-FSN25.** ———— PCZ-AHRD0462	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0522	**For P-FSN25.** ———— PCZ-AHRD0532	**For P-FSN25.** ———— PCZ-AHRD0542
For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45. ———— PCZ-AHRD0493	**With 4 circular inlets DN 160 mm. For P-FSN35.** ———— PCZ-AHRD0433	**With 4 circular inlets DN 160 mm. For P-FSN35.** ———— PCZ-AHRD0463	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0523	**For P-FSN35.** ———— PCZ-AHRD0533	**For P-FSN35.** ———— PCZ-AHRD0543
For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60. ———— PCZ-AHRD0494	**With 6 circular inlets DN 160 mm. For P-FSN45.** ———— PCZ-AHRD0434	**With 6 circular inlets DN 160 mm. For P-FSN45.** ———— PCZ-AHRD0464	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0524	**For P-FSN45.** ———— PCZ-AHRD0534	**For P-FSN45.** ———— PCZ-AHRD0544
For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65. ———— PCZ-AHRD0495	**With 7 circular inlets DN 160 mm. For P-FSN55.** ———— PCZ-AHRD0435	**With 7 circular inlets DN 160 mm. For P-FSN55.** ———— PCZ-AHRD0465	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0525	**For P-FSN55.** ———— PCZ-AHRD0535	**For P-FSN55.** ———— PCZ-AHRD0545

Plenum kit for external air connection with damper for room recirculation	Ducting plate plenum kit for outdoor air connection with damper	90° plenum for outdoor air kit with damper	Telescopic kit. For plenum for outdoor air kit with damper	Grille for telescopic kit. For plenum for outdoor air kit with damper
				
For P-FSN20. ———— PCZ-AHRD0639	**For P-FSN20.** ———— PCZ-AHRD0651	**For P-FSN20.** ———— PCZ-AHRD0656	**For P-FSN20.** ———— PCZ-AHRD0661	**For P-FSN20.** ———— PCZ-AHRD0666
For P-FSN25 and P-FSQ30. ———— PCZ-AHRD0640	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0652	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0657	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0662	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0667
For P-FSN35 and P-FSQ45. ———— PCZ-AHRD0641	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0653	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0658	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0663	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0668
For P-FSN45 and P-FSQ60. ———— PCZ-AHRD0642	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0654	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0659	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0664	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0669
For P-FSN55 and P-FSQ75. ———— PCZ-AHRD0643	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0655	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0660	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0665	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0670

Aquarea Air Smart fan coil – Ducted multi zone thin accessories

Control accessories

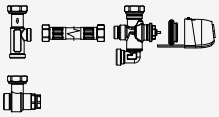
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.

————
PCZ-EEB749

Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.

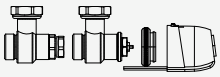
————
PCZ-EFB749

Hydraulic accessories



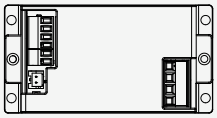
3 way valve with motor for Aquarea Air Smart fan coil – Ducted.

————
PCZ-V30361



2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.

————
PCZ-V20139



PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.

————
PCZ-EG1028

Replacement recirculation filter kit

For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30.
————
PCZ-AHRD0492

For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45.
————
PCZ-AHRD0493

For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60.
————
PCZ-AHRD0494

For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65.
————
PCZ-AHRD0495

Return plenum

With 2 circular inlets DN 160 mm. For P-FTQ30.
————
PCZ-AHRD0682

With 3 circular inlets DN 160 mm. For P-FTQ45.
————
PCZ-AHRD0683

With 4 circular inlets DN 160 mm. For P-FTQ60.
————
PCZ-AHRD0684

With 5 circular inlets DN 160 mm. For P-FTQ65.
————
PCZ-AHRD0685

90° shooting plenum

For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0577

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0578

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0579

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0580

Plenum kit for external air connection with damper for room recirculation

For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0572

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0573

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0574

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0575

Ducting plate plenum kit for outdoor air connection with damper

For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0612

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0613

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0614

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0615

90° plenum for outdoor air kit with damper

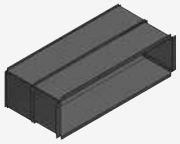
For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0617

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0618

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0619

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0620

Telescopic kit. For plenum for outdoor air kit with damper



For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0622

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0623

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0624

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0625

Grille for telescopic kit. For plenum for outdoor air kit with damper

For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0627

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0628

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0629

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0630

Non-return damper

Non-return damper. For P-FTQ and P-FSQ.

————
PCZ-AHRD0519

Aquarea Air Smart fan coil – Ducted multi zone accessories

Control accessories

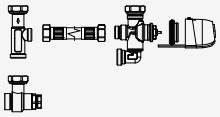
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.

PCZ-EEB749

Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.

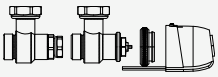
PCZ-EFB749

Hydraulic accessories



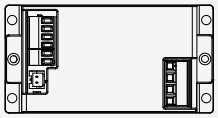
3 way valve with motor for Aquarea Air Smart fan coil – Ducted.

PCZ-V30361



2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.

PCZ-V20139



PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.

PCZ-EG1028

Replacement recirculation filter kit

For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30.

PCZ-AHRD0492

For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45.

PCZ-AHRD0493

For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60.

PCZ-AHRD0494

For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65.

PCZ-AHRD0495

Return plenum

With 2 circular inlets DN 160 mm. For P-FSQ30.

PCZ-AHRD0466

With 3 circular inlets DN 160 mm. For P-FSQ45.

PCZ-AHRD0467

With 4 circular inlets DN 160 mm. For P-FSQ60.

PCZ-AHRD0468

With 5 circular inlets DN 160 mm. For P-FSQ75.

PCZ-AHRD0469

90° shooting plenum

For P-FSN25 and P-FSQ30.

PCZ-AHRD0522

For P-FSN35 and P-FSQ45.

PCZ-AHRD0523

For P-FSN45 and P-FSQ60.

PCZ-AHRD0524

For P-FSN55 and P-FSQ75.

PCZ-AHRD0525

Plenum kit for external air connection with damper for room recirculation

For P-FSN25 and P-FSQ30.

PCZ-AHRD0640

For P-FSN35 and P-FSQ45.

PCZ-AHRD0641

For P-FSN45 and P-FSQ60.

PCZ-AHRD0642

For P-FSN55 and P-FSQ75.

PCZ-AHRD0643

90° plenum for outdoor air kit with damper

For P-FSN25 and P-FSQ30.

PCZ-AHRD0657

For P-FSN35 and P-FSQ45.

PCZ-AHRD0658

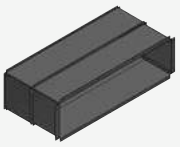
For P-FSN45 and P-FSQ60.

PCZ-AHRD0659

For P-FSN55 and P-FSQ75.

PCZ-AHRD0660

Telescopic kit. For plenum for outdoor air kit with damper



For P-FSN25 and P-FSQ30.

PCZ-AHRD0662

For P-FSN35 and P-FSQ45.

PCZ-AHRD0663

For P-FSN45 and P-FSQ60.

PCZ-AHRD0664

For P-FSN55 and P-FSQ75.

PCZ-AHRD0665

Grille for telescopic kit. For plenum for outdoor air kit with damper

For P-FSN25 and P-FSQ30.

PCZ-AHRD0667

For P-FSN35 and P-FSQ45.

PCZ-AHRD0668

For P-FSN45 and P-FSQ60.

PCZ-AHRD0669

For P-FSN55 and P-FSQ75.

PCZ-AHRD0670

Non-return damper

Non-return damper. For P-FTQ and P-FSQ.

PCZ-AHRD0519

Flex Air Smart fan coil – Wall-mounted

CONEX wired remote controller (non-wireless), white.

CZ-RTC6W

CONEX wired remote controller with Bluetooth®, white.

CZ-RTC6WBL

CONEX wired remote controller with Wi-Fi and Bluetooth®, white.

CZ-RTC6WBLW2

CONEX wired remote controller (non-wireless), black.

CZ-RTC6

CONEX wired remote controller with Bluetooth®, black.

CZ-RTC6BL

CONEX wired remote controller with Wi-Fi and Bluetooth®, black.

CZ-RTC6BLW2

Design wired remote controller with Econavi function.

CZ-RTC5B

Infrared remote controller.

CZ-RWS3

Econavi energy saving sensor.

CZ-CENSC1

Wired remote controller for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

PAW-FC-903EC

System controller for 64 indoor units with weekly timer.

CZ-64ESMC3

Intelligent controller (touch screen/web server) to control up to 256 indoors with included load distribution ratio (LDR).

CZ-256ESMC3

Central ON / OFF controller, up to 16 groups, 64 indoor units.

CZ-ANC3

Flex Air Smart fan coil – Medium static pressure duct

Smart controller. Mini building management system, up to 15 zones and 31 units.

SRC

CONEX wired remote controller (non-wireless), white.

CZ-RTC6W

CONEX wired remote controller with Bluetooth®, white.

CZ-RTC6WBL

CONEX wired remote controller with Wi-Fi and Bluetooth®, white.

CZ-RTC6WBLW2

CONEX wired remote controller (non-wireless), black.

CZ-RTC6

CONEX wired remote controller with Bluetooth®, black.

CZ-RTC6BL

CONEX wired remote controller with Wi-Fi and Bluetooth®, black.

CZ-RTC6BLW2

Infrared remote controller and receiver for all indoor units.

CZ-RWS3 + CZ-RWRC3

Wired remote controller with touch control for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

PAW-FC-907EC

Wired remote controller for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

PAW-FC-903EC

Flex Air fan coils

Electro-mechanical controller (supplied loose).

———

TRM-FA

Electronic controller.

———

Plogic

Electronic controller.

———

TControl EASY 3S

Electronic controller.

———

TControl POD glass

Wired remote controller with touch control for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

———

PAW-FC-907EC

Wired remote controller with touch control for 2-pipe, AC fan coil (control only).

———

PAW-FC-907AC

Wired remote controller for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

———

PAW-FC-903EC

Wired remote controller for 2-pipe, AC fan coil (control only).

———

PAW-FC-903AC

Advanced wired remote controller for fan coil.

———

PAW-FC-RC1

Smart controller. Mini building management system, up to 15 zones and 31 units.

———

SRC

Plogic remote control with integrated temperature sensor.

———

WRC / MRC

Plogic remote control.

———

BRC

Plogic remote control with integrated temperature sensor.

———

IRC

Sanitary tank accessories

Tank sensor with 5 m cable length.

———

PAW-TS1

Tank sensor with 20 m cable length.

———

PAW-TS2

Tank sensor with 5 m cable length and only 6 mm diameter.

———

PAW-TS4

Temperature sensor kit for third party tank (with copper pocket and 20 m length sensor cable).

———

CZ-TK1

Impressed current anode for 200 L Stainless steel tanks.

———

PAW-EANODE2

Impressed current anode for 300 L Stainless steel tanks.

———

PAW-EANODE3

Heat recovery ventilation accessories

Supply and extract filters kit.

PAW-VEN-FLTKIT

Optional PCB for additional functions.

PAW-VEN-ACCPCB

HRV touch control panel. White frame (cable must be ordered separately).

PAW-VEN-DPL

Cable with plug for electrical connection between unit and control panel, type CE and CD (12 m).

PAW-VEN-CBLEXT12

Twin plugs for installation of several control panels type CD or CE for one unit.

PAW-VEN-DIVPLG

HRV touch control panel wall-mounted kit.

PAW-VEN-DPLBOX

CO_2 RH wall-mounted sensor.

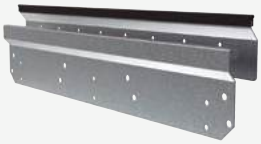
PAW-VEN-S-CO2RH-W

CO_2 wall-mounted sensor.

PAW-VEN-S-CO2-W

CO_2 duct sensor.

PAW-VEN-S-CO2-D



Wall bracket kit for stand-alone installation on the wall.

PAW-VEN-WBRK

Electrical duct heater 0,6 kW (includes relay).

PAW-VEN-HTR06

Electrical duct heater 1,2 kW (includes relay).

PAW-VEN-HTR12

Aquarea Vent accessories

Remote controller (required, to be ordered separately)

Wall-mounted control with Modbus for Aquarea Vent.

PCZ-AHRP0025

Wall-mounted control with integrated Wi-Fi for Aquarea Vent.

PCZ-AHRP0026

Electrical duct heater

Electrical duct heater 0,5 kW, DN 160 mm.

PCZ-AHRP0421

Electrical duct heater 1,0 kW, DN 160 mm.

PCZ-AHRP0422

Filters

Spare F7 filter kit (2 pcs) for models 15Z, 20Z, 30Z, 15H and 15V.

PCZ-AHRP0501

Spare F7 filter kit (2 pcs) for models 30H.

PCZ-AHRP0507

Spare F7 filter kit (2 pcs) for models 30V.

PCZ-AHRP0502

Spare F7 filter kit (2 pcs) for models 35H and 45H.

PCZ-AHRP0503

Spare F7 filter kit (2 pcs) for models 40V and 45V.

PCZ-AHRP0504

Activated carbon filter (1 pc) for models 15Z, 20Z, 30Z, 15H and 15V.

PCZ-AHRP0901

Activated carbon filter (1 pc) for models 30H.

PCZ-AHRP0508

Activated carbon filter (1 pc) for models 30V.

PCZ-AHRP0902

Activated carbon filter (1 pc) for models 35H and 45H.

PCZ-AHRP0903

Activated carbon filter (1 pc) for models 40V and 45V.

PCZ-AHRP0904

External wall grid

External wall grid with flow deviation. Stainless steel, DN 160 mm.

PCZ-STE016181

External roof grill

Roof terminal. Stainless steel, DN 160 mm.

PCZ-STE016185

Through for flat roof terminal. Stainless steel, DN 160 mm.

PCZ-STE016190

Through for terminal inclined roof 45°. Stainless steel, DN 160 mm.

PCZ-STE016191

Through insulation collar for roof terminal.

PCZ-STE080189

Primary pipe connections

Insulated joint male/male. DN 160 mm.

PCZ-SRA116110

Insulated sleeve female/female. DN 160 mm.

PCZ-SRA116120

Insulated reducer female/male. DN 160 mm to DN 125 mm.

PCZ-SRA112132

Insulated reducer female/male. DN 200 mm to DN 160 mm.

PCZ-SRA116132

Primary EPP connections

Rigid insulated pipe (primary EPP pipe). DN 160 mm, L= 1 mt, 1 joint included.

PCZ-SCS116001

Elbow 90° (primary EPP pipe. DN 160 mm, 1 joint included.

PCZ-SCS116090

Connection joint (primary EPP pipe). DN 160 mm.

PCZ-SCS116160

Reducer (primary EPP pipe). DN 160 mm to DN 125mm.

PCZ-SCS116120

Primary flexible pipe

10 m primary flexible duct with insulated hose. DH 160 mm.

PCZ-SCE116010

10 m primary flexible duct with insulated aluphonic hose. DH 160 mm.

PCZ-SCE316010

Flexible pipe connections

Hose clamp for hose. 60/325 mm.

PCZ-SCE099120

Black air-tight anti-condensation tape. 50 mm x 10 m.

PCZ-SCE199121

Aluminium tape. 50 mm x 10 m. Sp 40 µm.

PCZ-SCE199122

Silencers

Flexible silencer male/male. DN 160 mm, SP 25 mm, L= 1000 mm.

PCZ-SCE216001

Distribution manifolds and accessories

TG1 insulated steel manifold with inspection door and side/front/perpendicular exits. 1x DN 160 mm - 4+4+4x DN 75/90 mm.

PCZ-SCO164044

TG2 insulated steel manifold with inspection door and side/front/perpendicular exits. 1x DN 160 mm - 4+8+4x DN 75/90 mm.

PCZ-SCO164084

TG3 insulated steel manifold with inspection door and side/front/perpendicular exits. 1x DN 160 mm - 4+12+4x DN 75/90 mm.

PCZ-SCO164124

Manifold/ plenum coupling for DN 75 mm corrugated start.

PCZ-SRS075140

Collector blind plug for manifold.

PCZ-SRS080141

Static flow regulator. 15=> 50 m³/h, step minimum= 5 m³/h.

PCZ-SRP080001

Corrugated pipe system with accessories

50 m corrugated pipe coil. DN 75 mm.

PCZ-SRS075050

O-Ring. DN 75 mm.

PCZ-SRS075145

Corrugated pipe blind plug. DN 75 mm.

PCZ-SRS075150

Joint male/male. DN 75 mm including two O-ring.

PCZ-SRS075120

Fixing clip. DN 75 mm. Use every 1,5 - 2 m linear and before and after each curve.

PCZ-SRS075155

90° vertical angle. DN 75 mm. Two O-rings included.

PCZ-SRS075160

Room plenum

EPP polypropylene diffuser, modular and patented with 75/90 mm coupling, coupling for modular coupling , filter and installation brackets.

PCZ-REV081111

Replacement filter (10 pcs).

PCZ-SBO130860

Room grills with round holes

Grid 1x perforated round hole. Steel, white finish, 190 x 140 mm.

PCZ-SBO130801

Grid 2x perforated round hole. Steel, white finish, 360 x 140 mm.

PCZ-SBO300801

Grid 3x perforated round hole. Steel, white finish, 540 x 140 mm.

PCZ-SBO480801

Grid 4x perforated round hole. Steel, white finish, 360 x 260 mm.

PCZ-SBO302001

Room grills with square holes

Grid 1x perforated square hole. Steel, white finish, 190 x 140 mm.

PCZ-SBO130802

Grid 2x perforated square hole. Steel, white finish, 360 x 140 mm.

PCZ-SBO300802

Grid 3x perforated square hole. Steel, white finish, 540 x 140 mm.

PCZ-SBO480802

Grid 5x perforated square hole. Steel, white finish, 360 x 260 mm.

PCZ-SBO302002

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

Aquarea T-CAP Hydraulic M Series. Three phase · R290

WH-WXG09ME5																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	65	65	65	75	75	75
-25	7,90	3,50	2,26	8,20	4,20	1,95	7,90	4,80	1,65	7,60	5,70	1,33	—	—	—	—	—	—
-20	7,90	2,94	2,69	8,20	3,34	2,46	7,90	3,99	1,98	7,60	4,76	1,60	7,10	5,30	1,34	—	—	—
-15	9,00	2,74	3,28	9,00	3,30	2,73	9,00	3,97	2,27	9,00	4,48	2,01	9,00	5,27	1,71	8,20	6,50	1,26
-7	9,00	2,26	3,98	9,00	2,61	3,45	9,00	3,35	2,69	9,00	3,83	2,35	9,00	4,68	1,92	9,00	5,90	1,53
2	8,80	1,95	4,51	9,00	2,36	3,81	9,00	2,91	3,09	9,00	3,54	2,54	9,00	4,29	2,10	9,00	5,50	1,64
7	9,00	1,24	7,26	9,00	1,72	5,23	9,00	2,30	3,91	9,00	2,78	3,24	9,00	3,46	2,60	8,90	4,98	1,79
25	7,20	0,86	8,37	9,00	1,08	8,33	9,00	1,55	5,81	9,00	2,05	4,39	9,00	2,68	3,36	8,40	3,45	2,43
WH-WXG12ME5																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	65	65	65	75	75	75
-25	10,20	4,90	2,08	10,50	5,55	1,89	9,50	5,75	1,65	8,65	5,90	1,47	—	—	—	—	—	—
-20	11,00	4,25	2,59	11,20	4,75	2,36	10,00	5,00	2,00	10,00	5,70	1,75	9,10	5,80	1,57	—	—	—
-15	12,00	4,27	2,81	12,00	4,56	2,63	11,50	5,42	2,12	11,00	5,50	2,00	10,00	5,88	1,70	9,00	6,10	1,48
-7	11,50	3,68	3,13	12,00	4,00	3,00	12,00	5,02	2,39	12,00	5,53	2,17	11,00	6,01	1,83	10,00	6,20	1,61
2	11,50	2,92	3,94	12,00	3,39	3,54	12,00	4,20	2,86	12,00	4,95	2,42	12,00	5,94	2,02	10,50	6,20	1,69
7	12,00	1,93	6,22	12,00	2,37	5,06	12,00	3,13	3,83	12,00	3,71	3,23	12,00	4,62	2,60	12,00	6,10	1,97
25	9,80	1,10	8,91	12,00	1,40	8,57	12,00	2,00	6,00	12,00	2,60	4,62	12,00	3,26	3,68	12,00	3,92	3,06
WH-WXG09ME8																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	65	65	65	75	75	75
-25	7,90	3,50	2,26	8,20	4,20	1,95	7,90	4,80	1,65	7,60	5,70	1,33	—	—	—	—	—	—
-20	7,90	2,94	2,69	8,20	3,34	2,46	7,90	3,99	1,98	7,60	4,76	1,60	7,10	5,30	1,34	—	—	—
-15	9,00	2,74	3,28	9,00	3,30	2,73	9,00	3,97	2,27	9,00	4,48	2,01	9,00	5,27	1,71	8,20	6,50	1,26
-7	9,00	2,26	3,98	9,00	2,61	3,45	9,00	3,35	2,69	9,00	3,83	2,35	9,00	4,68	1,92	9,00	5,90	1,53
2	8,80	1,95	4,51	9,00	2,36	3,81	9,00	2,91	3,09	9,00	3,54	2,54	9,00	4,29	2,10	9,00	5,50	1,64
7	9,00	1,24	7,26	9,00	1,72	5,23	9,00	2,30	3,91	9,00	2,78	3,24	9,00	3,46	2,60	8,90	4,98	1,79
25	7,20	0,86	8,37	9,00	1,08	8,33	9,00	1,55	5,81	9,00	2,05	4,39	9,00	2,68	3,36	8,40	3,45	2,43
WH-WXG12ME8																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	65	65	65	75	75	75
-25	10,20	4,90	2,08	10,50	5,55	1,89	9,80	6,70	1,46	9,70	7,40	1,31	—	—	—	—	—	—
-20	11,00	4,25	2,59	11,20	4,75	2,36	11,00	5,50	2,00	10,20	6,45	1,67	10,30	7,95	1,36	—	—	—
-15	12,00	4,27	2,81	12,00	4,56	2,63	12,00	5,67	2,12	12,00	6,00	2,00	12,00	7,06	1,70	11,00	8,45	1,30
-7	11,50	3,68	3,13	12,00	4,00	3,00	12,00	5,02	2,39	12,00	5,53	2,17	12,00	6,57	1,83	11,60	7,30	1,59
2	11,50	2,92	3,94	12,00	3,39	3,54	12,00	4,20	2,86	12,00	4,95	2,42	12,00	5,94	2,02	12,00	7,30	1,64
7	12,00	1,93	6,22	12,00	2,37	5,06	12,00	3,13	3,83	12,00	3,71	3,23	12,00	4,62	2,60	12,00	6,10	1,97
25	9,80	1,10	8,91	12,00	1,40	8,57	12,00	2,00	6,00	12,00	2,60	4,62	12,00	3,26	3,68	12,00	3,92	3,06
WH-WXG16ME8																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	65	65	65	75	75	75
-25	14,20	6,80	2,09	14,20	7,80	1,82	14,20	8,60	1,65	14,00	10,53	1,33	—	—	—	—	—	—
-20	14,20	5,40	2,63	14,20	6,10	2,33	14,20	6,90	2,06	14,20	8,10	1,75	14,20	10,16	1,40	—	—	—
-15	16,00	5,90	2,71	16,00	6,70	2,39	16,00	7,70	2,08	16,00	8,70	1,84	16,00	10,15	1,58	14,20	10,90	1,30
-7	16,00	5,40	2,96	16,00	6,32	2,53	16,00	7,10	2,25	16,00	8,12	1,97	16,00	9,40	1,70	16,00	10,30	1,55
2	16,00	3,63	4,41	16,00	4,85	3,30	16,00	5,88	2,72	16,00	6,75	2,37	16,00	8,15	1,96	16,00	9,99	1,60
7	16,00	2,70	5,93	16,00	3,27	4,89	16,00	4,19	3,82	16,00	5,00	3,20	16,00	6,30	2,54	16,00	7,60	2,11
25	16,00	1,45	11,03	16,00	1,99	8,04	16,00	2,85	5,61	16,00	3,65	4,38	16,00	4,75	3,37	16,00	6,30	2,54

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea T-CAP Hydraulic M Series. Three phase · R290

WH-WXG09ME5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	9,80	2,00	4,90	11,00	2,04	5,39	10,80	1,38	7,83
25	9,30	2,28	4,08	10,50	2,35	4,47	10,20	1,49	6,85
35	9,00	2,49	3,61	9,80	2,63	3,73	9,00	1,71	5,26
43	8,40	2,80	3,00	9,00	2,88	3,13	8,60	2,00	4,30
WH-WXG12ME5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	12,00	2,50	4,80	13,70	2,60	5,27	12,00	1,73	6,94
25	12,00	3,05	3,93	13,50	3,12	4,33	12,00	1,88	6,38
35	12,00	4,21	2,85	13,20	3,25	4,06	12,00	2,80	4,29
43	9,60	4,35	2,21	10,00	4,35	2,30	12,00	3,60	3,33
WH-WXG09ME8									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	9,80	2,00	4,90	11,00	2,04	5,39	10,80	1,38	7,83
25	9,30	2,28	4,08	10,50	2,35	4,47	10,20	1,49	6,85
35	9,00	2,49	3,61	9,80	2,63	3,73	9,00	1,71	5,26
43	8,40	2,80	3,00	9,00	2,88	3,13	8,60	2,00	4,30
WH-WXG12ME8									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	12,00	2,50	4,80	13,70	2,60	5,27	12,00	1,73	6,94
25	12,00	3,05	3,93	13,50	3,12	4,33	12,00	1,88	6,38
35	12,00	4,21	2,85	13,20	3,25	4,06	12,00	2,80	4,29
43	10,80	4,89	2,21	11,20	4,87	2,30	12,00	3,60	3,33
WH-WXG16ME8									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	15,50	3,00	5,17	15,80	2,75	5,75	16,00	2,50	6,40
25	15,00	3,75	4,00	15,50	3,40	4,56	16,00	3,10	5,16
35	14,50	5,05	2,87	14,50	4,50	3,22	15,50	3,95	3,92
43	12,00	5,15	2,33	12,00	5,20	2,31	15,00	5,35	2,80

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

Big Aquarea T-CAP Hydraulic Stand-alone M Series. Three phase · R290

WH-WXG20ME8																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**65**	**65**	**65**	**75**	**75**	**75**
-25	20,00	9,15	2,19	20,00	11,23	1,78	20,00	13,32	1,50	—	—	—	—	—	—	—	—	—
-20	20,00	8,55	2,34	20,00	10,50	1,90	20,00	12,45	1,61	20,00	14,40	1,39	On request			—	—	—
-15	20,00	6,80	2,94	20,00	8,53	2,34	20,00	10,27	1,95	20,00	12,00	1,67	20,00	10,45	1,91	—	—	—
-7	20,00	6,83	2,93	20,00	8,05	2,48	20,00	9,28	2,16	20,00	10,50	1,90	20,00	10,60	1,89	—	—	—
2	20,00	3,99	5,01	20,00	5,90	3,39	20,00	7,81	2,56	20,00	9,61	2,08	20,00	11,00	1,82	—	—	—
7	20,00	2,50	8,00	20,00	4,17	4,80	20,00	5,84	3,42	20,00	6,28	3,18	20,00	9,16	2,18	—	—	—
25	20,00	2,33	8,58	20,00	2,60	7,69	20,00	2,87	6,97	20,00	3,14	6,37	20,00	4,03	4,96	20,00	7,67	2,61
WH-WXG25ME8																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**65**	**65**	**65**	**75**	**75**	**75**
-25	22,00	11,34	1,94	23,00	13,80	1,67	24,00	16,26	1,48	—	—	—	—	—	—	—	—	—
-20	23,00	10,60	2,17	25,00	12,90	1,94	25,00	15,20	1,64	25,00	17,50	1,43	On request			—	—	—
-15	25,00	9,80	2,55	25,00	11,80	2,12	25,00	13,80	1,81	25,00	15,80	1,58	24,00	13,25	1,81	—	—	—
-7	25,00	7,60	3,29	25,00	10,60	2,36	25,00	13,60	1,84	25,00	13,90	1,80	25,00	14,10	1,77	—	—	—
2	25,00	6,85	3,65	25,00	8,93	2,80	25,00	11,01	2,27	25,00	12,70	1,97	25,00	13,70	1,82	—	—	—
7	25,00	3,89	6,43	25,00	5,55	4,50	25,00	7,21	3,47	25,00	8,33	3,00	25,00	11,60	2,16	—	—	—
25	25,00	3,09	8,09	25,00	3,42	7,31	25,00	3,75	6,67	25,00	4,08	6,13	25,00	5,18	4,83	25,00	9,60	2,60
WH-WXG30ME8																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**65**	**65**	**65**	**75**	**75**	**75**
-25	22,00	11,34	1,94	23,00	13,80	1,67	24,00	16,26	1,48	—	—	—	—	—	—	—	—	—
-20	23,00	10,60	2,17	25,00	12,90	1,94	25,00	15,20	1,64	25,00	17,50	1,43	On request			—	—	—
-15	27,00	13,43	2,01	30,00	15,50	1,94	30,00	17,57	1,71	30,00	19,64	1,53	25,00	14,61	1,71	—	—	—
-7	29,00	9,70	2,99	30,00	12,90	2,33	30,00	16,10	1,86	30,00	19,30	1,55	30,00	17,10	1,75	—	—	—
2	30,00	10,10	2,97	30,00	12,00	2,50	30,00	13,90	2,16	30,00	15,40	1,95	30,00	16,70	1,80	—	—	—
7	30,00	4,88	6,15	30,00	6,82	4,40	30,00	8,76	3,42	30,00	10,00	3,00	30,00	14,00	2,14	—	—	—
25	30,00	4,33	6,93	30,00	4,60	6,52	30,00	4,87	6,16	30,00	5,14	5,84	30,00	6,49	4,62	25,00	9,60	2,60

Big Aquarea T-CAP Hydraulic Stand-alone M Series. Three phase · R290

WH-WXG20ME8									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	20,00	3,22	6,21	20,00	3,10	6,45	20,00	2,99	6,69
25	20,00	4,65	4,30	20,00	4,01	4,99	20,00	3,38	5,92
35	20,00	6,62	3,02	20,00	5,40	3,70	20,00	4,18	4,78
43	20,00	9,06	2,21	20,00	7,37	2,71	20,00	5,68	3,52
WH-WXG25ME8									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	25,00	4,56	5,48	25,00	4,32	5,79	25,00	4,09	6,11
25	25,00	6,35	3,94	25,00	5,45	4,59	25,00	4,57	5,47
35	25,00	8,74	2,86	25,00	7,17	3,49	25,00	5,59	4,47
43	21,80	9,44	2,31	23,40	8,63	2,71	25,00	7,54	3,32
WH-WXG30ME8									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	28,00	5,14	5,45	29,00	5,19	5,59	30,00	5,23	5,74
25	28,00	6,84	4,09	29,00	6,38	4,55	30,00	5,92	5,07
35	26,00	9,70	2,68	28,00	8,51	3,29	30,00	7,32	4,10
43	21,80	9,44	2,31	25,90	9,60	2,70	30,00	9,76	3,07

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.
*Data to be confirmed.

Aquarea T-CAP Mono-bloc J Series. Single phase / Three phase - MXC · R32

WH-MXC09J3E5-1															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	9,00	3,44	2,62	9,00	3,95	2,28	9,00	4,65	1,94	7,90	5,58	1,42	—	—	—
-15	9,00	2,98	3,02	9,00	3,41	2,64	9,00	4,04	2,23	9,00	4,83	1,86	8,70	5,37	1,62
-7	10,50	2,72	3,86	9,00	2,92	3,08	9,00	3,54	2,54	9,00	4,24	2,12	9,00	4,62	1,95
2	10,80	2,14	5,05	9,00	2,36	3,81	9,00	2,91	3,09	9,00	3,55	2,54	9,00	4,05	2,22
7	9,00	1,38	6,52	9,00	1,77	5,08	9,00	2,37	3,80	9,00	2,92	3,08	9,00	3,29	2,74
25	9,00	0,77	11,69	9,00	1,00	9,00	10,00	1,67	5,99	10,00	2,28	4,39	11,00	2,86	3,85
WH-MXC12J6E5-1															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	12,00	5,02	2,39	12,00	5,80	2,07	11,00	5,95	1,85	10,00	6,50	1,54	—	—	—
-15	12,00	4,14	2,90	12,00	4,83	2,48	11,00	5,20	2,12	10,50	6,00	1,75	8,90	6,30	1,41
-7	13,50	4,30	3,14	12,00	4,25	2,82	12,00	5,02	2,39	12,00	6,00	2,00	11,00	6,30	1,75
2	14,50	3,23	4,49	12,00	3,40	3,53	12,00	4,20	2,86	12,00	4,95	2,42	12,00	5,77	2,08
7	12,00	2,00	6,00	12,00	2,50	4,80	12,00	3,24	3,70	12,00	3,94	3,05	12,00	4,52	2,65
25	12,00	1,20	10,00	12,00	1,49	8,05	12,00	2,10	5,71	12,00	2,75	4,36	12,00	3,11	3,86
WH-MXC09J3E8-1															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	9,00	3,44	2,62	9,00	3,95	2,28	9,00	4,65	1,94	7,90	5,58	1,42	—	—	—
-15	9,00	2,98	3,02	9,00	3,41	2,64	9,00	4,04	2,23	9,00	4,83	1,86	8,70	5,37	1,62
-7	10,50	2,72	3,86	9,00	2,92	3,08	9,00	3,54	2,54	9,00	4,24	2,12	9,00	4,62	1,95
2	10,80	2,14	5,05	9,00	2,36	3,81	9,00	2,91	3,09	9,00	3,55	2,54	9,00	4,05	2,22
7	9,00	1,38	6,52	9,00	1,77	5,08	9,00	2,37	3,80	9,00	2,92	3,08	9,00	3,29	2,74
25	9,00	0,77	11,69	9,00	1,00	9,00	10,00	1,67	5,99	10,00	2,28	4,39	11,00	2,86	3,85
WH-MXC12J9E8-1															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	12,00	5,02	2,39	12,00	5,80	2,07	10,50	5,75	1,83	9,20	5,80	1,59	—	—	—
-15	12,00	4,14	2,90	12,00	4,83	2,48	12,00	5,67	2,12	11,10	6,35	1,75	8,70	6,20	1,40
-7	13,50	4,30	3,14	12,00	4,25	2,82	12,00	5,02	2,39	12,00	6,00	2,00	11,00	6,30	1,75
2	14,50	3,23	4,49	12,00	3,40	3,53	12,00	4,20	2,86	12,00	4,95	2,42	12,00	5,77	2,08
7	12,00	2,00	6,00	12,00	2,50	4,80	12,00	3,24	3,70	12,00	3,94	3,05	12,00	4,52	2,65
25	12,00	1,20	10,00	12,00	1,49	8,05	12,00	2,10	5,71	12,00	2,75	4,36	12,00	3,11	3,86
WH-MXC16J9E8-1															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	16,00	7,40	2,16	16,00	8,40	1,90	16,00	10,00	1,60	14,00	10,30	1,36	—	—	—
-15	15,30	6,10	2,51	16,00	6,91	2,32	16,00	8,44	1,90	16,00	9,97	1,60	14,00	10,60	1,32
-7	19,00	6,60	2,88	16,00	6,70	2,39	16,00	7,85	2,04	16,00	9,33	1,71	15,00	9,70	1,55
2	20,60	5,35	3,85	16,00	5,16	3,10	16,00	6,40	2,50	16,00	7,72	2,07	16,00	9,20	1,74
7	16,00	2,80	5,71	16,00	3,54	4,52	16,00	4,55	3,52	16,00	5,60	2,86	15,60	6,50	2,40
25	16,00	1,55	10,32	16,00	2,30	6,96	16,00	3,20	5,00	16,00	4,00	4,00	15,50	4,50	3,44

Aquarea T-CAP Mono-bloc J Series. Single phase / Three phase - MXC · R32

Outdoor																		
	WH-MXC09J3E5-1									**WH-MXC12J6E5-1**								
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	9,00	1,61	5,59	11,00	1,49	7,38	11,40	1,30	8,77	11,40	2,10	5,43	13,60	2,09	6,51	15,00	2,06	7,28
25	9,00	2,00	4,50	12,60	2,38	5,29	10,50	1,54	6,82	12,00	2,87	4,18	15,70	3,60	4,36	14,00	2,56	5,47
35	9,00	2,83	3,18	10,90	2,98	3,66	9,00	1,95	4,62	12,00	4,14	2,90	13,60	4,35	3,13	12,00	3,04	3,95
43	7,20	3,26	2,21	8,70	3,23	2,69	7,30	2,43	3,00	10,30	4,89	2,11	11,80	4,98	2,37	10,40	3,72	2,80

Outdoor																											
	WH-MXC09J3E8-1									**WH-MXC12J9E8-1**									**WH-MXC16J9E8-1**								
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	9,00	1,66	5,42	11,00	1,54	7,14	11,40	1,35	8,44	11,40	2,15	5,30	13,60	2,14	6,36	15,00	2,15	6,98	15,00	3,15	4,76	19,00	3,35	5,67	19,00	3,00	6,33
25	9,00	2,06	4,37	12,60	2,45	5,14	10,50	1,60	6,56	12,00	2,93	4,10	15,70	3,68	4,27	14,00	2,66	5,26	15,00	4,00	3,75	18,00	4,00	4,50	18,00	3,50	5,14
35	9,00	2,91	3,09	10,90	3,07	3,55	9,00	2,02	4,46	12,00	4,23	2,84	13,60	4,44	3,06	12,00	3,17	3,79	14,50	5,11	2,84	14,50	4,20	3,45	16,00	4,27	3,75
43	7,20	3,36	2,14	8,70	3,33	2,61	7,30	2,53	2,89	10,30	5,00	2,06	11,80	5,09	2,32	10,40	3,87	2,69	9,50	4,40	2,16	11,50	4,40	2,61	12,50	4,30	2,91

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

Aquarea High Performance Hydraulic L Series. Single phase · R290

WH-WDG05LE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**65**	**65**	**65**	**75**	**75**	**75**
-25	2,45	1,76	1,39	3,80	2,30	1,65	3,60	2,46	1,46	—	—	—	—	—	—
-20	4,70	2,19	2,15	4,50	2,37	1,90	4,25	2,57	1,65	—	—	—	—	—	—
-15	5,00	1,94	2,58	5,00	2,31	2,16	5,00	2,63	1,90	4,60	2,88	1,60	—	—	—
-7	5,00	1,66	3,01	5,00	1,94	2,58	5,00	2,36	2,12	5,00	2,62	1,91	4,30	2,87	1,50
2	5,00	1,42	3,52	5,00	1,71	2,92	5,00	2,14	2,34	5,00	2,54	1,97	4,60	2,76	1,67
7	5,00	0,99	5,05	5,00	1,27	3,94	5,00	1,63	3,07	5,00	2,03	2,46	4,70	2,57	1,83
WH-WDG07LE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**65**	**65**	**65**	**75**	**75**	**75**
-25	4,75	2,53	1,88	4,30	2,66	1,62	3,95	2,78	1,42	—	—	—	—	—	—
-20	5,50	2,56	2,15	5,10	2,75	1,85	4,90	2,97	1,65	—	—	—	—	—	—
-15	6,00	2,50	2,40	5,50	2,60	2,12	5,20	2,89	1,80	4,80	3,00	1,60	—	—	—
-7	5,80	1,93	3,01	5,80	2,32	2,50	5,80	2,74	2,12	5,70	3,16	1,80	4,80	3,56	1,35
2	6,85	2,00	3,43	6,60	2,34	2,82	6,25	2,67	2,34	5,60	2,80	2,00	5,00	3,13	1,60
7	7,00	1,42	4,93	7,00	1,90	3,68	7,00	2,35	2,98	6,60	2,85	2,32	6,30	3,40	1,85
WH-WDG09LE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**65**	**65**	**65**	**75**	**75**	**75**
-25	6,05	3,43	1,76	5,25	3,28	1,60	4,65	3,15	1,48	—	—	—	—	—	—
-20	7,00	3,56	1,97	6,20	3,50	1,77	5,60	3,43	1,63	—	—	—	—	—	—
-15	7,40	3,20	2,31	6,80	3,40	2,00	6,30	3,55	1,77	5,60	3,55	1,58	—	—	—
-7	7,00	2,50	2,80	7,00	2,98	2,35	7,00	3,29	2,13	6,50	3,53	1,84	5,40	3,56	1,52
2	7,00	2,05	3,41	7,00	2,50	2,80	7,00	2,90	2,41	6,70	3,35	2,00	5,70	3,40	1,68
7	9,00	1,98	4,55	9,00	2,58	3,49	8,90	2,94	3,03	8,90	3,56	2,50	7,30	3,56	2,05

Aquarea High Performance Hydraulic L Series. Single phase · R290

WH-WDG05LE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	6,00	1,01	5,94	7,50	1,05	7,14	6,00	0,67	8,96
25	5,70	1,20	4,75	7,00	1,20	5,83	5,70	0,78	7,31
35	5,00	1,55	3,23	6,30	1,44	4,38	5,00	1,00	5,00
43	4,50	1,60	2,81	5,60	1,64	3,41	4,50	1,12	4,02
WH-WDG07LE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	7,00	1,36	5,15	8,50	1,39	6,12	8,00	1,04	7,69
25	7,00	1,65	4,24	8,00	1,57	5,10	7,50	1,18	6,36
35	7,00	2,31	3,03	8,00	2,26	3,54	7,00	1,48	4,73
43	6,00	2,50	2,40	7,00	2,60	2,69	5,70	1,70	3,35
WH-WDG09LE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	9,00	2,00	4,50	11,00	2,12	5,19	11,00	1,80	6,11
25	9,00	2,50	3,60	11,00	2,60	4,23	10,00	1,85	5,41
35	8,20	2,91	2,82	10,00	3,10	3,23	9,00	2,15	4,19
43	6,40	2,67	2,40	7,40	2,70	2,74	8,20	2,50	3,28

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea High Performance Hydraulic M Series. Single phase · R290

WH-WDG12ME5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**65**	**65**	**65**	**75**	**75**	**75**
-25	7,20	3,85	1,87	7,10	4,68	1,52	7,10	5,68	1,25	—	—	—	—	—	—
-20	8,10	3,85	2,10	7,80	4,49	1,74	7,80	5,21	1,50	7,35	6,40	1,15	—	—	—
-15	9,40	3,78	2,49	9,00	4,44	2,03	8,80	5,20	1,69	8,60	6,40	1,34	6,40	6,20	1,03
-7	10,50	3,50	3,00	10,20	4,43	2,30	10,00	5,08	1,97	9,80	6,40	1,53	7,90	6,40	1,23
2	12,50	3,71	3,37	12,00	4,35	2,76	12,00	5,29	2,27	11,00	6,20	1,77	9,00	6,20	1,45
7	14,80	3,14	4,71	14,20	3,88	3,66	14,10	4,67	3,02	12,90	5,56	2,32	11,00	6,40	1,72
WH-WDG16ME5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**65**	**65**	**65**	**75**	**75**	**75**
-25	8,30	4,68	1,77	7,55	5,05	1,50	7,15	5,70	1,25	—	—	—	—	—	—
-20	9,00	4,36	2,06	8,45	4,92	1,72	8,20	5,57	1,47	7,35	6,40	1,15	—	—	—
-15	10,50	4,38	2,40	9,90	4,95	2,00	9,30	5,57	1,67	8,60	6,40	1,34	6,40	6,20	1,03
-7	11,70	4,45	2,63	11,30	5,14	2,20	10,80	5,68	1,90	9,80	6,40	1,53	7,90	6,40	1,23
2	13,00	3,94	3,30	12,20	4,45	2,74	12,00	5,29	2,27	11,00	6,20	1,77	9,00	6,20	1,45
7	16,00	3,44	4,65	16,00	4,51	3,55	14,70	4,90	3,00	14,70	6,40	2,30	11,00	6,40	1,72

Aquarea High Performance Hydraulic M Series. Single phase · R290

WH-WDG12ME5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	12,50	2,40	5,21	16,00	2,55	6,27	13,50	1,64	8,23
25	12,00	2,88	4,17	16,00	3,04	5,26	13,00	1,77	7,34
35	12,00	3,70	3,24	15,00	3,90	3,85	12,00	2,40	5,00
43	10,50	4,08	2,57	13,00	4,08	3,19	11,00	2,76	3,99
WH-WDG16ME5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	12,50	2,40	5,21	16,00	2,55	6,27	17,50	2,36	7,42
25	12,00	2,88	4,17	16,00	3,04	5,26	16,70	2,66	6,28
35	14,00	4,38	3,20	17,00	4,52	3,76	15,50	3,27	4,74
43	10,50	4,08	2,57	13,00	4,08	3,19	13,80	3,77	3,66

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

Aquarea High Performance Mono-bloc J Series. Single phase - MDC · R32

WH-MDC05J3E5-1															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	4,37	1,73	2,53	4,16	2,03	2,05	3,84	2,37	1,62	3,43	2,64	1,30	—	—	—
-15	5,13	1,78	2,88	5,00	2,17	2,30	4,75	2,51	1,89	3,70	2,45	1,51	—	—	—
-7	5,17	1,49	3,47	5,00	1,80	2,78	4,80	2,16	2,22	5,00	2,70	1,85	4,68	2,71	1,73
2	5,00	1,11	4,50	5,00	1,40	3,57	5,00	1,81	2,76	5,00	2,20	2,27	4,80	2,40	2,00
7	5,09	0,78	6,53	5,00	0,99	5,05	5,00	1,31	3,82	5,00	1,66	3,01	4,58	1,90	2,41
25	4,96	0,77	6,44	5,04	0,90	5,60	5,31	1,16	4,58	5,61	1,34	4,19	5,15	1,33	3,87
WH-MDC07J3E5-1															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	4,86	2,03	2,39	4,66	2,35	1,98	4,44	2,75	1,61	4,23	3,13	1,35	—	—	—
-15	5,80	2,11	2,75	5,60	2,40	2,33	5,30	2,84	1,87	5,00	3,32	1,51	—	—	—
-7	6,76	2,07	3,27	6,80	2,42	2,81	6,30	2,82	2,23	6,30	3,39	1,86	4,74	2,76	1,72
2	6,83	1,66	4,11	7,00	2,06	3,40	6,85	2,50	2,74	6,30	2,92	2,16	4,80	2,40	2,00
7	7,32	1,19	6,15	7,00	1,47	4,76	7,00	1,96	3,57	7,00	2,48	2,82	6,18	2,44	2,53
25	6,80	0,64	10,63	6,67	0,93	7,17	6,79	1,38	4,92	6,70	1,80	3,72	6,22	1,78	3,49
WH-MDC09J3E5-1															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	5,33	2,36	2,26	6,43	3,60	1,79	5,78	3,83	1,51	4,83	3,64	1,33	—	—	—
-15	7,76	3,20	2,43	7,60	3,41	2,23	7,00	3,71	1,89	5,60	3,80	1,47	—	—	—
-7	7,39	2,45	3,02	7,50	2,85	2,63	7,30	3,37	2,17	7,00	3,89	1,80	6,44	3,67	1,75
2	7,38	1,89	3,90	7,45	2,38	3,13	7,00	2,85	2,46	7,00	3,30	2,12	5,46	2,72	2,01
7	9,15	1,59	5,75	9,00	2,01	4,48	9,00	2,61	3,45	8,95	3,22	2,78	7,25	2,87	2,53
25	8,02	0,98	8,18	7,88	1,32	5,97	8,46	1,86	4,55	7,60	2,03	3,74	6,30	1,87	3,37

Aquarea High Performance Mono-bloc J Series. Single phase - MDC · R32

WH-MDC05J3E5-1									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	5,18	0,82	6,32	6,17	0,84	7,35	5,78	0,60	9,63
25	5,38	1,22	4,41	6,64	1,25	5,31	5,55	0,78	7,12
35	5,00	1,54	3,25	5,86	1,61	3,64	5,00	0,99	5,05
43	4,19	1,85	2,26	5,36	1,92	2,79	4,37	1,30	3,36
WH-MDC07J3E5-1									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	5,38	0,83	6,48	6,69	0,85	7,87	7,65	0,76	10,07
25	6,96	1,82	3,82	9,06	1,98	4,58	7,58	1,23	6,16
35	7,00	2,29	3,06	8,37	2,47	3,39	7,00	1,48	4,73
43	5,60	2,55	2,20	6,87	2,58	2,66	6,10	1,88	3,24
WH-MDC09J3E5-1									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	6,89	1,21	5,69	8,65	1,23	7,03	9,82	1,19	8,25
25	9,50	2,84	3,35	11,55	3,06	3,77	9,68	1,82	5,32
35	9,00	3,32	2,71	10,10	3,51	2,88	9,00	2,12	4,25
43	5,42	2,56	2,12	6,56	2,56	2,56	7,40	2,56	2,89

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea T-CAP Bi-bloc K Series. Single phase / Three phase · R32

WH-UXZ09KE5												
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	8,80	4,79	1,84	8,80	5,30	1,66	8,55	5,90	1,45	—	—	—
-15	9,00	3,45	2,61	9,00	4,30	2,09	9,00	4,95	1,82	—	—	—
-7	9,00	3,00	3,00	9,00	3,82	2,36	9,00	4,28	2,10	9,00	4,72	1,91
2	9,00	2,44	3,69	9,00	3,05	2,95	9,00	3,90	2,31	9,00	4,05	2,22
7	9,00	1,79	5,03	9,00	2,42	3,72	9,00	2,93	3,07	9,00	3,43	2,62
25	7,95	1,20	6,63	9,00	1,56	5,77	11,30	3,13	3,61	11,00	2,86	3,85
WH-UXZ12KE5												
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	11,50	6,05	1,90	10,20	6,02	1,69	8,70	6,00	1,45	—	—	—
-15	12,00	4,90	2,45	11,00	5,38	2,04	10,50	6,20	1,69	—	—	—
-7	12,00	4,41	2,72	12,00	5,54	2,17	12,00	6,00	2,00	11,00	6,30	1,75
2	12,00	3,49	3,44	12,00	4,25	2,82	12,00	5,24	2,29	12,00	5,77	2,08
7	12,10	2,50	4,84	12,10	3,38	3,58	12,10	3,98	3,04	12,00	4,52	2,65
25	10,90	1,61	6,77	10,87	2,44	4,45	11,30	3,13	3,61	12,00	3,11	3,86
WH-UXZ09KE8 / WH-UQZ09KE8												
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	8,80	4,79	1,84	8,80	5,30	1,66	8,55	5,90	1,45	—	—	—
-15	9,00	3,45	2,61	9,00	4,30	2,09	9,00	4,95	1,82	—	—	—
-7	9,00	3,00	3,00	9,00	3,82	2,36	9,00	4,28	2,10	9,00	4,72	1,91
2	9,00	2,44	3,69	9,00	3,05	2,95	9,00	3,90	2,31	9,00	4,05	2,22
7	9,00	1,79	5,03	9,00	2,42	3,72	9,00	2,93	3,07	9,00	3,43	2,62
25	7,95	1,20	6,63	9,00	1,56	5,77	11,30	3,13	3,61	11,00	2,86	3,85
WH-UXZ12KE8 / WH-UQZ12KE8												
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	11,50	6,05	1,90	10,20	6,02	1,69	8,70	6,00	1,45	—	—	—
-15	12,00	4,90	2,45	11,00	5,38	2,04	10,50	6,20	1,69	—	—	—
-7	12,00	4,41	2,72	12,00	5,54	2,17	12,00	5,24	2,29	11,80	6,59	1,79
2	12,00	3,49	3,44	12,00	4,25	2,82	12,00	5,24	2,29	12,00	5,77	2,08
7	12,10	2,50	4,84	12,10	3,38	3,58	12,10	3,98	3,04	12,00	4,52	2,65
25	10,90	1,61	6,77	10,87	2,44	4,45	11,30	3,13	3,61	12,00	3,11	3,86
WH-UXZ16KE8 / WH-UQZ16KE8												
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	16,00	8,20	1,95	15,00	9,00	1,67	12,00	9,30	1,29	—	—	—
-15	16,00	6,91	2,32	16,00	8,44	1,90	16,00	9,97	1,60	—	—	—
-7	16,00	6,70	2,39	16,00	7,85	2,04	16,00	9,33	1,71	15,00	9,70	1,55
2	16,00	5,16	3,10	16,00	6,40	2,50	16,00	7,72	2,07	16,00	9,20	1,74
7	16,00	3,65	4,38	16,00	4,72	3,39	16,00	5,88	2,72	15,20	5,90	2,58
25	16,00	2,30	6,96	16,00	3,20	5,00	16,00	4,00	4,00	14,50	4,30	3,37

Aquarea T-CAP Bi-bloc K Series. Single phase / Three phase · R32

Outdoor				**WH-UXZ09KE5**						**WH-UXZ12KE5**								
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
25	8,98	2,37	3,79	10,60	2,41	4,40	9,00	1,57	5,73	11,10	3,35	3,31	13,03	3,43	3,80	11,63	2,34	4,97
35	8,80	2,83	3,11	9,07	3,01	3,01	8,80	1,90	4,63	10,70	4,00	2,68	11,42	4,20	2,72	10,70	2,73	3,92
43	6,48	3,27	1,98	7,65	3,27	2,34	6,68	2,46	2,72	6,62	3,29	2,01	7,89	3,30	2,39	8,68	3,28	2,65

Outdoor				**WH-UXZ09KE8 / WH-UQZ09KE8**						**WH-UXZ12KE8 / WH-UQZ12KE8**									**WH-UXZ16KE8 / WH-UQZ16KE8**								
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
25	8,98	2,37	3,79	10,60	2,41	4,40	9,00	1,57	5,73	11,10	3,35	3,31	13,03	3,43	3,80	11,63	2,34	4,97	15,00	4,00	3,75	17,00	4,20	4,05	17,00	3,40	5,00
35	8,80	2,83	3,11	9,07	3,01	3,01	8,80	1,90	4,63	10,70	4,00	2,68	11,42	4,20	2,72	10,70	2,73	3,92	13,40	5,08	2,64	15,50	5,30	2,92	13,40	5,08	2,64
43	6,48	3,27	1,98	7,65	3,27	2,34	6,68	2,46	2,72	6,62	3,29	2,01	7,89	3,30	2,39	8,68	3,28	2,65	8,80	4,20	2,10	10,50	4,30	2,44	11,50	4,20	2,74

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

Aquarea High Performance Bi-bloc K Series. Single phase · R32

WH-UDZ03KE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	2,50	1,11	2,25	2,52	1,31	1,92	2,24	1,59	1,41	2,12	1,80	1,18	—	—	—
-15	3,00	1,14	2,63	3,20	1,37	2,34	3,00	1,62	1,85	2,75	1,92	1,43	—	—	—
-7	2,99	0,91	3,29	3,30	1,18	2,80	3,25	1,47	2,21	3,20	1,79	1,79	3,00	1,88	1,60
2	2,92	0,69	4,23	3,20	0,88	3,64	3,20	1,13	2,83	3,20	1,46	2,19	3,15	1,67	1,89
7	3,09	0,49	6,31	3,20	0,60	5,33	3,20	0,84	3,81	3,20	1,14	2,81	2,95	1,22	2,42
WH-UDZ05KE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	—	—	—	4,05	1,95	2,08	3,76	2,20	1,71	3,39	2,48	1,37	—	—	—
-15	—	—	—	5,00	2,11	2,37	4,75	2,49	1,91	4,30	2,61	1,65	—	—	—
-7	—	—	—	5,00	1,79	2,79	5,00	2,14	2,34	5,00	2,65	1,89	4,68	2,71	1,73
2	—	—	—	5,00	1,40	3,57	5,00	1,79	2,79	5,00	2,18	2,29	4,80	2,40	2,00
7	—	—	—	5,00	0,98	5,10	5,00	1,31	3,82	5,00	1,65	3,03	4,58	1,90	2,41
WH-UDZ07KE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	—	—	—	4,45	2,12	2,10	4,23	2,48	1,71	3,90	2,85	1,37	—	—	—
-15	—	—	—	5,60	2,38	2,35	5,30	2,78	1,91	5,00	3,20	1,56	—	—	—
-7	—	—	—	5,75	1,95	2,95	5,65	2,30	2,46	5,35	2,70	1,98	4,98	2,90	1,72
2	—	—	—	6,85	2,00	3,43	6,75	2,40	2,81	6,25	2,80	2,23	6,18	2,91	2,12
7	—	—	—	7,00	1,44	4,86	7,00	1,92	3,65	7,00	2,40	2,92	6,86	2,73	2,51
WH-UDZ09KE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	—	—	—	4,95	2,43	2,04	4,58	2,70	1,70	4,04	3,00	1,35	—	—	—
-15	—	—	—	7,40	3,20	2,31	6,45	3,28	1,97	5,40	3,42	1,58	—	—	—
-7	—	—	—	6,25	2,20	2,84	6,10	2,68	2,28	5,90	3,06	1,93	5,65	3,24	1,74
2	—	—	—	7,00	2,06	3,40	6,85	2,50	2,74	6,30	2,89	2,18	7,26	3,31	2,19
7	—	—	—	9,00	1,98	4,55	9,00	2,58	3,49	8,90	3,04	2,93	8,60	3,42	2,51
WH-UDZ12KE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	—	—	—	8,80	4,42	1,99	8,00	4,95	1,62	7,00	5,65	1,24	—	—	—
-15	—	—	—	9,10	3,70	2,46	8,20	4,00	2,05	7,20	4,21	1,71	—	—	—
-7	—	—	—	10,10	3,69	2,74	9,30	4,29	2,17	8,40	4,27	1,97	7,30	4,40	1,66
2	—	—	—	11,50	3,34	3,44	10,70	3,78	2,83	9,20	4,09	2,25	8,20	4,40	1,86
7	—	—	—	12,10	2,53	4,78	12,00	3,38	3,55	12,00	4,06	2,96	10,20	4,26	2,39

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea High Performance Bi-bloc K Series. Single phase · R32

WH-UDZ03KE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	3,56	0,57	6,25	4,32	0,55	7,85	3,47	0,41	8,46
25	3,29	0,73	4,51	4,06	0,72	5,64	3,27	0,52	6,29
35	3,20	0,91	3,52	3,56	0,93	3,83	3,20	0,68	4,71
43	2,68	1,06	2,53	3,34	1,09	3,06	2,79	0,82	3,40
WH-UDZ05KE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
25	5,47	1,37	3,99	6,62	1,39	4,76	5,54	0,80	6,93
35	5,00	1,64	3,05	6,69	1,76	3,80	5,00	1,02	4,90
43	4,18	1,83	2,28	5,54	1,84	3,01	4,45	1,27	3,50
WH-UDZ07KE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
25	6,32	1,72	3,67	8,16	1,93	4,23	6,63	1,12	5,92
35	6,70	2,21	3,03	8,19	2,42	3,38	6,70	1,42	4,72
43	5,72	2,62	2,18	7,47	2,80	2,67	6,15	1,78	3,46
WH-UDZ09KE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
25	8,31	2,50	3,32	10,43	2,67	3,91	8,85	1,72	5,15
35	8,20	3,02	2,72	10,28	3,25	3,16	9,00	2,15	4,19
43	5,00	2,15	2,33	6,38	2,15	2,97	7,02	2,14	3,28
WH-UDZ12KE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
25	10,20	3,62	2,82	12,00	3,70	3,24	10,80	2,53	4,27
35	10,70	4,00	2,68	10,70	4,54	2,36	10,70	2,73	3,92
43	6,10	3,55	1,72	7,20	3,56	2,02	8,00	3,55	2,25

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN 14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea EcoFleX. Single phase · R32

CU-2WZ71YBE5												
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**
-15	4,85	2,15	2,26	4,75	2,28	2,08	4,65	2,44	1,91	4,50	3,20	1,41
-7	5,40	1,70	3,18	5,60	1,97	2,84	5,60	2,40	2,33	5,30	2,78	1,91
2	6,50	1,77	3,67	6,70	2,06	3,25	6,60	2,45	2,69	6,00	2,89	2,08
7	8,16	1,63	5,01	8,00	1,90	4,21	8,00	2,30	3,48	8,00	2,85	2,81
12	8,22	1,28	6,42	8,00	1,52	5,26	8,00	2,00	4,00	8,00	2,60	3,08

Features explained

Energy saving.

R290 REFRIGERANT

NATURAL REFRIGERANT R290 WITH GWP 0,02. Natural refrigerant R290 has low Global Warming Potential (GWP) of just 0,02, helping reduce CO_2 emissions and environmental impact.

R32 REFRIGERANT

REFRIGERANT R32. Our heat pumps containing R32 refrigerant show a drastic reduction in the value of Global Warming Potential (GWP).

A++ ErP 55 °C

BETTER EFFICIENCY AND VALUE FOR MEDIUM TEMPERATURE APPLICATIONS. Energy efficiency class up to A++ in a scale from A+++ to D.

A+++ ErP 35 °C

BETTER EFFICIENCY AND VALUE FOR LOW TEMPERATURE APPLICATIONS. Energy efficiency class up to A+++ in a scale from A+++ to D.

A+ DHW

BETTER EFFICIENCY AND VALUE FOR DOMESTIC HOT WATER. Energy efficiency class up to A+ in a scale from A+ to F.

INVERTER+

INVERTER PLUS SYSTEM. Inverter Plus system classification highlights Panasonic's highest performing systems.

A CLASS WATER PUMP AUTO SPEED

A CLASS WATER PUMP. Aquarea are built-in with A class energy efficiency water pump. High-efficiency circulating the water in the heating installation.

ErP

ERP 2018. Compliant following COMMISSION REGULATION (EU) No2016/2281.

EC MOTOR GREEN VENTILATION

EC MOTOR GREEN VENTILATION. Range of fan coils with improved efficiency and optional EC fan motors.

High performance and indoor air quality.

5,33 COP HIGH PERFORMANCE

AQUAREA HIGH PERFORMANCE FOR LOW CONSUMPTION HOUSES. From 3 to 16 kW. For a house with low temperature radiators or under-floor heating, our high performance Aquarea HP is a good solution. *COP of 5,33 for 3 kW K series.

-15°C CONSTANT HEATING T-CAP

AQUAREA T-CAP FOR EXTREMELY LOW TEMPERATURES. From 9 to 16 kW. It can work at outdoor temperatures as low as -28 °C and maintain the rated capacity down to -15 °C at 55 °C water flow.

DHW

DHW. With Aquarea Heat Pumps, DHW can be produced efficiently, achieving high DHW COP of 3,6 with the L Series All in One indoor unit.

-20 °C HEATING MODE

DOWN TO -20 °C IN HEATING MODE. The heat pumps operate in heating mode with an outside temperature down to -20 °C.

WATER FILTER WITH MAGNET

WATER FILTER WITH MAGNET. Easy access and fast clip technology for J Series onwards. Water filter only for H Series.

75 °C OUTPUT WATER FLOW TEMPERATURE

75 °C OUTPUT WATER. Reaches water outlet temperature up to 75 °C for L and M Series.

65°C OUTPUT WATER FLOW TEMPERATURE

65 °C OUTPUT WATER. Reaches water outlet temperature up to 65 °C.

FLOW SENSOR

WATER FLOW SENSOR. Included on H Series onwards.

5 YEARS COMPRESSOR WARRANTY

5 YEARS COMPRESSOR WARRANTY. We guarantee the outdoor unit compressors in the entire range for five years.

High connectivity.

BOILER CONNECTION

RENOVATION. Our Aquarea Heat Pumps can be connected to an existing or new boiler for optimum comfort even at very low outdoor temperatures.

SOLAR KIT

SOLAR KIT. For even greater efficiency, Aquarea Heat Pumps can be connected to photovoltaic solar panels with the optional PCB.

ADVANCED CONTROL

ADVANCED CONTROL. Remote controller with full dotted 3,5'' wide back light screen. Menu with 17 available languages easy to use for installer and user. Included on H Series onwards.

INTERNET CONTROL

INTERNET CONTROL. The Panasonic Comfort Cloud App allows users to conveniently manage and monitor Panasonic residential heat pumps from a mobile device, anytime, anywhere.

BMS CONNECTIVITY

BMS CONNECTIVITY. Aquarea Heat Pumps offer seamless integration into a Building Management System (BMS) using an optional gateway.

SG Ready · APPROVED PRODUCT · CERTIFIED COMPONENT

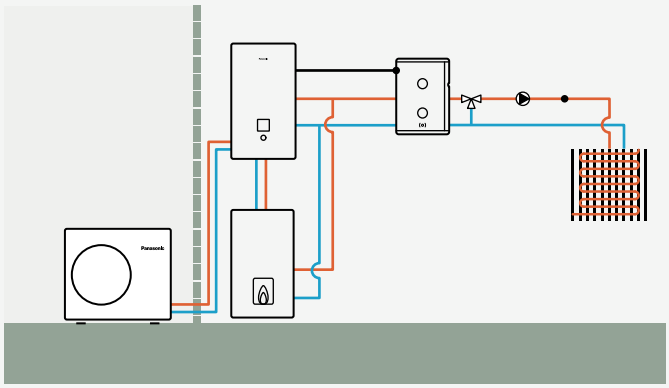
Aquarea H and J Series heat pumps in combination with the optional PCB CZ-NSP4 hold the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Warmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control.
MCS Certificate number: MCS HP0086*.
Keymark: Check all our certified heat pumps on: www.heatpumpkeymark.com.
Passive House Institute: Certified models can be checked in https://database.passivehouse.com.

*Not all products certified. As the certification process is on-going and the list of certified products constantly changing, please check for latest details on the official websites.

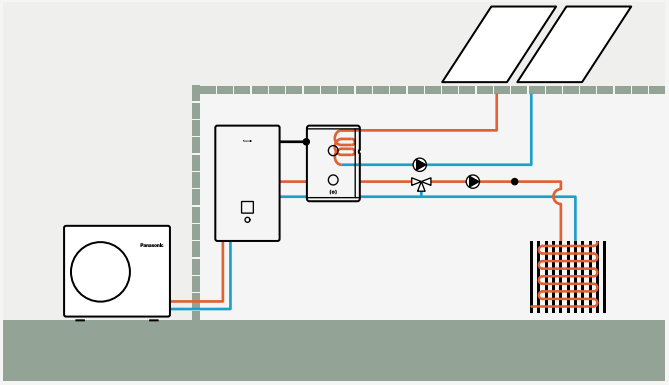
Warning on quality of water and groundwater use: This product is designed to comply with the European drinking water standard (EU) 2020/2184. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Examples of installations

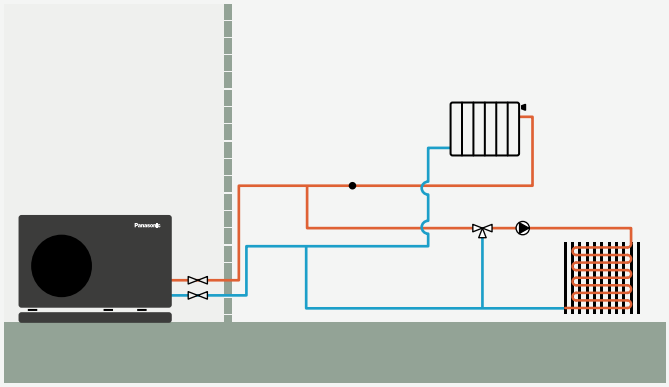
Aquarea Split Bi-bloc: Bivalent with buffer tank and mixing valve



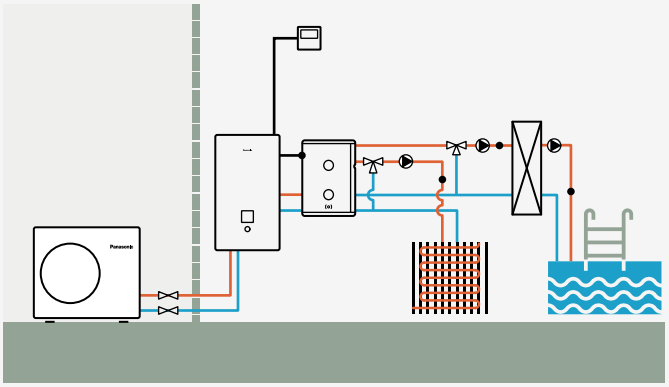
Aquarea Split Bi-bloc: Buffer tank with solar and mixing valve



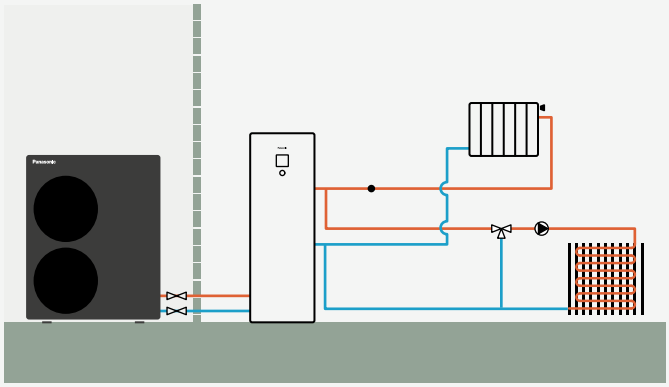
Aquarea Hydraulic Mono-bloc: 2 zones with external kit without buffer tank



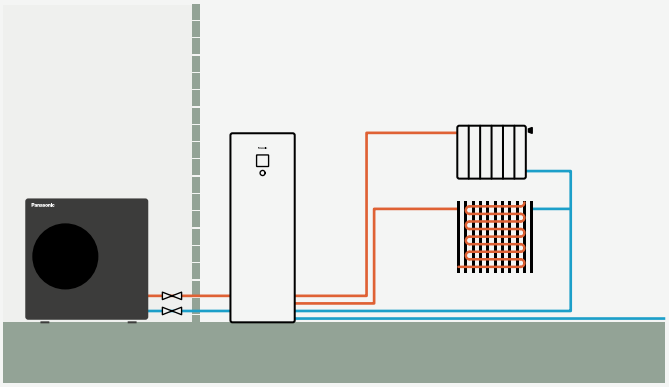
Aquarea Hydraulic Bi-bloc: 2 zones with external kit, buffer tank and swimming pool



Aquarea Hydraulic All in One: 2 zones with external kit, without buffer tank



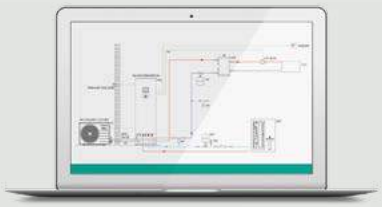
Aquarea Hydraulic All in One 2 zones: 2 zones built-in, without buffer tank



Hydraulic scheme generator.

The Aquarea Hydraulic Scheme Generator (HSG) allows users to select a hydraulic schematic according to their installation requirements. This will be accompanied by the relevant electrical connection schematic and component list.

Available on PRO Club www.panasonicproclub.com.



Panasonic

ETHEREA
POWER HEAT

Domestic air to air heat pump

Panasonic has developed a range of products designed for you, better than ever before. Above all, it is also a range for air conditioning professionals, such as yourself, thanks to its broad range of products which are capable of conditioning rooms of all sizes – always with optimal efficiency and incomparable ease of installation.

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PRODUCT SPECIFICATIONS

Wall-mounted

Etherea · R32 → 186
TZ super-compact · R32 → 187
BZ super-compact · R32 → 188
UZ super-compact · R32 → 189

More options for your home

Floor console · R32 → 190
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Multi split systems → 192

Free Multi system → 194
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Accessories and control → 206

Highlighted features

With innovative design, high-efficiency and advanced technologies, such as the Panasonic Comfort Cloud App for smart control and nanoe™ X for indoor air quality improvement, the residential range has been designed with you and your clients in mind.

More comfort. More savings. Cleaner air.

Panasonic air conditioners are engineered to deliver high performance, energy efficiency, and cleaner indoor air without compromising on comfort.

Discover the latest generation of air conditioning systems.

Designed with professionals in mind, Panasonic's newest air conditioning systems deliver a smart solution that prioritises quality, ease of installation, and long-term customer satisfaction.

nanoeX BETTER INDOOR AIR QUALITY

nanoe™ X technology helps reduce viruses, bacteria, pollen, and odours — improving air quality in every room.

A RANGE OF PRODUCTS DESIGNED FOR EVERY HOME

From compact 1x1 units to full 5x1 systems, Panasonic offers reliable options to suit any installation need.

YEAR-ROUND COMFORT

Heating in winter, cooling in summer, and cleaner air all year. Panasonic solutions keep homes comfortable in every season.

Comfort that performs.

Panasonic air conditioners are engineered to deliver powerful cooling and heating with low energy consumption.
Their super silent operation makes them ideal for residential spaces, while advanced technology ensures reliable performance in everyday use.

nanoe™ X technology.

With the benefits of hydroxyl radicals that have the capacity to inhibit pollutants, viruses, and bacteria and deodorise.

The iF Product Design Awards are among the most prestigious awards for product design excellence.

Winning the award thanks to its highly intelligent functionality, the Panasonic floor console is the ideal air-conditioning system for domestic and commercial applications.

iF DESIGN AWARD 2019

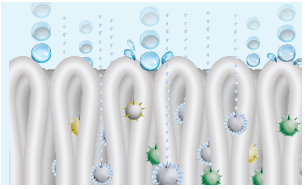
Bringing nature's balance indoors

nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.

2 | Contained in tiny water particles, nanoe™ X has a long lifespan, which is about 600 seconds, to spread easily around the room.

Huge quantity.

3 | nanoe X Generator Mark 3 produces 48 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.

The image shows nanoe X Generator Mark 3.

4 | No service and maintenance required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X – Panasonic unique technology

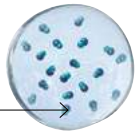
Deodorises	Capacity to inhibit 5 types of pollutants					Moisturises
Odours	Bacteria and viruses	Mould	Allergens	Pollen	Hazardous substances	Skin and hair

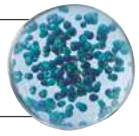
*Refer to https://aircon.panasonic.eu for more details and validation data.

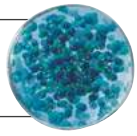
First nanoe™ device was developed by Panasonic in 2003

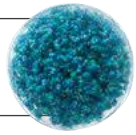
Generator: nanoe™	Generator: nanoe™ X		
2003	**Mark 1** - 2016	**Mark 2** - 2019	**Mark 3** - 2022
480 billion hydroxyl radicals/sec	4,8 trillion hydroxyl radicals/sec	9,6 trillion hydroxyl radicals/sec	48 trillion hydroxyl radicals/sec
Ion particle structure	**10x times**	**20x times**	**100x times**

Hydroxyl radicals









nanoe™ X, internationally-validated technology in testing facilities.

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Japan and China.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed. Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

	Tested contents		Generator	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Influenza (H1N1)	Mark 2	98,3% inhibited	30 m³	1,5 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2003WT8888-00889
		Bacteriophage ΦX174	Mark 1	99,2% inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	Mark 1	99,7% inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	24_0301_1
Adhering	Virus	SARS-CoV-2	Mark 1	91,4% inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	Mark 1	99,9% inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Bacteriophage ΦX174	Mark 1	99,8% inhibited	Approx. 25 m³	8 h	Japan Food Research Laboratories	13001265005-01
		Xenotropic murine leukemia virus	Mark 1	99,999% inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Coxsackie virus (CA16)	Mark 2	99,9% inhibited	30 m³	4 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2002WT8888-00439
		Bacteriophage	**Mark 3**	98,81% inhibited	Approx. 139,3 m³	4 h	SGS Inc	SHES210901902584
		MS2 Phage Virus	**Mark 3**	99,99% inhibited	Approx. 25 m³	2 h	Shokukanken, Inc.	227131N
	Bacteria	Staphylococcus aureus	Mark 1	99,9% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Cedar pollen	**Mark 3**	99% inhibited	Approx. 24 m³	12 h	Panasonic Product Analysis Center	H21YA017-1
		Ambrosia pollen	Mark 1	99,4% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Mark 1	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04
			Mark 3	Odour intensity reduced 1,7 levels	Approx. 139,3 m³	0,5 h	SGS Inc	SHES210901902478

Meets the requirements of VDI 6022 and HACCP

Certified under VDI 6022, meeting one of the strictest hygiene requirements on the market for HVAC systems, and aligned with HACCP-based food-safety practices.

VDI 6022 – Part 5 [1] Certification.

Avoidance of allergenic exposure.
Inhibits a wide range of harmful bacteria, viruses, mould, pollen and allergens.

VDI 6022 – Part 1 [1] & 1.1 [2] Certification.

Ventilation and indoor-air quality.
Panasonic nanoe™ X technology improving indoor air quality.

HACCP Food Safety Certified [3] – Europe's first HVAC manufacturer.

1) Certification mark only valid for nanoe X Generator Mark 3. 2) Certification mark only valid for nanoe X Generator Mark 2 and Mark 3. 3) Applicable to PACi NX and ECOi indoor units equipped with nanoe X Generator Mark 3.

nanoe™ X: improving protection 24/7.

Acts to clean the work area, such as meat or fish handling in hotel kitchens, food handling in industrial processes, laboratories, wine cellars, etc. So that the indoor environment can be a cleaner and more pleasant place to be all day long and keep the processes in better bacterial conditions.
nanoe™ X works together with the cooling function when during the day but can work independently when the area is not occupied.
Give the system the strength to increase the protection of persons, air, colds stuffs and working surfaces with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App.

Cleans the air even when there is no work activity.
Leave the nanoe™ X mode ON to inhibit certain pollutants and deodorize before start the work activity again.

Improves your environment and better protects the products handled when you are or not at work.
Enjoy a cleaner comfortable space both when working indoors and simply when it comes to better protecting products in the cold room.

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment

NEW! Wall-mounted Etherea.
Built-in nanoe X Generator Mark 3.

NEW! Wall-mounted TZ super-compact.
Built-in nanoe X Generator Mark 2.

NEW! Floor console.
Built-in nanoe X Generator Mark 3.

NEW! RAC Solo.
Built-in nanoe X Generator Mark 3.

New Etherea with nanoe™ X technology

ETHEREA

Etherea features nanoe™ X technology, class-leading performance, intelligent features, and a stylish design. It is designed to make your home comfortable, clean and the ideal place to be.

Available in 3

nanoe X

SEE PRODUCT SPECIFICATIONS

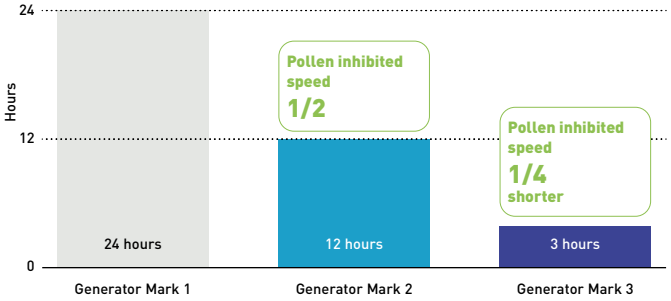
Air quality – nanoe™ X technology

Etherea is equipped with the latest nanoe X Generator Mark 3.
By releasing up to 48 trillion hydroxyl radicals per second, 100x more hydroxyl radicals than the traditional nanoe™, it actively works to clean the air and surfaces in your home. This advanced technology helps create a cleaner and more pleasant indoor environment.

- 24/7 cleaner air – Works independently of heating or cooling modes
- Internal cleaning – Can inhibit up to 99% of adhered bacteria and mould inside the unit. Cross flow fan coating reduces dust adhesion by 62,5%*
- Maintenance-free – No filters or replacements required

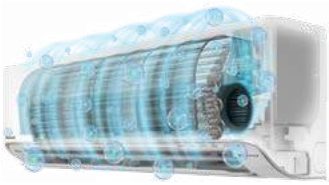
*Based on Panasonic internal testing. Performance may vary depending on usage conditions.

Comparison of time required to inhibit 99% of cedar pollen.



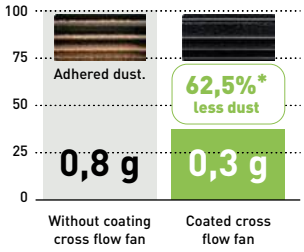
Advanced Internal cleaning with nanoe™ X.

nanoe™ X acts to inhibit 99% of adhered bacteria, viruses, and mould inside the unit.



*Based on Panasonic internal testing. Performance may vary depending on usage conditions.

Cross flow fan coating reduces dust adhesion by 62,5%*.



Optimised energy performance.

Etherea provides the highest level of comfort with a low energy consumption.
Its air to air heat pump technology ensures high efficiency all year round, while smart features help reduce running costs.

- A+++ SEER and SCOP ratings – Ensures year-round efficiency
- AI ECO Mode – Boost energy savings by up to 20% in cooling mode. Learns room conditions and balances energy saving with faster cooling

*Energy savings in cooling mode, comparing AI ECO and standard operation, based on a 4,2 kW model.

Technology for the ultimate comfort

Etherea combines Aerowings 2.0, Panasonic's advanced air flow technology, with high-performance operation to deliver fast, even, and gentle comfort throughout the room.

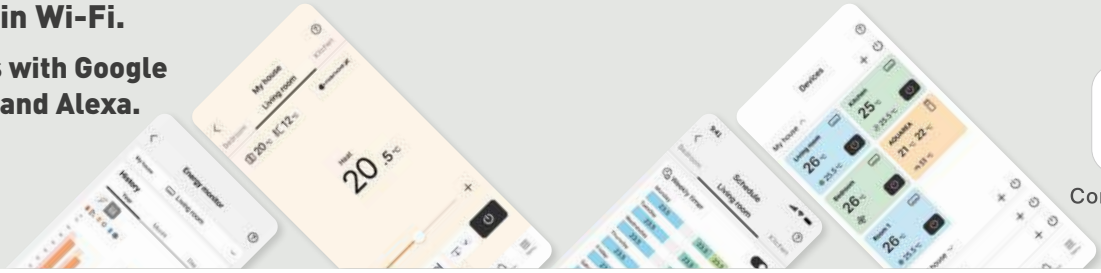
- Aerowings 2.0 – Two independent vanes for fast and even air distribution
- Shower Cooling – Gentle air flow directed to the ceiling, avoiding direct cold drafts
- Floor Heating Effect – Concentrated warm air directed downward for cosy comfort
- Super Quiet operation – As low as 19 dB(A) for undisturbed comfort
- Reliable heating – Operates efficiently even at -20 °C outdoor temperatures

Shower Cooling.

Floor Heating Effect.

Built-in Wi-Fi.

Works with Google Home and Alexa.



Panasonic
Comfort Cloud

New Wall-mounted TZ super-compact with nanoe™ X

Smart comfort and cleaner air in a compact unit.

TZ features nanoe™ X technology with the benefits of hydroxyl radicals for a cleaner and more comfortable indoor environment.

nanoe X

SEE PRODUCT SPECIFICATIONS

Air quality – nanoe™ X technology

The TZ series are equipped with the nanoe X Generator Mark 2.
By releasing up to 9,6 trillion hydroxyl radicals per second to help inhibit pollutants in the air and on surfaces. It's a compact solution that brings a cleaner indoor environment, day and night.

- nanoe X Generator Mark 2 – 20x more hydroxyl radicals than the traditional nanoe™
- 24/7 cleaner air – Works independently of heating or cooling modes
- Maintenance-free – No filters or replacements required

Technology for the ultimate comfort

TZ combines Aerowings, Panasonic's advanced air flow technology, with Super Quiet operation to deliver fast, even, and gentle comfort throughout the room.

- Aerowings – Two vanes that concentrate air flow for fast and even air distribution
- Shower Cooling – Gentle air flow directed to the ceiling, avoiding direct cold drafts
- Super Quiet operation – As low as 20 dB(A) for undisturbed comfort

Aerowings.

Shower Cooling.

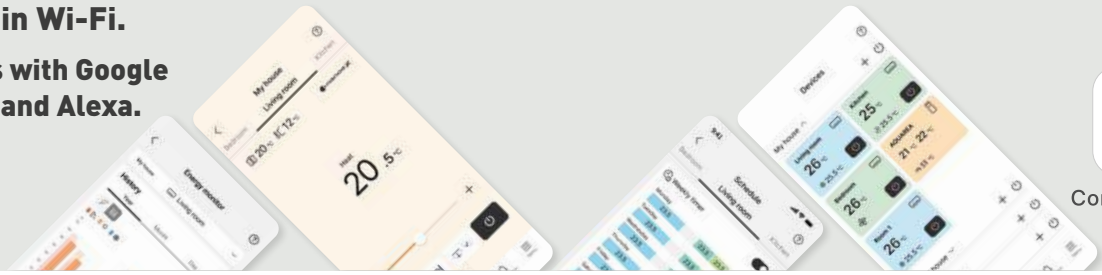
Super-compact design, smart details

The TZ series combines a super-compact indoor unit with smart design features for easier installation and servicing, effortless operation, and a clean, modern look without compromising performance.

- Super-compact size – Just 765 mm wide, ideal for tight spaces like above doors
- Easy installation 2.0 – Chassis and components designed for easier installation and servicing
- Ergonomic remote control – Backlit, intuitive layout with sliding cover for a clean look

Built-in Wi-Fi.

Works with Google Home and Alexa.



Panasonic
Comfort Cloud

Wall-mounted indoor units, designed for simple installation and maintenance

The full range of wall-mounted indoor units has been carefully designed for simple, stress-free installation and ongoing maintenance.

Simplified installation.

Latest design enhancements significantly reduce installation time. With reinforced structure and improved access to key components, such as the drain hose, cabling inserts and mounting supports, installation is faster, neater and more secure.

1. Stronger installation plate.
Provides greater stability, with additional screws for secure mounting on uneven surfaces.

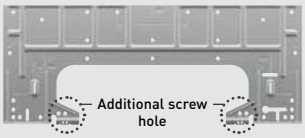
2. Built-in support holder.
Improves handling and provides a stable workspace.

3. Easy connection of drain hose.
Enhanced piping space allows better accessibility, improving installation efficiency. Faster and more secure connection with a resin securing ring*.

*Available only for TZ, BZ, UZ-CKE.

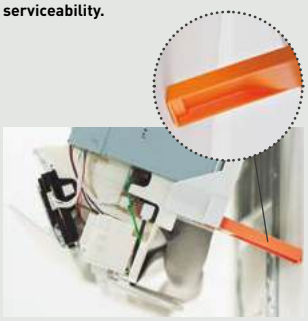
4. Easy wire insertion and tightening.
The models have combined 2 wire inserts into 1, ensuring front visibility and convenience while inserting wires from the back.

Installation plate: Strong and solid.



Screw holder for uneven surface (screws not provided).

Convenient installation and serviceability.



Bigger working space.

Lock mechanism of drain hose.

NEW

Single tunnel: easy wire insert.

Bigger working space for wiring connection.

Easy maintenance.

Meticulously designed for both installer and service technicians' benefit, the unit features an easy to remove front grille for convenient access to the interior.
The inner workings of the unit have also been redesigned to make maintenance quicker and easier.

5. Easier front grille removal.
The model comes with a one-piece front grille secured with slider locks, reducing the need for screws and making servicing easier.

6. Easier discharge grille removal.
The updated design replaces screws with clips, allowing faster and more convenient access for maintenance.

7. Simplified control board access.
The new models feature a redesigned control board with an easy-fix cover, allowing quicker and more convenient PCB removal for servicing.

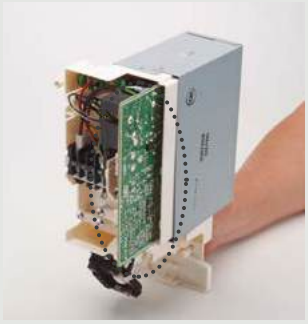
8. Easier fan removal.
The models are carefully designed to make removal of cross flow fans easier compared to the previous models, saving valuable time.

One-piece front grille: Easy removal.

Clip fixing for easy removal of the discharge grille.

NEW

Simple steps for PCB removal.



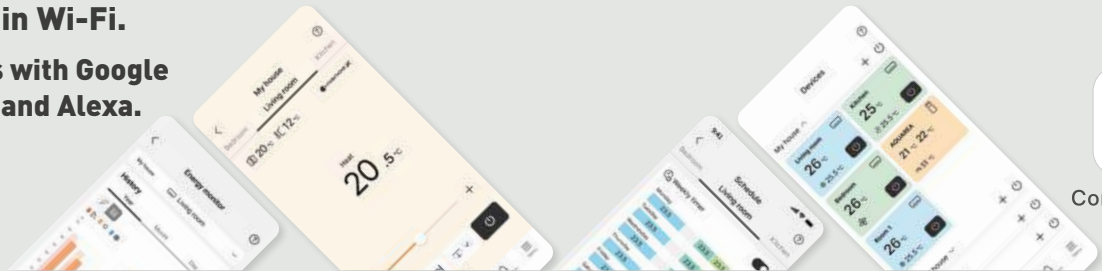
Bigger diameter: up to Ø105 (for Z-CKE).

New floor console. Efficient comfort and clean air all year round

Delivering efficient heating and cooling, the floor console enhances indoor comfort with ultra-quiet operation and cleaner air thanks to nanoe™ X technology. With Wi-Fi built-in, it offers flexible, remote control.

Built-in Wi-Fi.

Works with Google Home and Alexa.



Panasonic

Comfort Cloud

NEW

DESIGN AWARD 2019

The iF Product Design Awards are among the most prestigious awards for product design excellence.
Winning the award thanks to its highly intelligent functionality, the Panasonic Floor console is the ideal air-conditioning system for domestic and commercial applications.

nanoe™ X

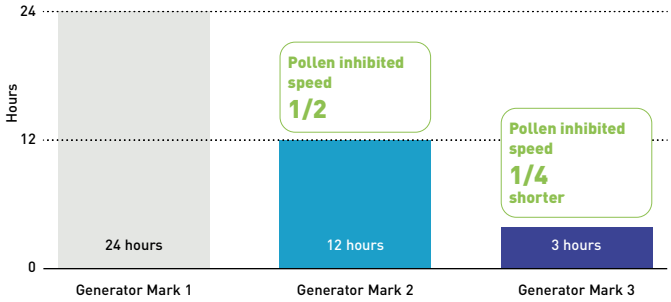
SEE PRODUCT SPECIFICATIONS

Air quality – nanoe™ X technology

The new Panasonic's floor console is equipped with the latest nanoe X Generator Mark3.
By releasing up to 48 trillion hydroxyl radicals per second, 100x more hydroxyl radicals than the traditional nanoe™, it actively works to clean the air and surfaces in your home. This advanced technology helps create a cleaner and more pleasant indoor environment.

- 24/7 cleaner air – Works independently of heating or cooling modes
- Maintenance-free – No filters or replacements required

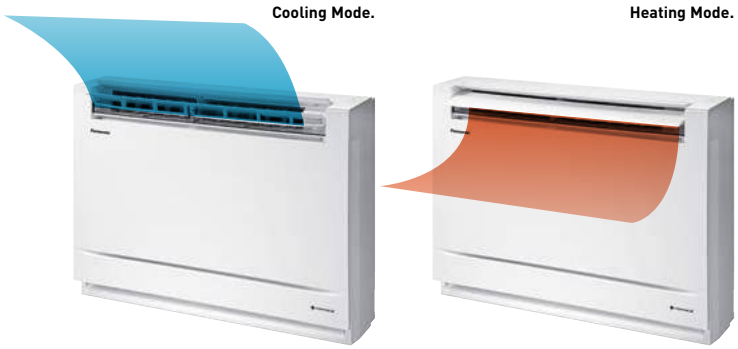
Comparison of time required to inhibit 99% of cedar pollen.



Technology for the ultimate comfort

Designed to deliver a superior indoor experience, the floor console combines advanced air flow control with whisper-quiet operation.

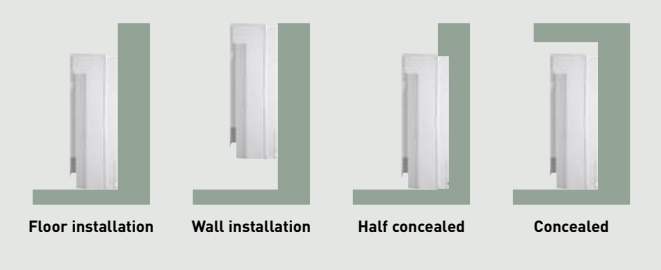
- Double air flow – Top air discharge ensures faster and more even temperature distribution
- Super Quiet operation – As low as 20 dB(A) for undisturbed comfort

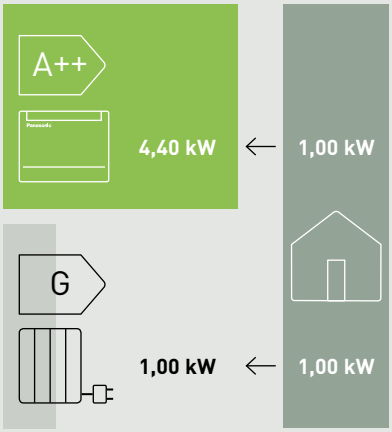


Smart design, seamless integration

The elegant and compact floor console is built to fit effortlessly into modern homes, offering style and efficiency.

- Ideal for renovation – A smart solution for replacing old boiler systems
- Reliable heating – Delivers warmth even at -15 °C outdoor temperatures
- Ergonomic remote control – Backlit, intuitive layout with sliding cover for a clean look





*SCOP on heating mode for floor console KIT-Z25-CFE and KIT-Z35-CFE compared with electrical heaters at +7 °C.

Backlit, ergonomic remote control with intuitive layout

Power Heat Multi system

Powerful heating and cleaner indoor air from a single outdoor unit.

The multi split system engineered for cold climates.

Check out the installation of the Power Heat Multi system at the Arctic Treehouse Hotel in Lapland, Finland.

POWER HEAT

Powerful heating of two or three rooms with one outdoor unit, even at -25 °C low outdoor temperatures.

The multi split solution offers high flexibility, as 2 to 3 indoor units can be connected to a single outdoor unit.

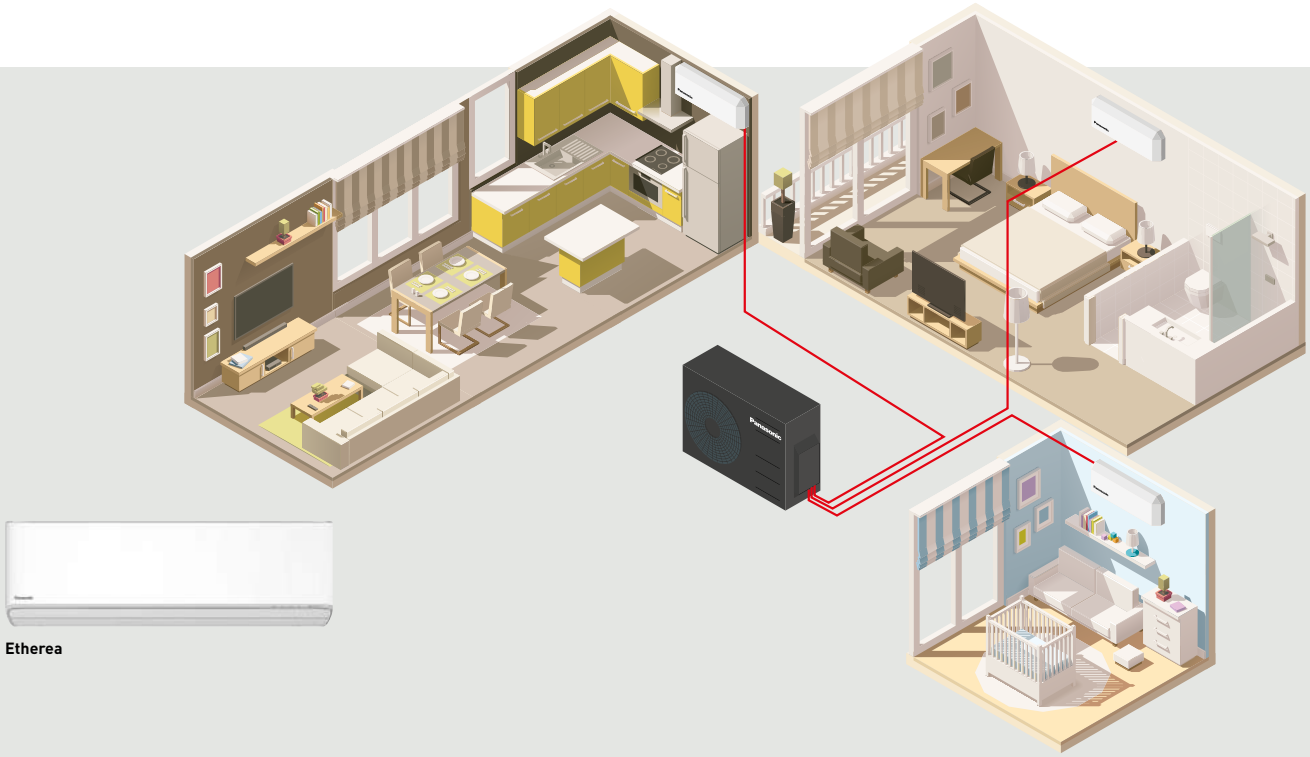
SEE PRODUCT SPECIFICATIONS

Reliable heating for the coldest winters.

- -25°C **RELIABLE HEATING EVEN AT -25 °C**
- **EQUIPPED WITH BASE PAN HEATER**
- nanoeX **COMPATIBLE WITH ETHEREA INDOOR UNITS, WITH nanoe™ X**

Reduces the burden of aesthetics, installation and maintenance.

- **SEAMLESS INTEGRATION OF OUTDOOR UNIT**
  Reduced outdoor unit space, harmonizing with building architecture.
- **REDUCED INSTALLATION TIME**
  Faster piping connection and pump-down time.
- **EXCELLENT MAINTAINABILITY**
  Advantageous under harsh conditions.



-25 °C outdoor temperature operation and base pan heater.
The heater prevents the outdoor unit base pan from freezing and ensures stable operation even in extremely cold regions.

Heating capacity at -25 °C outdoor temperature: 3,90 kW for the 2-room model and 4,30 kW for the 3-room model.
Efficiently heats 2 or 3 rooms using a single outdoor unit, even in low outdoor temperatures.

High-efficiency SCOP 4,60 A++.
High heating efficiency contributes to environmental protection while reducing electricity bills.

Dark color outdoor unit.
First outdoor unit in dark color, blending seamlessly with home exteriors without compromising aesthetics.

Connectable to Etherea indoor units.
Comfort and convenience with nanoe™ X and built-in Wi-Fi, combined with excellent heating and cooling performance.

Shorter installation time (faster than two single units).
Requires shorter installation times compared to installing multiple single units, reducing the installer's workload.

Panasonic R2 rotary compressor

The secret is flexibility.

Panasonic Inverter air conditioners have the flexibility to vary the rotation speed of the compressor. This allows it to use less energy to maintain the set temperature while also being able to cool the room quicker at start up.
So you can enjoy better savings on your electricity bills while maintaining cooling comfort.

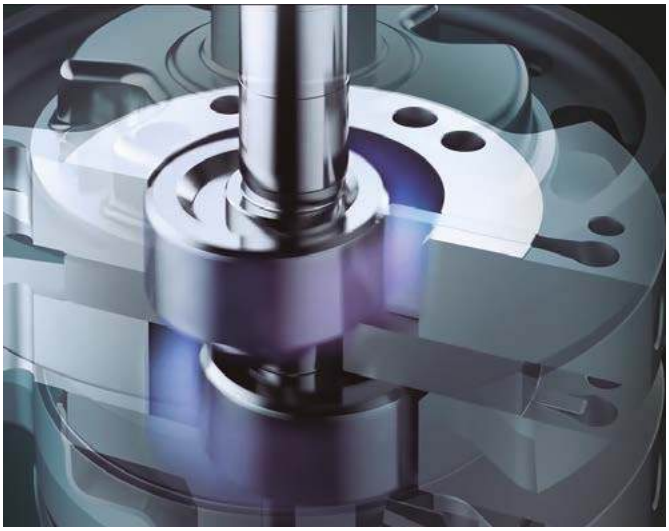
R2 rotary compressors utilize rolling piston technology.
The R2 compressor has been tested in extreme conditions: higher efficiency, single and dual piston, R32 / R410A refrigerant, compact size.

Making the world a cooler place since 1978.

Panasonic rotary compressors for room air conditioners have been installed in the most demanding environments around the world. Designed to withstand extreme conditions, Panasonic Rotary delivers high performance, efficiency and reliable service, no matter where you are. Panasonic, the world's largest manufacturer of rotary compressors.

Why is the Panasonic R2 rotary compressor so efficient?

1. High-efficiency motor. The premium silicon steel motor meets industry efficiency requirements.
2. Improved lubrication of high volume oil pump. The extended, high volume oil pump in conjunction with a larger capacity oil reservoir provides superior lubrication.
3. Accumulator has larger refrigerant capacity. The larger accumulator accommodates generous refrigerant amounts needed in longer line length installations.



*This image is for 5,0 / 7,1 kW.

R2 compressor value

About R2 compressor.

Built upon 36 years of compressor design and production experience, R2 is the next generation of rotary compressors for residential central air conditioning. The technology improvements, enhanced materials and simple design ensure R2 compressors are reliable, efficient and quiet. The R2 compressor delivers quality, comfort and peace of mind in homes around the world. Panasonic's Rotary Compressors have been life tested in some of the world's most demanding environments and the R2 design is the compressor of choice by contractors and homeowners in these challenging climates. For the high performance that home-owners demand, R2 rotary compressors are considered by the industry experts.

Leading technology.

Used in over 80% of cooling solutions globally, rotary is the world's dominant residential air conditioning compression technology. Panasonic is the leading rotary and residential AC compressor manufacturer in the world, with over 200 million compressors produced.

Benefits.

Central air conditioning delivered with a Panasonic R2 rotary compressor ensures a superior level of comfort at an economical cost.

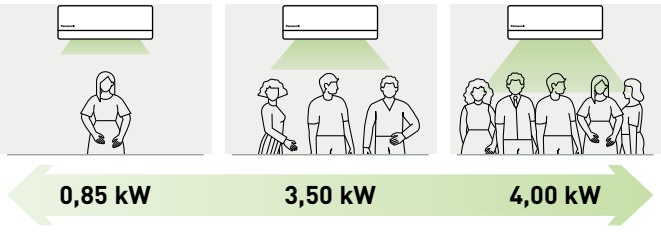
Inverter technology

Great energy saving performance. Reduces electricity consumption.

Panasonic Inverter air conditioners are designed to give you exceptional energy savings and performance. At the start up of an air conditioner's operation, a boost in power is required to reach the set temperature. After the set temperature is reached, less power is required to maintain it. The Panasonic Inverter air conditioner varies the rotation speed of the compressor. This provides a highly precise method of maintaining the set temperature.

Constant comfort.

Precise temperature control with a wide power output range enables an Inverter air conditioner to meet different room occupancy levels – thus ensuring constant comfort.



Minimum power
Compressor rotation speed: SLOW.
When not required, the unit operates at low power to save energy.

Medium power
Normal condition.

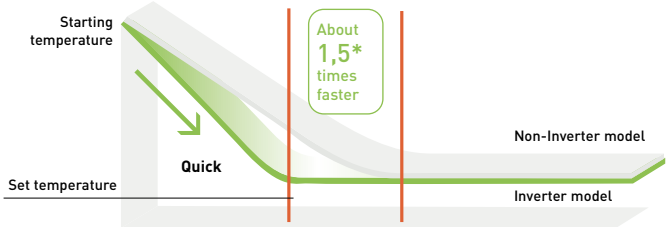
Maximum power
Compressor rotation speed: HIGH.
When required, the unit operates at full power.

*Graph shows the 3,5 kW Inverter model's wide power output range during cooling.

Quick comfort.

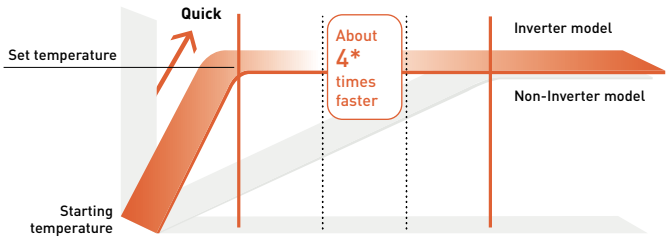
Panasonic Inverter air conditioners can operate with higher power during the start up period to cool the room 1,5 times faster and heat the room 4 times faster than non-Inverter models.

Comparison of cooling speed.



*Comparison of 3,5 kW Inverter vs. non-Inverter. Outside room temperature: 35 °C; setting temperature: 25 °C.

Comparison of heating speed.



*Comparison of 2,5 kW Inverter vs. non-Inverter. Outside room temperature: 2 °C ; setting temperature: 25 °C.

R22 Renewal. Panasonic standard units can be installed on existing R22 pipings

Change your old air conditioning system to a more efficient system!

An important drive to further reduce the potential damage to our ozone:

· All Panasonic RAC series from NKE to ZKE, including the latest CKE series, can be installed using existing R22 piping
· No need for additional accessories (only pipe reductions)
· Approximately 30% energy savings compared to R22 units

Panasonic is doing its part

We at Panasonic are also doing our part – recognising that all finances are under pressure at the moment. Panasonic has developed a clean and cost effective solution to enable this latest legislation to be introduced with as minimum an effect on businesses and cash reserves as possible.
The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high-efficiency R32 systems.
By bringing a simple solution to the problem Panasonic can renew all Split Systems and PACi NX systems; and depending upon certain restrictions we don't even limit the manufacturer's equipment we are replacing.
By installing a new high-efficiency Panasonic R32 system you can benefit from around 30% running cost saving compared to the R22 system.

Yes...
1. Check the capacity of the system you wish to replace
2. Select from the Panasonic range the best system to replace it with
3. Follow the procedure detailed in the brochure and technical data
Simple...

R22 - The reduction of Chlorine critical for a cleaner future.

Guidance on re-using existing R22 piping for a new R32 installation

1. Precaution.

The existing R22 piping can be re-used for a R32 system installation if the following conditions are met and the piping are finally verified to be:
· Dry (no moisture remaining in the piping)
· Clean (no dust remaining in the piping)
· Tight (no refrigerant leak at the joining and piping)

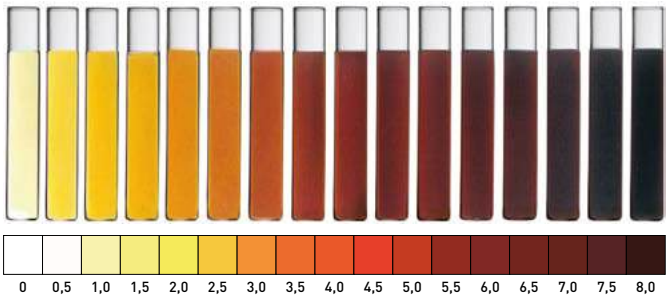
2. Conditions.

· Recover the refrigerant and oil.
Operate "force cooling" according to the recommended operation time, regardless of the piping length. Single split: 10 min. Multi split: 30 min. After that, carry out "pump down" to recover the refrigerant and oil from the existing R22 system

*Note: If pump down operation is not possible due to the malfunction of the system, flush and wash the existing piping to collect back the oil and dirt inside the system.

· Check the oil condition. If the oil contains dirt, wash the existing pipes
· Check the oil colour. After pump down, use a cotton bud to wipe the oil from the existing pipe. If the oil colour is higher than ASTM3, use a new pipe as re-use of old piping is not allowed
· Check pipe thickness. Make sure that the pipe thickness is more than 0,8 mm. If the thickness is less than 0,8 mm, use a new pipe
· Rework the flare for R32 connection. Do not reuse the old flare nuts

Deterioration criteria for refrigerant oil.



Make sure to use the new flare nuts attached to the R32 system.

*Note: If the existing piping size is 1/4" (6,35 mm) and 1/2" (12,7 mm), and the new R32 system is 1/4" (6,35 mm) and 3/8" (9,52 mm), use a pipe reducer connected at indoor and outdoor unit.

3. Applicable models.

Single split: Panasonic room air conditioners from NKE series onwards, including the latest CKE series.
Multi split: Panasonic room air conditioners from PBE series onwards, including the latest CBE series.

		Liquid	1/4 (6,35)		
		Gas	3/8 (9,52)	1/2 (12,70)	5/8 (15,88)
Split	16 / 20 / 25 / 35	1,6 - 3,5 kW	✔	▲	✖
	42 / 50 / 60	4,2 - 6,0 kW	✖	✔	▲
	71	6,8 - 7,5 kW	✖	✖	✔

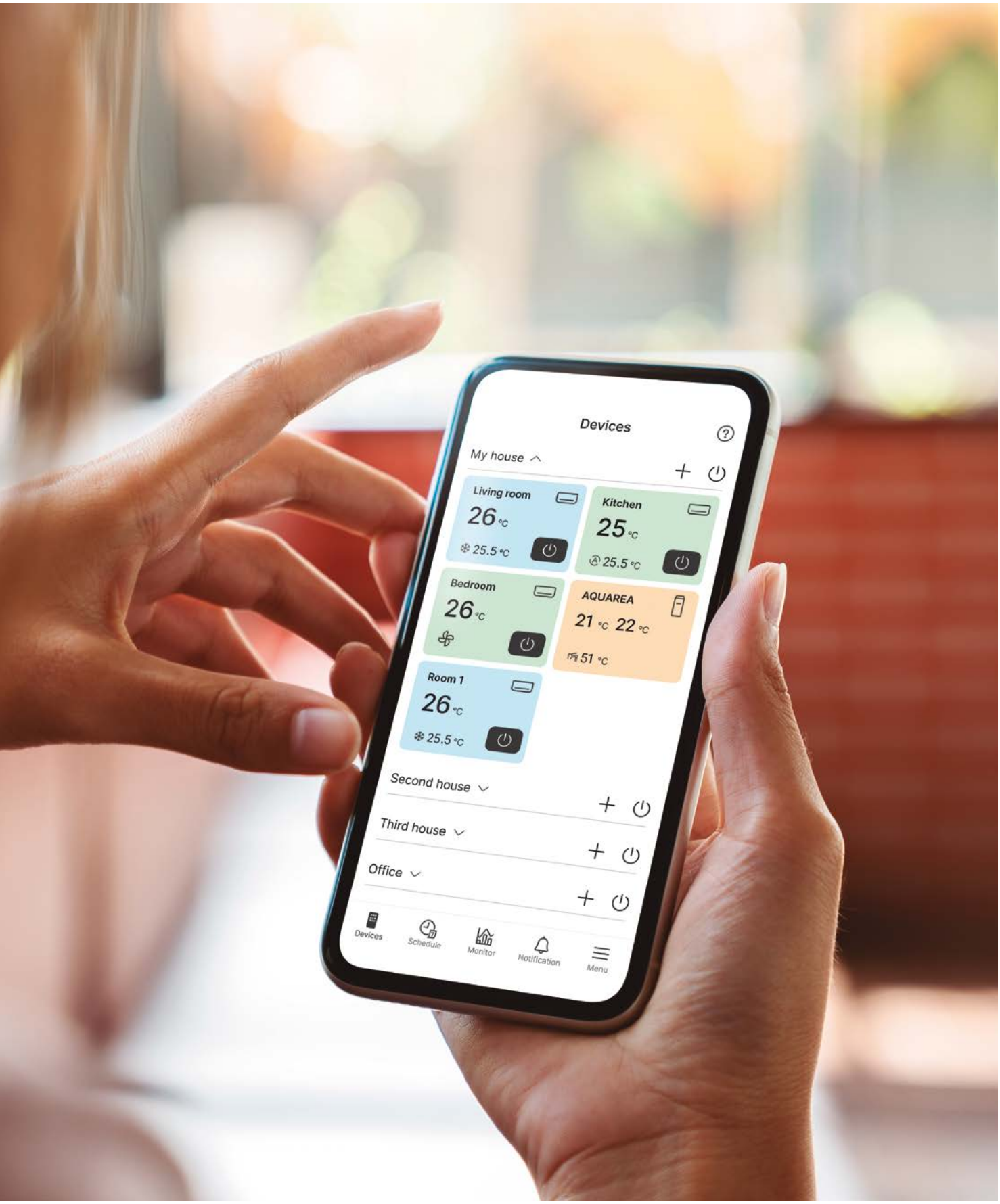
✔ Standard piping connection with current piping length and refrigerant charge rules.
▲ This combinations is allowed respecting maximum piping length and refrigerant charged declared in model installed as new.
✖ This combinations is not allowed as it is out of piping diameter.

Panasonic Comfort Cloud App

Take control of your comfort: Manage your Panasonic heat pumps anytime, anywhere.

Now redesigned for a more intuitive and accessible experience.

Panasonic
Comfort Cloud



REMOTE CONTROL

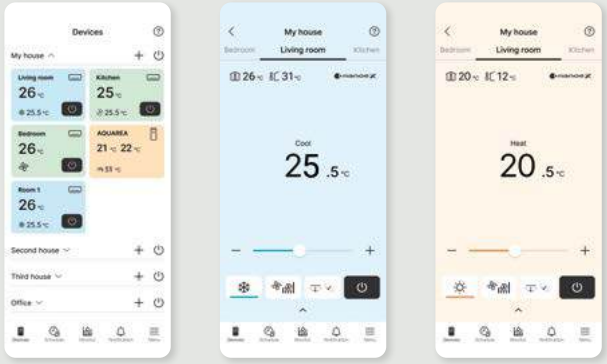
MONITOR ENERGY CONSUMPTION

nanoe™ X

WEEKLY TIMER

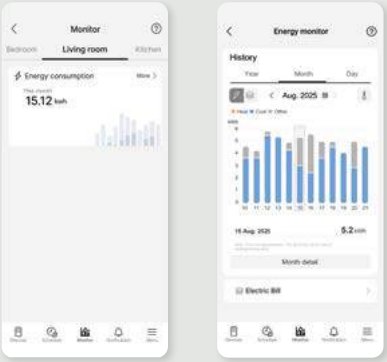
Effortless multi-device control and monitoring.

Monitor and manage multiple Panasonic units from a single smartphone or tablet. Instantly switch devices on or off, adjust temperature or mode, and activate nanoe™ X.
Whether you're controlling a single unit or coordinating multiple systems, the redesigned app delivers a smart, unified experience for modern living.



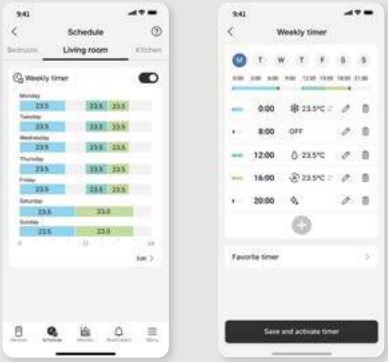
Energy monitoring with statistics.

Track estimated energy use and costs with built-in statistics to support smarter, more efficient living.



Easy scheduling with weekly timer.

Set timers based on your daily routine to maintain a consistently comfortable environment.

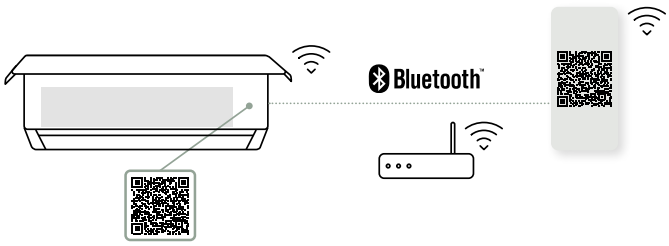


*Energy use and costs are estimated. Actual may differ. *Statistics function is not available for some older air conditioner model. *For air conditioners that connect multiple indoor and outdoor units, the energy consumption and electric bill data for each unit will be displayed as the same figure, representing the total for the entire system.

Easier setup with advanced built-in Wi-Fi

The advanced built-in Wi-Fi setup enables secured and easier connection to Panasonic Comfort Cloud App by scanning the QR code*.

*Feature available in models with built-in Wi-Fi.



Requirements for connecting with Panasonic Comfort Cloud App

1 | Indoor unit with built-in Wi-Fi: CS-XZ**CKEW-H, CS-XZ**CKEW, CS-MZ16CKE, CS-Z**CKEW, CS-MTZ16CKE, CS-TZ**CKEW, CS-Z**YKEA-1 CS-BZ**CKE, CZ-UZ**CKE, CS-MZ20CFEA and CS-Z**CFEAW

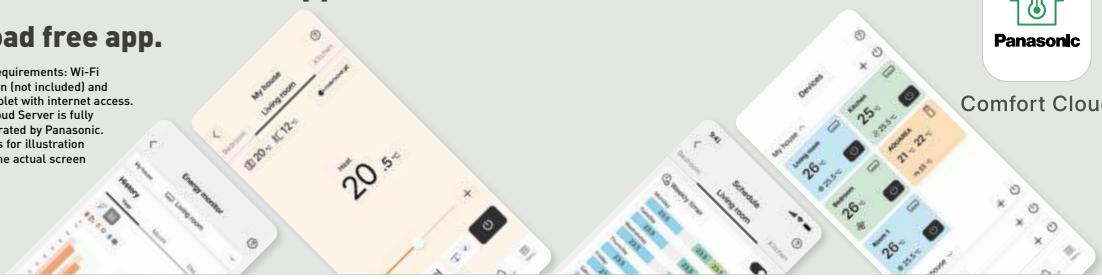
2 | Indoor unit with optional CZ-CAPWFC2 Wi-Fi adapter or CONEX remote controller: S-M20PY3E and S-**PY3E

Refer to the user manual for models not listed on this page.
Indoor temperature display and some special functions are not available through the app for all models.
Available in 20 European languages: Bulgarian, Croatian, Czech, Danish, Deutsch, English, Estonian, Finnish, French, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Slovenian, Spanish, Swedish, Turkish and Lithuanian.

Panasonic Comfort Cloud App

Download free app.

Other hardware requirements: Wi-Fi internet connection (not included) and Smartphone or tablet with internet access. The Panasonic Cloud Server is fully managed and operated by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Panasonic Comfort Cloud

Download on the App Store

GET IT ON Google Play

Voice Control. Words do more than actions

Boundless control and hands-free help to access to the features of your air-to-air heat pump.

Maximising your comfort is now a breeze with our connected air conditioners using the Panasonic Comfort Cloud App and Voice Control.

Seamless set up in 3 simple steps

Set up your Panasonic Comfort Cloud App.

Set up your Google Nest Mini or Amazon Echo devices and app.

Link your Google Nest Mini or Amazon Echo with Panasonic Comfort Cloud App.

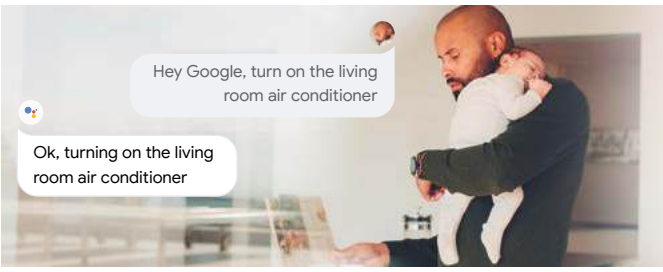
Compatible devices as of October 2025:
1. Android™ 9 or later
2. iOS 15.6 or later

Please note:
- This is not a definitive list of all compatible devices, other similar devices which use supported Operating Systems should also work either via dedicated apps. Please note that user experience may vary slightly depending on hardware and software combination
- Google, Android™, Google Play and Google Home are trademarks of Google LLC.
- Google Assistant is not available in certain languages and countries
- Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates
- Availability of Voice Assistant services varies depending on country and language
- Google Assistant and Alexa are compatible with the models shown in pages 184 and 185.

Download on the App Store
GET IT ON Google Play

Turn ON / OFF air conditioner

Convenient control for blissful rest.
Turn ON / OFF AC with ease when preparing a comfortable space for your little ones.



Adjust temperature

Easy control for uninterrupted quality time.
Adjust AC temperature to your comfort with a simple voice command.

Change mode

Extra help when you have a hectic day.
Conveniently change your AC operation mode to cool / heat / auto when your hands are full.

Check current status

Hands-free comfort for the whole family.
Easy access for the elderly to check current AC operation status and adjust AC settings.

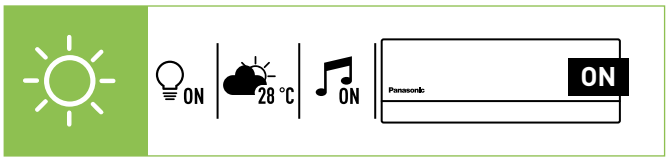
Get multiple things done with your voice

Simplify your day with your personalised routine by grouping individual actions.

Schedule your routine with your voice.
With the routine function, you can customise voice commands and control multiple voice-controlled devices including our network-enabled air conditioners to help you with your personalised routine.

Find out more (Amazon):
https://www.techhive.com/article/3327501/how-to-use-alexa-routines.html

Example of morning routine.



Example of night routine.

Voice Control with Network-Enabled air conditioners

Functions		When you are home		When away from home
		Remote control	Voice Control	Panasonic Comfort Cloud App
Smart control	Power ON / OFF	✔	✔	✔
	Control multiple units in 1 location	—	—	✔
	Control multiple units in multiple locations	—	—	✔
	Set up and manage routines	—	✔	—
Smart comfort	Cooling mode	✔	✔	✔
	Heating mode	✔	✔	✔
	Auto mode	✔	✔	✔
	nanoe™ X mode	✔	—	✔
	Internal cleaning	✔	—	✔
	Summer House mode	✔	—	✔
	Pre-cool	—	—	✔
	Change temperature	✔	✔	✔
Smart efficiency	Analyse energy usage patterns	—	—	✔
	Compare historical usage	—	—	✔
Smart assist	Receive error notifications	—	—	✔
	Assign multiple users		✔	✔
	Check power ON / OFF	✔	✔	✔
	Check temperature settings	✔	✔	✔
	Check room temperature	✔	✔	✔

Control and connectivity

Panasonic offers its customers cutting-edge technology, specially designed to ensure our air conditioning systems deliver even higher performance.

You can properly manage the air conditioning and perform comprehensive monitoring and control, with all of the features the remote controller provides at home, from anywhere in the world thanks to the internet applications Panasonic has created for you.

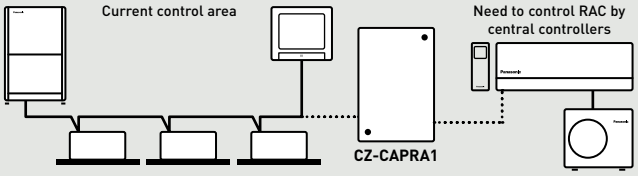
Domestic integration to S-Link.

CZ-CAPRA1
Can connect RAC range to S-Link. Full control is now possible.

Integrates any unit in big system control.
· YKEA server room integration [1)]
· Small offices with domestic indoors
· Tender for refurbishment (old system Domestic and VRF in one installation)
· Centralized Control Systems: 64 indoor units
· Intelligent controller / Web Server: 256 indoor units
· Panasonic AC Smart Cloud

· Basic operation items: ON / OFF, Mode select, Temperature setting, Fan speed, Flap setting, Remote control prohibit
· External input: ON / OFF control signal, Abnormal stop signal
· External output for Relay [2)]: Operation status (ON / OFF), Alarm status output

1) When duty rotation using the remote controller is set up, CZ-CAPRA1 cannot be connected.
2) Because current CN-CNT connector can not provide the power for external output relay, additional 12 V DC power supply for external relay is necessary.



Current system for PACi NX / VRF. Central controller can connect to S-Link line to control units directly.

RAC units cannot connect directly to S-Link to be managed by Central Controllers.

It's necessary to have interface between S-Link and RAC protocol to cover basic operating items.

Control by BMS.

Great flexibility for integration into your KNX, Modbus and BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters.
· Quick Installation
· Direct connection to the unit via CN-CNT connector
· Bidirectional control
· Unit can be controller simultaneously by remote controller and the gateway

1) This interface allows a complete and natural integration of Panasonic air conditioners into either BACnet IP or MS/TP networks. Is a BTL certified device. *For specific functionality list of each gateway, please check the user's manual.

	KNX gateways		Modbus gateways		BACnet gateways	
	PAW-AZAC-KNX-1	**PAW-AC-KNX-1i**	**PAW-AZAC-MBS-1**	**PAW-AC-MBS-1**	**PAW-AZAC-BAC-1**	**PAW-AC-BAC-1**
Dimension (H x W x D)	80 x 92 x 22 mm	59 x 45 x 21 mm	80 x 92 x 22 mm	93 x 53 x 59 mm	80 x 92 x 22 mm	93 x 53 x 59 mm
Mounting	Fixed by 2 screws or double-sided adhesive	Not required	Fixed by 2 screws or double-sided adhesive	DIN Rail	Fixed by 2 screws or double-sided adhesive	DIN Rail
Configuration	App and Bluetooth®	DIP switch	App and Bluetooth®	DIP switch	App and Bluetooth®	DIP switch
External power supply	12 V DC	Not required	12 V DC	Not required	12 V DC	Not required

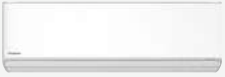
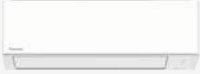
Easy connectivity via CN-CNT port.

All indoor units feature an easily accessible CN-CNT port to integrate accessories such as:
· KNX, Modbus, and BACnet gateways
· CZ-CAPRA1 (centralised control)

Model name	Interface
CZ-CAPRA1	RAC interface adapter for integration into S-Link, plus external input and alarm/status output
PAW-AC-KNX-1i	KNX gateway powered via CN-CNT. For RAC models with CN-CNT connector
PAW-AZAC-KNX-1	KNX gateway with 12 V DC power supply. For RAC models with CN-CNT connector
PAW-AC-MBS-1	DIN rail-mounted Modbus gateway, powered via CN-CNT. For RAC models with CN-CNT connector

Model name	Interface
PAW-AZAC-MBS-1	Modbus gateway with 12 V DC power supply. For RAC models with CN-CNT connector
PAW-AC-BAC-1	DIN rail-mounted BACnet gateway, powered via CN-CNT. For RAC models with CN-CNT connector
PAW-AZAC-BAC-1	BACnet gateway with 12 V DC power supply. For RAC models with CN-CNT connector
PAW-AC-DIO	Dry contact interface for RAC models with CN-RMT connector

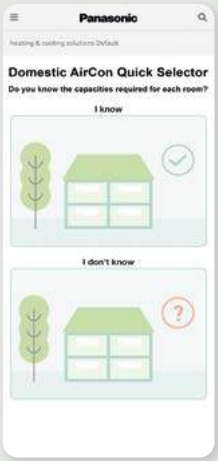
Domestic air conditioner R32 range

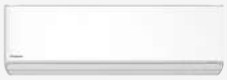
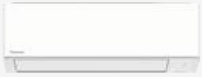
Page	Single split units	2,0 kW	2,5 kW	3,5 kW	4,2 kW	5,0 kW	6,0 kW	7,1 kW
NEW! Wall-mounted Etherea · R32								
P. 186		CS-XZ20CKEW-H CU-Z20CKE	CS-XZ25CKEW-H CU-Z25CKE	CS-XZ35CKEW-H CU-Z35CKE	CS-XZ42CKEW-H CU-Z42CKE			
		CS-XZ20CKEW CU-Z20CKE	CS-XZ25CKEW CU-Z25CKE	CS-XZ35CKEW CU-Z35CKE		CS-XZ50CKEW CU-Z50CKE		
		CS-Z20CKEW CU-Z20CKE	CS-Z25CKEW CU-Z25CKE	CS-Z35CKEW CU-Z35CKE	CS-Z42CKEW CU-Z42CKE	CS-Z50CKEW CU-Z50CKE		CS-Z71CKEW CU-Z71CKE
NEW! Wall-mounted TZ super-compact · R32								
P. 187		CS-TZ20CKEW CU-TZ20CKE	CS-TZ25CKEW CU-TZ25CKE	CS-TZ35CKEW CU-TZ35CKE	CS-TZ42CKEW CU-TZ42CKE	CS-TZ50CKEW CU-TZ50CKE	CS-TZ60CKEW CU-TZ60CKE	CS-TZ71CKEW CU-TZ71CKE
NEW! Wall-mounted BZ super-compact · R32								
P. 188			CS-BZ25CKE CU-BZ25CKE	CS-BZ35CKE CU-BZ35CKE		CS-BZ50CKE CU-BZ50CKE	CS-BZ60CKE CU-BZ60CKE	
NEW! Wall-mounted UZ super-compact · R32								
P. 189			CS-UZ25CKE CU-UZ25CKE	CS-UZ35CKE CU-UZ35CKE		CS-UZ50CKE CU-UZ50CKE		
NEW! Floor console · R32								
P. 190			CS-Z25CFEAW CU-Z25CBEA	CS-Z35CFEAW CU-Z35CBEA		CS-Z50CFEAW CU-Z50CBEA		
NEW! Low static pressure hide-away · R32								
P. 191			CS-Z25CD3EAW CU-Z25CBEA	CS-Z35CD3EAW CU-Z35CBEA		CS-Z50CD3EAW CU-Z50CBEA	CS-Z60CD3EAW CU-Z60CBEA	

Page	Stand-alone units		1,7 kW	2,0 kW	2,5 kW	3,0 kW
RAC Solo · R290 / R32						
P. 200		**RAC Solo**	P-MOG16IC5-E	P-MOZ20IC5-E	P-MOZ25IC5-E	P-MOZ30IC5-E
		NEW! RAC Solo with nanoe™ X	P-MOG16IC5A-E	P-MOZ20IC5A-E	P-MOZ25IC5A-E	P-MOZ30IC5A-E

Try Panasonic's augmented reality tool, the AR Heat Pump Viewer.

Configure your multi split system in a few steps using our online tool and see all possible combinations.



Page	Multi split indoors	1,6 kW	2,0 kW	2,5 kW	3,5 kW	4,2 kW	5,0 kW	6,0 kW	7,1 kW
NEW! Wall-mounted Etherea									
P. 195			CS-XZ20CKEW-H	CS-XZ25CKEW-H	CS-XZ35CKEW-H	CS-XZ42CKEW-H			
			CS-XZ20CKEW	CS-XZ25CKEW	CS-XZ35CKEW		CS-XZ50CKEW		
		CS-MZ16CKE	CS-Z20CKEW	CS-Z25CKEW	CS-Z35CKEW	CS-Z42CKEW	CS-Z50CKEW		CS-Z71CKEW
NEW! Wall-mounted TZ super-compact									
P. 195		CS-MTZ16CKE	CS-TZ20CKEW	CS-TZ25CKEW	CS-TZ35CKEW	CS-TZ42CKEW	CS-TZ50CKEW	CS-TZ60CKEW	CS-TZ71CKEW
NEW! Floor console									
P. 195			CS-MZ20CFEA	CS-Z25CFEAW	CS-Z35CFEAW		CS-Z50CFEAW		
4 way 60x60 cassette									
P. 195			S-M20PY3E CZ-KPY4	S-25PY3E CZ-KPY4	S-36PY3E CZ-KPY4		S-50PY3E CZ-KPY4	S-60PY3E CZ-KPY4	
NEW! Low static pressure hide-away									
P. 195			CS-MZ20CD3EA	CS-Z25CD3EAW	CS-Z35CD3EAW		CS-Z50CD3EAW	CS-Z60CD3EAW	

Page	Free Multi	3,2 ~ 6,0 kW	3,2 ~ 6,0 kW	3,2 ~ 7,7 kW	4,5 ~ 9,5 kW	4,5 ~ 11,2 kW	4,5 ~ 11,5 kW	4,5 ~ 14,7 kW	4,5 ~ 18,3 kW
NEW! Outdoor units Free Multi system · R32									
P. 194		CU-2Z35CBE	CU-2Z41CBE	CU-2Z50CBE	CU-3Z52CBE	CU-3Z68CBE	CU-4Z68CBE	CU-4Z80CBE	CU-5Z90CBE

Page	Power Heat Multi	4,0 ~ 8,5 kW (2 room)	4,5 ~ 11,0 kW (3 room)
Outdoor units Power Heat Multi system · R32			
P. 196		CU-2Z50ABEC	CU-3Z75ABEC

Page	Multi wall TZ	3,2 ~ 6,0 kW	3,2 ~ 7,7 kW	4,5 ~ 9,5 kW
Outdoor units Multi wall TZ system for TZ indoors · R32				
P. 197		CU-2TZ41TBE	CU-2TZ50TBE	CU-3TZ52TBE

NEW! Wall-mounted Etherea · R32

- nanoe™ X (Generator Mark 3): Improve protection 24/7
- Internal cleaning: Dries and cleans the indoor with nanoe™ X
- AI ECO Mode: up to 20% energy savings*
- Aerowings 2.0: Enhanced air flow comfort
- Super Quiet at just 19 dB(A)
- Built-in Wi-Fi: Smart control via Comfort Cloud App
- Compatible with Google Assistant and Amazon Alexa
- Optimized design for easy installation
- Graphite grey, silver, or matt white

*Energy savings in cooling mode, comparing AI ECO and standard operation, based on a 4,2 kW model.

KIT GRAPHITE GREY			KIT-XZ20-CKE-H	KIT-XZ25-CKE-H	KIT-XZ35-CKE-H	KIT-XZ42-CKE-H	—	—
KIT SILVER			KIT-XZ20-CKE	KIT-XZ25-CKE	KIT-XZ35-CKE	—	KIT-XZ50-CKE	—
KIT MATT WHITE			KIT-Z20-CKE	KIT-Z25-CKE	KIT-Z35-CKE	KIT-Z42-CKE	KIT-Z50-CKE	KIT-Z71-CKE
Cooling capacity	Nominal (Min - Max)	kW	2,05 (0,75 - 2,65)	2,50 (0,85 - 3,50)	3,50 (0,85 - 4,20)	4,20 (0,85 - 5,00)	5,00 (0,98 - 6,00)	7,10 (0,98 - 8,50)
EER [1]	Nominal (Min - Max)	W/W	4,66 (4,69 - 4,02)	4,90 (5,00 - 3,89)	4,27 (4,25 - 3,62)	3,39 (3,62 - 3,18)	3,68 (3,92 - 3,16)	3,24 (2,33 - 2,83)
SEER [2]			**8,70 A+++**	**9,50 A+++**	**9,50 A+++**	**7,10 A++**	**8,50 A+++**	**6,50 A++**
Pdesign (cooling)		kW	2,1	2,5	3,5	4,2	5,0	7,1
Input power	Nominal (Min - Max)	kW	0,44 (0,16 - 0,66)	0,51 (0,17 - 0,90)	0,82 (0,20 - 1,16)	1,24 (0,24 - 1,57)	1,36 (0,25 - 1,90)	2,19 (0,42 - 3,00)
Annual energy consumption [3]		kWh/a	84	92	129	207	206	382
Heating capacity	Nominal (Min - Max)	kW	2,80 (0,75 - 4,00)	3,40 (0,80 - 4,80)	4,00 (0,80 - 5,50)	5,30 (0,80 - 6,80)	5,80 (0,98 - 8,00)	8,20 (0,98 - 10,20)
Heating capacity at -7 °C		kW	2,38	2,8	3,2	4,11	4,8	6,31
COP [1]	Nominal (Min - Max)	W/W	4,67 (4,69 - 4,26)	4,86 (5,00 - 4,07)	4,55 (4,44 - 3,77)	3,73 (4,21 - 3,66)	4,14 (4,26 - 3,35)	3,73 (2,45 - 3,31)
SCOP [2]			**4,80 A++**	**5,20 A+++**	**5,20 A+++**	**4,30 A+**	**4,80 A++**	**4,20 A+**
Pdesign at -10 °C		kW	2,4	2,6	2,9	3,6	4,2	5,5
Input power	Nominal (Min - Max)	kW	0,60 (0,16 - 0,94)	0,70 (0,16 - 1,18)	0,88 (0,18 - 1,46)	1,42 (0,19 - 1,86)	1,40 (0,23 - 2,39)	2,20 (0,40 - 3,08)
Annual energy consumption [3]		kWh/a	700	700	781	1172	1225	1833
Indoor unit graphite grey			**CS-XZ20CKEW-H**	**CS-XZ25CKEW-H**	**CS-XZ35CKEW-H**	**CS-Z42CKEW-H**	**—**	**—**
Indoor unit silver			**CS-XZ20CKEW**	**CS-XZ25CKEW**	**CS-XZ35CKEW**	**—**	**CS-XZ50CKEW**	**—**
Indoor unit matt white			**CS-Z20CKEW**	**CS-Z25CKEW**	**CS-Z35CKEW**	**CS-Z42CKEW**	**CS-Z50CKEW**	**CS-Z71CKEW**
Power supply		V	230	230	230	230	230	230
Recommended fuse		A	16	16	16	16	16	20
Connection indoor / outdoor		mm²	4x1,5	4x1,5	4x1,5	4x1,5	4x2,5	4x2,5
Air flow	Cool / Heat	m³/min	10,4 / 11,9	12,4 / 13,0	12,7 / 14,4	14,5 / 15,4	17,4 / 19,1	19,0 / 19,9
Moisture removal volume		L/h	1,3	1,5	2	2,4	2,8	4,1
Sound pressure [4]	Cool (Hi / Lo / Q-Lo)	dB(A)	35 / 24 / 19	39 / 25 / 19	42 / 28 / 19	43 / 31 / 25	44 / 37 / 30	47 / 38 / 30
	Heat (Hi / Lo / Q-Lo)	dB(A)	36 / 25 / 19	39 / 27 / 19	43 / 33 / 19	43 / 35 / 29	44 / 37 / 30	47 / 38 / 30
Dimension	H x W x D	mm	295 x 870 x 229	295 x 870 x 229	295 x 870 x 229	295 x 870 x 229	295 x 1040 x 244	295 x 1040 x 244
Net weight		kg	10	10	11	10	12	13
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Outdoor unit			**CU-Z20CKE**	**CU-Z25CKE**	**CU-Z35CKE**	**CU-Z42CKE**	**CU-Z50CKE**	**CU-Z71CKE**
Air flow	Cool / Heat	m³/min	26,5 / 25,7	28,7 / 26,5	29,8 / 29,8	29,8 / 30,9	39,8 / 36,9	44,7 / 45,8
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	45 / 46	46 / 47	48 / 50	49 / 51	47 / 47	52 / 54
Dimension [5]	H x W x D	mm	542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	695 x 875 x 320	695 x 875 x 320
Net weight		kg	27	27	31	31	42	45
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 30	3 ~ 30
Elevation difference (in / out)		m	15	15	15	15	15	20
Pre-charged pipe length		m	7,5	7,5	7,5	7,5	7,5	10
Additional gas amount		g/m	10	10	10	10	15	25
Refrigerant (R32) / CO_2 Eq.		kg / T	0,70 / 0,47	0,70 / 0,47	0,81 / 0,55	0,83 / 0,56	1,13 / 0,76	1,35 / 0,91
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port.

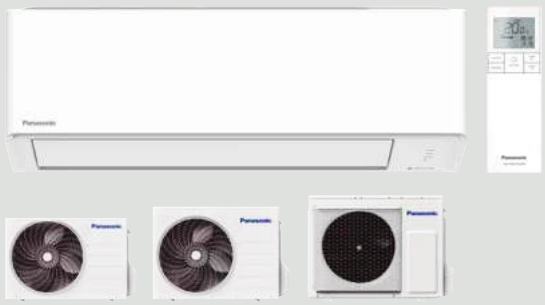
Accessories	
CZ-CAPRA1	RAC interface adapter for integration into S-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

SEER and SCOP: For KIT-**25-CKE and KIT-**35-CKE. AI ECO MODE: In cooling mode. SUPER QUIET: For KIT-**20-CKE, KIT-**25-CKE and KIT-**35-CKE. INTERNET CONTROL: Built-in Wi-Fi.

nanoeX

Built-in



NEW! Wall-mounted TZ super-compact · R32

- nanoe™ X (Generator Mark 2): Improve protection 24/7
- Aerowings: Enhanced air flow comfort
- Super Quiet at just 20 dB(A)
- Built-in Wi-Fi: Smart control via Comfort Cloud App
- Compatible with Google Assistant and Amazon Alexa
- Elegant and space saving design, only 765 mm wide
- Optimized design for easy installation 2.0

KIT			KIT-TZ20-CKE	KIT-TZ25-CKE	KIT-TZ35-CKE	KIT-TZ42-CKE	KIT-TZ50-CKE	KIT-TZ60-CKE	KIT-TZ71-CKE
Cooling capacity	Nominal (Min - Max)	kW	2,00 (0,75 - 2,50)	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)	4,20 (0,85 - 4,60)	5,00 (0,98 - 5,60)	6,00 (0,98 - 6,60)	7,10 (0,98 - 8,40)
EER [1]	Nominal (Min - Max)	W/W	4,08 (4,17 - 3,91)	3,85 (4,05 - 3,41)	3,57 (3,62 - 3,33)	3,36 (3,62 - 2,80)	3,13 (3,92 - 2,96)	3,24 (3,92 - 2,87)	3,23 (2,33 - 2,80)
SEER [2]			**7,00 A++**	**7,30 A++**	**7,30 A++**	**6,60 A++**	**6,90 A++**	**6,90 A++**	**6,30 A++**
Pdesign (cooling)		kW	2,0	2,5	3,5	4,2	5,0	6,0	7,1
Input power	Nominal (Min - Max)	kW	0,49 (0,18 - 0,64)	0,65 (0,21 - 0,88)	0,98 (0,24 - 1,20)	1,25 (0,24 - 1,64)	1,60 (0,25 - 1,89)	1,85 (0,25 - 2,30)	2,20 (0,42 - 3,00)
Annual energy consumption [3]		kWh/a	100	120	168	223	254	304	394
Heating capacity	Nominal (Min - Max)	kW	2,70 (0,70 - 3,60)	3,30 (0,80 - 4,10)	4,00 (0,80 - 5,10)	5,00 (0,80 - 6,80)	5,80 (0,98 - 7,50)	7,00 (0,98 - 8,20)	8,20 (0,98 - 10,20)
Heating capacity at -7 °C		kW	2,35	2,70	3,30	3,90	4,62	4,90	6,31
COP [1]	Nominal (Min - Max)	W/W	4,15 (4,24 - 3,53)	4,18 (4,21 - 3,66)	4,04 (4,10 - 3,70)	3,73 (4,10 - 3,33)	3,41 (4,67 - 3,26)	3,72 (4,67 - 3,57)	3,71 (2,45 - 3,29)
SCOP [2]			**4,60 A++**	**4,60 A++**	**4,60 A++**	**4,10 A+**	**4,50 A+**	**4,30 A+**	**4,10 A+**
Pdesign at -10 °C		kW	2,1	2,4	2,8	3,6	4,0	4,4	5,5
Input power	Nominal (Min - Max)	kW	0,65 (0,17 - 1,02)	0,79 (0,19 - 1,12)	0,99 (0,20 - 1,38)	1,34 (0,20 - 2,04)	1,70 (0,21 - 2,30)	1,88 (0,21 - 2,30)	2,21 (0,40 - 3,10)
Annual energy consumption [3]		kWh/a	639	730	852	1229	1244	1433	1878
Indoor unit			**CS-TZ20CKEW**	**CS-TZ25CKEW**	**CS-TZ35CKEW**	**CS-TZ42CKEW**	**CS-TZ50CKEW**	**CS-TZ60CKEW**	**CS-TZ71CKEW**
Power supply		V	230	230	230	230	230	230	230
Recommended fuse		A	16	16	16	16	16	20	20
Connection indoor / outdoor		mm²	4x1,5	4x1,5	4x1,5	4x1,5	4x2,5	4x2,5	4x2,5
Air flow	Cool / Heat	m³/min	10,0 / 10,5	11,0 / 11,5	11,8 / 12,3	12,6 / 13,3	12,6 / 13,4	19,9 / 21,0	20,4 / 21,6
Moisture removal volume		L/h	1,3	1,5	2	2,4	2,8	3,3	4,1
Sound pressure [4]	Cool (Hi / Lo / Q-Lo)	dB(A)	37 / 25 / 20	40 / 26 / 20	42 / 30 / 20	44 / 31 / 25	44 / 37 / 33	45 / 37 / 34	47 / 38 / 35
	Heat (Hi / Lo / Q-Lo)	dB(A)	38 / 26 / 21	40 / 27 / 21	42 / 33 / 21	44 / 35 / 28	44 / 37 / 33	45 / 37 / 34	47 / 38 / 35
Dimension	H x W x D	mm	290 x 765 x 214	290 x 765 x 214	290 x 765 x 214	290 x 765 x 214	290 x 765 x 214	295 x 1060 x 249	295 x 1060 x 249
Net weight		kg	9	9	9	9	9	14	15
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**CU-TZ20CKE**	**CU-TZ25CKE**	**CU-TZ35CKE**	**CU-TZ42CKE**	**CU-TZ50CKE**	**CU-TZ60CKE**	**CU-TZ71CKE**
Air flow	Cool / Heat	m³/min	29,7 / 29,7	30,0 / 28,9	28,7 / 29,7	31,0 / 29,5	32,7 / 32,7	34,4 / 35,6	44,7 / 45,8
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	46 / 47	47 / 48	48 / 50	49 / 51	48 / 49	49 / 51	52 / 54
Dimension [5]	H x W x D	mm	542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320
Net weight		kg	24	25	30	31	35	36	45
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 20	3 ~ 30	3 ~ 30
Elevation difference (in / out)		m	15	15	15	15	15	15	20
Pre-charged pipe length		m	7,5	7,5	7,5	7,5	10	10	10
Additional gas amount		g/m	10	10	10	10	15	15	25
Refrigerant (R32) / CO_2 Eq.		kg / T	0,50 / 0,34	0,58 / 0,39	0,68 / 0,46	0,79 / 0,53	1,03 / 0,70	1,22 / 0,82	1,32 / 0,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port.

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into S-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

R32 REFRIGERANT · A++ 7,30 SEER · A++ 4,60 SCOP · INVERTER · R2 ROTARY COMPRESSOR · nanoeX · 20 dB(A) · AEROWINGS · R22 → R410A R22 RENEWAL · INTEGRATION TO S-LINK · BUILT-IN WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-TZ25-CKE and KIT-TZ35-CKE. SUPER QUIET: For KIT-TZ20-CKE, KIT-TZ25-CKE and KIT-TZ35-CKE. INTERNET CONTROL: Built-in Wi-Fi.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

NEW! Wall-mounted BZ super-compact · R32

- Space saving design, only 765 mm wide
- Cleaner indoor air with PM2,5 Filter
- Aerowings: Enhanced air flow comfort
- Super Quiet at just 20 dB(A)
- Built-in Wi-Fi: Smart control via Comfort Cloud App
- Compatible with Google Assistant and Amazon Alexa
- Optimized design for easy installation 2.0

Built-in

KIT			KIT-BZ25-CKE	KIT-BZ35-CKE	KIT-BZ50-CKE	KIT-BZ60-CKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,30 (0,85 - 3,90)	5,00 (0,98 - 5,40)	6,00 (0,98 - 6,50)
EER [1]	Nominal (Min - Max)	W/W	3,68 (4,05 - 3,33)	3,24 (3,54 - 3,05)	3,03 (3,92 - 2,90)	3,03 (3,92 - 2,83)
SEER [2]			**6,50 A++**	**6,50 A++**	**6,60 A++**	**6,40 A++**
Pdesign (cooling)		kW	2,5	3,3	5	6
Input power	Nominal (Min - Max)	kW	0,68 (0,21 - 0,90)	1,02 (0,24 - 1,28)	1,65 (0,25 - 1,86)	1,98 (0,25 - 2,30)
Annual energy consumption [3]		kWh/a	135	178	265	328
Heating capacity	Nominal (Min - Max)	kW	3,15 (0,80 - 3,60)	3,70 (0,80 - 4,40)	5,40 (0,98 - 7,50)	6,80 (0,98 - 8,00)
Heating capacity at -7 °C		kW	2,35	2,60	4,62	5,19
COP [1]	Nominal (Min - Max)	W/W	4,09 (4,21 - 3,50)	3,72 (4,10 - 3,49)	3,42 (4,67 - 3,09)	3,16 (4,26 - 3,02)
SCOP [2]			**4,40 A+**	**4,20 A+**	**4,20 A+**	**4,10 A+**
Pdesign at -10 °C		kW	2,1	2,4	4	4,4
Input power	Nominal (Min - Max)	kW	0,77 (0,19 - 1,03)	1,00 (0,20 - 1,26)	1,58 (0,21 - 2,43)	2,15 (0,23 - 2,65)
Annual energy consumption [3]		kWh/a	668	800	1333	1502
Indoor unit			**CS-BZ25CKE**	**CS-BZ35CKE**	**CS-BZ50CKE**	**CS-BZ60CKE**
Power supply		V	230	230	230	230
Recommended fuse		A	16	16	16	20
Connection indoor / outdoor		mm²	4x1,5	4x1,5	4x2,5	4x2,5
Air flow	Cool / Heat	m³/min	10,0 / 10,5	10,4 / 11,4	12,6 / 13,4	12,8 / 13,1
Moisture removal volume		L/h	1,5	1,9	2,8	3,3
Sound pressure [4]	Cool (Hi / Lo / Q-Lo)	dB(A)	37 / 26 / 20	38 / 30 / 20	44 / 37 / 34	45 / 37 / 34
	Heat (Hi / Lo / Q-Lo)	dB(A)	36 / 27 / 24	38 / 33 / 25	44 / 37 / 34	45 / 37 / 34
Dimension	H x W x D	mm	290 x 765 x 214	290 x 765 x 214	290 x 765 x 214	290 x 765 x 214
Net weight		kg	9	9	9	9
Outdoor unit			**CU-BZ25CKE**	**CU-BZ35CKE**	**CU-BZ50CKE**	**CU-BZ60CKE**
Air flow	Cool / Heat	m³/min	30,4 / 30,4	31,1 / 30,4	32,7 / 32,7	42,6 / 39,2
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	48 / 49	48 / 50	48 / 49	50 / 50
Dimension [5]	H x W x D	mm	542 x 780 x 289	542 x 780 x 289	619 x 824 x 299	695 x 875 x 320
Net weight		kg	24	25	35	42
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 15	3 ~ 30
Elevation difference (in / out)		m	15	15	15	15
Pre-charged pipe length		m	7,5	7,5	10	7,5
Additional gas amount		g/m	10	10	15	15
Refrigerant (R32) / CO_2 Eq,		kg / T	0,50 / 0,34	0,56 / 0,38	1,03 / 0,70	1,03 / 0,70
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

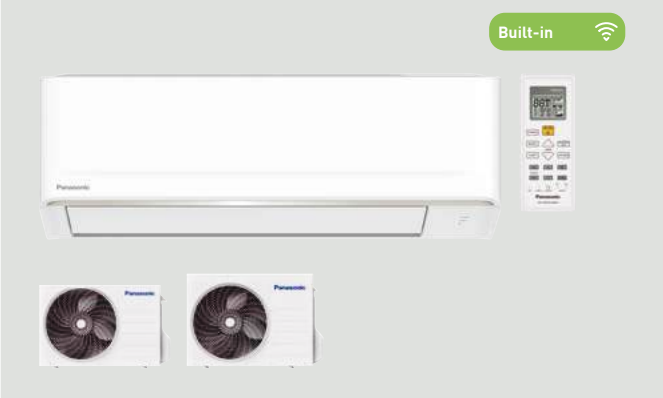
1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port.

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into S-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

R32 REFRIGERANT · A++ 6,60 SEER · A+ 4,40 SCOP · INVERTER · R2 ROTARY COMPRESSOR · PM2,5 FILTER · 20 dB(A) · AEROWINGS · R22 R410A R22 RENEWAL · INTEGRATION TO S-LINK · BUILT-IN WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

SEER: For KIT-BZ50-CKE. SCOP: For KIT-BZ25-CKE. SUPER QUIET: For KIT-BZ25-CKE and KIT-BZ35-CKE. INTERNET CONTROL: Built-in Wi-Fi.



NEW! Wall-mounted UZ super-compact · R32

- Space saving design, only 765 mm wide
- Aerowings: Enhanced air flow comfort
- Super Quiet at just 20 dB(A)
- Built-in Wi-Fi: Smart control via Comfort Cloud App
- Compatible with Google Assistant and Amazon Alexa
- Optimized design for easy installation 2.0

KIT			KIT-UZ25-CKE	KIT-UZ35-CKE	KIT-UZ50-CKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,30 (0,85 - 3,90)	5,00 (0,98 - 5,40)
EER [1]	Nominal (Min - Max)	W/W	3,68 (4,05 - 3,33)	3,24 (3,54 - 3,00)	3,03 (3,92 - 2,89)
SEER [2]			**6,40 A++**	**6,40 A++**	**6,60 A++**
Pdesign (cooling)		kW	2,5	3,3	5
Input power	Nominal (Min - Max)	kW	0,68 (0,21 - 0,90)	1,02 (0,24 - 1,30)	1,65 (0,25 - 1,87)
Annual energy consumption [3]		kWh/a	137	180	265
Heating capacity	Nominal (Min - Max)	kW	3,15 (0,80 - 3,60)	3,70 (0,80 - 4,40)	5,40 (0,98 - 7,40)
Heating capacity at -7 °C		kW	2,35	2,60	4,52
COP [1]	Nominal (Min - Max)	W/W	4,06 (4,21 - 3,50)	3,72 (4,10 - 3,46)	3,42 (4,67 - 3,08)
SCOP [2]			**4,30 A+**	**4,10 A+**	**4,10 A+**
Pdesign at -10 °C		kW	2,1	2,4	4
Input power	Nominal (Min - Max)	kW	0,78 (0,19 - 1,03)	1,00 (0,20 - 1,27)	1,58 (0,21 - 2,40)
Annual energy consumption [3]		kWh/a	684	820	1366
Indoor unit			**CS-UZ25CKE**	**CS-UZ35CKE**	**CS-UZ50CKE**
Power supply		V	230	230	230
Recommended fuse		A	16	16	16
Connection indoor / outdoor		mm^2	4x1,5	4x1,5	4x2,5
Air flow	Cool / Heat	m^3/min	10,0 / 10,5	10,4 / 11,4	12,6 / 13,4
Moisture removal volume		L/h	1,5	1,9	2,8
Sound pressure [4]	Cool (Hi / Lo / Q-Lo)	dB(A)	37 / 26 / 20	38 / 30 / 20	44 / 37 / 34
	Heat (Hi / Lo / Q-Lo)	dB(A)	36 / 27 / 24	38 / 33 / 25	44 / 37 / 34
Dimension	H x W x D	mm	290 x 765 x 214	290 x 765 x 214	290 x 765 x 214
Net weight		kg	9	9	9
Outdoor unit			**CU-UZ25CKE**	**CU-UZ35CKE**	**CU-UZ50CKE**
Air flow	Cool / Heat	m^3/min	30,4 / 30,4	31,1 / 30,4	32,7 / 32,7
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	48 / 49	48 / 50	48 / 49
Dimension [5]	H x W x D	mm	542 x 780 x 289	542 x 780 x 289	619 x 824 x 299
Net weight		kg	24	25	35
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 15
Elevation difference (in / out)		m	15	15	15
Pre-charged pipe length		m	7,5	7,5	10
Additional gas amount		g/m	10	10	15
Refrigerant (R32) / CO_2 Eq.		kg / T	0,50 / 0,34	0,56 / 0,38	1,03 / 0,70
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port.

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into S-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

SEER: For KIT-UZ50-CKE. SCOP: For KIT-UZ25-CKE. SUPER QUIET: For KIT-UZ25-CKE and KIT-UZ35-CKE. INTERNET CONTROL: Built-in Wi-Fi.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

NEW! Floor console · R32

- nanoe™ X (Generator Mark 3): Improve protection 24/7
- Modern design: Seamlessly integrates into contemporary interiors
- Stylish remote control
- Built-in Wi-Fi: Smart control via Comfort Cloud App
- Compatible with Google Assistant and Amazon Alexa

nanoeX

Built-in

KIT			KIT-Z25-CFE	KIT-Z35-CFE	KIT-Z50-CFE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,40)	3,50 (0,85 - 3,80)	5,00 (0,90 - 5,70)
EER [1]	Nominal (Min - Max)	W/W	4,81 (3,54 - 3,78)	4,07 (3,54 - 3,73)	3,60 (3,53 - 3,15)
SEER [2]			**7,90 A++**	**8,10 A++**	**6,70 A++**
Pdesign (cooling)		kW	2,50	3,50	5,00
Input power	Nominal (Min - Max)	kW	0,52 (0,24 - 0,90)	0,86 (0,24 - 1,02)	1,39 (0,26 - 1,81)
Annual energy consumption [3]		kWh/a	111	151	261
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,00)	4,30 (0,85 - 6,00)	5,80 (0,90 - 8,10)
Heating capacity at -7 °C		kW	2,88	3,37	5,03
COP [1]	Nominal (Min - Max)	W/W	4,47 (3,54 - 3,70)	3,98 (3,54 - 3,43)	3,74 (3,46 - 3,12)
SCOP [2]			**4,60 A++**	**4,60 A++**	**4,30 A+**
Pdesign at -10 °C		kW	2,70	3,20	4,40
Input power	Nominal (Min - Max)	kW	0,76 (0,24 - 1,35)	1,08 (0,24 - 1,75)	1,55 (0,26 - 2,60)
Annual energy consumption [3]		kWh/a	822	974	1433
Indoor unit			**CS-Z25CFEAW**	**CS-Z35CFEAW**	**CS-Z50CFEAW**
Air flow	Cool / Heat	m³/min	9,6 / 10,0	9,7 / 10,1	11,9 / 13,4
Moisture removal volume		L/h	1,5	2,0	2,8
Sound pressure [4]	Cool (Hi / Lo / Q-Lo)	dB(A)	38 / 25 / 20	39 / 26 / 20	44 / 31 / 27
	Heat (Hi / Lo / Q-Lo)	dB(A)	38 / 25 / 19	39 / 26 / 19	46 / 33 / 29
Dimension	H x W x D	mm	600 x 750 x 207	600 x 750 x 207	600 x 750 x 207
Net weight		kg	13	13	13
nanoe X Generator			Mark 3	Mark 3	Mark 3
Outdoor unit			**CU-Z25CBEA**	**CU-Z35CBEA**	**CU-Z50CBEA**
Power supply		V	230	230	230
Recommended fuse		A	16	16	16
Connection indoor / outdoor		mm²	4x1,5	4x1,5	4x1,5
Air flow	Cool / Heat	m³/min	28,7 / 27,2	34,3 / 31,8	39,7 / 36,4
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	46 / 47	48 / 48	48 / 48
Dimension [5]	H x W x D	mm	542 x 780 x 289	619 x 824 x 299	695 x 875 x 320
Net weight		kg	32	33	43
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
Pipe length range		m	3 ~ 20	3 ~ 20	3 ~ 30
Elevation difference (in / out)		m	15	15	20
Pre-charged pipe length		m	7,5	7,5	7,5
Additional gas amount		g/m	10	10	15
Refrigerant (R32) / CO_2 Eq.		kg / T	0,88 / 0,59	0,97 / 0,65	1,13 / 0,76
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of a position 1 m in front of the main body and 1 m above floor. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port.

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into S-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

R32 REFRIGERANT · A++ 8,10 SEER · A++ 4,60 SCOP · INVERTER+ · R2 ROTARY COMPRESSOR · nanoeX · 20 dB(A) · -10 °C COOLING MODE · -15 °C HEATING MODE · R22 → R410A R22 RENEWAL · BUILT-IN WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-Z35-CFE. SUPER QUIET: For KIT-Z25-CFE and KIT-Z35-CFE. INTERNET CONTROL: Built-in Wi-Fi. iF DESIGN AWARD 2019: Floor console awarded with the prestigious IF Design Award 2019.

Optional wireless control kit.
CZ-RL511D

NEW! Low static pressure hide-away · R32

- Compact design: Indoor unit only 200 mm high
- Flexible installation: Long piping, compact outdoor unit, air inlet from the back or bottom
- Built-in drain pump
- Optional KNX, Modbus, and BACnet connectivity
- Wired control with weekly timer

MORE DUCT TYPE SOLUTIONS IN PACi NX SECTION

KIT			KIT-Z25-CD3	KIT-Z35-CD3	KIT-Z50-CD3	KIT-Z60-CD3
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,20)	3,50 (0,85 - 4,00)	5,10 (0,90 - 5,70)	6,00 (0,90 - 6,50)
EER [1]	Nominal (Min - Max)	W/W	4,31 (3,54 - 3,76)	3,85 (3,54 - 3,36)	3,27 (3,53 - 3,20)	2,94 (3,53 - 2,83)
SEER [2]			**6,20 A++**	**6,20 A++**	**6,10 A++**	**6,00 A+**
Pdesign (cooling)		kW	2,50	3,50	5,10	6,00
Input power	Nominal (Min - Max)	kW	0,58 (0,24 - 0,85)	0,91 (0,24 - 1,19)	1,56 (0,26 - 1,78)	2,04 (0,26 - 2,30)
Annual energy consumption [3]		kWh/a	141	198	293	350
Heating capacity	Nominal (Min - Max)	kW	3,20 (0,85 - 4,60)	4,20 (0,85 - 5,10)	6,10 (0,90 - 7,20)	7,00 (0,90 - 8,00)
Heating capacity at -7 °C		kW	2,60	3,00	4,50	5,10
COP [1]	Nominal (Min - Max)	W/W	4,00 (3,70 - 3,68)	3,82 (3,70 - 3,59)	3,35 (3,46 - 3,27)	3,24 (3,46 - 3,08)
SCOP [2]			**4,20 A+**	**4,10 A+**	**4,10 A+**	**4,10 A+**
Pdesign at -10 °C		kW	2,60	2,80	4,00	4,60
Input power	Nominal (Min - Max)	kW	0,80 (0,23 - 1,25)	1,10 (0,23 - 1,42)	1,82 (0,26 - 2,20)	2,16 (0,26 - 2,60)
Annual energy consumption [3]		kWh/a	867	956	1366	1571
Indoor unit			**CS-Z25CD3EAW**	**CS-Z35CD3EAW**	**CS-Z50CD3EAW**	**CS-Z60CD3EAW**
External static pressure [4]	Min - Max	Pa	15 - 45	15 - 45	15 - 50	15 - 50
Air flow	Cool / Heat	m³/min	10,5 / 10,5	11,2 / 11,2	15,3 / 15,3	15,7 / 15,7
Moisture removal volume		L/h	1,5	2,0	2,8	2,8
Sound pressure [5]	Cool (Hi / Lo / Q-Lo)	dB(A)	33 / 27 / 24	33 / 27 / 24	39 / 29 / 26	41 / 30 / 27
	Heat (Hi / Lo / Q-Lo)	dB(A)	35 / 27 / 24	35 / 27 / 24	39 / 30 / 27	41 / 32 / 29
Dimension	H x W x D	mm	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640
Net weight		kg	19	19	19	19
Outdoor unit			**CU-Z25CBEA**	**CU-Z35CBEA**	**CU-Z50CBEA**	**CU-Z60CBEA**
Power supply		V	230	230	230	230
Recommended fuse		A	16	16	16	—
Connection indoor / outdoor		mm²	4x1,5 ~ 2,5	4x1,5 ~ 2,5	4x1,5 ~ 2,5	—
Air flow	Cool / Heat	m³/min	28,7 / 27,2	34,3 / 31,8	39,7 / 36,4	42,6 / 39,7
Sound pressure [5]	Cool / Heat (Hi)	dB(A)	46 / 47	48 / 48	48 / 48	49 / 50
Dimension [6]	H x W x D	mm	542 x 780 x 289	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320
Net weight		kg	32	33	43	43
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)
Pipe length range		m	3 ~ 20	3 ~ 20	3 ~ 30	3 ~ 30
Elevation difference (in / out)		m	15	15	20	20
Pre-charged pipe length		m	7,5	7,5	7,5	7,5
Additional gas amount		g/m	10	10	15	15
Refrigerant (R32) / CO_2 Eq.		kg / T	0,88 / 0,59	0,97 / 0,65	1,13 / 0,76	1,13 / 0,76
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The specification listed on the table indicates values under the condition of 25 Pa (2,5 mmAq) which are applied for factory default setting. Change switch on PCB from Hi to S-Hi to have more than 6,0 mmAq. 5) The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit with 1 m duct on the suction side and 2 m duct on the discharge side. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. 6) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port.

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into S-Link

Accessories	
CZ-RL511D	Optional wireless control kit

R32 REFRIGERANT · A++ 6,20 SEER · A+ 4,20 SCOP · INVERTER · R2 ROTARY COMPRESSOR · STATIC PRESSURE UP TO 7 mmAq · -10 °C COOLING MODE · -15 °C HEATING MODE · FILTER INCLUDED · R22 R410A R22 RENEWAL · INTEGRATION TO S-LINK · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For KIT-Z25-CD3.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Multi split systems

When the heating and cooling requirements exceed the scope of a single room, Panasonic offers a wide range of options with a multi split solution.

Panasonic multi split systems - a range to suit every need.

High flexibility in installation, while reducing aesthetic impact and maximising comfort.

MULTIPLE INDOOR UNITS WITH ONLY ONE OUTDOOR

Individual control of each indoor.

WIDE RANGE OF CONNECTABLE UNITS

Wall-mounted, floor console and cassette with nanoe™ X.

SEAMLESS INTEGRATION OF OUTDOOR UNIT

Reduced outdoor unit space, harmonizing with building architecture.

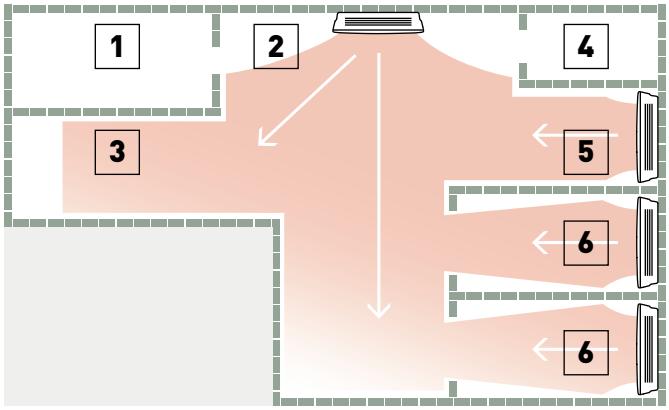
REDUCED INSTALLATION TIME

Faster piping connection and pump-down time.

Why choose a multi split system?

With one indoor unit per room or area with individual control, it is easy to achieve the desired level of comfort throughout the home.
Outside, there is only one unit, which reduces the space required for the outdoor unit, improves the aesthetics of the building and makes installation easier.

Solution with multi split.



1. Laundry room. 2. Entrance. 3. Kitchen / dining area. 4. Bathroom. 5. Living room. 6. Bedroom.

Free Multi system. High flexibility for maximising comfort.

Full flexibility up to 9,0 kW and up to 5 ports with wide range of indoor units including high performance Etherea indoor units, reaching up to A+++ / A++.

x1 x5
UP TO 5 INDOOR UNITS WITH ONLY ONE OUTDOOR

WIDE RANGE OF COMPATIBLE INDOORS WITH nanoe™ X

A+++
SEER. HIGH ENERGY EFFICIENCY CLASS

Power Heat Multi system. Reliable heating for cold winters.

POWER HEAT

Powerful heating of two or three rooms with one outdoor unit, even at -25 °C low outdoor temperatures.

-25°C **RELIABLE HEATING EVEN AT -25 °C**

EQUIPPED WITH BASE PAN HEATER

EXCELLENT MAINTAINABILITY. ADVANTAGEOUS UNDER HARSH CONDITIONS.

-25 °C outdoor temperature operation and base pan heater.
The heater prevents the outdoor unit base pan from freezing and ensures stable operation even in extremely cold regions.

Heating capacity at -25 °C outdoor temperature: 3,90 kW for the 2-room model and 4,30 kW for the 3-room model.
Efficiently heats 2 or 3 rooms using a single outdoor unit, even in low outdoor temperatures.

High-efficiency SCOP 4,60 A++.
High heating efficiency contributes to environmental protection while reducing electricity bills.

Dark color outdoor unit.
First outdoor unit in dark color, blending seamlessly with home exteriors without compromising aesthetics.

Connectable to Etherea indoor units.
Comfort and convenience with nanoe™ X and built-in Wi-Fi, combined with excellent heating and cooling performance.

Multi wall TZ system. The super compact multi split solution.

x1 x3
UP TO 3 INDOOR UNITS WITH ONLY ONE OUTDOOR

COMPACT OUTDOOR UNIT, TO MINIMISE OUTDOOR UNIT SPACE

COMPATIBLE WITH TZ SUPER-COMPACT INDOOR UNITS, WITH nanoe™ X

Free Multi system

NEW! Outdoor units Free Multi system · R32

- Up to 5 indoor units with a single outdoor unit
- Up to 5 rooms with individual control
- Etherea, TZ super-compact, floor console and 4 way 60x60 cassette with nanoe™ X technology to improve protection 24/7
- High energy efficiency class A+++ SEER
- Indoor units compatible with internet and Voice Control

Configure your multi split system in a few steps using our online tool and see all possible combinations.

OUTDOOR UNIT			CU-2Z35CBE	CU-2Z41CBE	CU-2Z50CBE	CU-3Z52CBE	CU-3Z68CBE	CU-4Z68CBE	CU-4Z80CBE	CU-5Z90CBE
Indoor nominal capacity (Min - Max)			**3,2 ~ 6,0 kW**	**3,2 ~ 6,0 kW**	**3,2 ~ 7,7 kW**	**4,5 ~ 9,5 kW**	**4,5 ~ 11,2 kW**	**4,5 ~ 11,5 kW**	**4,5 ~ 14,7 kW**	**4,5 ~ 18,3 kW**
Cooling capacity	Nominal	kW	3,50	4,10	5,00	5,20	6,80	6,80	8,00	9,00
	Min		1,50	1,50	1,50	1,80	1,90	1,90	3,00	2,90
	Max		4,50	5,20	5,40	7,30	8,00	8,80	9,20	11,50
EER [1]	Nominal	W/W	4,61	4,36	4,17	4,77	3,91	4,30	4,04	4,02
	Min		6,00	6,00	6,00	5,00	7,04	5,59	5,66	5,27
	Max		4,09	3,80	3,62	3,35	3,38	3,56	3,21	2,98
SEER [2]			**9,10 A+++**	**9,10 A+++**	**8,70 A+++**	**8,70 A+++**	**8,20 A++**	**8,50 A+++**	**8,50 A+++**	**8,50 A+++**
Pdesign (cooling)		kW	3,50	4,10	5,00	5,20	6,80	6,80	8,00	9,00
Input power	Nominal	kW	0,76	0,94	1,20	1,09	1,74	1,58	1,98	2,24
	Min		0,25	0,25	0,25	0,36	0,27	0,34	0,53	0,55
	Max		1,10	1,37	1,49	2,18	2,37	2,47	2,87	3,86
Annual energy consumption [3]		kWh/a	135	158	201	209	290	280	329	371
Heating capacity	Nominal	kW	4,20	4,60	5,60	6,80	8,50	8,50	9,40	10,40
	Min		1,10	1,10	1,10	1,60	1,70	1,70	2,48	2,48
	Max		5,60	7,00	7,20	8,50	10,40	10,60	10,60	14,50
Heating capacity at -7 °C		kW	3,77	4,18	4,28	5,64	7,05	7,05	7,80	8,62
COP [1]	Nominal	W/W	5,06	4,95	4,63	4,93	4,25	4,62	4,63	4,84
	Min		5,24	5,24	5,24	5,00	4,72	4,72	4,96	4,96
	Max		4,18	3,91	4,00	3,40	3,64	3,96	3,46	3,42
SCOP [2]			**4,80 A++**	**4,80 A++**	**4,60 A++**	**4,70 A++**	**4,60 A++**	**4,60 A++**	**4,70 A++**	**4,68 A++**
Pdesign at -10 °C		kW	3,20	3,50	4,20	5,40	5,60	6,00	7,00	8,50
Input power	Nominal	kW	0,83	0,93	1,21	1,38	2,00	1,84	2,03	2,15
	Min		0,21	0,21	0,21	0,32	0,36	0,36	0,50	0,50
	Max		1,34	1,79	1,80	2,50	2,86	2,68	3,06	4,24
Annual energy consumption [3]		kWh/a	933	1021	1278	1609	1704	1826	2085	2543
Current	Cool / Heat	A	3,60/3,90	4,30/4,30	5,40/5,40	4,80/6,10	7,70/8,80	7,00/8,10	9,50/9,50	10,70/10,10
Power supply		V	230	230	230	230	230	230	230	230
Recommended fuse		A	16	16	16	16	20	20	25	25
Recommended power cable section		mm²	2,5	2,5	2,5	2,5	2,5	2,5	4,0	4,0
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	48/50	48/50	50/52	47/48	51/53	49/52	51/52	53/54
Dimension [5]	H x W x D	mm	619x824x299	619x824x299	619x824x299	795x875x320	795x875x320	795x875x320	999x940x340	999x940x340
Net weight		kg	37	37	37	61	64	64	80	81
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Pipe length range total [6]		m	6 ~ 30	6 ~ 30	6 ~ 30	6 ~ 50	6 ~ 60	6 ~ 60	6 ~ 70	6 ~ 80
Pipe length range to one unit		m	3 ~ 20	3 ~ 20	3 ~ 20	3 ~ 25	3 ~ 25	3 ~ 25	3 ~ 25	3 ~ 25
Elevation difference (in / out)		m	10	10	10	15	15	15	15	15
Pre-charged pipe length		m	20	20	20	30	30	30	45	45
Additional gas amount		g/m	15	15	15	20	20	20	20	20
Refrigerant (R32) / CO_2 Eq.		kg / T	1,18/0,797	1,18/0,797	1,18/0,797	1,92/1,296	2,25/1,519	2,25/ 1,519	2,72/1,836	2,72/1,836
Operating range	Cool Min ~ Max	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of a position 1 m in front and 1 m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 5) Add 70 or 95 mm for piping port. 6) Minimum piping length is 3 meters per indoor unit.

Possible outdoor / indoor units combinations

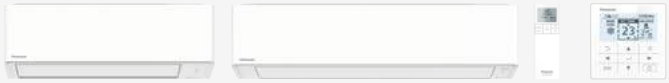
Rooms	Outdoor unit	Indoor capacity connected (Min - Max)	Wall-mounted Etherea							Wall-mounted TZ super-compact								Floor console				4 way 60x60 cassette					Low static pressure hide-away				
			16	20	25	35	42	50	71	16	20	25	35	42	50	60	71	20	25	35	50	20	25	35	50	60	20	25	35	50	60
2	CU-2Z35CBE	3,2 ~ 6,0 kW	✔	✔	✔	✔				✔	✔	✔	✔					✔	✔	✔		✔ [1]	✔ [1]	✔ [1]			✔	✔	✔		
	CU-2Z41CBE	3,2 ~ 6,0 kW	✔	✔	✔	✔				✔	✔	✔	✔					✔	✔	✔		✔ [1]	✔ [1]	✔ [1]			✔	✔	✔		
	CU-2Z50CBE	3,2 ~ 7,7 kW	✔	✔	✔	✔	✔ [1]	✔ [1]		✔	✔	✔	✔	✔ [1]	✔ [1]			✔	✔	✔	✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [1]		✔	✔	✔	✔ [1]	
3	CU-3Z52CBE	4,5 ~ 9,5 kW	✔	✔	✔	✔	✔ [1]	✔ [1]		✔	✔	✔	✔	✔ [1]	✔ [1]							✔ [1]	✔ [1]	✔ [1]	✔ [1]		✔	✔	✔	✔ [1]	
	CU-3Z68CBE	4,5 ~ 11,2 kW	✔	✔	✔	✔	✔ [1]	✔ [1]		✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [3]						✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [2]	✔	✔	✔	✔ [1]	✔ [3]
4	CU-4Z68CBE	4,5 ~ 11,5 kW	✔	✔	✔	✔	✔ [1]	✔ [1]		✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [3]						✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [2]	✔	✔	✔	✔ [1]	✔ [3]
	CU-4Z80CBE	4,5 ~ 14,7 kW	✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [4]	✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [3]	✔ [4]					✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [2]	✔	✔	✔	✔ [1]	✔ [3]
5	CU-5Z90CBE	4,5 ~ 18,3 kW	✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [4]	✔	✔	✔	✔	✔ [1]	✔ [1]	✔ [3]	✔ [4]					✔ [1]	✔ [1]	✔ [1]	✔ [1]	✔ [2]	✔	✔	✔	✔ [1]	✔ [3]

1) Pipe reducer CZ-MA1PA required. 2) Liquid socket tube and gas socket tubes included in the units required for indoor unit and pipe expander CZ-MA2PA required for outdoor unit. 3) Pipe expander CZ-MA2PA required. 4) Pipe reducer CZ-MA3PA and pipe expander CZ-MA2PA required.

R32 REFRIGERANT | INVERTER+ | R2 ROTARY COMPRESSOR | -15 °C HEATING MODE | R22 → R410A R22 RENEWAL | 5 YEARS COMPRESSOR WARRANTY

Optional wired remote controller.
CZ-RD517C

NEW! Wall-mounted Etherea	Indoor unit graphite grey	Indoor unit silver	Indoor unit matt white	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [1]	Dimension / Net weight	Piping diameter
							Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
				kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
1,6 kW	—	—	CS-MZ16CKE	1,60	2,60	4x1,5	37/26/21— 38/27/21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
2,0 kW	CS-XZ20CKEW-H	CS-XZ20CKEW	CS-Z20CKEW	2,00	3,20	4x1,5	37/26/21 — 38/27/21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-XZ25CKEW-H	CS-XZ25CKEW	CS-Z25CKEW	2,50	3,60	4x1,5	41/27/21 — 41/29/21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	CS-XZ35CKEW-H	CS-XZ35CKEW	CS-Z35CKEW	3,50	4,50	4x1,5	44/30/21 — 45/35/21	295 x 870 x 229 / 11	1/4 (6,35) / 3/8 (9,52)
4,2 kW [3]	CS-XZ42CKEW-H	—	CS-Z42CKEW	4,20	5,60	4x1,5	44/33/27 — 45/37/31	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
5,0 kW [4]	—	CS-XZ50CKEW	CS-Z50CKEW	5,00	6,80	4x2,5	44/39/32 — 46/39/32	295 x 1040 x 244 / 12	1/4 (6,35) / 3/8 (9,52)
7,1 kW	—	—	CS-Z71CKEW	7,10	8,70	4x2,5	49/40/32 — 49/40/32	295 x 1040 x 244 / 13	1/4 (6,35) / 1/2 (12,70)



Optional wired remote controller.
CZ-RD517C

NEW! Wall-mounted TZ super-compact	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [1]	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
1,6 kW	CS-MTZ16CKE	1,60	2,60	4x1,5	38/27/22 — 39/28/24	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
2,0 kW	CS-TZ20CKEW	2,00	3,20	4x1,5	39/27/22 — 40/28/23	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-TZ25CKEW	2,50	3,60	4x1,5	42/28/22 — 44/35/23	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	CS-TZ35CKEW	3,50	4,50	4x1,5	44/32/22 — 44/35/23	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
4,2 kW	CS-TZ42CKEW	4,20	5,60	4x1,5	44/33/27 — 46/37/30	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
5,0 kW	CS-TZ50CKEW	5,00	6,80	4x2,5	44/39/35 — 46/39/35	290 x 765 x 214 / 9	1/4 (6,35) / 3/8 (9,52)
6,0 kW	CS-TZ60CKEW	6,00	8,50	4x2,5	45/39/36 — 47/39/36	295 x 1060 x 249 / 14	1/4 (6,35) / 1/2 (12,70)
7,1 kW	CS-TZ71CKEW	7,10	8,70	4x2,5	49/40/37 — 49/40/37	295 x 1060 x 249 / 15	1/4 (6,35) / 1/2 (12,70)

Optional wired remote controller.
CZ-RD517C

NEW! Floor console [5]	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [6]	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
2,0 kW	CS-MZ20CFEA	2,00	3,20	4x1,5	39/27/22 — 39/27/21	600 x 750 x 207 / 13	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-Z25CFEAW	2,50	3,60	4x1,5	40/27/22 — 40/27/21	600 x 750 x 207 / 13	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	CS-Z35CFEAW	3,50	4,50	4x1,5	41/28/22 — 41/28/21	600 x 750 x 207 / 13	1/4 (6,35) / 3/8 (9,52)
5,0 kW	CS-Z50CFEAW	5,00	5,30	4x1,5	44/33/29 — 48/35/31	600 x 750 x 207 / 13	1/4 (6,35) / 3/8 (9,52)

Optional wired remote controller.
CZ-RTC6W

Optional wired remote controller.
CZ-RTC6

Panel, white (RAL9003).
CZ-KPY4W

Panel, graphite black (RAL9011).
CZ-KPY4B

Panels (sold separately)

4 way 60x60 cassette*	Indoor unit (Panel CZ-KPY4)	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [7]	Dimension / Net weight		Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	Indoor H x W x D	Panel H x W x D	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	mm / kg	Inch (mm)
2,0 kW	S-M20PY3E	2,00	3,20	4x1,5	33/30/27 — 33/30/27	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	1/4 (6,35) / 3/8 (9,52)
2,5 kW	S-25PY3E	2,50	3,60	4x1,5	33/30/27 — 33/30/27	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	S-36PY3E	3,50	4,50	4x1,5	36/32/27 — 36/32/27	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	1/4 (6,35) / 3/8 (9,52)
5,0 kW [4]	S-50PY3E	5,00	6,80	4x1,5	41/36/29 — 41/36/29	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	1/4 (6,35) / 3/8 (9,52)
6,0 kW	S-60PY3E	6,00	8,50	4x1,5	45/39/33 — 45/39/33	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	3/8 (9,52) / 1/2 (12,70)

*Compatible with Commercial control and connectivity accessories only. For detailed information go to the control systems section.

Optional wireless control kit.
CZ-RL511D

NEW! Low static pressure hide-away	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [8]	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
2,0 kW	CS-MZ20CD3EA	2,00	3,20	4x1,5	34/29/26 — 36/29/26	200 x 750 x 640 / 19	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-Z25CD3EAW	2,50	3,60	4x1,5	35/29/26 — 37/29/26	200 x 750 x 640 / 19	1/4 (6,35) / 3/8 (9,52)
3,5 kW [2]	CS-Z35CD3EAW	3,50	4,50	4x1,5	35/29/26 — 37/29/26	200 x 750 x 640 / 19	1/4 (6,35) / 3/8 (9,52)
5,0 kW [4]	CS-Z50CD3EAW	5,00	6,80	4x1,5	41/31/28 — 41/32/29	200 x 750 x 640 / 19	1/4 (6,35) / 3/8 (9,52)
6,0 kW	CS-Z60CD3EAW	6,00	8,50	4x1,5	41/32/29 — 43/34/31	200 x 750 x 640 / 19	1/4 (6,35) / 1/2 (12,70)

1) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 2) Heating capacity in combination with Free Multi outdoor units except with CU-2Z35CBE. In this case, the heating capacity is 4,20 kW. 3) Heating capacity in combination with Free Multi outdoor units except with CU-2Z50CBE. In this case, the heating capacity is 5,00 kW. 4) Heating capacity in combination with Free Multi outdoor units except with CU-2Z35CBE. In this case, the heating capacity is 5,30 kW. 5) Compatible only with 2 ports R32 outdoor CU-2Z35CBE / CU-2Z41CBE / CU-2Z50CBE. Minimum quantity of connection: 2 indoor units. 6) The sound pressure of the units shows the value measured of a position 1 m in front of the main body and 1 m above floor. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 7) The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 8) The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit with 1 m duct on the suction side and 2 m duct on the discharge side. The sound pressure is measured in accordance with JIS C 9612.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Power Heat Multi system

POWER HEAT

Outdoor units Power Heat Multi system · R32

- Operation range down to -25 °C
- Equipped with base pan heater
- High energy efficiency: SCOP of 4,60
- Etherea indoor units with nanoe™ X technology to improve protection 24/7
- Indoor units with built-in Wi-Fi for internet and Voice Control

OUTDOOR UNIT			CU-2Z50ABEC	CU-3Z75ABEC
Indoor nominal capacity			**4,0 ~ 8,5 kW (2 room)**	**4,5 ~ 11,0 kW (3 room)**
Cooling capacity	Nominal (Min - Max)	kW	5,30 (2,10 - 7,50)	7,50 (2,10 - 8,80)
EER [1]			4,21	3,87
SEER [2]			**8,00 A++**	**8,00 A++**
Pdesign (cooling)		kW	5,30	7,50
Input power	Nominal (Min - Max)	kW	1,26 (0,36 - 2,06)	1,94 (0,38 - 2,45)
Heating capacity	Nominal (Min - Max)	kW	6,40 (1,70 - 8,70)	8,60 (1,70 - 10,60)
COP [1]			4,18	4,26
Heating capacity at -15 °C	Max	kW	5,90	6,30
Heating capacity at -25 °C	Max	kW	3,90	4,30
SCOP [2]			**4,40 A+**	**4,60 A++**
Pdesign at -10 °C		kW	5,10	5,60
Input power	Nominal (Min - Max)	kW	1,53 (0,32 - 2,44)	2,02 (0,32 - 2,92)
Current	Heat / Cool	A	6,80 / 5,70	8,80 / 8,50
Power supply		V	230	230
Sound pressure [3]	Heat / Cool (Hi)	dB(A)	49 / 49	53 / 49
Dimension [4]	H x W x D	mm	795 x 875 x 320	795 x 875 x 320
Net weight		kg	58	62
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)
Pipe length range total		m	50	60
Pipe length range to one unit		m	3 ~ 25	3 ~ 25
Elevation difference (in / out)		m	15	15
Pre-charged pipe length		m	30	30
Additional gas amount		g/m	20	20
Refrigerant (R32) / CO_2 Eq.		kg / T	1,92 / 1,296	2,42 / 1,634
Operating range	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24
	Cool Min ~ Max	°C	-10 ~ +46	-10 ~ +46

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The sound pressure of the units shows the value measured of a position 1 m in front and 1 m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 4) Add 70 or 95 mm for piping port.

Possible outdoor / indoor units combinations

Rooms	Outdoor unit	Indoor capacity connected (Min - Max)	Wall-mounted Etherea			
			20	25	35	50
2	CU-2Z50ABEC	4,0 ~ 8,5 kW	✔	✔	✔	✔
3	CU-3Z75ABEC	4,5 ~ 11,0 kW	✔	✔	✔	✔

Optional wired remote controller.
CZ-RD517C

NEW! Wall-mounted Etherea	Indoor unit graphite grey	Indoor unit silver	Indoor unit matt white	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [1]	Dimension / Net weight	Piping diameter
							Cool — Heat (Hi/Lo/Q-Lo)	H x W x D	Liquid / Gas
				kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
2,0 kW	CS-XZ20CKEW-H	CS-XZ20CKEW	CS-Z20CKEW	2,00	3,20	4x1,5	39 / 26 / 21 — 40 / 27 / 21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-XZ25CKEW-H	CS-XZ25CKEW	CS-Z25CKEW	2,50	3,60	4x1,5	41 / 27 / 21 — 43 / 29 / 21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
3,5 kW	CS-XZ35CKEW-H	CS-XZ35CKEW	CS-Z35CKEW	3,50	4,50	4x1,5	44 / 30 / 21 — 45 / 35 / 21	295 x 870 x 229 / 11	1/4 (6,35) / 3/8 (9,52)
5,0 kW	—	CS-XZ50CKEW	CS-Z50CKEW	5,00	6,80	4x2,5	44 / 39 / 32 — 46 / 39 / 32	295 x 1040 x 244 / 12	1/4 (6,35) / 1/2 (12,70)

1) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed.

Multi wall TZ system

Outdoor units Multi wall TZ system · R32

· Up to 3 indoor units with a single outdoor unit
· Up to 3 rooms with individual control
· High energy efficiency class A++ SEER
· Flexible installation, compact units and large connection distance
· Indoor units compatible with internet and Voice Control

OUTDOOR UNIT			CU-2TZ41TBE	CU-2TZ50TBE	CU-3TZ52TBE
Indoor nominal capacity (Min - Max)			**3,2 ~ 6,0 kW**	**3,2 ~ 7,7 kW**	**4,5 ~ 9,5 kW**
Cooling capacity	Nominal (Min - Max)	kW	4,10 (1,50 - 4,70)	5,00 (1,50 - 5,40)	5,20 (1,80 - 6,60)
EER [1]	Nominal (Min - Max)	W/W	4,14 (5,56 - 3,41)	3,85 (5,56 - 3,33)	4,52 (3,67 - 5,00)
SEER [2]			**7,10 A++**	**7,00 A++**	**7,60 A++**
Pdesign (cooling)		kW	4,10	5,00	5,20
Input power	Nominal (Min - Max)	kW	0,99 (0,27 - 1,38)	1,30 (0,27 - 1,62)	1,15 (0,36 - 1,80)
Annual energy consumption [3]		kWh/a	202	250	239
Heating capacity	Nominal (Min - Max)	kW	4,40 (1,10 - 6,30)	5,70 (1,10 - 6,40)	6,80 (1,60 - 7,50)
Heating capacity at -7 °C		kW	3,75	3,80	—
COP [1]	Nominal (Min - Max)	W/W	4,44 (5,00 - 3,54)	4,35 (5,00 - 3,62)	4,28 (3,87 - 5,00)
SCOP [2]			**4,30 A+**	**4,20 A+**	**4,20 A+**
Pdesign at -10 °C		kW	3,50	4,50	5,00
Input power	Nominal (Min - Max)	kW	0,99 (0,22 - 1,78)	1,31 (0,22 - 1,77)	1,59 (0,32 - 1,94)
Annual energy consumption [3]		kWh/a	1139	1500	1667
Current	Cool / Heat	A	4,60 / 4,60	6,00 / 6,00	5,30 / 7,30
Power supply		V	230	230	230
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	48 / 50	50 / 52	48 / 48
Dimension [5]	H x W x D	mm	542 x 780 x 289	542 x 780 x 289	795 x 875 x 320
Net weight		kg	35	35	71
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Pipe length range total		m	6 ~ 30	6 ~ 30	6 ~ 50
Pipe length range to one unit		m	3 ~ 20	3 ~ 20	3 ~ 25
Elevation difference (in / out)		m	10	10	15
Pre-charged pipe length		m	20	20	30
Additional gas amount		g/m	15	15	20
Refrigerant (R32) / CO_2 Eq.		kg / T	0,9 / 0,6075	0,9 / 0,6075	2,1 / 1,4175
Operating range	Cool Min ~ Max	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of a position 1 m in front and 1 m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 5) Add 70 or 95 mm for piping port.

R32 REFRIGERANT | INVERTER+ | R2 ROTARY COMPRESSOR | -15 °C HEATING MODE | R22 R410A R22 RENEWAL | 5 YEARS COMPRESSOR WARRANTY

Possible outdoor / indoor units combinations

Rooms	Outdoor unit	Indoor capacity connected (Min - Max)	Wall-mounted TZ super-compact					
			16	20	25	35	42	50
2	CU-2TZ41TBE	3,2 ~ 6,0 kW	✔	✔	✔	✔		
	CU-2TZ50TBE	3,2 ~ 7,7 kW	✔	✔	✔	✔	✔	✔
3	CU-3TZ52TBE	4,5 ~ 9,5 kW	✔	✔	✔	✔	✔	✔

Minimum quantity of connection: 2 indoor units.

Optional wired remote controller.
CZ-RD517C

nanoeX | 20 dB(A) | AEROWINGS | BUILT-IN WI-FI | BMS CONNECTIVITY

NEW! Wall-mounted TZ super-compact	Indoor unit	Cooling capacity	Heating capacity	Connection in. / out.	Sound pressure [1]	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi / Lo / Q-Lo)	H x W x D	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
1,6 kW	CS-MTZ16CKE	1,60	2,60	4x1,5	38 / 27 / 22 — 39 / 28 / 24	290 x 765 x 214 / 8	1/4 (6,35) / 3/8 (9,52)
2,0 kW	CS-TZ20CKEW	2,00	3,20	4x1,5	37 / 25 / 20 — 38 / 26 / 22	290 x 765 x 214 / 8	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-TZ25CKEW	2,50	3,60	4x1,5	40 / 26 / 20 — 40 / 27 / 22	290 x 765 x 214 / 8	1/4 (6,35) / 3/8 (9,52)
3,5 kW	CS-TZ35CKEW	3,50	4,50	4x1,5	42 / 30 / 20 — 42 / 33 / 22	290 x 765 x 214 / 8	1/4 (6,35) / 3/8 (9,52)
4,2 kW	CS-TZ42CKEW	4,20	5,60	4x1,5	44 / 31 / 29 — 44 / 35 / 34	290 x 765 x 214 / 8	1/4 (6,35) / 1/2 (12,70)
5,0 kW	CS-TZ50CKEW	5,00	6,80	4x2,5	44 / 37 / 33 — 44 / 37 / 33	290 x 765 x 214 / 8	1/4 (6,35) / 1/2 (12,70)

1) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. *Available for use with Multi TZ outdoor units from Summer 2026.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

RAC Solo, the compact air conditioner without outdoor unit

A high-efficiency RAC Solo with a hyper-compact design that minimises aesthetic impact. Just 16,5 cm deep, easy to install and with DC Inverter technology to optimise performance.

Seamless integration, indoors and outdoors.

SLIM AND COMPACT FULL METAL BODY

Only 16,5 cm deep (indoor).

NO OUTDOOR UNIT

Just two 162 mm holes*.

*202 mm for the biggest capacity.

EASY TO INSTALL

Stand-alone unit with no refrigerant connections.

nanoe™ X ULTIMATE COMFORT

Cleaner indoor air with nanoe™ X*.

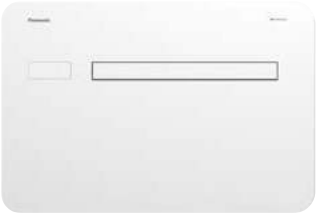
nanoe™ X +

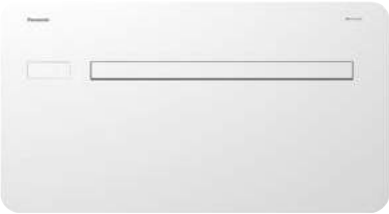
NEW

New RAC Solo with nanoe™ X, the compact air conditioner without outdoor unit.

Combining a hyper-compact design that minimises aesthetic impact with advanced nanoe™ X* technology to enhance indoor air quality.

*For P-MOG16IC5A-E, P-MOZ20IC5A-E, P-MOZ25IC5A-E and P-MOZ30IC5A-E only.





SEE PRODUCT SPECIFICATIONS

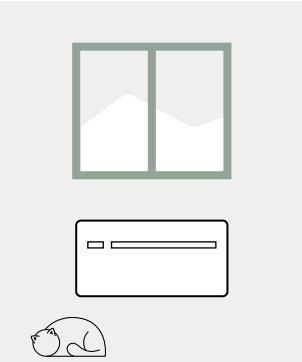
Designed to blend into any building.

The RAC Solo integrates seamlessly into the façade of a building, thanks to the absence of an outdoor unit and the use of a discreet exterior grille.

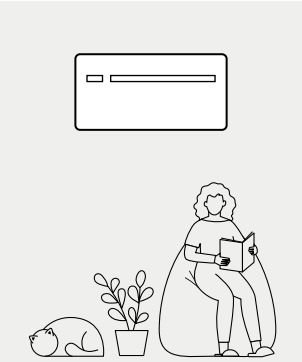
*The outside grille varies by version. Shown: P-MOZ16/20/25/30IC5A-E.

The unit can be installed high on the wall or at floor level, adapting easily to any room layout.

Down installation.

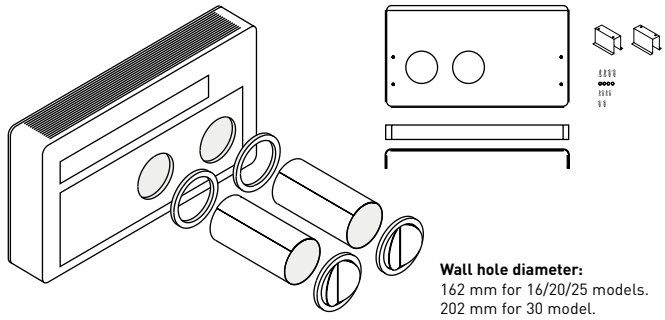


Overhead installation.



Easy and flexible installation, without outdoor unit

Installation requires only two wall openings in a perimeter wall. The exterior grilles are installed from the inside for convenient assembly.



Wall hole diameter:
162 mm for 16/20/25 models.
202 mm for 30 model.

*The outside grille varies by version. Shown: P-MOZ16/20/25/30IC5-E.

When the external façade is not directly behind the unit, the side installation kit (PCZ-L00773 or PCZ-L00774) allows the air flow to be redirected sideways.

*Compatible with P-MOZ20/25IC5-E and P-MOZ20/25IC5A-E only.

Advanced control solutions for any installation.

On-board display with Modbus and Wi-Fi + IR remote control.

Built-in display with Modbus and Wi Fi included, plus a standard remote control for everyday operation.

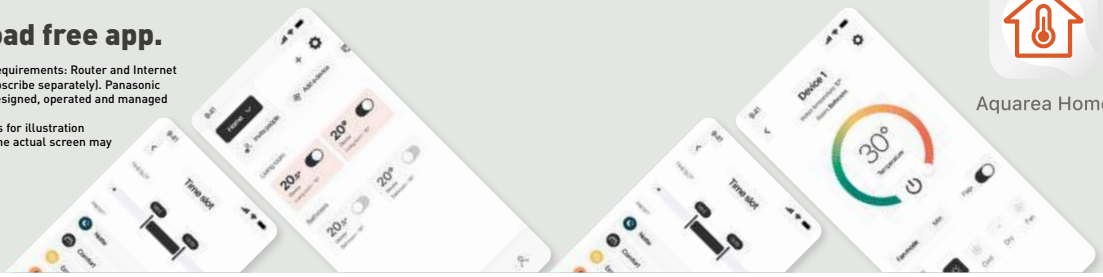
Optional wall-mounted controller.

Wall-mounted controller with Modbus or Wi-Fi for central management of up to 16 units.
PCZ-EEB749 / PCZ-EFB749

Aquarea Home App

Download free app.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Panasonic Cloud Server is designed, operated and managed by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Aquarea Home

Download on the App Store

GET IT ON Google Play

NEW! RAC Solo with nanoe™ X · R290 / R32

- No outdoor unit
- nanoe™ X (Generator Mark 3): Improve protection 24/7
- Slim and compact, only 165 mm deep
- Heating and cooling or cooling only modes available
- DC Inverter technology
- No frost system, with preheated condenser water tray
- Easy and flexible installation
- On-board display with built-in Wi-Fi: Smart control via the Aquarea Home App

KIT MATT WHITE			P-MOG16IC5A-E	P-MOZ20IC5A-E	P-MOZ25IC5A-E	P-MOZ30IC5A-E
Cooling capacity	Nominal (Min - Max)	kW	1,73 (0,70 - 2,35)	2,09 (0,83 - 2,64)	2,33 (0,92 - 3,10)	2,87 (1,40 - 3,50)
EER [1]		**W/W**	**3,01 A**	**3,29 A+**	**3,25 A+**	**2,74 A**
SEER [2]			4,60	4,70	4,60	4,10
Input power		kW	0,57	0,64	0,73	1,04
Heating capacity	Nominal (Min - Max)	kW	1,71 (0,75 - 2,40)	2,08 (0,71 - 2,64)	2,31 (0,79 - 3,05)	2,75 (1,35 - 3,50)
Heating capacity at -7 °C		kW	1,13	1,37	1,52	1,81
COP [1]		**W/W**	**3,15 A**	**3,31 A+**	**3,28 A+**	**3,12 A**
SCOP [2]			3,70	3,80	3,70	3,40
Input power		kW	0,54	0,63	0,71	0,88
Power supply		V	230	230	230	230
Maximum current		A	3,90	4,10	4,60	6,30
Air flow	Max / Average / Min	m³/min	6,0/5,0/4,0	6,3/5,2/4,3	6,7/5,3/4,5	7,5/5,8/5,0
External air flow	Max / Average / Min	m³/min	7,2/6,0/5,3	7,7/6,3/5,5	8,0/6,5/5,7	9,2/7,7/6,7
Moisture removal volume		L/h	0,7	0,8	0,9	1,2
Sound pressure [3]	Hi / Lo / Q-Lo	dB(A)	39/29/27	39/30/26	41/31/27	43/33/29
Outside sound pressure [3]	Hi / Lo	dB(A)	49/36	49/36	51/38	53/40
Refrigerant / charge		kg	R290 / 0,14	R32 / 0,5	R32 / 0,5	R32 / 0,5
Dimension	H x W x D	mm	549 x 810 x 165	549 x 1010 x 165	549 x 1010 x 165	549 x 1010 x 165
Net weight		kg	38	41	41	41
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3
Wall hole diameter		mm	162	162	162	202
Distance between wall holes		mm	293	293	293	293
Operating range	Cool Min ~ Max	°C	-5 ~ +43	-5 ~ +43	-5 ~ +43	-5 ~ +43
	Heat Min ~ Max	°C	-15 ~ +18	-15 ~ +18	-15 ~ +18	-15 ~ +18

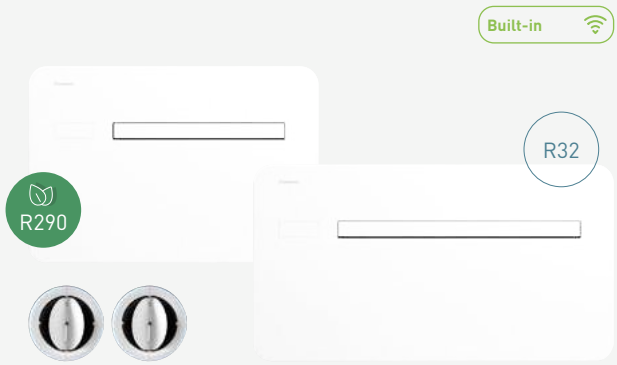
1) EER and COP in accordance to 626/2011. Scale A+++ to D. 2) SEER and SCOP in accordance to EN 14511. 3) The sound pressure shows the value measured at 2 m, according to ISO 7779. *Available from Summer 2026.

Accessories	
PCZ-EEB749	Wall-mounted control with Modbus
PCZ-EFB749	Wall-mounted control with integrated Wi-Fi
PCZ-L00773	Side exit formwork for corner installation for P-MOZ20/25IC5A-E (right-hand outlet)
PCZ-L00774	Side exit formwork for corner installation for P-MOZ20/25IC5A-E (left-hand outlet)
PCZ-GB0737	Bottom cover kit for overhead installation for P-MOZ20/25/30IC5A-E
PCZ-GB1105	Bottom cover kit for overhead installation for P-MOG16IC5A-E
PCZ-GB1119	Condensate drain pipe heater kit
PCZ-GB1152PS	Kit for installation on glass walls (back cover, two floor-fixing brackets, front plinth base cover, and screws and nuts). For P-MOG16IC5A-E

Accessories	
PCZ-GB1153PS	Kit for installation on glass walls (back cover, two floor-fixing brackets, front plinth base cover, and screws and nuts). For P-MOZ25IC5A-E and P-MOZ20IC5A-E
PCZ-GB1154PS	Kit for installation on glass walls (back cover, two floor-fixing brackets, front plinth base cover, and screws and nuts). For P-MOZ30IC5A-E
PCZ-GB1143	Foldable rounded grille accessory for P-MOG16IC5A-E, P-MOZ20IC5A-E and P-MOZ25IC5A-E
PCZ-GB1144	Foldable rounded grille accessory for P-MOZ30IC5A-E
PCZ-GB1145	Soundproofing kit for P-MOZ30IC5A-E

R290 REFRIGERANT | R32 REFRIGERANT | nanoe X | -15 °C HEATING MODE

R290: For P-MOG16IC5A-E. R32: For P-MOZ20IC5A-E, P-MOZ25IC5A-E and P-MOZ30IC5A-E.



RAC Solo · R290 / R32

- No outdoor unit, just two wall openings
- Two separate rounded self-closing grilles
- Slim and compact, only 165 mm deep
- Heating and cooling or cooling only modes available
- DC Inverter technology
- No frost system, with preheated condenser water tray
- Easy and flexible installation
- On-board display with built-in Wi-Fi: Smart control via the Aquarea Home App

KIT MATT WHITE			P-M0G16IC5-E	P-M0Z20IC5-E	P-M0Z25IC5-E	P-M0Z30IC5-E
Cooling capacity	Nominal (Min - Max)	kW	1,73 (0,70 - 2,35)	2,09 (0,83 - 2,64)	2,33 (0,92 - 3,10)	2,87 (1,40 - 3,50)
EER [1]		**W/W**	**3,01 A**	**3,29 A+**	**3,25 A+**	**2,74 A**
SEER [2]			4,60	4,70	4,60	4,10
Input power		kW	0,57	0,64	0,73	1,04
Heating capacity	Nominal (Min - Max)	kW	1,71 (0,75 - 2,40)	2,08 (0,71 - 2,64)	2,31 (0,79 - 3,05)	2,75 (1,35 - 3,50)
Heating capacity at -7 °C		kW	1,13	1,37	1,52	1,81
COP [1]		**W/W**	**3,15 A**	**3,31 A+**	**3,28 A+**	**3,12 A**
SCOP [2]			3,70	3,80	3,70	3,40
Input power		kW	0,54	0,63	0,71	0,88
Power supply		V	230	230	230	230
Maximum current		A	3,90	4,10	4,60	6,30
Air flow	Max / Average / Min	m³/min	6,0/5,0/4,0	6,3/5,2/4,3	6,7/5,3/4,5	7,5/5,8/5,0
External air flow	Max / Average / Min	m³/min	7,2/6,0/5,3	7,7/6,3/5,5	8,0/6,5/5,7	9,2/7,7/6,7
Moisture removal volume		L/h	0,7	0,8	0,9	1,2
Sound pressure [3]	Hi / Lo / Q-Lo	dB(A)	39/29/27	39/30/26	41/31/27	43/33/29
Outside sound pressure [3]	Hi / Lo	dB(A)	49/36	49/36	51/38	53/40
Refrigerant / charge		kg	R290 / 0,14	R32 / 0,5	R32 / 0,5	R32 / 0,5
Dimension	H x W x D	mm	549 x 810 x 165	549 x 1010 x 165	549 x 1010 x 165	549 x 1010 x 165
Net weight		kg	38	41	41	41
Wall hole diameter		mm	162	162	162	202
Distance between wall holes		mm	293	293	293	293
Operating range	Cool Min ~ Max	°C	-5 ~ +43	-5 ~ +43	-5 ~ +43	-5 ~ +43
	Heat Min ~ Max	°C	-15 ~ +18	-15 ~ +18	-15 ~ +18	-15 ~ +18

1) EER and COP in accordance to 626/2011. Scale A+++ to D. 2) SEER and SCOP in accordance to EN 14511. 3) The sound pressure shows the value measured at 2 m, according to ISO 7779.

Accessories	
PCZ-EEB749	Wall-mounted control with Modbus
PCZ-EFB749	Wall-mounted control with integrated Wi-Fi
PCZ-GB0738	Kit of external aluminium grids with fixed fins (162 mm holes)
PCZ-GB1091	Kit of external aluminium grids with fixed fins (202 mm holes)
PCZ-GB0755	Insect protection kit (1 metal mesh, 1 grid in metal wire and fixing accessories). Only for connection with PCZ-GB0738.
PCZ-L00773	Side exit formwork for corner installation for P-M0Z20/25IC5-E (right-hand outlet)
PCZ-L00774	Side exit formwork for corner installation for P-M0Z20/25IC5-E (left-hand outlet)
PCZ-GB0737	Bottom cover kit for overhead installation for P-M0Z20/25/30IC5-E

Accessories	
PCZ-GB1105	Bottom cover kit for overhead installation for P-M0G16IC5-E
PCZ-GB1119	Condensate drain pipe heater kit
PCZ-GB1152PS	Kit for installation on glass walls (back cover, two floor-fixing brackets, front plinth base cover, and screws and nuts). For P-M0G16IC5-E
PCZ-GB1153PS	Kit for installation on glass walls (back cover, two floor-fixing brackets, front plinth base cover, and screws and nuts). For P-M0Z25IC5-E and P-M0Z20IC5-E
PCZ-GB1154PS	Kit for installation on glass walls (back cover, two floor-fixing brackets, front plinth base cover, and screws and nuts). For P-M0Z30IC5-E

R290 REFRIGERANT | R32 REFRIGERANT | -15 °C HEATING MODE

R290: For P-M0G16IC5-E. R32: For P-M0Z20IC5-E, P-M0Z25IC5-E and P-M0Z30IC5-E.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Compare split solutions

	Indoor unit dimension	Efficiency [1]	Indoor air quality	Outdoor temperature	Comfort	Super Quiet	Connectivity
NEW! **Wall-mounted Etherea - 2,0 to 7,1 kW**	295 x 870 x 229 (295 x 1040 x 244 wide model)	A+++ A+++	nanoeX nanoe X Generator Mark 3	-10 °C in cooling mode -20 °C in heating mode	Aerowings 2.0	19 dB(A)	Built-in Wi-Fi
NEW! **Wall-mounted TZ super-compact - 2,0 to 7,1 kW**	290 x 765 x 214 (295 x 1060 x 249 wide model)	A++ A++	nanoeX nanoe X Generator Mark 2	-10 °C in cooling mode -15 °C in heating mode	Aerowings	20 dB(A)	Built-in Wi-Fi
NEW! **Wall-mounted BZ super-compact - 2,5 to 6,0 kW**	290 x 765 x 214	A++ A+	PM2,5 Filter	-10 °C in cooling mode -15 °C in heating mode	Aerowings	20 dB(A)	Built-in Wi-Fi
NEW! **Wall-mounted UZ super-compact - 2,5 to 5,0 kW**	290 x 765 x 214	A++ A+	Dust collection filter	-10 °C in cooling mode -15 °C in heating mode	Aerowings	20 dB(A)	Built-in Wi-Fi
NEW! **Floor console - 2,5 to 5,0 kW**	600 x 750 x 207	A++ A++	nanoeX nanoe X Generator Mark 3	-10 °C in cooling mode -15 °C in heating mode	Double air flow	20 dB(A)	Built-in Wi-Fi
NEW! **Low static pressure hide-away - 2,5 to 6,0 kW**	200 x 750 x 640	A++ A+	Air filter	-10 °C in cooling mode -15 °C in heating mode	Weekly timer	24 dB(A)	–

1) Energy efficiency class in 2,5 kW references. *All data in this chart is applicable in most of the models in each line up, check product specifications to confirm.

Single split feature overview

	Models	Wall-mounted Etherea	Wall-mounted TZ super-compact	Wall-mounted BZ super-compact	Wall-mounted UZ super-compact	Floor console	Low static pressure hide-away
R32	Refrigerant R32	✔	✔	✔	✔	✔	✔
UP TO 20%	AI ECO - boost energy savings	✔					
	Inverter+ system	✔				✔	
	Inverter system		✔	✔	✔		✔
	R2 rotary compressor	✔	✔	✔	✔	✔	✔
	nanoe X Generator	✔ Mark 3	✔ Mark 2			✔ Mark 3	
	PM2,5 Filter			✔			
	Dust collection filter				✔		
	Antiallergy properties	✔	✔			✔	
	Super Quiet[1]	✔ 19 dB(A) for 2,0, 2,5 and 3,5 kW	✔ 20 dB(A) for 2,0, 2,5 and 3,5 kW	✔ 20 dB(A) for 2,5 and 3,5 kW	✔ 20 dB(A) for 2,5 and 3,5 kW	✔ 20 dB(A) for 2,5 and 3,5 kW	
	Internal cleaning	✔					
	Aerowings	✔	✔	✔	✔		
-10 °C	Down to -10 °C in cooling only	✔	✔	✔	✔	✔	✔
-15 °C	Down to -15 °C in heating mode	✔ -20 °C	✔	✔	✔	✔	✔
	R410A/R22 Renewal	✔	✔	✔	✔	✔	✔
	Odour-removing function	✔	✔	✔	✔	✔	✔
	Removable, washable panel	✔	✔	✔	✔	✔	
	Powerful mode	✔	✔	✔	✔	✔	✔
	Soft dry operation mode	✔	✔	✔	✔	✔	✔
	Personal air flow creation	✔	✔ For 6,0 and 7,1 kW				
	Automatic vertical air flow control		✔ For 2,0, 2,5, 3,5, 4,2 and 5,0 kW	✔	✔	✔	
	Manual horizontal air flow control		✔ For 2,0, 2,5, 3,5, 4,2 and 5,0 kW	✔	✔	✔	
	Auto mode	✔	✔	✔	✔	✔	✔
	Hot start mode	✔	✔	✔	✔	✔	✔
24 DUAL	Real time clock with dual ON / OFF timer	✔	✔	✔	✔	✔	
7	Weekly timer						✔
	LCD infrared remote controller	✔	✔	✔	✔	✔	
	Automatic restart	✔	✔	✔	✔	✔	✔
	Long piping	✔ 15 m, 30 m (5,0 and 7,1 kW)	✔ 15 m, 20 m (5,0 kW), 30 m (7,1 and 6,0 kW)	✔ 15 m, 30 m (6,0 kW)	✔ 15 m	✔ 20 m, 30 m (5,0 kW)	✔ 20 m, 30 m (5,0 and 6,0 kW)
	Top-Panel maintenance access	✔	✔	✔	✔	✔	✔
	Self-diagnosis function	✔	✔	✔	✔	✔	✔
	RAC interface adapter for integration into S-Link	✔	✔	✔	✔	✔	✔
	Wi-Fi control	✔ Built-in	✔ Built-in	✔ Built-in	✔ Built-in	✔ Built-in	
	Easy control by BMS	✔	✔	✔	✔	✔	✔
5	Warranty on the compressor	✔	✔	✔	✔	✔	✔

1) At the lowest fan speed. 2) Tested by 3rd party laboratory, SP, according to EN 14511:2013 and SP Method 1721, this temperature is not guaranteed by Factory.

Features explained

Energy saving.

R290 REFRIGERANT

NATURAL REFRIGERANT R290 WITH GWP 3. Natural refrigerant R290 has low Global Warming Potential (GWP) of just 3, helping reduce CO_2 emissions and environmental impact.

R32 REFRIGERANT

REFRIGERANT R32. Our heat pumps containing R32 refrigerant show a drastic reduction in the value of Global Warming Potential (GWP).

A+++ 9,50 SEER

EXCEPTIONAL SEASONAL COOLING EFFICIENCY BASED ON THE ERP REGULATION. Higher SEER ratings mean greater efficiency and year-round cooling savings!

A+++ 5,20 SCOP

EXCEPTIONAL SEASONAL HEATING EFFICIENCY BASED ON THE ERP REGULATION. Higher SCOP ratings mean greater efficiency and year-round heating savings!

UP TO 20% ENERGY SAVINGS AI ECO MODE

AI ECO MODE - Boost energy savings by up to 20% in cooling mode. Learns room conditions and balances energy saving with faster cooling

INVERTER +

INVERTER PLUS SYSTEM. Inverter Plus system classification highlights Panasonic's highest performing systems.

INVERTER

INVERTER. The Inverter range provides greater efficiency and comfort. Provides more precise temperature control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels.

R2 ROTARY COMPRESSOR

Panasonic R2 rotary compressor. Designed to withstand extreme conditions, it delivers high performance and efficiency.

High performance and indoor air quality.

nanoeX

nanoe™ X. Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise.

PM2,5 FILTER

PM2,5 FILTER. This filter can capture airborne particulate matter (PM2,5), including hazardous pollutants, as well as house dust and pollen.

DUST COLLECTION FILTER

DUST COLLECTION FILTER. This filter collects and retains particles suspended in the air, resulting in cleaner air in the room.

18 dB(A)

SUPER QUIET. With Super Quiet technology our devices are quieter than a library.

INTERNAL CLEANING ON DEMAND

INTERNAL CLEANING. This function works to dry-off to inside of indoor unit with nanoe™ X. It can inhibit certain adhered bacteria, viruses and mould up to 99% efficiency.

AEROWINGS

MORE COMFORT WITH AEROWINGS. Panasonic's Aerowings feature incorporates two blades that concentrate the air flow to cool or heat in the shortest possible time by distributing the air evenly throughout the room.

STATIC PRESSURE UP TO 7 mmAq

STATIC PRESSURE UP TO 7 MMAQ. Low static pressure hide-away with selectable static pressure up to 7 mmAq.

FILTER INCLUDED

FILTER INCLUDED. Hide-away with filter included.

-10 °C COOLING MODE

DOWN TO -10 °C IN COOLING MODE. The air conditioner works in cooling mode when the outdoor temperature of -10 °C.

-15 °C HEATING MODE

DOWN TO -15 °C IN HEATING MODE. The air conditioner works in heat pump mode when the outdoor temperature is as low as -15 °C.

R22 R410A R22 RENEWAL

R410A/R22 RENEWAL. The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing high-efficiency R32 systems.

ANTIALLERGY PROPERTIES. System is equipped with antiallergy properties filter.

ODOUR-REMOVING FUNCTION. Allows the exchanger to be cleaned, preventing possible odours. While this function is connected, the fan also remains OFF momentarily to avoid unpleasant odours while the exchanger is being cleaned.

High performance and indoor air quality (cont.).

REMOVABLE, WASHABLE PANEL. The front panel is easy to keep clean. It can be removed quickly in one single step and can be washed in water. A clean front panel ensures smoother, more efficient operation, which can save energy.

POWERFUL MODE. The rapid and effective powerful mode is ideal for when you come home on the hottest or coldest days. It works at maximum power to reach the desired temperature in just 15 minutes.

SOFT DRY OPERATION MODE. The soft dry mode eliminates excess moisture with a soft breeze and provides a sense of wellbeing without much change in temperature.

PERSONAL AIR FLOW CREATION. Permits the air direction to be adjusted vertically and horizontally. This feature can be conveniently selected by remote controller.

AUTOMATIC VERTICAL AIR FLOW CONTROL. The flap swings up and down automatically. The flow can also be set at a fixed angle with the remote controller.

MANUAL HORIZONTAL AIR FLOW CONTROL.

AUTO MODE. Automatically switches the current operation mode to heating or cooling mode necessary to keep the temperature at a constantly comfortable level based on the temperature of the room. In case of multi split installation the function is limited to first unit working and logic of switching is different considering also the outdoor temperature.

HOT START MODE. At the start of heating cycle and after defrost cycle, the indoor fan will start up once the indoor heat exchanger is warm.

REAL TIME CLOCK WITH DUAL ON / OFF TIMER. This feature enables you to preset two different sets of start/stop operation timer (hour and minute) within a 24-hour time frame.

WEEKLY TIMER. Allow to fix per each day of the week up to 6 operations per day.

LCD INFRARED REMOTE CONTROLLER.

AUTOMATIC RESTART. This function permits automatic restarting if safe mode operation has stopped for some unusual reason, such as after a power cut. As soon as the power is back, the unit restarts with the parameters selected before it stopped.

LONG PIPING. Indicates the maximum length of pipe between the outdoor unit and the indoor unit(s). The distances permitted, demonstrate the installations possible.

TOP-PANEL MAINTENANCE ACCESS. Maintenance of an outdoor unit used to be quite a tedious task. Now, with the possibility of removing the top cover, maintenance is quick and easy.

SELF-DIAGNOSIS FUNCTION. With this function the unit carries out a process self-diagnosis when a particular function does not work correctly. This allows faster servicing.

5 YEARS COMPRESSOR WARRANTY. We guarantee the outdoor unit compressors in the entire range for five years.

High connectivity.

DOMESTIC INTEGRATION TO S-LINK - CZ-CAPRA1. Can connect RAC range to S-Link. Full control is now possible.

WI-FI CONTROL. The Panasonic Comfort Cloud App allows users to conveniently manage and monitor Panasonic residential heat pumps from a mobile device, anytime, anywhere.

BMS CONNECTIVITY. Panasonic air conditioners offer seamless integration into a Building Management System (BMS) using an optional gateway.

Accessories and control

Connectivity

Interface adapter for integration into S-Link, plus external input and alarm/ status output.

CZ-CAPRA1

KNX gateway powered via CN-CNT. For RAC models with CN-CNT connector.

PAW-AC-KNX-1i

KNX gateway with 12 V DC power supply. For RAC models with CN-CNT connector.

PAW-AZAC-KNX-1

DIN rail-mounted Modbus gateway, powered via CN-CNT. For RAC models with CN-CNT connector.

PAW-AC-MBS-1

Modbus gateway with 12 V DC power supply. For RAC models with CN-CNT connector.

PAW-AZAC-MBS-1

DIN rail-mounted BACnet gateway, powered via CN-CNT. For RAC models with CN-CNT connector.

PAW-AC-BAC-1

BACnet gateway with 12 V DC power supply. For RAC models with CN-CNT connector.

PAW-AZAC-BAC-1

Dry contact interface for RAC models with CN-RMT connector.

PAW-AC-DIO

Individual controls

Wired remote controller for wall-mounted and floor console.

CZ-RD517C

Infrared remote controller Sky Remote. 2 m cable length of infrared receiver for hide-away.

CZ-RL511D

CONEX wired remote controller (non-wireless) for 4 way 60x60 cassette - PY3, white.

CZ-RTC6W

CONEX wired remote controller (non-wireless) for 4 way 60x60 cassette - PY3, black.

CZ-RTC6

Panels

NEW! Panel for 4 way 60x60 cassette, white (RAL9003).

CZ-KPY4W

NEW! Panel for 4 way 60x60 cassette, graphite black (RAL9011).

*Available in Autumn 2026.

CZ-KPY4B

Pipe reducer

Reduces the connection size on the indoor unit from 1/2” to 3/8”.

CZ-MA1PA

Increases the connection size on the outdoor unit from 3/8” to 1/2”.

CZ-MA2PA

Reduces the connection size on the indoor unit from 5/8” to 1/2”.

CZ-MA3PA

RAC Solo accessories

Wall-mounted control with Modbus.

PCZ-EEB749

Wall-mounted control with integrated Wi-Fi.

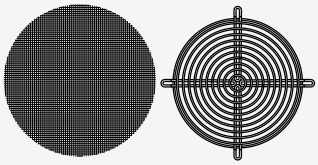
PCZ-EFB749

Kit of external aluminium grids with fixed fins (162 mm holes).

PCZ-GB0738

Kit of external aluminium grids with fixed fins (202 mm holes).

PCZ-GB1091



Insect protection kit (1 metal mesh, 1 grid in metal wire and fixing accessories). Only for connection with PCZ-GB0738.

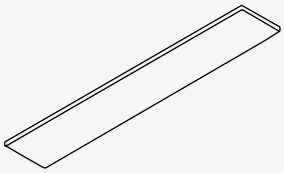
PCZ-GB0755

Side exit formwork for corner installation for P-MOZ20/25IC5A-E (right-hand outlet).

PCZ-L00773

Side exit formwork for corner installation for P-MOZ20/25IC5A-E (left-hand outlet).

PCZ-L00774



Bottom cover kit for overhead installation for P-MOZ20/25/30IC5A-E.

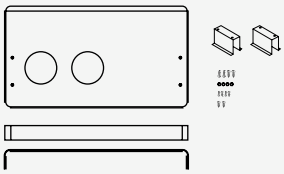
PCZ-GB0737

Bottom cover kit for overhead installation for P-MOG16IC5A-E.

PCZ-GB1105

Condensate drain pipe heater kit.

PCZ-GB1119



Kit for installation on glass walls (back cover, two floor-fixing brackets, front plinth base cover, and screws and nuts). For P-MOG16IC5-E.

PCZ-GB1152PS

Kit for installation on glass walls (back cover, two floor-fixing brackets, front plinth base cover, and screws and nuts). For P-MOZ25IC5-E and P-MOZ20IC5-E.

PCZ-GB1153PS

Kit for installation on glass walls (back cover, two floor-fixing brackets, front plinth base cover, and screws and nuts). For P-MOZ30IC5-E.

PCZ-GB1154PS

Foldable rounded grille accessory for P-MOG16IC5A-E, P-MOZ20IC5A-E and P-MOZ25IC5A-E.

PCZ-GB1143

Foldable rounded grille accessory for P-MOZ30IC5A-E.

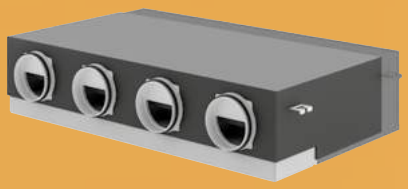
PCZ-GB1144

Soundproofing kit for P-MOZ30IC5A-E.

PCZ-GB1145

Panasonic

PAC *i*



Panasonic Commercial air to air

Panasonic has developed an impressive range of highly efficient Commercial Air Conditioners. This range confirms our commitment to the environment, with our highly efficient Inverter compressor technology to optimise performance.

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PACi NX Series. Compact yet mighty

A high-efficiency packaged air conditioning solution with advanced inverter compressor technology, delivering excellent energy savings.

Designed with innovative indoor air quality features and extensive connectivity options, ideal for shops, restaurants, offices, and residential applications.

Product quality and safety.

All Panasonic Heating & Cooling Solutions undergo strict quality and safety testing before being released to the market. This rigorous process includes obtaining all required safety approvals to ensure every unit meets the highest industry standards and offers complete peace of mind.

ECONOMIC AND ENERGY SAVING INNOVATION

Lower electricity costs and a smarter solution for greater savings.

INSTALLER-FOCUSED DESIGN

Easy installation, simple refurbishment, and enhanced serviceability.

R32 SUSTAINABLE COMFORT INNOVATION

A solution delivering comfort and improved IAQ with environmental responsibility.

PACi NX Elite: Top-tier commercial air conditioning.

The PACi NX Elite range has been expanded to include the Big PACi NX Elite models 20,0-25,0 kW.
Outstanding performance at extreme ambient temperatures with very high energy efficiency both in heating and cooling. Fans, fan motors, compressors and heat exchangers engineered for maximum savings result in higher seasonal efficiencies, which ranks as one of the best in the industry, ensuring reduced CO_2 emissions, energy consumption and operating costs.

From 3,6 to 25,0 kW.
- Meeting all necessary approvals to ensure quality and safety
- Top class SEER: 8,9 A+++ / SCOP: 5,1 A+++ at 3,6 kW (in 90x90 cassette)
- A compact outdoor unit featuring a single fan across all the capacities
- Long piping allowance, maximum 100 m [1)]
- Wide operation range, up to 52 °C in cooling and down to -20 °C in heating
- Auto restart after power outage
- Twin, triple and double-twin connections
- Water Heat Exchanger [2)] and AHU connection compatibility

1) For models 10,0 ~ 25,0 kW. 2) For models 20,0 - 20,5 kW.

PACi NX Standard: For economy and value.

With high quality design and engineering, the PACi NX Standard are the perfect solutions for projects which demand quality on a limited budget. In addition, compact and lightweight design makes them ideal for installations with limited space including small commercial and residential applications. The slim and lightweight outdoor unit design enables installation even in very challenging locations.

From 2,5 to 14,0 kW.
- Extended range of outdoor units starting from 2,5 kW
- Great balance of system cost and performance
- Top class SEER / SCOP in the standard Inverter category
  SEER: 8,1 A++ / SCOP: 4,8 A++ at 3,6 kW (in 90x90 cassette)
- Variety of individual and central controllers which provides full flexibility
- Compact outdoor units, small footprint and lightweight
- Twin connection possible from 10,0 to 14,0 kW
- Operation range, up to 43 °C in cooling and down to -15 °C in heating

Professional air conditioners with R32 refrigerant.

Panasonic recommends R32, with lower Global Warming Potential (GWP). Compared to R22 and R410A, R32 has a low potential impact on global warming.

Panasonic takes action in helping to protect the environment. In line with the European countries participating in the Montreal Protocol, protecting the ozone layer and preventing global warming, Panasonic is leading the switch to R32.

R32
GWP REDUCED BY
75%

PACi NX Series. Highlighted features

The NX Series enables fast and easy refurbishment through its efficient 3-wire method and integrates nanoe™ X technology to deliver advanced indoor air quality performance. Its extensive IoT connectivity enables smart monitoring and optimized energy management.

Increasing the efficiency.

An expanded air to air indoor unit line-up that provides high seasonal efficiency and year-round comfort, meeting a wide range of project requirements.

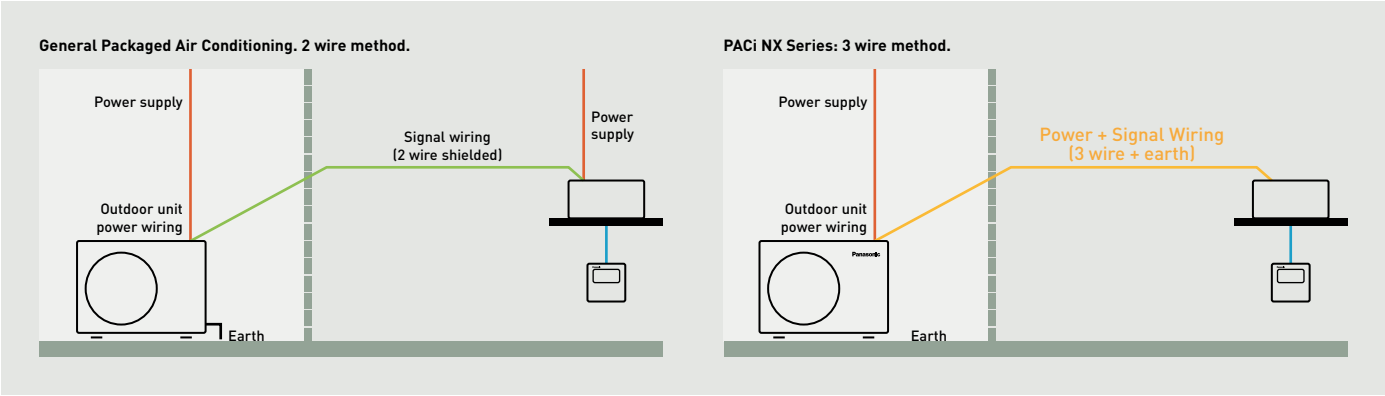
Energy class [1] and seasonal efficiency value ($\eta_{s,c}$ / $\eta_{s,h}$) [2]

		Wall-mounted - PK4		4 way cassette - PY3		4 way cassette - PU3		Ceiling - PT3		Adaptive ducted - PF3		Multi zone duct unit	Hide-away - PE4	Jet Air Stream
		Elite	Standard	Elite	Standard	Elite	Standard	Elite	Standard	Elite	Standard	Standard	Elite	Elite
2,5 kW	❄		A++		A++									
	☼		A+		A++									
3,6 kW	❄	A++	A++	A++	A++	A+++	A++	A++	A++	A++	A+			
	☼	A++	A+	A++	A+	A+++	A++	A++	A+	A+	A+			
5,0 kW	❄	A++	A++	A++	A++	A+++	A++	A++	A++	A++	A++			
	☼	A++	A+	A++	A+	A++	A++	A++	A+	A+	A+			
6,0 kW	❄	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++			
	☼	A++	A++	A+	A+	A++	A++	A++	A++	A+	A+			
7,1 kW	❄	A++	A+			A++	A++	A++	A+	A++	A+	A+		
	☼	A++	A+			A++	A++	A++	A+	A++	A+	A++		
10,0 kW	❄	A++	A++			A++	A++	A++	A++	A++	A++	A+		
	☼	A+	A+			A++	A+	A+	A+	A+	A	A++		
12,5 kW	❄					304,3%	267,0%	278,4%	241,7%	281,7%	257,4%	143,2%		
	☼					186,0%	157,0%	175,6%	147,4%	165,0%	142,6%	254,5%		
14,0 kW	❄					286,6%	257,0%	263,3%	228,8%	275,9%	252,2%	141,4%		227%
	☼					181,2%	152,2%	169,3%	145,3%	162,6%	140,6%	251,8%		155%
20,0 kW	❄												237,8%	
	☼												146,0%	
25,0 kW	❄												213,0%	250%
	☼												145,0%	155%

1) Energy label scale from A+++ to D for models below 12,0 kW (EU regulation 626/2011). 2) $\eta_{s,c}$ / $\eta_{s,h}$ values for models above 12,0 kW (EN 14825).

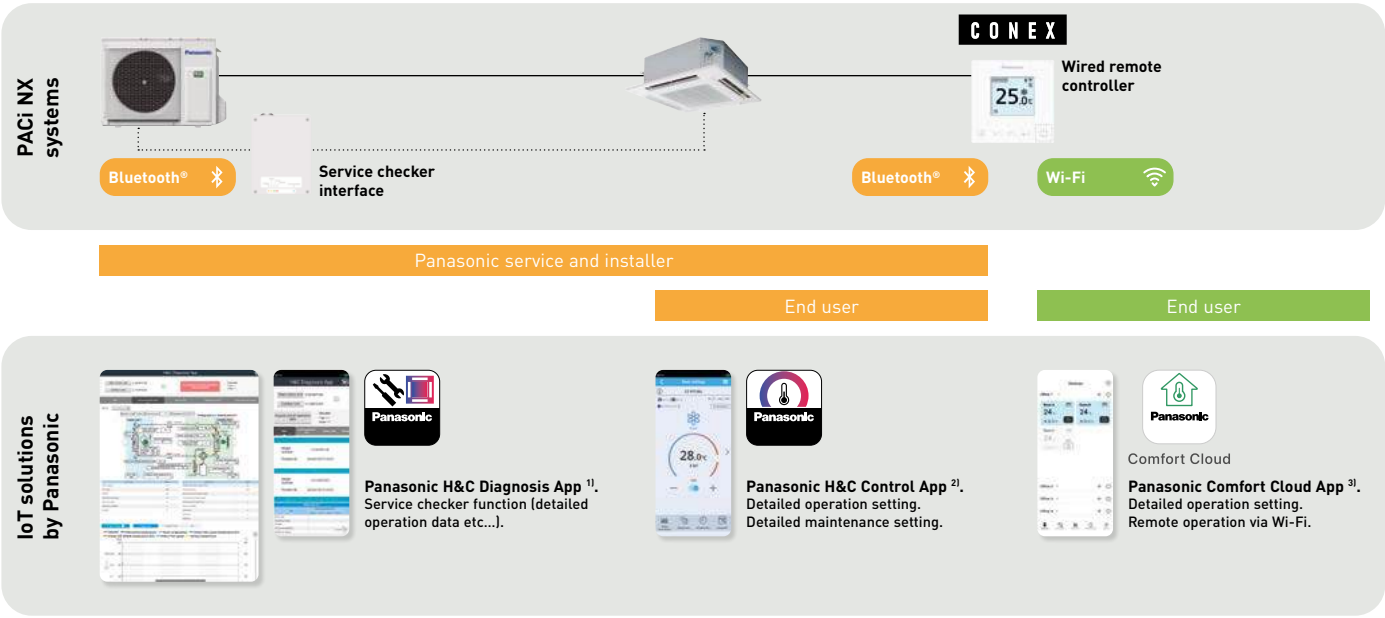
PACi NX Series for absolute ease of refurbishment.

This series have been developed with 3 wire power and communication. It makes it simple and easy to replace old systems with 3 wire connections, which is prevalent in many systems.



CONEX with IoT integration

The wired remote controller CONEX is fully integrated with IoT solutions developed by Panasonic.
Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.



1) A service checker interface is required when this app is used from outdoor location. Wired remote controller (CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW2 or CZ-RTC6BLW2) is required when this app is used from indoor location. Compatible with PZ3 and PZH3 outdoor units. 2) CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW2 or CZ-RTC6BLW2 required. 3) CZ-RTC6WBLW2 or CZ-RTC6BLW2 required.

Let Panasonic take care of indoor air quality

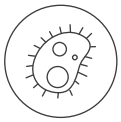
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances. This unique technology is equipped to provide better air quality whether residential or commercial.

7 effects of nanoe™ X – Panasonic unique technology.

Deodorises

Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses

Mould

Allergens

Pollen

Hazardous substances

Moisturises

Skin and hair

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

REFER TO PAGE 217 FOR MORE DETAILS AND VALIDATION DATA

CONEX. Devices and apps

CONEX provides comfort and control for varying user needs. Accessible, flexible and scalable with different controllers and apps. Perfectly meeting requirements of modern controls for end user, installer and service.

Comfort Cloud

1 Intuitive control with stylish design

- Simple operation at a glance
- Clean face with full flat and LCD display
- Compact body, only 86x86 mm

2 Control comfort with your smartphone

- Flexible control options with IoT integration
- Panasonic H&C Control App for daily remote control operation
- Panasonic Comfort Cloud App for remote operation 24/7/365

3 Easy maintenance with service support app

- Quick and easy app set-up for system setting
- Panasonic H&C Diagnosis App enables the user to obtain detailed system operation data

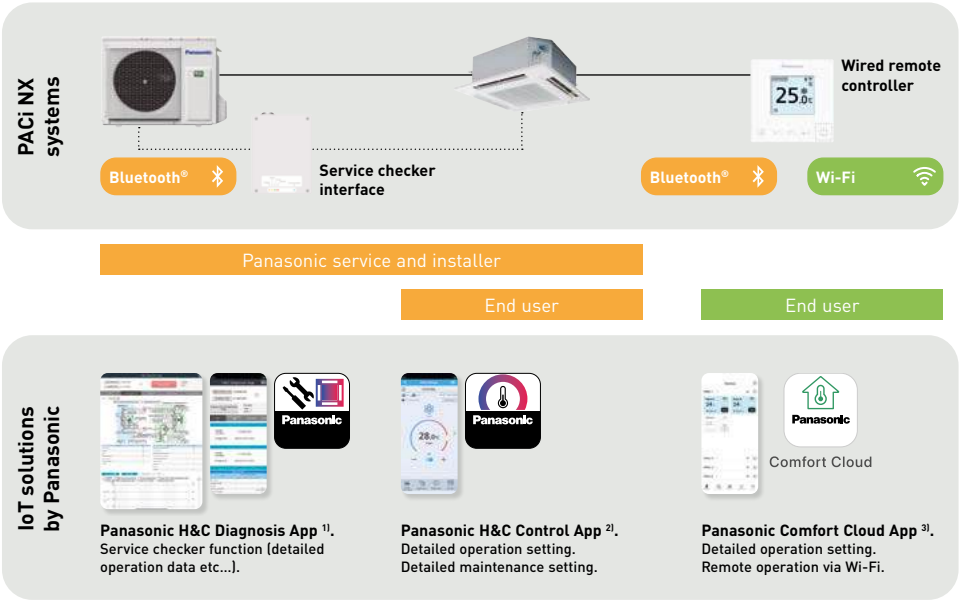
*The use of apps depends on the remote controller model.

CONEX with IoT integration

CONEX

The wired remote controller CONEX is fully integrated with IoT solutions developed by Panasonic. Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.

1) A service checker interface is required when this app is used from outdoor location. Wired remote controller (CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW2 or CZ-RTC6BLW2) is required when this app is used from indoor location. Compatible with PZ3 and PZH3 outdoor units. 2) CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW2 or CZ-RTC6BLW2 required. 3) CZ-RTC6WBLW2 or CZ-RTC6BLW2 required.



White model	CZ-RTC6W	CZ-RTC6WBL	CZ-RTC6WBLW2
Black model	**CZ-RTC6**	**CZ-RTC6BL**	**CZ-RTC6BLW2**
Wired connection compatible with	PACi NX and ECOi	PACi NX and ECOi	PACi NX and ECOi 1)
Wireless functions	No wireless capability	Bluetooth®	Bluetooth® + Wi-Fi
App compatibility			
Panasonic Comfort Cloud App	—	—	✔
Panasonic H&C Control App	—	PACi NX and ECOi	✔ PACi NX only
Panasonic H&C Diagnosis App 2)	—	✔ PACi NX only 3)	✔ PACi NX only 3)
Outdoor unit settings (remote controller connected to indoor unit)	✔ PACi NX only 3)	✔ PACi NX only 3)	✔ PACi NX only 3)

1) Available with ECOi indoor unit types MY3, MF3, MM2, and MK3. 2) Compatible with U-71/100/125/140PZH3E5/8 and U-100/125/140PZ3E5/8. 3) When connected to PACi NX indoor and outdoor unit combination.

Commercial Wi-Fi Adaptor

Panasonic CZ-CAPWFC2 interface adaptor, allows connection of one or a group of indoor units to Panasonic Comfort Cloud App, which provides control, monitoring, scheduling, and error alerts.

Comfort Cloud

Advanced smartphone control.

Control PACi NX and ECOi indoor units with your smartphone whenever and wherever you are, by using Panasonic Comfort Cloud App and Commercial Wi-Fi Adaptor. This scalable solution is ideal for one system, one site or multiple locations. Coupling the adapter with the already feature rich systems, makes it an ideal solution for residential and commercial applications.

1 From 1 to 200 units

User can control up to 10 different sites, with up to 20 units / groups per site. Additionally, one adaptor can be connected to 1 indoor or to a group of up to 8 indoors.

2 Voice control compatible

Registering the unit to Panasonic Comfort Cloud App makes it compatible with the most popular voice assistants.

3 Multi user

The Panasonic Comfort Cloud App allows multi-user access control, whilst allowing user restriction to specific units.

4 Easy scheduling

Complex weekly scheduling made simple. Not only for one unit, but across multiple sites, and from a smartphone.

5 Energy monitor

See the estimated power consumption and compare with other periods, to see how energy consumption can be further reduced. Check list of units that provides consumption*.

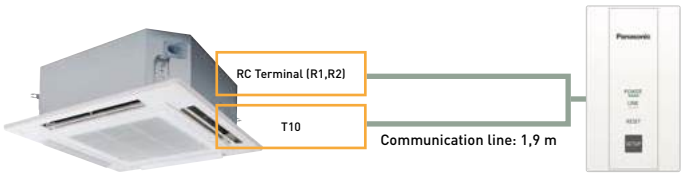
*Function available depending on the model.

6 Error codes

Error code notification through the App, provides early notification and allows for faster repair.

Connection diagram

Commercial Wi-Fi Adaptor wiring length is 1,9 m and connects to indoor unit via T10 connector and R1/R2 terminal connectors.



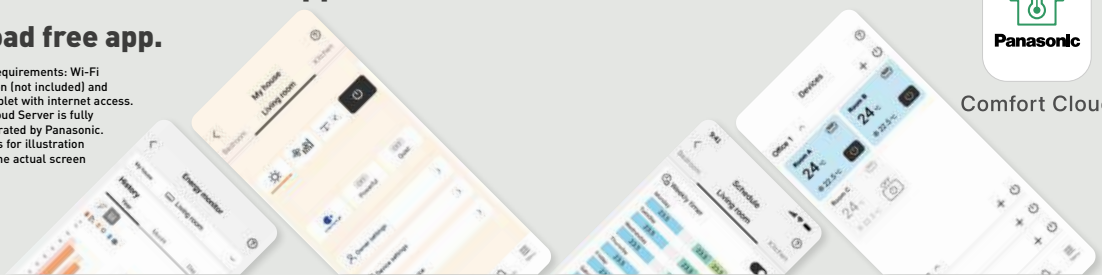
Input Voltage	12 V DC (supplied from T10 connector)
Power Consumption	Maximum 2,4 W
Size (H x W x D)	120 x 70 x 25 mm
Weight	190 g (including communications lines)
Interface	1 x Wireless LAN
Wireless LAN Standard	IEEE 802,11 b/g/n

Frequency Range	2,4 GHz band
Operating range	0 ~ 55 °C, 20 ~ 80 RH%
Connectable indoor unit	1 unit
Length of communication line	1,9 m (included)

Panasonic Comfort Cloud App

Download free app.

Other hardware requirements: Wi-Fi internet connection (not included) and Smartphone or tablet with internet access. The Panasonic Cloud Server is fully managed and operated by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Comfort Cloud

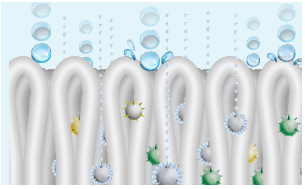
Bringing nature's balance indoors

nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be, whether at home, work, or visiting hotels, shops and restaurants etc.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.

2 | Contained in tiny water particles, nanoe™ X has a long lifespan, which is about 600 seconds, to spread easily around the room.

Huge quantity.

3 | nanoe X Generator Mark 3 produces 48 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.

The image shows nanoe X Generator Mark 3.

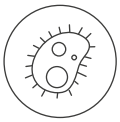
4 | No service and maintenance required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X – Panasonic unique technology

Deodorises

Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses

Mould

Allergens

Pollen

Hazardous substances

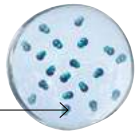
Moisturises

Skin and hair

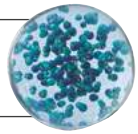
*Refer to https://aircon.panasonic.eu for more details and validation data.

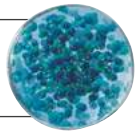
First nanoe™ device was developed by Panasonic in 2003

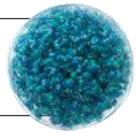
Generator: nanoe™	Generator: nanoe™ X		
2003	**Mark 1** - 2016	**Mark 2** - 2019	**Mark 3** - 2022
480 billion hydroxyl radicals/sec	4,8 trillion hydroxyl radicals/sec	9,6 trillion hydroxyl radicals/sec	48 trillion hydroxyl radicals/sec
Ion particle structure	**10x times**	**20x times**	**100x times**



Hydroxyl radicals







nanoe™ X, internationally-validated technology in testing facilities.

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Japan and China.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed. Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

	Tested contents		Generator	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Influenza (H1N1)	Mark 2	98,3% inhibited	30 m³	1,5 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2003WT8888-00889
		Bacteriophage ΦX174	Mark 1	99,2% inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	Mark 1	99,7% inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	24_0301_1
Adhering	Virus	SARS-CoV-2	Mark 1	91,4% inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	Mark 1	99,9% inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Bacteriophage ΦX174	Mark 1	99,8% inhibited	Approx. 25 m³	8 h	Japan Food Research Laboratories	13001265005-01
		Xenotropic murine leukemia virus	Mark 1	99,999% inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Coxsackie virus (CA16)	Mark 2	99,9% inhibited	30 m³	4 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2002WT8888-00439
		Bacteriophage	**Mark 3**	98,81% inhibited	Approx. 139,3 m³	4 h	SGS Inc	SHES210901902584
		MS2 Phage Virus	**Mark 3**	99,99% inhibited	Approx. 25 m³	2 h	Shokukanken, Inc.	227131N
	Bacteria	Staphylococcus aureus	Mark 1	99,9% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Cedar pollen	**Mark 3**	99% inhibited	Approx. 24 m³	12 h	Panasonic Product Analysis Center	H21YA017-1
		Ambrosia pollen	Mark 1	99,4% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Mark 1	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04
			Mark 3	Odour intensity reduced 1,7 levels	Approx. 139,3 m³	0,5 h	SGS Inc	SHES210901902478

Meets the requirements of VDI 6022 and HACCP

Certified under VDI 6022, meeting one of the strictest hygiene requirements on the market for HVAC systems, and aligned with HACCP-based food-safety practices.

VDI 6022 – Part 5 [1] Certification.

Avoidance of allergenic exposure. Inhibits a wide range of harmful bacteria, viruses, mould, pollen and allergens.

VDI 6022 – Part 1 [1] & 1.1 [2] Certification.

Ventilation and indoor-air quality. Panasonic nanoe™ X technology improving indoor air quality.

HACCP Food Safety Certified [3] – Europe's first HVAC manufacturer.

1) Certification mark only valid for nanoe X Generator Mark 3. 2) Certification mark only valid for nanoe X Generator Mark 2 and Mark 3. 3) Applicable to PACi NX and ECOi indoor units equipped with nanoe X Generator Mark 3.

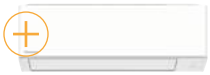
nanoe™ X: improving protection 24/7.

Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long. nanoe™ X works together with heating or cooling function when you are at home and can work independently when you are away.
Give the air conditioning the strength to increase the protection at home with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App.

Cleans the air even when there is no work activity.
Leave the nanoe™ X mode ON to inhibit certain pollutants and deodorize before start the work activity again.

Improves your environment and better protects the products handled when you are or not at work.
Enjoy a cleaner comfortable space both when working indoors and simply when it comes to better protecting products in the cold room.

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment



Wall-mounted.
Built-in nanoe X Generator Mark 3.

4 Way 60x60 cassette.
Built-in nanoe X Generator Mark 2.

4 Way 90x90 cassette.
Built-in nanoe X Generator Mark 1.

Ceiling.
Built-in nanoe X Generator Mark 2.

Adaptive ducted unit.
Built-in nanoe X Generator Mark 2.

High static pressure hide-away.
Built-in nanoe X Generator Mark 3.

Ceiling mounted air-e nanoe X Generator.
Built-in nanoe X Generator Mark 1.

PACi NX 4 way 90x90 cassette - PU3

These cassettes offer upgraded nanoe™ X and Econavi technologies to make the room air more comfortable and healthy and to increase the energy efficiency.

1 Improved indoor air quality with nanoe™ X and fresh air intake

- nanoe™ X technology equipped as standard for improved indoor air quality
- Internal cleaning function for the unit with nanoe™ X
- High external fresh air intake volume with optional kit (CZ-FDU3 + CZ-ATU2)

2 Superior energy efficiency and comfort

- High seasonal efficiency both in heating and cooling, maximum SEER: 8,9 A+++ / SCOP: 5,1 A+++*
- Econavi: Intelligent sensors to increase energy savings and comfort
- Super Quiet operation down to 27 dB(A)

*For 3,6 kW model.

3 Easy installation

- Light weight, easy piping and integrated drain pump for quick installation
- Wired remote controller CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®

nanoeX

SEE PRODUCT SPECIFICATIONS

White and graphite black panels available, offering versatile options for commercial applications.

Standard panel, white (RAL9003).
CZ-KPU3

Econavi panel, white (RAL9003).
CZ-KPU3A

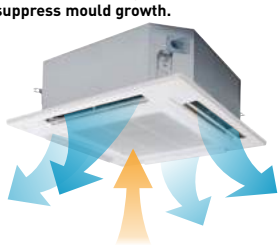
Standard panel, graphite black (RAL9011).
CZ-KPU3B

Always fresh and clean air with nanoe™ X

The 4 way 90x90 cassette with nanoe™ X, when tested, has shown to inhibit hazardous substances by 92%, when compared to natural reduction*.
In addition to the 7 effects of nanoe™ X, the indoor unit can also be cleaned with a short operation of nanoe™ X + dry mode.

*Controllers (CZ-RTC5B, CZ-RTC6W/BL/BLW2 or CZ-RTC6/BL/BLW2) are required.

After cooling/drying operation, the inside of the indoor unit is automatically dried and nanoe™ X is activated to suppress mould growth.



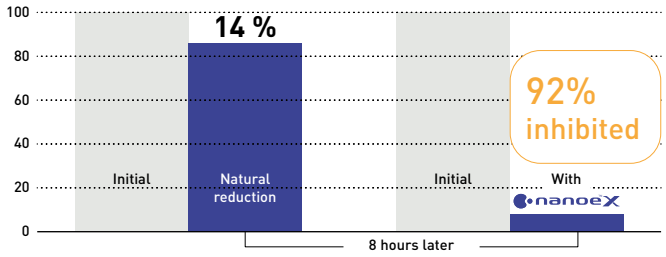
Operates the fan to discharge internal humidity.

Operate the fan to circulate nanoe™ X internally.

nanoe™ X effect against odour proven in large space

92% of hexadecane [1] is inhibited after 8-hours exposure in room side 267 m².

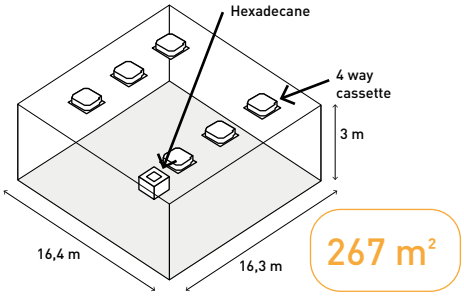
Hexadecane inhabitation ratio (%).



Test ambient.

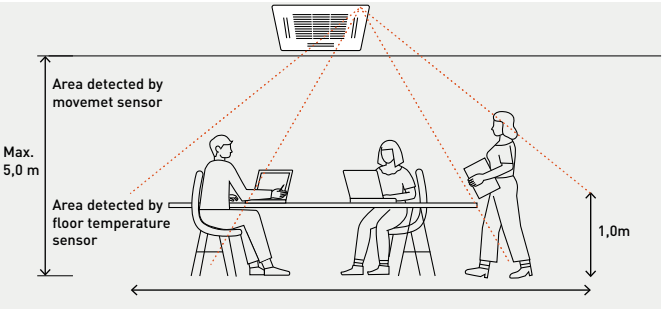
3rd party certification organization SIRIM [2] conducted the performance experiment of 4 way cassette equipped with nanoe X Generator Mark 1 device in inhibiting hexadecane, a chemical contaminant.

1) Hexadecane is a hazardous substance contained in gasoline and diesel exhaust gas, and considered to be one cause of oil odour. 2) SIRIM Berhad (SIRIM),a premier industrial research and technology organization in Malaysia, wholly-owned by the Ministry of Finance Incorporated.



Optional Econavi intelligent sensor

Human activity sensor and floor temperature sensor can reduce waste energy, by optimising air conditioner operation.

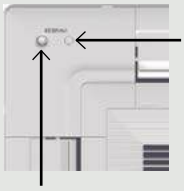


Advanced Econavi functions.

INTELLIGENT ECO SENSORS ECONAVI

2 sensors (movement and floor temperature) can provide a reduction in wasted energy by means of effective control. The floor temperature can be detected with a ceiling height of up to 5 m.

Econavi exclusive panel. Optional (CZ-KPU3A)



Floor temperature sensor.
This sensor detects average floor temperature and operates circulation if floor temperature is low.

Movement sensor.
This sensor detects the amount of human activity, and operates effectively.

Wired remote controller CZ-RTC5B, CZ-RTC6W/BL/BLW2 or CZ-RTC6/BL/BLW2 is required.

PACi NX adaptive ducted unit - PF3

The adaptive ducted units provide better flexibility with both installation possibilities, horizontal and vertical. The powerful external static pressure, maximum 150 Pa.

nanoeX™

SEE PRODUCT SPECIFICATIONS

1 Highly flexible installation

2 installation possibilities (horizontal / vertical).

2 High seasonal performance with slim body

Maximum SEER: 7,4 A++ [1] / SCOP: 4,7 A++ [2].

1) For 10,0 kW model. 2) For 7,1 kW model.

3 Comfort operation

- Super Quiet operation, minimum 22 dB(A)*
- Optimized IAQ solutions for different target objectives. nanoe™ X and the BION air pollutant filter (optional)

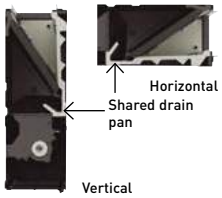
*3,6 kW model and when operating with external static pressure 50 Pa in low fan mode.

2 installation possibilities (horizontal / vertical)

Vertical installation is available. External static pressure 150 Pa, sufficient for remotely installing units away from the rooms.

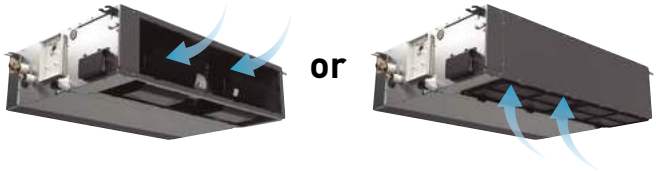
Improved drain pan design

Just one drain pan for both horizontal and vertical installations. No need to modify the unit.



Selectable inlet air position

Inlet air position may be adjusted by means of a removable panel, to allow rear or bottom entry, depending on the duct installation.



Maximum efficiency

Energy class [1] and seasonal efficiency value ($\eta_{s,c}$ / $\eta_{s,h}$) [2]								
	kW	3,6	5,0	6,0	7,1	10,0	12,5	14,0
Elite	❄	A++	A++	A++	A++	A++	281,7%	275,9%
	♨	A+	A+	A++	A++	A+	170,0%	171,0%
Standard	❄	A+	A++	A++	A++	A++	257,4%	252,2%
	♨	A+	A+	A++	A+	A	142,6%	140,6%

1) Energy label scale from A+++ to D for models below 12,0 kW (EU regulation 626/2011). 2) $\eta_{s,c}$ / $\eta_{s,h}$ values for models above 12,0 kW (EN 14825).

Compact body

- Only 250 mm high
- Light units from 25 to 39 kg

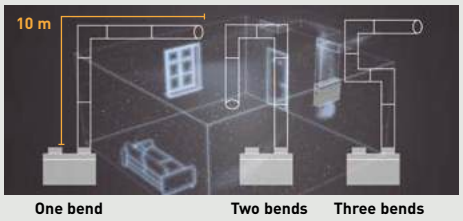
Conventional model	Adaptive ducted
33 kg	**30 kg**
290 mm	**250 mm**

Adaptive ducted

Better indoor air quality with nanoe™ X

The performance of nanoe™ X technology is maintained, even with 10 m long ducts*.
The effect of improved air quality is sufficient to allow for numerous duct shapes to fit the application.

*Panasonic internal survey.

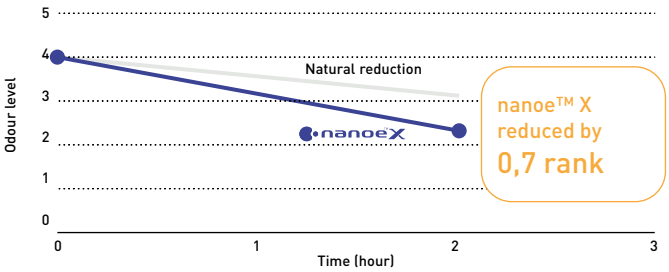


As the experiments demonstrate, up to a duct length of 10 m, effectiveness of nanoe™ X is maintained even if the duct is bended 3 times.

nanoe™ X effect against odour proven in large space

In a room of 139 m², tobacco odour is reduced by a factor of 0,7 when compared to natural reduction over a period of 2 hours.

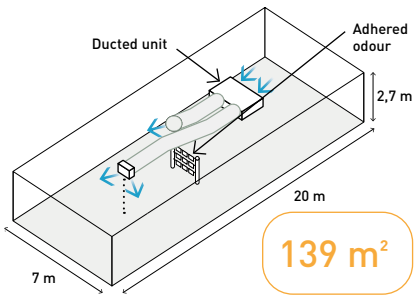
Tobacco deodorisation ratio.



Test ambient.

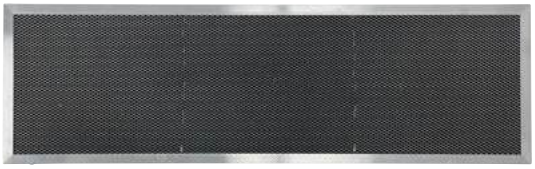
3rd party international testing institute KAKEN [1] conducted the performance experiment of Adaptive ducted equipped with nanoe X Generator Mark 2 device removing tobacco odour.

1) KAKEN TEST CENTER General Incorporated Foundation in Japan, international testing institute.



BION air pollutant filter (optional)

Collaborating with BION, experts in filtration equipment, a new molecular filtration is available to improve indoor air quality.

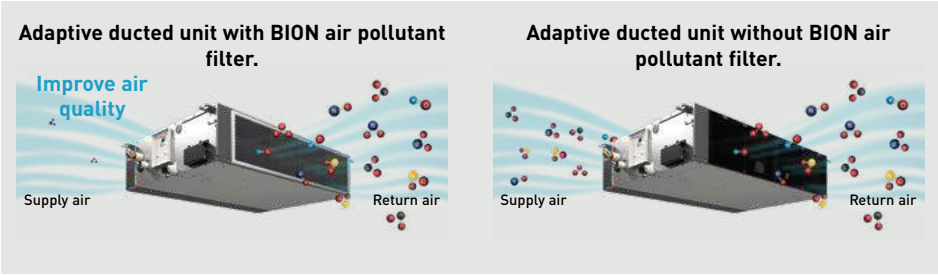


The efficiency of nitrogen dioxide (NO_2) removal can reach 99,5%*

*Measured by ASTM6646 international standards. Efficiency reaches 99,5% within 4,8 seconds of contact time with the media bed (FAM filter). **The performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. BION air pollutant filter is not medical device, local regulations on building design must be followed. Test results conducted under controlled laboratory conditions. Performance of BION air pollutant filter might differ in real life environment.

BION air pollutant filter traps and reduces certain types of harmful pollutant gases, listed below

- Nitrogen oxides (NO_x)
- Ozone (O_3)
- Sulfur dioxide (SO_2)
- Formaldehyde (HCHO)
- Volatile organic compounds (VOCs)



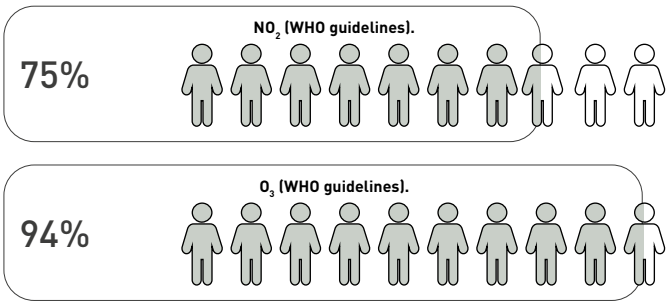
The BION air pollutant filter is an ideal solution for improving indoor air quality in urban areas.

Air pollution in urban areas in Europe

It is reported that in 2021, a significant portion of the Europe's urban population has been exposed to high levels of key air pollutants*.

- 75% of the urban population was exposed to NO_2 concentrations above 10 µg/m³
- 94% were exposed to concentrations of O_3 above 60 µg/m³

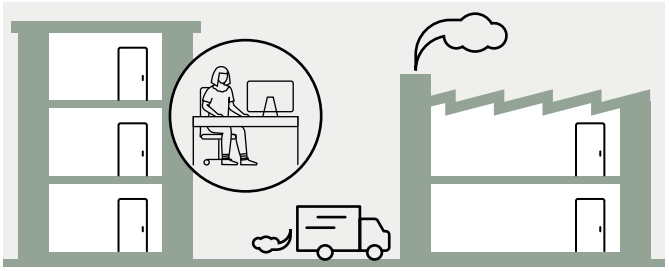
*The "Europe's Air Quality Status 2023" report (EEA, 2023) assesses levels of air pollutants measured in ambient air across Europe (> 2000 locations) for the years 2021 and 2022. It compares them against both EU standards as set out in the Ambient Air Quality Directives and the 2021 WHO Air Quality Guidelines.



Share of the Europe's urban population exposed to air pollutant concentrations above EU standards and WHO guidelines in 2021, as referenced in the EEA 2023.

Why outdoor air pollution matters to IAQ?

Poor indoor air quality is associated with outdoor air pollutants such as car exhaust and factory fumes, and the two are closely linked. A significant portion of human exposure to air pollution occurs when they are indoors.



Different objectives, different IAQ solutions

In today's world, we are concerned about wellbeing and the air we breathe. And technology exists to ensure improved indoor air quality. With the introduction of the BION air pollutant filter, Panasonic offers IAQ solutions optimized for various target objectives.

IAQ Solution	nanoe™ X	BION air pollutant filter
Objectives	Inhibit particles such as pollutants, certain types of viruses, and bacteria to clean and deodorise	Inhibit gases such as nitrogen oxides (NO_x), ozone (O_3), sulfur dioxide (SO_2), formaldehyde (HCHO) and volatile organic compounds (VOCs)
Technology	Hydroxyl radicals contained in water	Molecular filtration
Filtering mechanism	Physical capture of particles	Adsorption and absorption
Availability	Built into all air-to-air indoor units as a standard	Optional accessory for the adaptive ducted unit (PF3/MF3)

BION air pollutant filter*	PAW-APF800F	PAW-APF1000F	PAW-APF1400F
Compatible adaptive ducted unit	S-3650PF3E	S-6071PF3E	S-1014PF3E

*The filter cartridge and filter casing are included in the package.

New multi zone duct unit

Zoned air flow. Maximum comfort. Minimal energy.

The multi zone duct is an energy- and cost-saving solution. It enables independent temperature control for up to five zones and reduces both time and cost during zone duct installation.

EVERY SAVING. INDIVIDUAL TEMPERATURE CONTROL*

FLEXIBLE DESIGN. 4, 5 ZONES. HORIZONTAL / VERTICAL INSTALLATION

EASY ZONE CONTROL INSTALLATION. NO EXTERNAL CONTROL REQUIRED

BUILT-IN WI-FI CONTROL

*All zones will operate in the same mode.

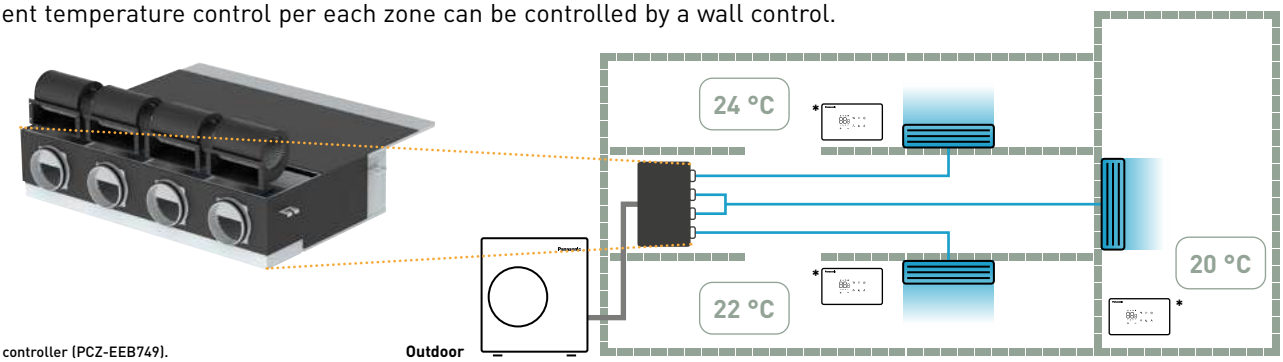
Intuitive wall controller

PCZ-EEB749

SEE PRODUCT SPECIFICATIONS

Multi zone management – Energy saving solution

Independent temperature control per each zone can be controlled by a wall control.



*Wall-mounted controller (PCZ-EEB749).

High installation flexibility

- 2 installation possibilities (horizontal / vertical)
- Up to 5 zones design
- Single or multi-fan control by single wall control. It is possible to control several fans by a single wall control or a single signal in the case of the need to provide ample zone coverage or higher heating / cooling requirements

Example:
4 air outlets for 4 independent zones.

Example:
4 air outlets for 3 independent zones.
Zone 1 with dual channel.
Zone 2 and 3 with single channel.

Bypass duct free solution

Multi zone duct solution eliminates bypass ducts, offering independent fan control per zone for precise comfort and energy savings. It ensures optimized airflow, customizable temperature control, and lower power consumption compared to traditional systems. Ideal for scalable installations with superior efficiency and flexibility.

Built-in Wi-Fi and Ethernet internet connection*.

1 | One simple and quick internet connection for all the zones.

The multi-zone duct unit features a built-in Wi-Fi module with Ethernet port, providing rapid, one-time Wi-Fi configurations for all zones. The Wi-Fi module can be placed out of the unit for better Wi-Fi router signal coverage.

*The Wi-Fi module must be disconnected when the unit is connected to Modbus.

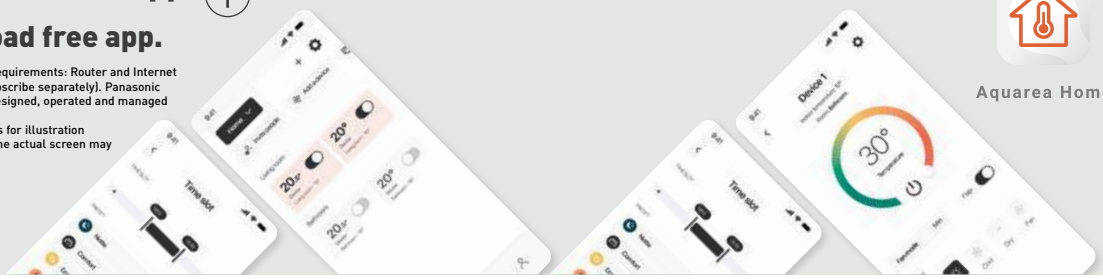
2 | Comfort management anytime, anywhere with Aquarea Home app.

- CENTRALISED REMOTE CONTROL
- FURTHER ENERGY SAVINGS
- WEEKLY TIMER
- USER-FRIENDLY INTERFACE

Aquarea Home App

Download free app.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Panasonic Cloud Server is designed, operated and managed by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Aquarea Home

Download on the App Store

GET IT ON Google Play

PACi NX wall-mounted, 4 way 60x60 cassette and ceiling

A new era of air conditioning solutions are here, with built-in nanoe™ X technology.

SEE PRODUCT SPECIFICATIONS

PACi NX wall-mounted - PK4.

Equipped with the upgraded nanoe™ X (Generator Mark 3) for improved indoor air quality. It's modern, flat design with a stylish matte white finish complements any interior, while improved fan serviceability ensures effortless maintenance.

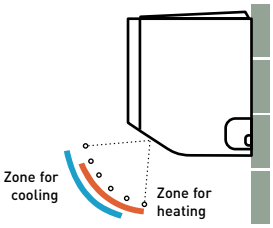
Modern design for any interior

Its modern, flat design with a stylish matte white finish suits any interior, perfect for commercial projects.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making the installation work more flexible.

Air distribution is automatically altered depending on the operational mode of the unit



Efficient installation with drain hose support holders and lock mechanism

Easy connection and disconnection of the drain hose.
Locking mechanism between the drain tray and hose ensures a tight connection during installation and easy dismantling.

Built-in support holders for secure spacing.
Holds the indoor unit against the wall, providing clear access for setting up the drain hose and piping.

SEE PRODUCT SPECIFICATIONS

PACi NX 4 way 60x60 cassette - PY3.

The PY3 not only perfectly matches with 600 x 600 mm ceiling grids but also provides an additional benefit for better indoor quality, with nanoe™ X built-in.

Industry-leading energy efficiency

· Energy class A++* with Elite outdoor range
· Energy class A++ with Standard outdoor range 2,5 kW model

*Except for 6,0 kW.

Internal cleaning function

When cooling or dry operation stopped, internal drying and nanoe™ X circulation air flow is activated in order to suppress the mould proliferation inside the unit (air flow passage, fan, heat exchanger)*.

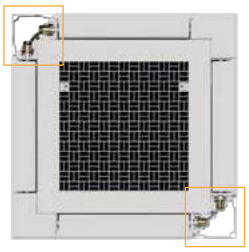
*Depending on the installation environment or operating hours, mould proliferation or inhabitation of mould growth will be changed.

Compact and stylish design

· Required ceiling depth of only 250 mm
· Exposed area is only 30 mm

Individual flap control

Better control of the air flow with 4 motors, providing individual flap control.
Perfect air distribution without direct air flow, to reduce the feeling of cold drafts.



White and graphite black panels available for the 4 way 60x60 cassette, offering versatile options for residential and light commercial applications.

Panel, white (RAL9003).
CZ-KPY4W

Panel, graphite black (RAL9011).
CZ-KPY4B

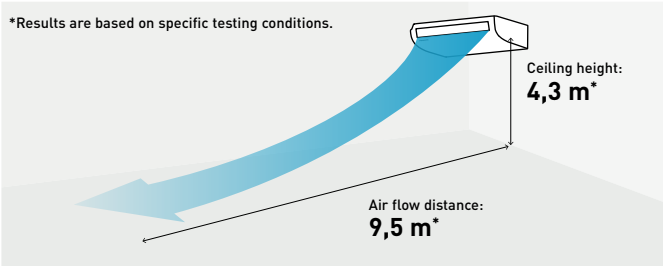
SEE PRODUCT SPECIFICATIONS

PACi NX ceiling - PT3.

Providing outstanding energy saving performance, comfort and long-distance air flow distribution, these units are perfect for retail stores and schools.

Comfortable, long-distance air flow distribution

The shape of the outlet has been optimised to provide long-distance air flow distribution.
Even in long rooms, air flow reaches every corner for exceptionally comfortable air conditioning.



Compact looking, stylish, one-motion design

With its streamlined, one-motion form, the unit looks thin and compact when installed for a neat appearance in any room. When not operating, the louver closes to provide an elegant look while also keeping the unit clean.

Energy saving technology delivering top-class efficiency

Optimisation of the shape of the casing and fan assures bigger air flow and higher efficiency. Energy saving performance is top class in the industry. Thanks to new DC fan motor and large diagonal air flow fan.

Big PACi NX Elite high static pressure hide-away 20,0-25,0 kW - PE4

The split-able indoor unit design facilitates easy piping work. nanoe™ X technology equipped as standard for improved indoor air quality.

nanoeX™

SEE PRODUCT SPECIFICATIONS

1 Compact and light indoor body

Compact and light indoor body, keeping the high-efficiency, has a split-able design for easy installation within a limited narrow space. Plus ease of maintenance due to the simplified disassembly design.

2 Easy pipe work with split-able hide-away indoor design

Heat exchanger and fan elements (fan + casing) can be separated during installation. The hide-away indoor unit is easily reassembled and will fit through a narrow space.

3 High external static pressure, maximum 200 Pa* setting

A high static pressure enables the use of long ducts for installation in a wide range of spaces.

*For model S-250PE4E.

4 Comfort operation

- nanoe™ X as standard for improved indoor air quality
- Smartphone control-ready with the Panasonic Comfort Cloud App [1)]

1) Panasonic Wi-Fi Adaptor CZ-CAPWFC2 is required.

Improved indoor air quality with nanoe™ X

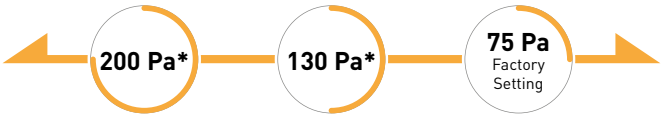
The nanoe™ X technology is now available for the Big PACi NX Elite range from 20,0-25,0 kW.
The PE4 model is equipped with Generator Mark 3, generating 48 trillion hydroxyl radicals/sec, specifically designed to accommodate long duct piping applications.

Maximum 200 Pa* static pressure setting

A high static pressure enables the use of long ducts for installation in a wide range of spaces.

3-step static pressure set up.
Selectable of static pressure modes can change 200 Pa / 130 Pa / 75 Pa for extra installation flexibility.

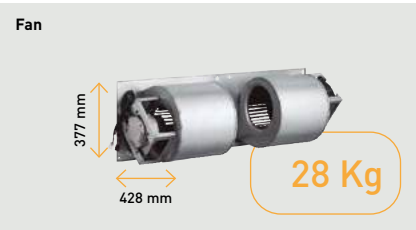
*For model S-250PE4E.

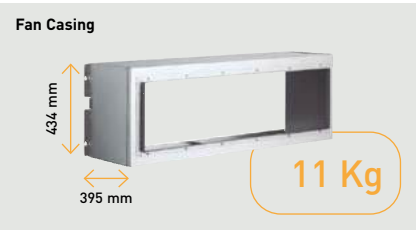


Easy installation with light components

Indoor unit can easily be split into 3 components, the heaviest of which weighs only 48 kg.

Dimension of each component (lightweight design for easy disassembly).





The weight is for S-250PE4E model.

Jet Air Stream

Large spaces are often heated with boilers and unit heaters, which are inefficient, noisy, complex, and expensive fossil fuel systems that rarely offer summer cooling integration. The Jet Air Stream provides an efficient and sustainable solution for year-round heating and cooling in large spaces. It ensures optimal user comfort, a quiet environment, and is much easier to install than other systems.

EFFICIENT HEATING AND COOLING

LONG AIR DISTRIBUTION

SMART JET - SELF-DIRECTING NOZZLES

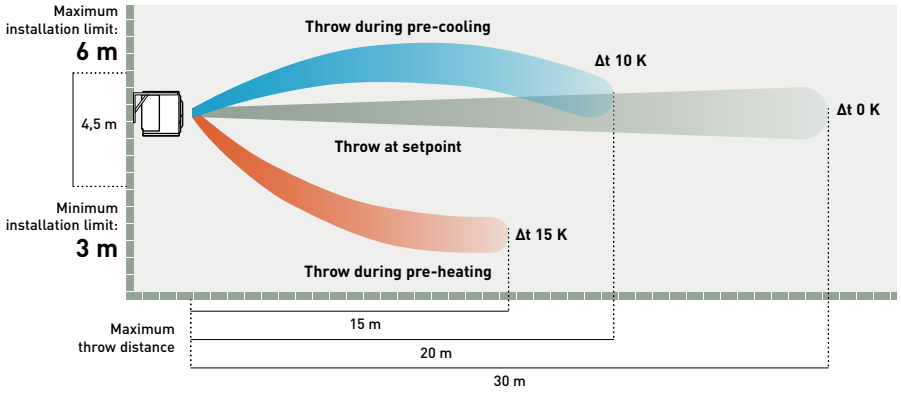
QUIET OPERATION

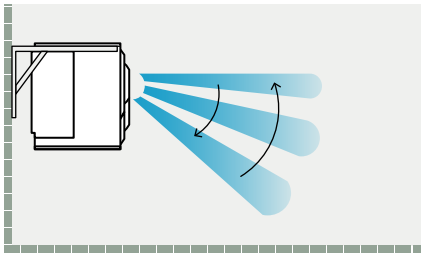
The Jet Air Stream for the large spaces that require high air distribution, such as gymnasiums, production areas and warehouses.

SEE PRODUCT SPECIFICATIONS

High air distribution for large spaces

High air volume with a long air flow distance of up to 30 m ensures optimal comfort for large spaces like warehouses and gyms.



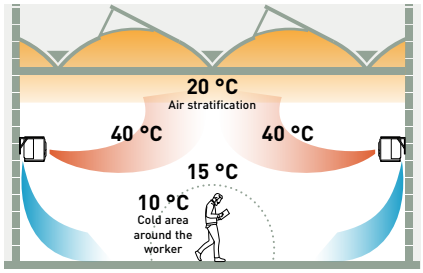


Smart Jet - self-directing nozzles

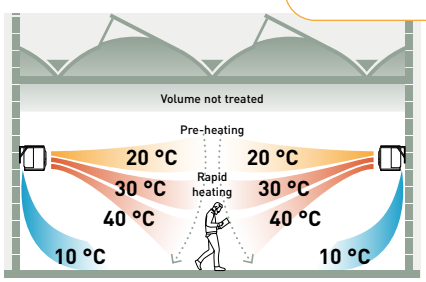
Jet Air Stream Smart models ensure optimal comfort by preventing heat loss. Nozzle movements adapt dynamically to incoming air temperature, preventing stratification and maintaining an ideal temperature exclusively in the occupied area.

In cooling mode, the nozzle operation logic is inverted until the setpoint is reached

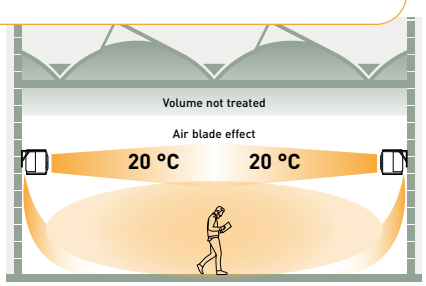
Jet Air Stream operation



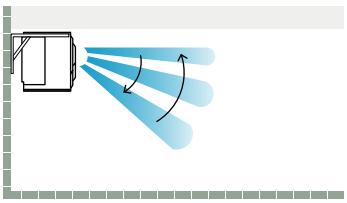
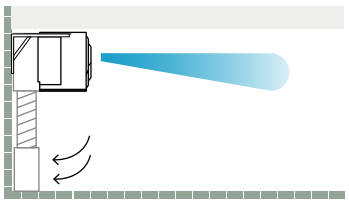
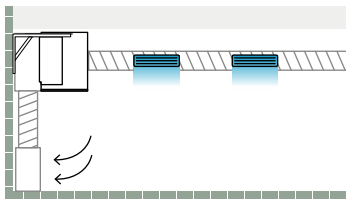
Existing solution in heating.
Air stratification occurs when warm air from the heating system rises to the top of the room, while cold air stays at the bottom. This is due to warm air being lighter and rising, and cooler air being denser and staying low.



Jet Air Stream operation in heating.
Pre-heating: Upon start-up, the Jet Air Stream Smart directs the nozzles horizontally, preventing not-yet-warm air from blowing on people.
Rapid heating: Once the air reaches the ideal temperature, power is maximised and the nozzles point downward, ensuring rapid heating of the occupied area.



Jet Air Stream operation in heating.
Maintenance with air blade effect: Jet Air Stream Smart adjusts power once the desired temperature is reached. This aligns nozzles horizontally, creating an 'air blade' as a thermal barrier to optimise heat distribution and prevent upward dispersion.

Type		Jet Air Stream Smart		Jet Air Stream Standard		Jet Air Stream Ducted	
Air flow	m³/h	2500 m³/h	5000 m³/h	2500 m³/h	5000 m³/h	2500 m³/h	5000 m³/h
Model		P-VTVF140MC5A-PE	P-VTVF250MC5A-PE	P-VTVF140NC5A-PE	P-VTVF250NC5A-PE	P-VTVF140PC5A-PE	P-VTVF250PC5A-PE
Image		Smart Jet - self-directing nozzles		Manual nozzles		Ducted front panel	
							
Compatible outdoor unit		U-140PZH4E5/8	U-250PZH4E8	U-140PZH4E5/8	U-250PZH4E8	U-140PZH4E5/8	U-250PZH4E8

Commercial units range

Page	Indoor units	2,5 kW	3,6 kW	4,5 kW [1]	5,0 kW	6,0 kW
P. 234	PACi NX wall-mounted · R32	S-2545PK4E	S-2545PK4E	S-2545PK4E	S-5010PK4E	S-5010PK4E
P. 238	PACi NX 4 way 60x60 cassette · R32	S-25PY3E	S-36PY3E		S-50PY3E	S-60PY3E
P. 240	PACi NX 4 way 90x90 cassette · R32		S-3650PU3E	S-3650PU3E	S-3650PU3E	S-6071PU3E
P. 244	PACi NX ceiling · R32		S-3650PT3E	S-3650PT3E	S-3650PT3E	S-6071PT3E
P. 248	PACi NX adaptive ducted · R32		S-3650PF3E	S-3650PF3E	S-3650PF3E	S-6071PF3E
P. 252	NEW! PACi NX multi zone duct · R32					
P. 254	Big PACi NX high static pressure hide-away 20-25 kW · R32					
P. 255	NEW! PACi NX Jet Air Stream · R32					
P. 269	Wall-mounted Professional YKEA · R32 [2]	CS-Z25YKEA-1	CS-Z35YKEA-1	CS-Z42YKEA-1	CS-Z50YKEA-1	
P. 271	NEW! P Series – Perimetral · R32					

Outdoor units	2,5 kW	3,6 kW	5,0 kW	6,0 kW
PACi NX Elite · R32 Big PACi NX (20,0-25,0 kW) · R32		U-36PZH3E5	U-50PZH3E5	U-60PZH3E5
PACi NX Standard · R32	U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A

1) The 4,5 kW indoor capacity options are only available only for twin, triple and double-twin combinations. 2) Not compatible with PACi NX outdoors and accessories. Domestic range sales conditions may apply. Check with your sales representative. *U-__E5 Single phase / U-__E8 Three phase.

OPTIONAL UNITS ON VENTILATION SECTION

7,1 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
S-5010PK4E	S-5010PK4E				
				A new panel in graphite black (RAL9011) is available.	
S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	A panel in graphite black (RAL9011) is available.	
S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E		
S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E		
S-7110PQ41E	S-7110PQ41E	S-1014PQ51E	S-1014PQ51E		
				S-200PE4E	S-250PE4E
			P-VTVF140MC5A-PE / P-VTVF140NC5A-PE / P-VTVF140PC5A-PE		P-VTVF250MC5A-PE / P-VTVF250NC5A-PE / P-VTVF250PC5A-PE
CS-Z71YKEA-1					
T-UPZ/OPZ 0071	T-UPZ/OPZ 0111	T-UPZ/OPZ 0121	T-UPZ/OPZ 0141		T-UPZ/OPZ 0211

7,1 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
U-71PZH4E5 / U-71PZH4E8	U-100PZH4E5 / U-100PZH4E8	U-125PZH4E5 / U-125PZH4E8	U-140PZH4E5 / U-140PZH4E8	U-200PZH4E8	U-250PZH4E8
U-71PZ3E5A	U-100PZ3E5 / U-100PZ3E8	U-125PZ3E5 / U-125PZ3E8	U-140PZ3E5 / U-140PZ3E8		

PACi NX Series Elite wall-mounted - PK4 · R32

The wall-mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.
The compact design and flat face ensure discreet installation, even in a small space.

nanoe™ X as a standard.

			Single phase				
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW
Kit			**KIT-36PK4ZH5**	**KIT-50PK4ZH5**	**KIT-60PK4ZH5**	**KIT-71PK4ZH45**	**KIT-100PK4ZH45**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	3,5 (1,2 - 4,0)	5,0 (1,2 - 5,6)	6,1 (1,2 - 7,1)	7,1 (2,2 - 9,0)	9,5 (3,1 - 10,5)
EER [1]	Nominal (Min - Max)	W/W	4,43 (4,17 - 5,45)	4,10 (3,03 - 5,45)	3,74 (3,02 - 5,45)	3,76 (2,69 - 5,79)	3,41 (3,09 - 5,34)
SEER [2]			**7,7 A++**	**8,0 A++**	**7,1 A++**	**6,6 A++**	**6,6 A++**
Pdesign		kW	3,5	5,0	6,1	7,1	9,5
Input power	Nominal (Min - Max)	kW	0,79 (0,22 - 0,96)	1,22 (0,22 - 1,85)	1,63 (0,22 - 2,35)	1,89 (0,38 - 3,35)	2,79 (0,58 - 3,40)
Annual energy consumption [3]		kWh/a	160	219	301	377	504
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 8,0)	7,8 (2,0 - 9,0)	9,5 (3,1 - 11,5)
Heating capacity at -15 °C [4]	Max	kW	3,4	5,0	5,1	5,8	8,9
COP [1]	Nominal (Min - Max)	W/W	4,26 (3,33 - 5,45)	4,03 (3,10 - 5,45)	4,12 (3,40 - 5,45)	4,00 (3,16 - 5,56)	3,89 (3,00 - 5,34)
SCOP [2]			**4,7 A++**	**4,6 A++**	**4,7 A++**	**4,6 A++**	**4,1 A+**
Pdesign at -10 °C		kW	3,1	4,5	4,6	5,2	8,0
Input power	Nominal (Min - Max)	kW	0,94 (0,22 - 1,50)	1,39 (0,22 - 2,10)	1,70 (0,22 - 2,35)	1,95 (0,36 - 2,85)	2,44 (0,58 - 3,83)
Annual energy consumption [3]		kWh/a	924	1369	1370	1583	2731
Indoor unit			**S-2545PK4E**	**S-5010PK4E**	**S-5010PK4E**	**S-5010PK4E**	**S-5010PK4E**
Air flow	Hi / Med / Lo	m³/min	11,5 / 9,5 / 7,0	17,0 / 15,5 / 12,0	21,0 / 19,0 / 16,5	21,0 / 19,0 / 16,5	22,5 / 20,0 / 17,5
Moisture removal volume		L/h	1,0	1,6	1,9	2,4	4,4
Sound pressure [5]	Hi / Med / Lo	dB(A)	41 / 36 / 30	41 / 36 / 31	47 / 44 / 40	47 / 44 / 40	49 / 45 / 41
Sound power	Hi / Med / Lo	dB(A)	57 / 52 / 46	57 / 52 / 47	63 / 60 / 56	63 / 60 / 56	65 / 61 / 57
Dimension	H x W x D	mm	290 x 765 x 214	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249
Net weight		kg	9	14	14	14	14
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Outdoor unit			**U-36PZH3E5**	**U-50PZH3E5**	**U-60PZH3E5**	**U-71PZH4E5**	**U-100PZH4E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,90 - 3,75 - 3,60	5,80 - 5,55 - 5,30	7,65 - 7,30 - 7,00	9,55 - 9,15 - 8,75	13,80 - 13,20 - 12,60
	Heat	A	4,60 - 4,40 - 4,20	6,60 - 6,30 - 6,05	7,90 - 7,55 - 7,25	9,85 - 9,40 - 9,05	12,10 - 11,50 - 11,10
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	62,0 / 66,0	76,0 / 70,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50	48 / 50	52 / 52
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69	65 / 67	69 / 69
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370
Net weight		kg	42	42	43	66	84
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35) [6]	1/4 (6,35) [6]	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70) [7]	1/2 (12,70) [7]	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 60	5 ~ 100
Elevation difference (in / out) [8]		m	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30	30
Additional gas amount		g/m	15	15	15	30	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	2,70 / 1,82
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +52	-20 [9] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Technical focus

- Modern, flat design with a stylish matte white finish featuring
- DC fan motor for better efficiency and control
- Five-direction automatic air flow adjustment for cooling and heating
- Six directional piping outlet
- Quiet operation
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

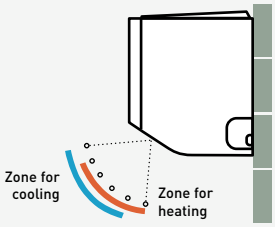
Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making the installation work more flexible.

Air distribution is automatically altered depending on the operational mode of the unit



CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW2

CONEX wired remote controller, black. CZ-RTC6/BL/BLW2

Infrared remote controller. CZ-RWS3

Econavi sensor. CZ-CENSC1

			Three phase	
			7,1 kW	10,0 kW
Kit			**KIT-71PK4ZH48**	**KIT-100PK4ZH48**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	7,1 (2,2 - 9,0)	9,5 (3,1 - 10,5)
EER [1]	Nominal (Min - Max)	W/W	3,76 (2,69 - 5,79)	3,41 (3,09 - 5,34)
SEER [2]			**6,6 A++**	**6,6 A++**
Pdesign		kW	7,1	9,5
Input power	Nominal (Min - Max)	kW	1,89 (0,38 - 3,35)	2,79 (0,58 - 3,40)
Annual energy consumption [3]		kWh/a	377	504
Heating capacity	Nominal (Min - Max)	kW	7,8 (2,0 - 9,0)	9,5 (3,1 - 11,5)
Heating capacity at -15 °C [4]	Max	kW	5,8	8,9
COP [1]	Nominal (Min - Max)	W/W	4,00 (3,16 - 5,56)	3,89 (3,00 - 5,34)
SCOP [2]			**4,6 A++**	**4,1 A+**
Pdesign at -10 °C		kW	5,2	8,0
Input power	Nominal (Min - Max)	kW	1,95 (0,36 - 2,85)	2,44 (0,58 - 3,83)
Annual energy consumption [3]		kWh/a	1583	2731
Indoor unit			**S-5010PK4E**	**S-5010PK4E**
Air flow	Hi / Med / Lo	m³/min	21,0 / 19,0 / 16,5	22,5 / 20,0 / 17,5
Moisture removal volume		L/h	2,4	4,4
Sound pressure [5]	Hi / Med / Lo	dB(A)	47 / 44 / 40	49 / 45 / 41
Sound power	Hi / Med / Lo	dB(A)	63 / 60 / 56	65 / 61 / 57
Dimension	H x W x D	mm	295 x 1060 x 249	295 x 1060 x 249
Net weight		kg	14	14
nanoe X Generator			Mark 3	Mark 3
Outdoor unit			**U-71PZH4E8**	**U-100PZH4E8**
Power supply		V	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	3,20 - 3,05 - 3,00	4,65 - 4,45 - 4,20
	Heat	A	3,30 - 3,15 - 3,00	4,05 - 3,85 - 3,70
Air flow	Cool / Heat	m³/min	62,0 / 66,0	76,0 / 70,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48 / 50	52 / 52
Sound power	Cool / Heat (Hi)	dB(A)	65 / 67	69 / 69
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370
Net weight		kg	66	82
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 60	5 ~ 100
Elevation difference (in / out) [8]		m	15 / 30	15 / 30
Pre-charged pipe length		m	30	30
Additional gas amount		g/m	30	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	2,70 / 1,82
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [9] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The value is based on the interpolation. 5) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. 9) Pipe length up to 30 m. *Recommended fuse for the indoor 3 A. **Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3	Infrared remote controller

Accessories	
CZ-CAPWFC2	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor

R32 REFRIGERANT | A++ 8,0 SEER | A++ 4,7 SCOP | INVERTER+ | -15 °C COOLING MODE | -20 °C HEATING MODE | nanoeX | DC FAN | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER: For S-5010PK4E + U-50PZH3E5. SCOP: For S-2545PK4E + U-36PZH3E5 and S-5010PK4E + U-60PZH3E5. INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi NX Series Standard wall-mounted - PK4 · R32

The wall-mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.
The compact design and flat face ensure discreet installation, even in a small space.

nanoe™ X as a standard.

			Single phase					
			2,5 kW	3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW
Kit			**KIT-25PK4Z5**	**KIT-36PK4Z5**	**KIT-50PK4Z5**	**KIT-60PK4Z5**	**KIT-71PK4Z5**	**KIT-100PK4Z5**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	2,5 (1,3 - 3,9)	3,5 (1,3 - 4,0)	5,0 (1,5 - 5,6)	6,1 (2,0 - 7,1)	6,9 (2,6 - 7,7)	9,0 (3,0 - 9,7)
EER [1]	Nominal (Min - Max)	W/W	4,39 (3,68 - 5,00)	3,89 (3,74 - 5,00)	3,40 (3,03 - 6,25)	3,57 (3,01 - 6,90)	3,29 (2,77 - 5,00)	3,23 (3,13 - 5,36)
SEER [2]			**6,6 A++**	**6,8 A++**	**7,2 A++**	**7,0 A++**	**6,0 A+**	**6,2 A++**
Pdesign		kW	2,5	3,5	5,0	6,1	6,9	9,0
Input power	Nominal (Min - Max)	kW	0,57 (0,26 - 1,06)	0,90 (0,26 - 1,07)	1,47 (0,24 - 1,85)	1,71 (0,29 - 2,36)	2,10 (0,52 - 2,78)	2,79 (0,56 - 3,10)
Annual energy consumption [3]		kWh/a	133	181	243	305	402	508
Heating capacity	Nominal (Min - Max)	kW	2,8 (1,3 - 4,6)	3,6 (1,3 - 4,6)	5,0 (1,5 - 6,4)	6,1 (1,8 - 7,0)	7,1 (2,1 - 8,1)	9,0 (3,0 - 10,5)
Heating capacity at -15 °C [4]	Max	kW	2,8	2,9	4,4	5,1	5,8	9,7
COP [1]	Nominal (Min - Max)	W/W	4,52 (3,54 - 5,65)	4,09 (3,54 - 5,65)	4,20 (3,17 - 7,50)	4,27 (3,18 - 7,50)	4,10 (3,38 - 6,36)	3,81 (3,56 - 5,36)
SCOP [2]			**4,2 A+**	**4,4 A+**	**4,4 A+**	**4,6 A++**	**4,4 A+**	**4,0 A+**
Pdesign at -10 °C		kW	2,5	2,6	4,0	4,6	5,2	8,8
Input power	Nominal (Min - Max)	kW	0,62 (0,23 - 1,30)	0,88 (0,23 - 1,30)	1,19 (0,20 - 2,02)	1,43 (0,24 - 2,20)	1,73 (0,33 - 2,40)	2,36 (0,56 - 2,95)
Annual energy consumption [3]		kWh/a	833	827	1271	1400	1654	3080
Indoor unit			**S-2545PK4E**	**S-2545PK4E**	**S-5010PK4E**	**S-5010PK4E**	**S-5010PK4E**	**S-5010PK4E**
Air flow	Hi / Med / Lo	m³/min	10,5 / 9,0 / 7,0	11,5 / 9,5 / 7,0	17,0 / 15,5 / 12,0	21,0 / 19,0 / 16,5	21,0 / 19,0 / 16,5	22,5 / 20,0 / 17,5
Moisture removal volume		L/h	0,4	1,0	1,6	1,9	2,2	4,0
Sound pressure [5]	Hi / Med / Lo	dB(A)	39 / 34 / 29	41 / 36 / 30	41 / 36 / 31	47 / 44 / 40	47 / 44 / 40	49 / 45 / 41
Sound power	Hi / Med / Lo	dB(A)	55 / 50 / 45	57 / 52 / 46	57 / 52 / 47	63 / 60 / 56	63 / 60 / 56	65 / 61 / 57
Dimension	H x W x D	mm	290 x 765 x 214	290 x 765 x 214	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249
Net weight		kg	9	9	14	14	14	14
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Outdoor unit			**U-25PZ3E5**	**U-36PZ3E5**	**U-50PZ3E5**	**U-60PZ3E5A**	**U-71PZ3E5A**	**U-100PZ3E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	2,70 - 2,60 - 2,45	4,15 - 4,00 - 3,85	6,80 - 6,50 - 6,25	7,95 - 7,60 - 7,25	9,75 - 9,30 - 8,95	13,9 - 13,3 - 12,8
	Heat	A	2,90 - 2,80 - 2,65	4,10 - 3,95 - 3,80	5,60 - 5,35 - 5,10	6,65 - 6,35 - 6,10	8,00 - 7,70 - 7,35	11,8 - 11,3 - 10,8
Air flow	Cool / Heat	m³/min	33,6 / 34,0	33,6 / 34,0	32,7 / 31,9	42,6 / 41,5	44,7 / 45,9	73,0 / 73,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46 / 47	46 / 47	46 / 46	47 / 48	48 / 49	52 / 52
Sound power	Cool / Heat (Hi)	dB(A)	64 / 66	64 / 66	64 / 64	64 / 65	66 / 68	70 / 70
Dimension	H x W x D	mm	619 x 824 x 299	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370
Net weight		kg	32	32	35	42	50	83
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [6]	1/4 (6,35) [6]	1/4 (6,35) [6]	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [7]	1/2 (12,70) [7]	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 20	3 ~ 40	3 ~ 40	5 ~ 50
Elevation difference (in / out) [8]		m	15 / 15	15 / 15	15 / 15	15 / 30	20 / 30	15 / 30
Pre-charged pipe length		m	7,5	7,5	7,5	30	30	30
Additional gas amount		g/m	10	10	15	15	17	45
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,4 / 1,62
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Technical focus

- Modern, flat design with a stylish matte white finish featuring
- DC fan motor for better efficiency and control
- Five-direction automatic air flow adjustment for cooling and heating
- Six directional piping outlet
- Quiet operation
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

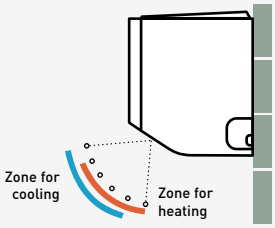
Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making the installation work more flexible.

Air distribution is automatically altered depending on the operational mode of the unit



CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW2

CONEX wired remote controller, black. CZ-RTC6/BL/BLW2

Infrared remote controller. CZ-RWS3

Econavi sensor. CZ-CENSC1

			Three phase
			10,0 kW
Kit			**KIT-100PK4Z8**
Remote controller			**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	9,0 (3,0 - 9,7)
EER [1]	Nominal (Min - Max)	W/W	3,23 (3,13 - 5,36)
SEER [2]			**6,2 A++**
Pdesign		kW	9,0
Input power	Nominal (Min - Max)	kW	2,79 (0,56 - 3,10)
Annual energy consumption [3]		kWh/a	508
Heating capacity	Nominal (Min - Max)	kW	9,0 (3,0 - 10,5)
Heating capacity at -15 °C [4]	Max	kW	9,7
COP [1]	Nominal (Min - Max)	W/W	3,81 (3,56 - 5,36)
SCOP [2]			**4,0 A+**
Pdesign at -10 °C		kW	8,8
Input power	Nominal (Min - Max)	kW	2,36 (0,56 - 2,95)
Annual energy consumption [3]		kWh/a	3080
Indoor unit			**S-5010PK4E**
Air flow	Hi / Med / Lo	m³/min	22,5 / 20,0 / 17,5
Moisture removal volume		L/h	4,0
Sound pressure [5]	Hi / Med / Lo	dB(A)	49 / 45 / 41
Sound power	Hi / Med / Lo	dB(A)	65 / 61 / 57
Dimension	H x W x D	mm	295 x 1060 x 249
Net weight		kg	14
nanoe X Generator			Mark 3
Outdoor unit			**U-100PZ3E8**
Power supply		V	380 - 400 - 415
Current	Cool	A	4,65 - 4,45 - 4,25
	Heat	A	3,95 - 3,75 - 3,60
Air flow	Cool / Heat	m³/min	73,0 / 73,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70
Dimension	H x W x D	mm	996 x 980 x 370
Net weight		kg	83
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)
Pipe length range		m	5 ~ 50
Elevation difference (in / out) [8]		m	15 / 30
Pre-charged pipe length		m	30
Additional gas amount		g/m	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,4 / 1,62
Operating range	Cool Min ~ Max	°C	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The value is based on the interpolation. 5) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. *Recommended fuse for the indoor 3 A. **Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3	Infrared remote controller

Accessories	
CZ-CAPWFC2	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor

R32 REFRIGERANT | A++ 7,2 SEER | A++ 4,6 SCOP | INVERTER+ | -10 °C COOLING MODE | -15 °C HEATING MODE | nanoeX | DC FAN | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER: For S-5010PK4E + U-50PZ3E5. SCOP: For S-5010PK4E + U-60PZ3E5A. INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi NX Series Elite and Standard 4 way 60x60 cassette - PY3 · R32

· From 2,5 to 6,0 kW (4 capacity sizes)
· Maximum SEER: 7,3 A++ / SCOP: 4,7 A++*
· Built-in drain pump
· DC drain pump and float switch to reduce the noise
· nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality

*For Elite 3,6 KW model.

nanoe™ X as a standard.

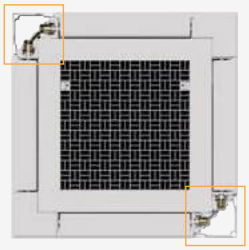
Elite				Single phase	
			3,6 kW	5,0 kW	6,0 kW
Kit			**KIT-36PY3ZH5**	**KIT-50PY3ZH5**	**KIT-60PY3ZH5**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,2 - 4,0)	5,0 (1,2 - 5,6)	6,0 (1,2 - 6,5)
EER [1]	Nominal (Min - Max)	W/W	4,50 (4,04 - 5,45)	3,76 (3,41 - 5,45)	3,43 (2,77 - 5,45)
SEER [2]			**7,3 A++**	**7,0 A++**	**6,7 A++**
Pdesign		kW	3,6	5,0	6,0
Input power	Nominal (Min - Max)	kW	0,80 (0,22 - 0,99)	1,33 (0,22 - 1,64)	1,75 (0,20 - 2,35)
Annual energy consumption [3]		kWh/a	400	685	875
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 7,5)
Heating capacity at -15 °C [4]	Max	kW	3,2	4,1	4,8
COP [1]	Nominal (Min - Max)	W/W	4,12 (3,45 - 5,45)	3,37 (2,95 - 5,45)	3,35 (3,38 - 5,45)
SCOP [2]			**4,7 A++**	**4,6 A++**	**4,3 A+**
Pdesign at -10 °C		kW	3,6	4,5	4,6
Input power	Nominal (Min - Max)	kW	0,97 (0,22 - 1,45)	1,66 (0,22 - 2,20)	2,09 (0,22 - 2,22)
Annual energy consumption [3]		kWh/a	1073	1370	1495
Indoor unit			**S-36PY3E**	**S-50PY3E**	**S-60PY3E**
Air flow	Hi / Med / Lo	m³/min	9,5 / 7,5 / 6,0	12,0 / 9,5 / 6,5	14,0 / 10,5 / 8,0
Moisture removal volume		L/h	1,5	2,5	2,8
Sound pressure [5]	Hi / Med / Lo	dB(A)	34 / 30 / 25	39 / 34 / 27	43 / 37 / 31
Sound power	Hi / Med / Lo	dB(A)	49 / 45 / 40	54 / 49 / 42	58 / 52 / 46
Dimension	Indoor (H x W x D)	mm	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575
	Panel (H x W x D)	mm	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625
Net weight	Indoor / Panel	kg	15 / 2,8	15 / 2,8	15 / 2,8
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			**U-36PZH3E5**	**U-50PZH3E5**	**U-60PZH3E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,95 - 3,60 - 3,60	5,30 - 5,00 - 5,75	8,20 - 7,85 - 7,60
	Heat	A	4,75 - 4,55 - 4,35	7,85 - 7,50 - 7,20	9,70 - 9,25 - 8,90
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320
Net weight		kg	42	42	43
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [6]
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [7]
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40
Elevation difference (in / out) [8]		m	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30
Additional gas amount		g/m	15	15	15
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24

Compact and stylish design

· Required ceiling depth of only 250 mm
· Exposed area is only 30 mm

Individual flap control

Better control of the air flow with 4 motors, providing individual flap control.
Perfect air distribution without direct air flow, to reduce the feeling of cold drafts.



R32 REFRIGERANT | A++ 7,3 SEER | A++ 4,7 SCOP | 28% ECONAVI | INVERTER+ | -15 °C COOLING MODE | -20 °C HEATING MODE | nanoeX | DC FAN | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For S-36PY3E + U-36PZH3E5. ECONAVI and INTERNET CONTROL: Optional.

CZ-RTC5B

Panel (sold separately):

White (RAL9003):
CZ-KPY4W

Graphite black (RAL9011)
CZ-KPY4B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional:

CONEX wired remote controller, white.
CZ-RTC6W/ BL/BLW2

CONEX wired remote controller, black.
CZ-RTC6/BL/ BLW2

Infrared remote controller.
CZ-RWS3 + CZ-RWRY3W

Econavi sensor.
CZ-CENSC1

Standard			Single phase			
			2,5 kW	3,6 kW	5,0 kW	6,0 kW
Kit			**KIT-25PY3Z5**	**KIT-36PY3Z5**	**KIT-50PY3Z5**	**KIT-60PY3Z5**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	2,5 (1,5 - 3,9)	3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)	6,0 (2,0 - 7,0)
EER [1]	Nominal (Min - Max)	W/W	4,46 (3,55 - 5,88)	3,96 (3,57 - 5,88)	3,50 (3,03 - 6,25)	3,39 (2,77 - 6,90)
SEER [2]			**6,5 A++**	**6,7 A++**	**7,3 A++**	**6,8 A++**
Pdesign		kW	2,5	3,6	5,0	6,0
Input power	Nominal (Min - Max)	kW	0,56 (0,26 - 1,10)	0,91 (0,26 - 1,12)	1,43 (0,24 - 1,85)	1,77 (0,29 - 2,53)
Annual energy consumption [3]		kWh/a	134	188	238	3,05
Heating capacity	Nominal (Min - Max)	kW	3,2 (1,5 - 4,6)	3,6 (1,5 - 4,6)	5,0 (1,5 - 6,4)	6,0 (1,8 - 7,0)
Heating capacity at -15 °C [4]	Max	kW	2,6	2,6	3,7	4,7
COP [1]	Nominal (Min - Max)	W/W	4,44 (3,41 - 6,52)	4,29 (3,38 - 6,52)	3,94 (2,91 - 7,50)	3,61 (2,86 - 7,60)
SCOP [2]			**4,6 A++**	**4,3 A+**	**4,4 A+**	**4,2 A+**
Pdesign at -10 °C		kW	2,8	2,8	4,0	4,6
Input power	Nominal (Min - Max)	kW	0,72 (0,23 - 1,35)	0,84 (0,23 - 1,36)	1,27 (0,20 - 2,20)	1,66 (0,24 - 2,45)
Annual energy consumption [3]		kWh/a	850	912	1264	1500
Indoor unit			**S-25PY3E**	**S-36PY3E**	**S-50PY3E**	**S-60PY3E**
Air flow	Hi / Med / Lo	m^3/min	8,5 / 7,0 / 6,0	9,5 / 7,0 / 6,0	12,0 / 9,5 / 6,5	14,0 / 10,5 / 8,0
Moisture removal volume		L/h	0,7	1,5	2,3	2,8
Sound pressure [5]	Hi / Med / Lo	dB(A)	31 / 28 / 25	34 / 30 / 25	39 / 34 / 27	43 / 37 / 31
Sound power	Hi / Med / Lo	dB(A)	46 / 43 / 40	49 / 45 / 40	54 / 49 / 42	58 / 52 / 46
Dimension	Indoor (H x W x D)	mm	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575
	Panel (H x W x D)	mm	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625
Net weight	Indoor / Panel	kg	15 / 2,8	15 / 2,8	15 / 2,8	15 / 2,8
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-25PZ3E5**	**U-36PZ3E5**	**U-50PZ3E5**	**U-60PZ3E5A**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	2,65 - 2,55 - 2,45	4,20 - 4,05 - 3,85	6,65 - 6,35 - 6,10	8,20 - 7,85 - 7,55
	Heat	A	3,40 - 3,25 - 3,10	3,95 - 3,75 - 3,60	5,695 - 5,70 - 5,45	7,70 - 7,35 - 7,05
Air flow	Cool / Heat	m^3/min	33,6 / 34,0	32,6 / 34,0	32,7 / 31,9	42,6 / 41,5
Sound pressure	Cool / Heat (Hi)	dB(A)	46 / 47	46 / 47	46 / 48	47 / 48
Sound power	Cool / Heat (Hi)	dB(A)	64 / 66	64 / 66	64 / 64	64 / 65
Dimension	H x W x D	mm	619 x 824 x 299	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320
Net weight		kg	32	32	35	46
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [5]
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [6]
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 20	3 ~ 40
Elevation difference (in / out) [8]		m	15 / 15	15 / 15	15 / 15	15 / 30
Pre-charged pipe length		m	7,5	7,5	7,5	30
Additional gas amount		g/m	10	10	15	15
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The value is based on the interpolation. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. *Recommended fuse for the indoor 3 A. **Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRY3W	Infrared remote controller and receiver
CZ-CAPWFC2	Commercial Wi-Fi Adaptor

Accessories	
CZ-KPY4W	NEW! Panel for 4 way 60x60 cassette, white (RAL9003)
CZ-KPY4B*	NEW! Panel for 4 way 60x60 cassette, graphite black (RAL9011)
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor

*Available in Autumn 2026.

R32 REFRIGERANT | A++ 7,3 SEER | A++ 4,6 SCOP | 28% ECONAVI | INVERTER+ | -10 °C COOLING MODE | -15 °C HEATING MODE | nanoeX | DC FAN | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER: For S-50PY3E + U-50PZ3E5. SCOP: For S-25PY3E + U-25PZ3E5. ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi NX Series Elite 4 way 90x90 cassette - PU3 · R32

4 way 90x90 cassette - PU3.

Powerful turbo fan and intelligent Econavi sensor ensure high energy efficiency, and nanoe™ X, which is equipped as standard, provides an exceptional level of indoor air quality.

nanoe™ X as a standard.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-36PU3ZH5**	**KIT-50PU3ZH5**	**KIT-60PU3ZH5**	**KIT-71PU3ZH45**	**KIT-100PU3ZH45**	**KIT-125PU3ZH45**	**KIT-140PU3ZH45**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nom (Min - Max)	kW	3,6 (1,2 - 4,0)	5,0 (1,2 - 5,6)	6,0 (1,2 - 7,1)	7,1 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,5 (3,2 - 14,0)	13,4 (3,3 - 16,0)
EER [1]	Nom (Min - Max)	W/W	5,45 (4,60 - 5,45)	4,31 (3,86 - 5,45)	4,05 (3,02 - 5,45)	4,06 (2,69 - 5,79)	4,42 (3,42 - 5,34)	3,80 (3,08 - 5,33)	3,60 (2,74 - 5,32)
SEER / $\eta_{s,c}$ [2]			**8,9 A+++**	**8,6 A+++**	**8,0 A++**	**7,7 A++**	**7,8 A++**	**304,3%**	**286,6%**
Pdesign		kW	3,6	5,0	6,0	7,1	9,5	12,5	13,4
Input power	Nom (Min - Max)	kW	0,66 (0,22 - 0,87)	1,16 (0,22 - 1,45)	1,48 (0,22 - 2,35)	1,75 (0,38 - 3,35)	2,15 (0,58 - 3,65)	3,29 (0,60 - 4,55)	3,72 (0,62 - 5,85)
Annual energy consumption [3]		kWh/a	142	203	263	323	426	—	—
Heating capacity	Nom (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 8,0)	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)
Heating capacity at -15 °C [4]	Max	kW	3,2	4,1	5,1	7,5	11,9	13,4	15,0
COP [1]	Nom (Min - Max)	W/W	5,41 (4,55 - 5,45)	4,24 (4,19 - 5,45)	4,02 (3,40 - 5,45)	4,30 (3,16 - 5,56)	5,00 (3,64 - 5,54)	4,61 (3,37 - 5,52)	4,30 (3,27 - 5,50)
SCOP / $\eta_{s,h}$ [2]			**5,1 A+++**	**4,9 A++**	**4,8 A++**	**4,8 A++**	**4,9 A++**	**186,0%**	**181,2%**
Pdesign at -10 °C		kW	3,6	4,5	4,7	5,2	8,0	9,5	10,6
Input power	Nom (Min - Max)	kW	0,74 (0,22 - 1,10)	1,32 (0,22 - 1,55)	1,74 (0,22 - 2,35)	1,86 (0,36 - 2,85)	2,24 (0,56 - 3,85)	3,04 (0,58 - 4,75)	3,72 (0,60 - 5,50)
Annual energy consumption [3]		kWh/a	988	1286	1371	1517	2286	—	—
Indoor unit			**S-3650PU3E**	**S-3650PU3E**	**S-6071PU3E**	**S-6071PU3E**	**S-1014PU3E**	**S-1014PU3E**	**S-1014PU3E**
Air flow	Hi / Med / Lo	m³/min	14,5 / 13,0 / 11,5	16,5 / 13,5 / 11,5	21,0 / 16,0 / 13,0	22,0 / 16,0 / 13,0	36,0 / 26,0 / 18,0	37,0 / 27,0 / 19,0	38,0 / 29,0 / 20,0
Moisture removal volume		L/h	0,7	1,6	1,7	2,5	1,9	4,8	4,9
Sound pressure [5]	Hi / Med / Lo	dB(A)	30 / 28 / 27	32 / 29 / 27	36 / 31 / 28	37 / 31 / 28	45 / 38 / 32	46 / 39 / 33	47 / 40 / 34
Sound power	Hi / Med / Lo	dB(A)	45 / 43 / 42	47 / 44 / 42	51 / 46 / 43	52 / 46 / 43	60 / 53 / 47	61 / 54 / 48	62 / 55 / 49
Dimension	Indoor (H x W x D)	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel (H x W x D)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight	Indoor / Panel	kg	19 / 5	19 / 5	20 / 5	20 / 5	25 / 5	25 / 5	25 / 5
nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1
Outdoor unit			**U-36PZH3E5**	**U-50PZH3E5**	**U-60PZH3E5**	**U-71PZH4E5**	**U-100PZH4E5**	**U-125PZH4E5**	**U-140PZH4E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,25 - 3,10 - 3,00	5,50 - 5,25 - 5,05	6,95 - 6,65 - 6,35	8,85 - 8,45 - 8,10	10,06 - 10,02 - 9,75	16,10 - 15,40 - 14,70	18,20 - 17,40 - 16,70
	Heat	A	3,60 - 3,45 - 3,30	6,25 - 6,00 - 5,75	8,05 - 7,70 - 7,40	9,40 - 9,00 - 8,60	10,90 - 10,60 - 10,10	14,90 - 14,20 - 13,60	18,20 - 17,40 - 16,70
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50	48 / 50	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69	65 / 67	69 / 69	73 / 73	74 / 74
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	42	42	43	66	84	86	86
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [6]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [7]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [8]		m	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	15	15	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +52	-20 [9] ~ +52	-20 [9] ~ +52	-20 [9] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Technical focus

- High performance turbo fan
- Econavi: An optional intelligent sensor to reduce waste of energy
- nanoe™ X (Generator Mark 1: 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X plus dry operation
- New graphite black and white panels providing options to suit a variety of light commercial applications
- Lower noise in low fan operation
- Light weight, easy piping and integrated drain pump for quick installation
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)

White and graphite black panels available for the 4 way 90x90 cassette.

Standard panel, white (RAL9003).
CZ-KPU3

Econavi panel, white (RAL9003).
CZ-KPU3A

Standard panel, graphite black (RAL9011).
CZ-KPU3B

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional:

CONEX wired remote controller, white. CZ-RTC6W/ BL/BLW2

CONEX wired remote controller, black. CZ-RTC6/BL/ BLW2

Infrared remote controller. CZ-RWS3 + CZ-RWRU3

			Three phase			
			7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-71PU3ZH48**	**KIT-100PU3ZH48**	**KIT-125PU3ZH48**	**KIT-140PU3ZH48**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	7,1 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,5 (3,2 - 14,0)	13,4 (3,3 - 16,0)
EER [1]	Nominal (Min - Max)	W/W	4,06 (2,69 - 5,79)	4,42 (3,42 - 5,34)	3,80 (3,08 - 5,33)	3,60 (2,74 - 5,32)
SEER / $\eta_{s,c}$ [2]			**7,7 A++**	**7,2 A++**	**303,0%**	**286,6%**
Pdesign		kW	7,1	9,5	12,5	13,4
Input power	Nominal (Min - Max)	kW	1,75 (0,38 - 3,35)	2,15 (0,58 - 3,65)	3,29 (0,60 - 4,55)	3,72 (0,62 - 5,85)
Annual energy consumption [3]		kWh/a	323	426	—	—
Heating capacity	Nominal (Min - Max)	kW	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)
Heating capacity at -15 °C [4]	Max	kW	7,5	11,9	13,4	15,0
COP [1]	Nominal (Min - Max)	W/W	4,30 (3,16 - 5,56)	5,00 (3,64 - 5,54)	4,61 (3,37 - 5,52)	4,30 (3,27 - 5,50)
SCOP / $\eta_{s,h}$ [2]			**4,8 A++**	**4,9 A++**	**186,0%**	**181,1%**
Pdesign at -10 °C		kW	5,2	8,0	9,5	10,6
Input power	Nominal (Min - Max)	kW	1,86 (0,36 - 2,85)	2,24 (0,56 - 3,85)	3,04 (0,58 - 4,75)	3,72 (0,60 - 5,50)
Annual energy consumption [3]		kWh/a	1517	2286	—	—
Indoor unit			**S-6071PU3E**	**S-1014PU3E**	**S-1014PU3E**	**S-1014PU3E**
Air flow	Hi / Med / Lo	m³/min	22,0 / 16,0 / 13,0	36,0 / 26,0 / 18,0	37,0 / 27,0 / 19,0	38,0 / 29,0 / 20,0
Moisture removal volume		L/h	2,5	1,9	4,8	4,9
Sound pressure [5]	Hi / Med / Lo	dB(A)	37 / 31 / 28	45 / 38 / 32	46 / 39 / 33	47 / 40 / 34
Sound power	Hi / Med / Lo	dB(A)	52 / 46 / 43	60 / 53 / 47	61 / 54 / 48	62 / 55 / 49
Dimension	Indoor (H x W x D)	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel (H x W x D)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight	Indoor / Panel	kg	20 / 5	25 / 5	25 / 5	25 / 5
nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1
Outdoor unit			**U-71PZH4E8**	**U-100PZH4E8**	**U-125PZH4E8**	**U-140PZH4E8**
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	2,95 - 2,80 - 2,70	3,60 - 3,40 - 3,25	5,45 - 5,15 - 5,00	6,15 - 5,85 - 5,65
	Heat	A	3,15 - 3,00 - 2,90	3,75 - 3,55 - 3,40	5,10 - 4,80 - 4,65	6,20 - 5,90 - 5,65
Air flow	Cool / Heat	m³/min	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48 / 50	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	65 / 67	69 / 69	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	66	82	84	84
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [8]		m	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30
Additional gas amount		g/m	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [9] ~ +52	-20 [9] ~ +52	-20 [9] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The value is based on the interpolation. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. 9) Pipe length up to 30 m. *Recommended fuse for the indoor 3 A. **Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRU3	Infrared remote controller and receiver
CZ-CAPWFC2	Commercial Wi-Fi Adaptor

Accessories	
CZ-KPU3A	Econavi exclusive panel, white (RAL9003)
CZ-KPU3B	NEW Standard panel, graphite black (RAL9011)
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-FDU3+CZ-ATU2	Fresh air-intake kit

SEER and SCOP: For S-3650PU3E + U-36PZH3E5. ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi NX Series Standard 4 way 90x90 cassette - PU3 · R32

4 way 90x90 cassette - PU3.

Powerful turbo fan and intelligent Econavi sensor ensure high energy efficiency, and nanoe™ X, which is equipped as standard, provides an exceptional level of indoor air quality.

nanoe™ X as a standard.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-36PU3Z5**	**KIT-50PU3Z5**	**KIT-60PU3Z5**	**KIT-71PU3Z5**	**KIT-100PU3Z5**	**KIT-125PU3Z5**	**KIT-140PU3Z5**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nom (Min - Max)	kW	3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)	6,0 (2,0 - 7,1)	7,1 (2,6 - 7,7)	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER [1]	Nom (Min - Max)	W/W	4,34 (5,88-3,81)	3,91 (6,25-3,20)	3,73 (6,90-3,01)	3,27 (5,00-2,77)	3,82 (2,88 - 5,36)	3,58 (2,81 - 5,33)	3,23 (2,73 - 5,32)
SEER / $\eta_{s,c}$ [2]			**8,1 A++**	**8,0 A++**	**7,8 A++**	**6,8 A++**	**6,8 A++**	**267,0%**	**257,0%**
Pdesign		kW	3,6	5,0	6,0	7,1	10,0	12,5	14,0
Input power	Nom (Min - Max)	kW	0,83 (0,25-1,05)	1,28 (0,24-1,75)	1,61 (0,29-2,36)	2,17 (0,52-2,78)	2,62 (0,56 - 4,00)	3,49 (0,60 - 4,80)	4,34 (0,62 - 5,50)
Annual energy consumption [3]		kWh/a	156	219	269	365	515	—	—
Heating capacity	Nom (Min - Max)	kW	3,6 (1,5 - 4,6)	5,0 (1,5 - 6,4)	6,0 (1,8 - 7,0)	7,1 (2,1 - 8,1)	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
Heating capacity at -15 °C [4]	Max	kW	2,7	3,7	4,7	4,8	8,2	10,5	10,8
COP [1]	Nom (Min - Max)	W/W	5,07 (4,32 - 6,52)	4,63 (3,48 - 7,50)	4,48 (3,18 - 7,50)	4,23 (3,38 - 6,36)	4,93 (3,59 - 5,36)	4,43 (3,57 - 5,50)	4,18 (3,33 - 5,48)
SCOP / $\eta_{s,h}$ [2]			**4,8 A++**	**4,7 A++**	**4,9 A++**	**4,6 A++**	**4,4 A+**	**157,0%**	**152,2%**
Pdesign at -10 °C		kW	2,8	4,0	4,6	5,2	10,0	12,5	14,0 (at -7 °C)
Input power	Nom (Min - Max)	kW	0,71 (0,23-1,06)	1,08 (0,20-1,84)	1,34 (0,24-2,20)	1,68 (0,33-2,40)	2,03 (0,56 - 3,90)	2,82 (0,60 - 4,20)	3,35 (0,62 - 4,80)
Annual energy consumption [3]		kWh/a	817	1191	1314	1583	3182	—	—
Indoor unit			**S-3650PU3E**	**S-3650PU3E**	**S-6071PU3E**	**S-6071PU3E**	**S-1014PU3E**	**S-1014PU3E**	**S-1014PU3E**
Air flow	Hi / Med / Lo	m³/min	14,5 / 13,0 / 11,5	16,5 / 13,5 / 11,5	21,0 / 16,0 / 13,0	22,0 / 16,0 / 13,0	36,0 / 26,0 / 18,0	37,0 / 27,0 / 19,0	38,0 / 29,0 / 20,0
Moisture removal volume		L/h	0,7	1,6	1,7	2,5	2,7	4,8	6,0
Sound pressure [5]	Hi / Med / Lo	dB(A)	30 / 28 / 27	32 / 29 / 27	36 / 31 / 28	37 / 31 / 28	45 / 38 / 32	46 / 39 / 33	47 / 40 / 34
Sound power	Hi / Med / Lo	dB(A)	45 / 43 / 42	47 / 44 / 42	51 / 46 / 43	52 / 46 / 43	60 / 53 / 47	61 / 54 / 48	62 / 55 / 49
Dimension	Indoor (H x W x D)	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel (H x W x D)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight	Indoor / Panel	kg	19 / 5	19 / 5	20 / 5	20 / 5	25 / 5	25 / 5	25 / 5
nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1
Outdoor unit			**U-36PZ3E5**	**U-50PZ3E5**	**U-60PZ3E5A**	**U-71PZ3E5A**	**U-100PZ3E5**	**U-125PZ3E5**	**U-140PZ3E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,85 - 3,70 - 3,55	5,95 - 5,70 - 5,45	7,45 - 7,15 - 6,85	10,00 - 9,65 - 9,25	13,10-12,50-12,00	16,90-16,10-15,40	21,00-20,00-19,20
	Heat	A	3,35 - 3,20 - 3,05	5,05 - 4,85 - 4,65	6,20 - 5,95 - 5,70	7,80 - 7,45 - 7,15	10,10 - 9,70 - 9,30	13,60-13,00-12,50	16,20-15,50-14,80
Air flow	Cool / Heat	m³/min	33,6 / 34,0	32,7 / 31,9	42,6 / 41,5	44,7 / 45,9	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46 / 47	46 / 46	47 / 48	48 / 49	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	64 / 66	64 / 64	64 / 65	66 / 68	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	32	35	42	50	83	87	87
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [6]	1/4 (6,35) [6]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [7]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 20	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) [8]		m	15 / 15	15 / 15	15 / 30	20 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	7,5	7,5	30	30	30	30	30
Additional gas amount		g/m	10	15	15	17	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Technical focus

- High performance turbo fan
- Econavi: An optional intelligent sensor to reduce waste of energy
- nanoe™ X (Generator Mark 1: 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X plus dry operation
- New graphite black and white panels providing options to suit a variety of light commercial applications
- Lower noise in low fan operation
- Light weight, easy piping and integrated drain pump for quick installation
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)

White and graphite black panels available for the 4 way 90x90 cassette.

Standard panel, white (RAL9003).
CZ-KPU3

Econavi panel, white (RAL9003).
CZ-KPU3A

Standard panel, graphite black (RAL9011).
CZ-KPU3B

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional:

CONEX wired remote controller, white. CZ-RTC6W/ BL/BLW2

CONEX wired remote controller, black. CZ-RTC6/BL/ BLW2

Infrared remote controller. CZ-RWS3 + CZ-RWRU3

				Three phase	
			10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-100PU3Z8**	**KIT-125PU3Z8**	**KIT-140PU3Z8**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER [1]	Nominal (Min - Max)	W/W	3,82 (2,88 - 5,36)	3,58 (2,81 - 5,33)	3,23 (2,73 - 5,32)
SEER / $\eta_{s,c}$ [2]			**6,7 A++**	**265,8%**	**256,2%**
Pdesign		kW	10,0	12,5	14,0
Input power	Nominal (Min - Max)	kW	2,62 (0,56 - 4,00)	3,49 (0,60 - 4,80)	4,34 (0,62 - 5,50)
Annual energy consumption [3]		kWh/a	521	—	—
Heating capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
Heating capacity at -15 °C [4]	Max	kW	8,2	10,5	10,8
COP [1]	Nominal (Min - Max)	W/W	4,93 (3,59 - 5,36)	4,43 (3,57 - 5,50)	4,18 (3,33 - 5,48)
SCOP / $\eta_{s,h}$ [2]			**4,4 A+**	**157,0%**	**152,2%**
Pdesign at -10 °C		kW	10,0	12,5	14,0 (at -7 °C)
Input power	Nominal (Min - Max)	kW	2,03 (0,56 - 3,90)	2,82 (0,60 - 4,20)	3,35 (0,62 - 4,80)
Annual energy consumption [3]		kWh/a	3182	—	—
Indoor unit			**S-1014PU3E**	**S-1014PU3E**	**S-1014PU3E**
Air flow	Hi / Med / Lo	m³/min	36,0 / 26,0 / 18,0	37,0 / 27,0 / 19,0	38,0 / 29,0 / 20,0
Moisture removal volume		L/h	2,7	4,8	6,0
Sound pressure [5]	Hi / Med / Lo	dB(A)	45 / 38 / 32	46 / 39 / 33	47 / 40 / 34
Sound power	Hi / Med / Lo	dB(A)	60 / 53 / 47	61 / 54 / 48	62 / 55 / 49
Dimension	Indoor (H x W x D)	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
	Panel (H x W x D)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight	Indoor / Panel	kg	25 / 5	25 / 5	25 / 5
nanoe X Generator			Mark 1	Mark 1	Mark 1
Outdoor unit			**U-100PZ3E8**	**U-125PZ3E8**	**U-140PZ3E8**
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4,35 - 4,15 - 4,00	5,65 - 5,35 - 5,15	7,00 - 6,65 - 6,40
	Heat	A	3,40 - 3,20 - 3,10	4,55 - 4,35 - 4,15	5,40 - 5,15 - 4,95
Air flow	Cool / Heat	m³/min	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) [8]		m	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The value is based on the interpolation. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. *Recommended fuse for the indoor 3 A. **Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRU3	Infrared remote controller and receiver
CZ-CAPWFC2	Commercial Wi-Fi Adaptor

Accessories	
CZ-KPU3A	Econavi exclusive panel, white (RAL9003)
CZ-KPU3B	NEW Standard panel, graphite black (RAL9011)
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-FDU3+CZ-ATU2	Fresh air-intake kit

R32 REFRIGERANT | A++ 8,1 SEER | A++ 4,9 SCOP | 28% ECONAVI | INVERTER+ | -10 °C COOLING MODE | -15 °C HEATING MODE | nanoeX | DC FAN | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER: For S-3650PU3E + U-36PZ3E5. SCOP: For S-6071PU3E + U-60PZ3E5A. ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi NX Series Elite ceiling - PT3 · R32

Ceiling mounted units provide large and wide air distribution which is ideal for large rooms.

The height and depth of all capacities are the same for unified appearance in mixed installations.

nanoe™ X as a standard.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-36PT3ZH5**	**KIT-50PT3ZH5**	**KIT-60PT3ZH5**	**KIT-71PT3ZH45**	**KIT-100PT3ZH45**	**KIT-125PT3ZH45**	**KIT-140PT3ZH45**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nom (Min - Max)	kW	3,5 (1,2 - 4,0)	5,0 (1,2 - 5,6)	6,0 (1,2 - 7,1)	6,8 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,1 (3,2 - 14,0)	13,4 (3,3 - 16,0)
EER [1]	Nom (Min - Max)	W/W	4,86 (4,55 - 5,45)	4,03 (3,57 - 5,45)	3,82 (3,02 - 5,45)	3,91 (2,69 - 5,79)	4,06 (3,29 - 5,34)	3,46 (3,01 - 5,33)	3,21 (2,67 - 5,32)
SEER / $\eta_{s,c}$ [2]			**7,7 A++**	**7,4 A++**	**7,5 A++**	**7,3 A++**	**7,3 A++**	**278,4%**	**263,3%**
Pdesign		kW	3,5	5,0	6,0	6,8	9,5	12,1	13,4
Input power	Nom (Min - Max)	kW	0,72 (0,22 - 0,88)	1,24 (0,22 - 1,57)	1,57 (0,22 - 2,35)	1,74 (0,38 - 3,35)	2,34 (0,58 - 3,80)	3,50 (0,60 - 4,65)	4,17 (0,62 - 6,00)
Annual energy consumption [3]		kWh/a	160	237	280	326	456	—	—
Heating capacity	Nom (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 8,0)	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)
Heating capacity at -15 °C [4]	Max	kW	3,2	4,1	5,1	7,5	11,9	13,4	15,0
COP [1]	Nom (Min - Max)	W/W	5,00 (4,17 - 5,45)	4,03 (3,94 - 5,45)	4,14 (3,40 - 5,45)	3,96 (3,16 - 5,56)	4,00 (3,54 - 5,54)	3,78 (3,20 - 5,52)	3,38 (3,10 - 5,50)
SCOP / $\eta_{s,h}$ [2]			**4,9 A++**	**4,8 A++**	**4,8 A++**	**4,7 A++**	**4,5 A+**	**175,6%**	**169,3%**
Pdesign at -10 °C		kW	3,1	4,0	4,6	4,7	7,8	9,5	10,2
Input power	Nom (Min - Max)	kW	0,80 (0,22 - 1,20)	1,39 (0,22 - 1,65)	1,69 (0,22 - 2,35)	2,02 (0,36 - 2,85)	2,80 (0,56 - 3,95)	3,70 (0,58 - 5,00)	4,74 (0,60 - 5,80)
Annual energy consumption [3]		kWh/a	886	1167	1342	1400	2426	—	—
Indoor unit			**S-3650PT3E**	**S-3650PT3E**	**S-6071PT3E**	**S-6071PT3E**	**S-1014PT3E**	**S-1014PT3E**	**S-1014PT3E**
Air flow	Hi / Med / Lo	m³/min	14,0 / 12,0 / 10,5	15,0 / 12,5 / 10,5	20,0 / 17,0 / 14,5	21,0 / 18,0 / 15,5	30,0 / 25,0 / 23,0	34,0 / 28,0 / 24,0	35,0 / 29,0 / 25,0
Moisture removal volume		L/h	0,8	2,0	2,1	2,7	3,6	5,4	6,4
Sound pressure [5]	Hi / Med / Lo	dB(A)	36 / 32 / 28	37 / 33 / 28	38 / 34 / 29	39 / 35 / 30	42 / 37 / 34	46 / 40 / 35	47 / 41 / 36
Sound power	Hi / Med / Lo	dB(A)	54 / 50 / 46	55 / 51 / 46	56 / 52 / 47	57 / 53 / 48	60 / 55 / 52	64 / 58 / 53	65 / 59 / 54
Dimension	H x W x D	mm	235 x 960 x 690	235 x 960 x 690	235 x 1275 x 690	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	26	26	34	34	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-36PZH3E5**	**U-50PZH3E5**	**U-60PZH3E5**	**U-71PZH4E5**	**U-100PZH4E5**	**U-125PZH4E5**	**U-140PZH4E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,55 - 3,40 - 3,25	5,85 - 5,60 - 5,40	7,35 - 7,05 - 6,75	8,80 - 8,40 - 8,05	11,60-11,10-10,60	17,10-16,40-15,70	20,40-19,50-18,70
	Heat	A	3,90 - 3,75 - ,3,60	6,60 - 6,30 - 6,05	7,85 - 7,50 - 7,20	10,20-9,75-9,35	13,70-13,20-12,70	18,10-17,30-16,60	23,20-22,20-21,20
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50	48 / 50	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69	65 / 67	69 / 69	73 / 73	74 / 74
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	42	42	43	66	84	86	86
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [6]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [7]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [8]		m	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	15	15	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +52	-20 [9] ~ +52	-20 [9] ~ +52	-20 [9] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Technical focus

- Wide air distribution for large rooms
- Horizontal air flow reaches maximum 9,5 m
- Fresh air connection available on the unit
- Slim design with 235 mm height fits narrow space
- Silent operation
- nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Further comfort improvement with air flow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.

The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, increasing the degree of comfort.

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW2

CONEX wired remote controller, black. CZ-RTC6/BL/BLW2

Infrared remote controller. CZ-RWS3 + CZ-RWRT3

Econavi sensor. CZ-CENSC1

			Three phase			
			7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-71PT3ZH48**	**KIT-100PT3ZH48**	**KIT-125PT3ZH48**	**KIT-140PT3ZH48**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	6,8 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,1 (3,2 - 14,0)	13,4 (3,3 - 16,0)
EER [1]	Nominal (Min - Max)	W/W	3,91 (2,69 - 5,79)	4,06 (3,29 - 5,34)	3,46 (3,01 - 5,33)	3,21 (2,67 - 5,32)
SEER / $\eta_{s,c}$ [2]			**7,2 A++**	**7,2 A++**	**277,3%**	**262,4%**
Pdesign		kW	6,8	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	1,74 (0,38 - 3,35)	2,34 (0,58 - 3,80)	3,50 (0,60 - 4,65)	4,17 (0,66 - 6,00)
Annual energy consumption [3]		kWh/a	331	462	—	—
Heating capacity	Nominal (Min - Max)	kW	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)
Heating capacity at -15 °C [4]	Max	kW	7,5	11,9	13,4	15,0
COP [1]	Nominal (Min - Max)	W/W	3,96 (3,16 - 5,56)	4,00 (3,54 - 5,54)	3,78 (3,20 - 5,52)	3,38 (3,10 - 5,50)
SCOP / $\eta_{s,h}$ [2]			**4,7 A++**	**4,5 A+**	**175,6%**	**169,3%**
Pdesign at -10 °C		kW	4,7	7,8	9,5	10,2
Input power	Nominal (Min - Max)	kW	2,02 (0,36 - 2,85)	2,80 (0,56 - 3,95)	3,70 (0,58 - 5,00)	4,74 (0,60 - 5,80)
Annual energy consumption [3]		kWh/a	1400	2427	—	—
Indoor unit			**S-6071PT3E**	**S-1014PT3E**	**S-1014PT3E**	**S-1014PT3E**
Air flow	Hi / Med / Lo	m³/min	21,0 / 18,0 / 15,5	30,0 / 25,0 / 23,0	34,0 / 28,0 / 24,0	35,0 / 29,0 / 25,0
Moisture removal volume		L/h	2,7	3,6	5,4	6,4
Sound pressure [5]	Hi / Med / Lo	dB(A)	39 / 35 / 30	42 / 37 / 34	46 / 40 / 35	47 / 41 / 36
Sound power	Hi / Med / Lo	dB(A)	57 / 53 / 48	60 / 55 / 52	64 / 58 / 53	65 / 59 / 54
Dimension	H x W x D	mm	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	34	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-71PZH4E8**	**U-100PZH4E8**	**U-125PZH4E8**	**U-140PZH4E8**
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	2,95 - 2,80 - 2,70	3,60 - 3,40 - 3,25	5,45 - 5,15 - 5,00	6,15 - 5,85 - 5,65
	Heat	A	3,15 - 3,00 - 2,90	3,75 - 3,55 - 3,40	5,10 - 4,80 - 4,65	6,20 - 5,90 - 5,65
Air flow	Cool / Heat	m³/min	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48 / 50	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	65 / 67	69 / 69	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	66	82	84	84
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [8]		m	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30
Additional gas amount		g/m	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [9] ~ +52	-20 [9] ~ +52	-20 [9] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The value is based on the interpolation. 5) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. 9) Pipe length up to 30 m. *Recommended fuse for the indoor 3 A. **Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver

Accessories	
CZ-CAPWFC2	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor

R32 REFRIGERANT | A++ 7,7 SEER | A++ 4,9 SCOP | INVERTER+ | -15 °C COOLING MODE | -20 °C HEATING MODE | nanoeX | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For S-3650PT3E + U-36PZH3E5. INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi NX Series Standard ceiling - PT3 · R32

Ceiling mounted units provide large and wide air distribution which is ideal for large rooms.

The height and depth of all capacities are the same for unified appearance in mixed installations.

nanoe™ X as a standard.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-36PT3Z5**	**KIT-50PT3Z5**	**KIT-60PT3Z5**	**KIT-71PT3Z5**	**KIT-100PT3Z5**	**KIT-125PT3Z5**	**KIT-140PT3Z5**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nom (Min - Max)	kW	3,5 (1,5 - 4,0)	5,0 (1,5 - 5,2)	6,0 (2,0 - 7,1)	6,8 (2,6 - 7,7)	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER [1]	Nom (Min - Max)	W/W	4,14 (3,69 - 5,17)	3,03 (2,86 - 5,00)	3,59 (2,90 - 6,90)	3,24 (2,75 - 4,91)	3,64 (2,80 - 5,36)	3,32 (2,77 - 5,33)	2,98 (2,73 - 5,32)
SEER / $\eta_{s,c}$ [2]			**7,2 A++**	**6,7 A++**	**7,3 A++**	**5,9 A+**	**6,6 A++**	**241,7%**	**228,8%**
Pdesign		kW	3,5	5,0	6,0	6,8	10,0	12,5	14,0
Input power	Nom (Min - Max)	kW	0,85 (0,29 - 1,10)	1,65 (0,30 - 1,82)	1,67 (0,29 - 2,45)	2,10 (0,53 - 2,80)	2,75 (0,56 - 4,10)	3,76 (0,60 - 4,88)	4,70 (0,62 - 5,50)
Annual energy consumption [3]		kWh/a	171	262	288	404	531	—	—
Heating capacity	Nom (Min - Max)	kW	3,5 (1,5 - 4,6)	5,0 (1,5 - 6,4)	6,0 (1,8 - 7,0)	6,8 (2,1 - 8,1)	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
Heating capacity at -15 °C [4]	Max	kW	2,7	3,7	4,7	4,8	8,2	10,5	10,8
COP [1]	Nom (Min - Max)	W/W	4,61 (3,51 - 5,70)	3,73 (3,12 - 6,25)	4,11 (2,92 - 6,67)	4,20 (3,06 - 5,68)	4,24 (3,30 - 5,36)	3,89 (3,41 - 4,52)	3,70 (3,08 - 5,48)
SCOP / $\eta_{s,h}$ [2]			**4,4 A+**	**4,1 A+**	**4,6 A++**	**4,3 A+**	**4,2 A+**	**147,4%**	**145,3%**
Pdesign at -10 °C		kW	2,8	4,0	4,6	4,7	10,0	12,5	13,6
Input power	Nom (Min - Max)	kW	0,76 (0,26 - 1,31)	1,34 (0,24 - 2,05)	1,46 (0,27 - 2,40)	1,62 (0,37 - 2,65)	2,36 (0,56 - 4,00)	3,21 (0,73 - 4,40)	3,78 (0,62 - 5,20)
Annual energy consumption [3]		kWh/a	891	1365	1399	1529	3331	—	—
Indoor unit			**S-3650PT3E**	**S-3650PT3E**	**S-6071PT3E**	**S-6071PT3E**	**S-1014PT3E**	**S-1014PT3E**	**S-1014PT3E**
Air flow	Hi / Med / Lo	m³/min	14,0 / 12,0 / 10,5	15,0 / 12,5 / 10,5	20,0 / 17,0 / 14,5	21,0 / 18,0 / 15,5	30,0 / 25,0 / 23,0	34,0 / 28,0 / 24,0	35,0 / 29,0 / 25,0
Moisture removal volume		L/h	0,8	2,0	2,1	2,7	4,1	5,7	6,9
Sound pressure [5]	Hi / Med / Lo	dB(A)	36 / 32 / 28	37 / 33 / 28	38 / 34 / 29	39 / 35 / 30	42 / 37 / 34	46 / 40 / 35	47 / 41 / 36
Sound power	Hi / Med / Lo	dB(A)	54 / 50 / 46	55 / 51 / 46	56 / 52 / 47	57 / 53 / 48	60 / 55 / 52	64 / 58 / 53	65 / 59 / 54
Dimension	H x W x D	mm	235 x 960 x 690	235 x 960 x 690	235 x 1275 x 690	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	26	26	34	34	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-36PZ3E5**	**U-50PZ3E5**	**U-60PZ3E5A**	**U-71PZ3E5A**	**U-100PZ3E5**	**U-125PZ3E5**	**U-140PZ3E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	3,90 - 3,75 - 3,60	7,65 - 7,30 - 7,00	7,75 - 7,40 - 7,10	9,75 - 9,30 - 8,95	13,70-13,10-12,60	18,20-17,40-16,70	22,70-21,70-20,80
	Heat	A	3,55 - 3,40 - 3,25	6,30 - 6,00 - 5,75	6,75 - 6,50 - 6,20	7,50 - 7,20 - 6,90	11,80-11,30-10,80	15,50-14,80-14,20	18,30-17,50-16,80
Air flow	Cool / Heat	m³/min	33,6 / 34,0	32,7 / 31,9	42,6 / 41,5	44,7 / 45,9	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46 / 47	46 / 46	47 / 48	48 / 49	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	64 / 66	64 / 64	64 / 65	66 / 68	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	32	35	42	50	83	87	87
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [6]	1/4 (6,35) [6]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [7]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 20	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) [8]		m	15 / 15	15 / 15	15 / 30	20 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	7,5	7,5	30	30	30	30	30
Additional gas amount		g/m	10	15	15	17	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Technical focus

- Wide air distribution for large rooms
- Horizontal air flow reaches maximum 9,5 m
- Fresh air connection available on the unit
- Slim design with 235 mm height fits narrow space
- Silent operation
- nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- Single and Twin options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Further comfort improvement with air flow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.

The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, increasing the degree of comfort.

CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW2

CONEX wired remote controller, black. CZ-RTC6/BL/BLW2

Infrared remote controller. CZ-RWS3 + CZ-RWRT3

Econavi sensor. CZ-CENSC1

			Three phase		
			10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-100PT3Z8**	**KIT-125PT3Z8**	**KIT-140PT3Z8**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER [1]	Nominal (Min - Max)	W/W	3,64 (3,50 - 5,36)	3,32 (2,77 - 5,33)	2,98 (2,73 - 5,32)
SEER / $\eta_{s,c}$ [2]			**6,5 A++**	**241,7%**	**228,8%**
Pdesign		kW	10,0	12,5	14,0
Input power	Nominal (Min - Max)	kW	2,75 (0,56 - 4,10)	3,76 (0,60 - 4,88)	4,70 (0,62 - 5,50)
Annual energy consumption [3]		kWh/a	537	—	—
Heating capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
Heating capacity at -15 °C [4]	Max	kW	8,2	10,5	10,8
COP [1]	Nominal (Min - Max)	W/W	4,24 (3,50 - 5,36)	3,89 (3,41 - 4,52)	3,70 (3,08 - 5,48)
SCOP / $\eta_{s,h}$ [2]			**4,2 A+**	**147,4%**	**145,3%**
Pdesign at -10 °C		kW	10,0	12,5	13,6
Input power	Nominal (Min - Max)	kW	2,36 (0,56 - 4,00)	3,21 (0,73 - 4,40)	3,78 (0,62 - 5,20)
Annual energy consumption [3]		kWh/a	3331	—	—
Indoor unit			**S-1014PT3E**	**S-1014PT3E**	**S-1014PT3E**
Air flow	Hi / Med / Lo	m³/min	30,0 / 25,0 / 23,0	34,0 / 28,0 / 24,0	35,0 / 29,0 / 25,0
Moisture removal volume		L/h	4,1	5,7	6,9
Sound pressure [5]	Hi / Med / Lo	dB(A)	42 / 37 / 34	46 / 40 / 35	47 / 41 / 36
Sound power	Hi / Med / Lo	dB(A)	60 / 55 / 52	64 / 58 / 53	65 / 59 / 54
Dimension	H x W x D	mm	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			**U-100PZ3E8**	**U-125PZ3E8**	**U-140PZ3E8**
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4,60 - 4,35 - 4,20	6,10 - 5,75 - 5,55	7,60 - 7,20 - 6,95
	Heat	A	3,95 - 3,75 - 3,60	5,20 - 4,95 - 4,75	6,10 - 5,80 - 5,60
Air flow	Cool / Heat	m³/min	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) [8]		m	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,40 / 1,62	2,8 / 1,89	2,8 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The value is based on the interpolation. 5) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. *Recommended fuse for the indoor 3 A. **Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver

Accessories	
CZ-CAPWFC2	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor

R32 REFRIGERANT | A++ 7,3 SEER | A++ 4,6 SCOP | INVERTER+ | -10 °C COOLING MODE | -15 °C HEATING MODE | nanoeX | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For S-6071PT3E + U-60PZ3E5A. INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi NX Series Elite adaptive ducted unit - PF3 · R32

Adaptive ducted unit - PF3.

2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

nanoe™ X as a standard.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-36PF3ZH5**	**KIT-50PF3ZH5**	**KIT-60PF3ZH5**	**KIT-71PF3ZH45**	**KIT-100PF3ZH45**	**KIT-125PF3ZH45**	**KIT-140PF3ZH45**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nom (Min - Max)	kW	3,6 (1,2 - 4,0)	5,0 (1,2 - 5,6)	5,7 (1,2 - 6,3)	6,8 (2,2 - 7,8)	9,5 (3,1 - 11,4)	12,1 (3,2 - 13,6)	13,4 (3,3 - 15,3)
EER [1]	Nom (Min - Max)	W/W	4,24 (3,57 - 5,45)	3,42 (3,11 - 5,45)	3,68 (3,15 - 5,45)	3,74 (2,41 - 5,64)	4,09 (2,82 - 5,08)	3,53 (3,00 - 5,00)	3,38 (2,59 - 4,18)
SEER / $\eta_{s,c}$ [2]			**6,8 A++**	**6,1 A++**	**7,1 A++**	**7,1 A++**	**7,4 A++**	**281,7%**	**275,9%**
Pdesign		kW	3,6	5,0	5,7	6,8	9,5	12,1	13,4
Input power	Nom (Min - Max)	kW	0,85 (0,22 - 1,12)	1,46 (0,22 - 1,80)	1,55 (0,22 - 2,00)	1,82 (0,39 - 3,24)	3,23 (0,61 - 4,04)	3,43 (0,64 - 4,54)	3,96 (0,79 - 5,90)
Annual energy consumption [3]		kWh/a	185	287	281	332	447	—	—
Heating capacity	Nom (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 8,0)	7,5 (2,0 - 9,0)	10,8 (3,1 - 13,5)	13,5 (3,2 - 15,4)	15,5 (3,3 - 17,4)
Heating capacity at -15 °C [4]	Max	kW	3,2	4,1	5,1	7,5	11,5	12,9	14,5
COP [1]	Nom (Min - Max)	W/W	4,17 (3,23 - 5,45)	3,61 (2,97 - 5,45)	3,74 (3,33 - 5,45)	4,03 (3,16 - 5,41)	3,88 (3,07 - 5,25)	3,46 (3,06 - 5,16)	3,33 (3,14 - 4,29)
SCOP / $\eta_{s,h}$ [2]			**4,5 A+**	**4,2 A+**	**4,4 A+**	**4,7 A++**	**4,3 A+**	**165,0%**	**162,6%**
Pdesign at -10 °C		kW	3,6	4,0	4,7	4,7	7,8	9,3	9,5
Input power	Nom (Min - Max)	kW	0,96 (0,22 - 1,55)	1,55 (0,22 - 2,19)	1,87 (0,22 - 2,40)	1,86 (0,37 - 2,85)	2,78 (0,59 - 4,40)	3,90 (0,62 - 5,04)	4,65 (0,77 - 5,55)
Annual energy consumption [3]		kWh/a	1120	1333	1495	1393	2540	—	—
Indoor unit			**S-3650PF3E**	**S-3650PF3E**	**S-6071PF3E**	**S-6071PF3E**	**S-1014PF3E**	**S-1014PF3E**	**S-1014PF3E**
External static pressure [5]	Nom (Min - Max)	Pa	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	14,0 / 13,0 / 10,0	16,0 / 15,0 / 12,0	21,0 / 19,0 / 15,0	21,0 / 19,0 / 15,0	20,0 / 26,0 / 21,0	34,0 / 29,0 / 23,0	36,0 / 32,0 / 25,0
Moisture removal volume		L/h	0,9	1,9	1,7	2,7	3,2	4,1	4,9
Sound pressure [6]	Hi / Med / Lo	dB(A)	30 / 27 / 22	34 / 30 / 25	30 / 26 / 23	30 / 26 / 23	33 / 29 / 25	35 / 31 / 27	39 / 35 / 29
Sound power	Hi / Med / Lo	dB(A)	53 / 50 / 45	57 / 53 / 48	53 / 49 / 46	53 / 49 / 46	56 / 52 / 48	58 / 54 / 50	62 / 58 / 52
Dimension	H x W x D	mm	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	25	25	30	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-36PZH3E5**	**U-50PZH3E5**	**U-60PZH3E5**	**U-71PZH4E5**	**U-100PZH4E5**	**U-125PZH4E5**	**U-140PZH4E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	4,20 - 4,00 - 3,85	6,90 - 6,60 - 6,35	7,25 - 6,95 - 6,65	9,20 - 8,80 - 8,45	11,50 - 11,00 - 10,50	16,80 - 16,00 - 15,40	19,40 - 18,50 - 17,70
	Heat	A	4,70 - 4,50 - 4,30	7,35 - 7,00 - 6,75	8,65 - 8,30 - 7,95	9,40 - 9,00 - 8,60	13,60 - 13,10 - 12,60	19,10 - 18,20 - 17,50	22,70 - 21,70 - 20,80
Air flow	Cool / Heat	m³/min	34,1 / 36,4	42,0 / 42,0	42,0 / 42,0	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43 / 44	46 / 48	47 / 50	48 / 50	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	62 / 64	64 / 67	65 / 69	65 / 67	69 / 69	73 / 73	74 / 74
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	42	42	43	66	84	86	86
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) [7]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) [8]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [9]		m	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	15	15	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,13 / 0,76	1,15 / 0,78	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +52	-20 [10] ~ +52	-20 [10] ~ +52	-20 [10] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

Technical focus

- 2 installation possibilities (horizontal / vertical)
- Maximum external static pressure: 150 Pa
- Selectable inlet air position (rear / bottom entry)
- Improved drain pan suitable for both horizontal / vertical installation
- Drain pump included
- nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
- BION air pollutant filter for certain types of pollutants, such as nitrogen dioxide (NO_2), nitrogen oxides (NO_X) and Ozone (O_3) (optional)
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®

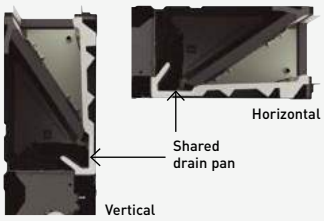
*The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.

2 installation possibilities (horizontal / vertical)

Vertical installation is available. External static pressure 150 Pa, sufficient for remotely installing units away from the rooms.

Improved drain pan design

Just one drain pan for both horizontal and vertical installations. No need to modify the unit.



CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional:

CONEX wired remote controller, white. CZ-RTC6W/ BL/BLW2

CONEX wired remote controller, black. CZ-RTC6/BL/ BLW2

Infrared remote controller. CZ-RWS3 + CZ-RWRC3

Econavi sensor. CZ-CENSC1

			Three phase			
			7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-71PF3ZH48**	**KIT-100PF3ZH48**	**KIT-125PF3ZH48**	**KIT-140PF3ZH48**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	6,8 (2,2 - 7,8)	9,5 (3,1 - 11,4)	12,1 (3,2 - 13,6)	13,4 (3,3 - 15,3)
EER [1]	Nominal (Min - Max)	W/W	3,74 (2,41 - 5,64)	4,09 (2,82 - 5,08)	3,53 (3,00 - 5,00)	3,38 (2,59 - 4,18)
SEER / $\eta_{s,c}$ [2]			**7,1 A++**	**7,4 A++**	**281,0%**	**275,2%**
Pdesign		kW	6,8	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	1,82 (0,39 - 3,24)	2,32 (0,61 - 4,04)	3,43 (0,64 - 4,54)	3,96 (0,79 - 5,90)
Annual energy consumption [3]		kWh/a	332	447	—	—
Heating capacity	Nominal (Min - Max)	kW	7,5 (2,0 - 9,0)	10,8 (3,1 - 13,5)	13,5 (3,2 - 15,4)	15,5 (3,3 - 17,4)
Heating capacity at -15 °C [4]	Max	kW	7,5	11,5	12,9	14,5
COP [1]	Nominal (Min - Max)	W/W	4,03 (3,16 - 5,41)	3,88 (3,07 - 5,25)	3,46 (3,06 - 5,16)	3,33 (3,14 - 4,29)
SCOP / $\eta_{s,h}$ [2]			**4,7 A++**	**4,3 A+**	**165,0%**	**162,6%**
Pdesign at -10 °C		kW	4,7	7,8	9,3	9,5
Input power	Nominal (Min - Max)	kW	1,86 (0,37 - 2,85)	2,78 (0,59 - 4,40)	3,90 (0,62 - 5,04)	4,65 (0,77 - 5,55)
Annual energy consumption [3]		kWh/a	1394	2540	—	—
Indoor unit			**S-6071PF3E**	**S-1014PF3E**	**S-1014PF3E**	**S-1014PF3E**
External static pressure [5]	Nominal (Min - Max)	Pa	30 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	21,0 / 19,0 / 15,0	32,0 / 26,0 / 21,0	34,0 / 29,0 / 23,0	36,0 / 32,0 / 25,0
Moisture removal volume		L/h	2,7	3,2	4,1	4,9
Sound pressure [6]	Hi / Med / Lo	dB(A)	30 / 26 / 23	33 / 29 / 25	35 / 31 / 27	39 / 35 / 29
Sound power	Hi / Med / Lo	dB(A)	53 / 49 / 46	56 / 52 / 48	58 / 54 / 50	62 / 58 / 52
Dimension	H x W x D	mm	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-71PZH4E8**	**U-100PZH4E8**	**U-125PZH4E8**	**U-140PZH4E8**
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	3,05 - 2,90 - 2,80	3,85 - 3,70 - 3,50	5,65 - 5,40 - 5,20	6,55 - 6,20 - 6,00
	Heat	A	3,15 - 3,00 - 2,90	4,65 - 4,40 - 4,20	6,50 - 6,20 - 5,95	7,75 - 7,40 - 7,05
Air flow	Cool / Heat	m³/min	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48 / 50	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	65 / 67	69 / 69	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	66	82	84	84
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out) [9]		m	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30
Additional gas amount		g/m	30	40	40	40
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [10] ~ +52	-20 [10] ~ +52	-20 [10] ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The value is based on the interpolation. 5) Medium external static pressure setting from factory. 6) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 8) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 9) Outdoor unit located lower / outdoor unit located higher. 10) Pipe length up to 30 m. *Recommended fuse for the indoor 3 A. **Above values are in the case of standard installation(horizontal installation in the celling, rear side air intake) and nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC2	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E
PAW-APF800F	BION air pollutant filter for S-3650PF3E
PAW-APF1000F	BION air pollutant filter for S-6071PF3E
PAW-APF1400F	BION air pollutant filter for S-1014PF3E

R32 REFRIGERANT | A++ 7,1 SEER | A++ 4,7 SCOP | INVERTER+ | -15 °C COOLING MODE | -20 °C HEATING MODE | nanoeX | 22 dB(A) | DC FAN | FILTER INCLUDED | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For S-6071PF3E + U-71PZH4E5. SUPER QUIET: For S-3650PF3E + U-36PZH3E5. INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi NX Series Standard adaptive ducted unit - PF3 · R32

Adaptive ducted unit - PF3.
2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

nanoe™ X as a standard.

			Single phase						
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-36PF3Z5**	**KIT-50PF3Z5**	**KIT-60PF3Z5**	**KIT-71PF3Z5**	**KIT-100PF3Z5**	**KIT-125PF3Z5**	**KIT-140PF3Z5**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nom (Min - Max)	kW	3,4 (1,5 - 4,0)	5,0 (1,5 - 5,3)	5,7 (2,0 - 6,3)	6,8 (2,6 - 7,7)	9,5 (3,0 - 11,4)	12,1 (3,2 - 13,5)	13,4 (3,3 - 15,0)
EER [1]	Nom (Min - Max)	W/W	3,78 (3,51 - 5,00)	2,78 (2,76 - 4,63)	3,54 (2,63 - 5,88)	3,18 (2,69 - 4,56)	3,57 (2,36 - 5,08)	3,40 (2,76 - 5,08)	3,16 (2,56 - 5,08)
SEER / $\eta_{s,c}$ [2]			**6,0 A+**	**6,5 A++**	**6,4 A++**	**6,0 A+**	**6,6 A++**	**257,4%**	**252,2%**
Pdesign		kW	3,4	5,0	5,7	6,8	9,5	12,1	13,4
Input power	Nom (Min - Max)	kW	0,90 (0,30 - 1,14)	1,80 (0,32 - 1,92)	1,61 (0,34 - 2,40)	2,14 (0,57 - 2,86)	2,66 (0,59 - 4,84)	3,56 (0,63 - 4,90)	4,24 (0,65 - 5,86)
Annual energy consumption [3]		kWh/a	198	267	310	391	502	—	—
Heating capacity	Nom (Min - Max)	kW	3,4 (1,5 - 4,6)	5,0 (1,5 - 5,9)	5,7 (1,8 - 7,0)	6,8 (2,1 - 8,1)	9,5 (3,0 - 13,5)	12,1 (3,3 - 15,0)	13,4 (3,4 - 16,0)
Heating capacity at -15 °C [4]	Max	kW	2,6	3,5	4,7	4,8	8,0	10,5	10,8
COP [1]	Nom (Min - Max)	W/W	4,15 (3,51 - 5,36)	3,62 (3,06 - 5,36)	4,04 (2,82 - 6,21)	4,00 (3,03 - 5,68)	4,09 (3,00 - 5,08)	3,56 (3,16 - 5,24)	3,76 (3,03 - 5,23)
SCOP / $\eta_{s,h}$ [2]			**4,0 A+**	**4,0 A+**	**4,4 A+**	**4,1 A+**	**3,9 A**	**142,6%**	**140,6%**
Pdesign at -10 °C		kW	2,4	3,8	4,4	4,7	7,8	9,3	9,5
Input power	Nom (Min - Max)	kW	0,82 (0,28 - 1,31)	1,38 (0,28 - 1,73)	1,41 (0,29 - 2,48)	1,70 (0,37 - 2,67)	2,32 (0,59 - 4,50)	3,40 (0,63 - 4,74)	3,56 (0,65 - 5,28)
Annual energy consumption [3]		kWh/a	839	1303	1376	1591	2795	—	—
Indoor unit			**S-3650PF3E**	**S-3650PF3E**	**S-6071PF3E**	**S-6071PF3E**	**S-1014PF3E**	**S-1014PF3E**	**S-1014PF3E**
External static pressure [5]	Nom (Min - Max)	Pa	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	14,0 / 13,0 / 10,0	16,0 / 15,0 / 12,0	21,0 / 19,0 / 15,0	21,0 / 19,0 / 15,0	32,0 / 26,0 / 21,0	34,0 / 29,0 / 23,0	36,0 / 32,0 / 25,0
Moisture removal volume		L/h	0,9	1,9	1,7	2,7	3,2	4,1	4,9
Sound pressure [6]	Hi / Med / Lo	dB(A)	30 / 27 / 22	34 / 30 / 25	30 / 26 / 23	30 / 26 / 23	33 / 29 / 25	35 / 31 / 27	39 / 35 / 29
Sound power	Hi / Med / Lo	dB(A)	53 / 50 / 45	57 / 53 / 48	53 / 49 / 46	53 / 49 / 46	56 / 52 / 48	58 / 54 / 50	62 / 58 / 52
Dimension	H x W x D	mm	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	25	25	30	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			**U-36PZ3E5**	**U-50PZ3E5**	**U-60PZ3E5A**	**U-71PZ3E5A**	**U-100PZ3E5**	**U-125PZ3E5**	**U-140PZ3E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	4,15-4,00-3,85	8,35-8,00-7,65	7,45-7,15-6,85	9,95-9,50-9,10	13,30-12,70-12,20	17,20-16,40-15,80	20,50-19,60-18,8
	Heat	A	3,85-3,70-3,50	6,45-6,20-5,95	6,55-6,25-6,00	7,90-7,55-7,25	11,60-11,10-10,60	16,40-15,70-15,00	17,20-16,40-15,80
Air flow	Cool / Heat	m³/min	33,6 / 34,0	32,7 / 31,9	42,6 / 41,5	44,7 / 45,9	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46 / 47	46 / 46	47 / 48	48 / 49	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	64 / 66	64 / 64	64 / 65	66 / 68	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	32	35	42	50	83	87	87
Piping diameter	Liquid	Inch (mm)	1/4 (Ø6,35)	1/4 (Ø6,35)	1/4 (Ø6,35) [7]	1/4 (Ø6,35) [7]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (Ø12,7)	1/2 (Ø12,7)	1/2 (Ø12,7) [8]	5/8 (Ø15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 - 15	3 - 20	3 - 40	3 - 40	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) [9]		m	15 / 15	15 / 15	15 / 30	20 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	7,5	7,5	30	30	30	30	30
Additional gas amount		g/m	10	15	15	17	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	0,87 / 0,59	1,14 / 0,77	1,15 / 0,78	1,32 / 0,89	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

Technical focus

- 2 installation possibilities (horizontal / vertical)
- Maximum external static pressure: 150 Pa
- Selectable inlet air position (rear / bottom entry)
- Improved drain pan suitable for both horizontal / vertical installation
- Drain pump included
- nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
- BION air pollutant filter for certain types of pollutants, such as nitrogen dioxide (NO_2), nitrogen oxides (NO_X) and Ozone (O_3) (optional)
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®

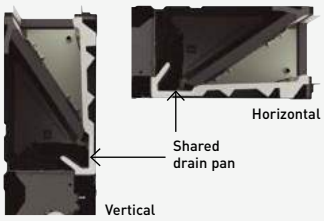
*The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.

2 installation possibilities (horizontal / vertical)

Vertical installation is available. External static pressure 150 Pa, sufficient for remotely installing units away from the rooms.

Improved drain pan design

Just one drain pan for both horizontal and vertical installations. No need to modify the unit.



CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW2

CONEX wired remote controller, black. CZ-RTC6/BL/BLW2

Infrared remote controller. CZ-RWS3 + CZ-RWRC3

Econavi sensor. CZ-CENSC1

				Three phase	
			10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-100PF3Z8**	**KIT-125PF3Z8**	**KIT-140PF3Z8**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	9,5 (3,0 - 11,4)	12,1 (3,2 - 13,5)	13,4 (3,3 - 15,0)
EER [1]	Nominal (Min - Max)	W/W	3,57 (2,36 - 5,08)	3,40 (2,76 - 5,08)	3,16 (2,56 - 5,08)
SEER / $\eta_{s,c}$ [2]			**6,5 A++**	**256,2%**	**251,4%**
Pdesign		kW	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	2,66 (0,59 - 4,84)	3,56 (0,63 - 4,90)	4,24 (0,65 - 5,86)
Annual energy consumption [3]		kWh/a	508	—	—
Heating capacity	Nominal (Min - Max)	kW	9,5 (3,0 - 13,5)	12,1 (3,3 - 15,0)	13,4 (3,4 - 16,0)
Heating capacity at -15 °C [4]	Max	kW	8,0	10,5	10,8
COP [1]	Nominal (Min - Max)	W/W	4,09 (3,00 - 5,08)	3,56 (3,16 - 5,24)	3,76 (3,03 - 5,23)
SCOP / $\eta_{s,h}$ [2]			**3,9 A**	**142,6%**	**140,6%**
Pdesign at -10 °C		kW	7,8	9,3	9,5
Input power	Nominal (Min - Max)	kW	2,32 (0,59 - 4,50)	3,40 (0,63 - 4,74)	3,56 (0,65 - 5,28)
Annual energy consumption [3]		kWh/a	2795	—	—
Indoor unit			**S-1014PF3E**	**S-1014PF3E**	**S-1014PF3E**
External static pressure [5]	Nominal (Min - Max)	Pa	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	32,0 / 26,0 / 21,0	34,0 / 29,0 / 23,0	36,0 / 32,0 / 25,0
Moisture removal volume		L/h	3,2	4,1	4,9
Sound pressure [6]	Hi / Med / Lo	dB(A)	33 / 29 / 25	35 / 31 / 27	39 / 35 / 29
Sound power	Hi / Med / Lo	dB(A)	56 / 52 / 48	58 / 54 / 50	62 / 58 / 52
Dimension	H x W x D	mm	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			**U-100PZ3E8**	**U-125PZ3E8**	**U-140PZ3E8**
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4,45 - 4,20 - 4,05	5,75 - 5,45 - 5,25	6,85 - 6,50 - 6,30
	Heat	A	3,85 - 3,70 - 3,55	5,50 - 5,20 - 5,05	5,75 - 5,45 - 5,25
Air flow	Cool / Heat	m³/min	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) [9]		m	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The value is based on the interpolation. 5) Medium external static pressure setting from factory. 6) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 8) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 9) Outdoor unit located lower / outdoor unit located higher. *Recommended fuse for the indoor 3 A. **Above values are in the case of standard installation(horizontal installation in the celling, rear side air intake) and nanoe™ X OFF.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC2	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E
PAW-APF800F	BION air pollutant filter for S-3650PF3E
PAW-APF1000F	BION air pollutant filter for S-6071PF3E
PAW-APF1400F	BION air pollutant filter for S-1014PF3E

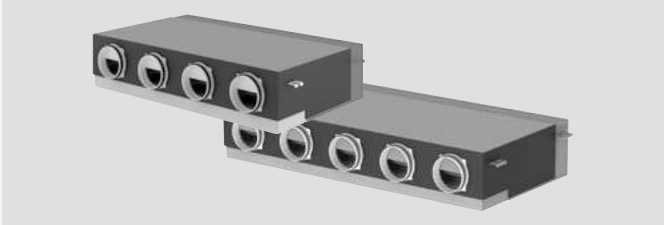
SEER: For S-1014PF3E + U-100PZ3E5. SCOP: For S-6071PF3E + U-60PZ3E5A. SUPER QUIET: For S-3650PF3E + U-36PZ3E5. INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

NEW

NEW! PACi NX Series Standard multi zone duct unit · R32

Energy efficient ducted unit with individual zone temperature control.
Simple and efficient zone control installation.



			Single phase				
			7,1 kW	10,0 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-71PQ41Z5**	**KIT-100PQ41Z5**	**KIT-100PQ51Z5**	**KIT-125PQ51Z5**	**KIT-140PQ51Z5**
Remote controller			**PCZ-EEB749**	**PCZ-EEB749**	**PCZ-EEB749**	**PCZ-EEB749**	**PCZ-EEB749**
Cooling capacity	Nom (Min - Max)	kW	7,0 (2,7-7,9)	9,0 (3,0 - 11,0)	9,8 (3,1 - 11,5)	12,0 (3,3 - 13,7)	13,2 (3,4 - 14,8)
SEER / $\eta_{s,c}$ [1)]			**6,6 A++**	**6,2 A++**	**6,6 A++**	**254,5%**	**251,8%**
Heating capacity	Nom (Min - Max)	kW	7,1 (2,2 - 8,2)	9,1 (3,0 - 13,2)	9,7 (3,0 - 11,5)	12,1 (3,3 - 15,2)	13,3 (3,5 - 15,9)
SCOP / $\eta_{s,h}$ [1)]			**4,3 A+**	**4,3 A+**	**4,4 A+**	**143,2%**	**141,4%**
Indoor unit			**S-7110PQ41E**	**S-7110PQ41E**	**S-1014PQ51E**	**S-1014PQ51E**	**S-1014PQ51E**
Number of fans			4	4	5	5	5
External static pressure [2)]	Nom (Min - Max)	Pa	30 (10 - 120)	30 (10 - 120)	30 (10 - 130)	30 (10 - 130)	30 (10 - 130)
Air flow	Hi / Med / Lo	m³/h	1800 / 1520 / 1120	1800 / 1520 / 1120	2250 / 1800 / 1450	2250 / 1800 / 1450	2250 / 1800 / 1450
Dimension	H x W x D	mm	266 x 1164 x 701	266 x 1164 x 701	266 x 1455 x 701	266 x 1455 x 701	266 x 1455 x 701
Net weight		kg	47	47	57	57	57
Outdoor unit			**U-71PZ3E5A**	**U-100PZ3E5**	**U-100PZ3E5**	**U-125PZ3E5**	**U-140PZ3E5**
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	A	9,95-9,50-9,10	13,30 - 12,70 - 12,20	13,30 - 12,70 - 12,20	17,20 - 16,40 - 15,80	20,50 - 19,60 - 18,8
	Heat	A	7,90-7,55-7,25	11,60 - 11,10 - 10,60	11,60 - 11,10 - 10,60	16,40 - 15,70 - 15,00	17,20 - 16,40 - 15,80
Air flow	Cool / Heat	m³/min	44,7 / 45,9	73,0 / 73,0	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48 / 49	52 / 52	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	66 / 68	70 / 70	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	50	83	83	87	87
Piping diameter	Liquid	Inch (mm)	1/4 (Ø6,35) [7)]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (Ø15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 - 40	5 ~ 50	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) [3?]		m	20 / 30	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30	30
Additional gas amount		g/m	17	45	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	1,32 / 0,89	2,40 / 1,62	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

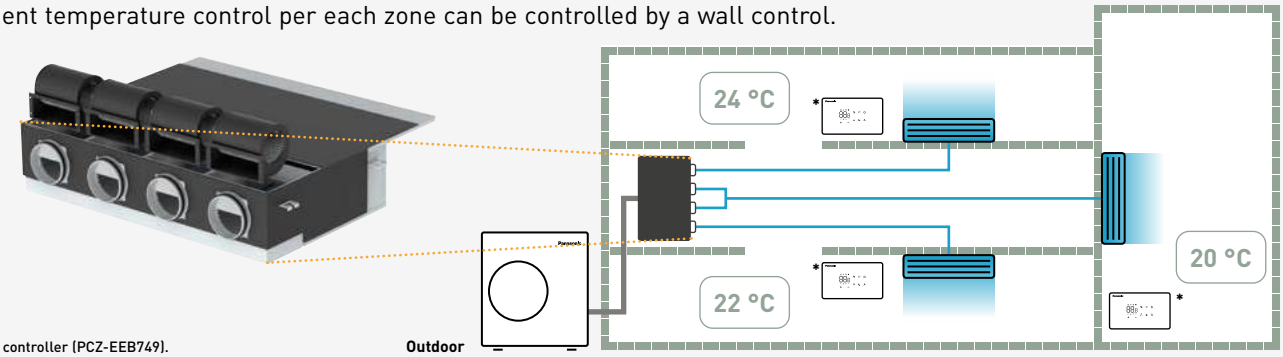
Technical focus

- Individual zone temperature control with dedicated fans and motors for each outlet integrated
- Multi-zone management for 4 or 5 zones
- Two installation configurations: horizontal or vertical
- Simplified duct installation with reduced system complexity
- No bypass duct required thanks to intelligent direct control, ensuring optimal comfort and efficiency
- Compatible with PACi NX Standard outdoor units
- Drain pump is optional
- Individual zone control via an intuitive wall controller (PCZ-EEB749)
- Smart Wi-Fi control through the Aquarea Home App
- Standard Panasonic controller [1)] used for setup, commissioning, service, and maintenance

1) Controller (CZ-RTC6) must remain connected.

Multi zone management – Energy saving solution

Independent temperature control per each zone can be controlled by a wall control.



*Wall-mounted controller (PCZ-EEB749).

PCZ-EEB749

			Three phase			
			10,0 kW	10,0 kW	12,5 kW	14,0 kW
Kit			**KIT-100PQ41Z8**	**KIT-100PQ51Z8**	**KIT-125PQ51Z8**	**KIT-140PQ51Z8**
Remote controller			**PCZ-EEB749**	**PCZ-EEB749**	**PCZ-EEB749**	**PCZ-EEB749**
Cooling capacity	Nom (Min - Max)	kW	9,0 (3,0 - 11,0)	9,8 (3,1 - 11,5)	12,0 (3,3 - 13,7)	13,2 (3,4 - 14,8)
SEER / $\eta_{s,c}$ 1)			**6,2 A++**	**6,6 A++**	**253,6%**	**250,9%**
Heating capacity	Nom (Min - Max)	kW	9,1 (3,0 - 13,2)	9,7 (3,0 - 11,5)	12,1 (3,3 - 15,2)	13,3 (3,5 - 15,9)
SCOP / $\eta_{s,h}$ 1)			**4,3 A+**	**4,4 A+**	**142,3%**	**140,6%**
Indoor unit			**S-7110PQ41E**	**S-1014PQ51E**	**S-1014PQ51E**	**S-1014PQ51E**
Number of fans			4	5	5	5
External static pressure 2)	Nom (Min - Max)	Pa	30 (10 - 120)	30 (10 - 130)	30 (10 - 130)	30 (10 - 130)
Air flow	Hi / Med / Lo	m³/h	1800 / 1520 / 1120	2250 / 1800 / 1450	2250 / 1800 / 1450	2250 / 1800 / 1450
Dimension	H x W x D	mm	266 x 1164 x 701	266 x 1455 x 701	266 x 1455 x 701	266 x 1455 x 701
Net weight		kg	47	57	57	57
Outdoor unit			**U-100PZ3E8**	**U-100PZ3E8**	**U-125PZ3E8**	**U-140PZ3E8**
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4,45 - 4,20 - 4,05	4,45 - 4,20 - 4,05	5,75 - 5,45 - 5,25	6,85 - 6,50 - 6,30
	Heat	A	3,85 - 3,70 - 3,55	3,85 - 3,70 - 3,55	5,50 - 5,20 - 5,05	5,75 - 5,45 - 5,25
Air flow	Cool / Heat	m³/min	73,0 / 73,0	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	83	87	87
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) 3?		m	15 / 30	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30	30
Additional gas amount		g/m	45	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,40 / 1,62	2,40 / 1,62	2,80 / 1,89	2,80 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 2) Medium external static pressure setting from factory. 3) Outdoor unit located lower / outdoor unit located higher. *Recommended fuse for the indoor 3 A.

Accessories	
PCZ-EEB749	Wall-mounted control
PCZ-AHRD0468	Return plenum with 4 circular inlets DN 160 mm. For S-7110PQ41E
PCZ-AHRD0469	Return plenum with 5 circular inlets DN 160 mm. For S-1014PQ51E
PCZ-AHRD0519	Non-return damper
PCZ-AHRD0524	90° shooting plenum. For S-7110PQ41E
PCZ-AHRD0525	90° shooting plenum. For S-1014PQ51E
PCZ-AHRD0534	Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm. For S-7110PQ41E
PCZ-AHRD0535	Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm. For S-1014PQ51E
PCZ-AHRD0544	Grille for telescopic kit for rear intake. For S-7110PQ41E
PCZ-AHRD0545	Grille for telescopic kit for rear intake. For S-1014PQ51E
PCZ-AHRA0708	Insulated plenum for horizontal or vertical supply/return. For S-7110PQ41E
PCZ-AHRA0709	White aluminium supply grille with double row of adjustable fins (450 x 225 mm). For S-7110PQ41E
PCZ-AHRA0710	White aluminium intake grille with removable filter (450 x 225 mm). For S-7110PQ41E

Accessories	
PCZ-AHRD0494	Replacement recirculation filter kit. For S-7110PQ41E
PCZ-AHRD0495	Replacement recirculation filter kit. For S-1014PQ51E
PCZ-AHRD0642	Plenum kit for external air connection with damper for room recirculation. For S-7110PQ41E
PCZ-AHRD0643	Plenum kit for external air connection with damper for room recirculation. For S-1014PQ51E
PCZ-AHRD0654	Ducting plate plenum kit for outdoor air connection with damper. For S-7110PQ41E
PCZ-AHRD0655	Ducting plate plenum kit for outdoor air connection with damper. For S-1014PQ51E
PCZ-AHRD0659	90° plenum for outdoor air kit with damper. For S-7110PQ41E
PCZ-AHRD0660	90° plenum for outdoor air kit with damper. For S-1014PQ51E
PCZ-AHRD0664	Telescopic kit. For plenum for outdoor air kit with damper. For S-7110PQ41E
PCZ-AHRD0665	Telescopic kit. For plenum for outdoor air kit with damper. For S-1014PQ51E
PCZ-AHRD0669	Grille for telescopic kit. For plenum for outdoor air kit with damper. For S-7110PQ41E
PCZ-AHRD0670	Grille for telescopic kit. For plenum for outdoor air kit with damper. For S-1014PQ51E

R32 REFRIGERANT | A++ 6,6 SEER | A+ 4,4 SCOP | INVERTER+ | -10 °C COOLING MODE | -15 °C HEATING MODE | DC FAN | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For S-1014PQ51E + U-100PZ3E5 and S-1014PQ51E + U-100PZ3E8. INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Big PACi NX Elite high static pressure hide-away 20,0-25,0 kW · R32

nanoe™ X (Generator Mark 3).
Maximum piping length 100 m.
High external static pressure, maximum 200 Pa setting.

nanoe™ X as a standard.

			Three phase	
			20,0 kW	25,0 kW
Kit			**KIT-200PE4ZH8**	**KIT-250PE4ZH8**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	19,0 (5,7 - 20,0)	22,0 (6,1 - 25,6)
EER [1]	Nominal (Min - Max)	W/W	3,20 (2,78 - 4,60)	2,74 (2,49 - 4,88)
$\eta_{s,c}$ [2]			**237,8%**	**213,0%**
Pdesign		kW	19,0	22,0
Input power	Nominal (Min - Max)	kW	5,93 (1,24 - 7,20)	8,04 (1,25 - 10,30)
Heating capacity	Nominal (Min - Max)	kW	22,4 (5,0 - 24,5)	24,0 (5,5 - 27,6)
Heating capacity at -15 °C [3]	Max	kW	16,8	19,0
COP [1]	Nominal (Min - Max)	W/W	3,55 (3,27 - 4,76)	3,55 (3,07 - 4,78)
$\eta_{s,h}$ [2]			**146,0%**	**145,0%**
Pdesign at -10 °C		kW	16,0	17,2
Input power	Nominal (Min - Max)	kW	6,31 (1,05 - 7,50)	6,76 (1,15 - 9,00)
Indoor unit			**S-200PE4E**	**S-250PE4E**
External static pressure at shipment (adjustable)		Pa	75 [4] (120 / 180)	75 [4] (130 / 200)
Air flow	Hi / Med / Lo	m³/min	72/63/53	84/72/59
Sound pressure [5]	Hi / Med / Lo	dB(A)	46/44/41	47/45/42
Dimension / Net weight	H x W x D	mm / kg	486 x 1456 x 916 / 83	486 x 1456 x 916 / 87
nanoe X Generator			Mark 3	Mark 3
Outdoor unit			**U-200PZH4E8**	**U-250PZH4E8**
Power supply		V / ph / Hz	380 - 400 - 415 / 3 / 50	380 - 400 - 415 / 3 / 50
Recommended fuse		A	30	30
Air flow	Cool / Heat	m³/min	116 / 136	116 / 148
Sound pressure	Cool / Heat (Hi)	dB(A)	57 / 61	57 / 63
Sound power	Cool / Heat (Hi)	dB(A)	76 / 80	76 / 82
Dimension [6] / Net weight	H x W x D	mm / kg	996 x 1140 x 460 / 109	996 x 1140 x 460 / 109
Piping diameter	Liquid / Gas	Inch (mm)	1/2 (12,7) / 7/8 (22,22)	1/2 (12,7) / 7/8 (22,22)
Pipe length range / Elevation difference (in / out)		m / m	5 ~ 100 / 30	5 ~ 100 / 30
Pre-charged pipe length / Additional gas amount		m / g/m	30 / 80	30 / 80
Refrigerant (R32) / CO_2 Eq.		kg / T	4,8 / 3,24	4,8 / 3,24
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-15 ~ +52
	Heat Min ~ Max	°C	-20 ~ +35	-20 ~ +35

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) The value is based on the interpolation. 4) Factory setting. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port.

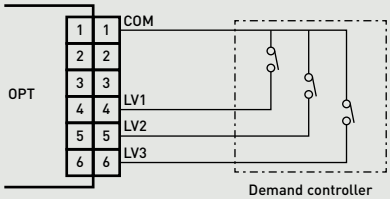
Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function

Accessories	
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC2	Commercial Wi-Fi Adaptor
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
PAW-GRDSTD1100	Outdoor ground stand
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
CZ-CENSC1	Econavi energy saving sensor

Demand response compliant as a standard function

Several setting levels are available:
· Level-1, 2, 3: 75 / 50 / 0%
· Level-1, 2 can be set in 40 - 100% (40, 45, 50...95, 100: each 5%)
It allows for forced stop which can be used for fire-alarm connection on LV3.

*PAW-OPT-NX is required.



Indoor unit control PCB

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

R32 REFRIGERANT | INVERTER+ | HIGH EFFICIENCY COMPRESSOR | -15 °C COOLING MODE | -20 °C HEATING MODE | nanoeX | BLUEFIN | LARGE FAN | R22 R410A → R32 R22 / R410A RENEWAL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

INTERNET CONTROL: Optional.

PACi NX Jet Air Stream · R32

Energy saving solution for year-round heating and cooling in large and high spaces.
High air volume up to 5000 m³/h and long maximum air throw distance of 30 m.
Optimal comfort with Smart Jet - self-directing nozzles.
Versatile controller options available including Wi-Fi control.

CZ-RTC5B

Air flow			2500 m³/h	2500 m³/h	5000 m³/h
Kit			**KIT-140MC5ZH5**	**KIT-140MC5ZH8**	**KIT-250MC5ZH8**
Remote controller			**CZ-RTC5B**	**CZ-RTC5B**	**CZ-RTC5B**
Cooling capacity	Nominal (Min - Max)	kW	14,1 (3,3 - 18,0)	14,1 (3,3 - 18,0)	24,2 (6,1 - 25,6)
EER [1]	Nominal (Min - Max)	W/W	3,46 (2,74 - 5,32)	3,46 (2,74 - 5,32)	3,80 (2,49 - 4,88)
$\eta_{s,c}$ [2]			**227%**	**227%**	**250%**
Pdesign		kW	—	—	—
Heating capacity	Nominal (Min - Max)	kW	14,0 (3,3 - 18,0)	14,0 (3,3 - 18,0)	26,7 (5,5 - 27,6)
COP [1]	Nominal (Min - Max)	W/W	3.88 (3,27 - 5,50)	3.88 (3,27 - 5,50)	3,74 (3,07 - 4,78)
$\eta_{s,h}$ [2]			**155%**	**155%**	**155%**
Pdesign at -10 °C		kW	11,0	11,0	18,5
			Jet Air Stream Smart	**Jet Air Stream Smart**	**Jet Air Stream Smart**
Indoor unit			**P-VTVF140MC5A-PE**	**P-VTVF140MC5A-PE**	**P-VTVF250MC5A-PE**
Nozzles type			Smart Jet - self-directing nozzles	Smart Jet - self-directing nozzles	Smart Jet - self-directing nozzles
Number of nozzles			2	2	4
External static pressure		Pa	170	170	170
Air flow		m³/h	2560	2560	5010
Sound pressure [3]	Cool / Heat	dB(A)	42	42	46
Sound power [4]	Hi / Med / Lo	dB(A)	—	—	—
Dimension [5] (H x W x D)		mm	808 x 1106 x 877	808 x 1106 x 877	1041 x 1458 x 930
Net weight		kg	93	93	140
Outdoor unit			**U-140PZH4E5**	**U-140PZH4E8**	**U-250PZH4E8**
Power supply		V / ph / Hz	220 - 230 - 240 / 1 / 50	380 - 400 - 415 / 3 / 50	380 - 400 - 415 / 3 / 50
Recommended fuse		A	40	16	30
Sound pressure	Cool / Heat (Hi)	dB(A)	56 / 56	56 / 56	59 / 63
Dimension / Net weight	H x W x D	mm / kg	996 x 980 x 370 / 86	996 x 980 x 370 / 84	996 x 1140 x 460 / 109
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	7/8 (22,22)
Pipe length range		m	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out)		m	15 / 30 [5]	15 / 30 [5]	30
Pre-charged pipe length		m	30	30	30
Additional gas amount		g/m	40	40	80
Refrigerant (R32) / CO_2 Eq.		kg / T	3,00 / 2,03	3,00 / 2,03	4,80 / 3,24
Operating range	Cool Min ~ Max	°C	-20 [6] ~ +52	-20 [6] ~ +52	-15 ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +35

1) EER and COP calculation is based in accordance to EN 14511. 2) For models above 12 kW, the $\eta_{s,c}$ / $\eta_{s,h}$ values is calculated based on EN 14825. 3) Average sound pressure at 5 m Lp. 4) Radiated sound power at 5 m Lp. 5) Outdoor unit located lower / outdoor unit located higher. 6) Pipe length up to 30 m. 5) Nozzles and Ducts thickness included.

Optional configurations*		Front panel type	Air flow (m³/h)	Dimension / Net weight
P-VTVF140NC5A-PE	Jet Air Stream Standard	Manual nozzles	2500	808 x 1106 x 877 / 93
P-VTVF250NC5A-PE	Jet Air Stream Standard	Manual nozzles	5000	1041 x 1458 x 930 / 140
P-VTVF140PC5A-PE	Jet Air Stream Ducted	Ducted front panel	2500	808 x 1106 x 910 / 93
P-VTVF250PC5A-PE	Jet Air Stream Ducted	Ducted front panel	5000	1041 x 1458 x 963 / 140

*The product technical data is the same as Jet Air Stream Smart.

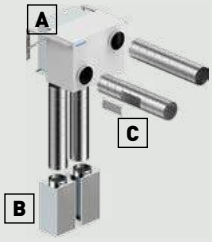
Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC2	Commercial Wi-Fi Adaptor

Accessories	
PCZ-AHRX0056	Ducted air intake plenum (1 x DN 355 mm) for VTVF140N and VTVF140P
PCZ-AHRX0057	Ducted air intake plenum (2 x DN 355 mm) for VTVF250N and VTVF250P
PCZ-AHRX0061	Ground air intake module (VTVF250 requires two of them)
PCZ-AHRX0071	Air supply grille for ducts

Accessories for remote air intake configurations.

Manual version.

Ducted version.



A: PCZ-AHRX0056 / PCZ-AHRX0057
B: PCZ-AHRX0061
C: PCZ-AHRX0071

R32 REFRIGERANT | INVERTER+ | HIGH EFFICIENCY COMPRESSOR | -20 °C HEATING MODE | SUPER QUIET | R22 R410A → R32 R22 / R410A RENEWAL | 5 YEARS COMPRESSOR WARRANTY

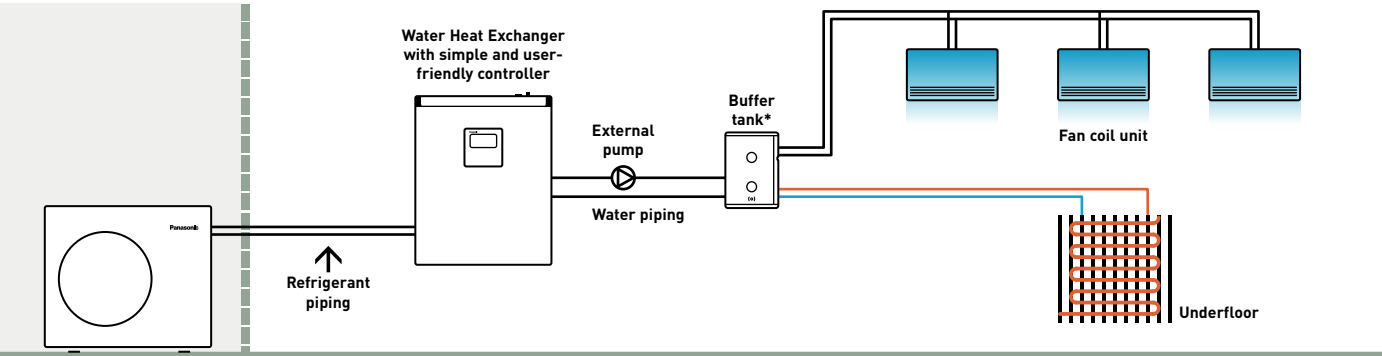
Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

PACi NX with Water Heat Exchanger for chilled and hot water production

A highly-efficient Water Heat Exchanger for PACi NX Series.
This ground-breaking product provides further possibilities by adding hydronic options.

Highly-efficient Water Heat Exchanger for PACi NX Series.

System example.



*Minimum buffer tank volume: 10 L/kW. **Diagram is for illustrative purpose only.

1 Cost saving solution

- A+++ Energy efficiency class (scale from A+++ to D)
- Cost effective water projects thanks to lower cost for PACi NX compared to VRF
- Reducing the amount of HFC refrigeration in the project

2 Flexible and space saving system

- 2 installation possibilities (wall-mounted / floor-standing)
- Compact, lightweight unit design, only 27 kg

3 Easy installation, maintenance

- Quick mounting process
- Flow switch kit is included as a standard
- Direct access to electrical box
- Operation down to -20 °C ambient without the need for glycol

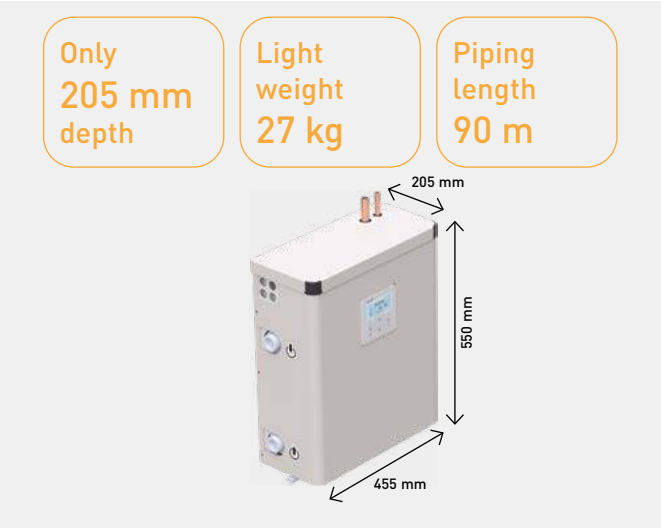
Flexible and space saving system

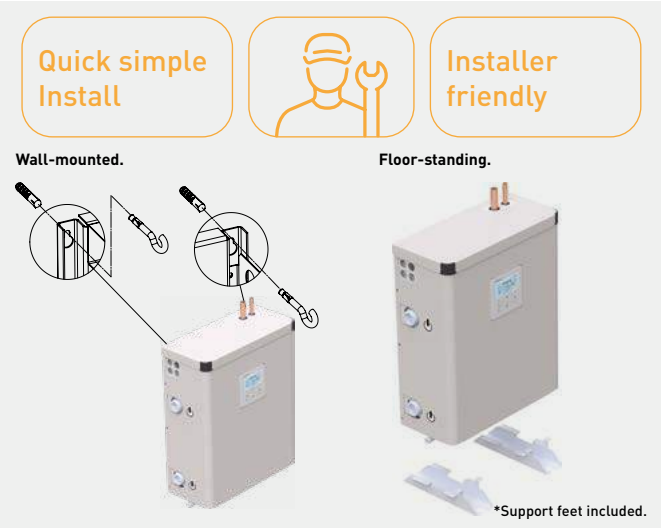
Compact and light unit.

- Only 205 mm depth fits within a limited space
- Lightweight design at only 27 kg, makes it easy to maneuver and position
- Maximum total refrigerant piping length: 100 m

2 installation options.

- Wall-mounted and floor-standing installation options are available. Free-up floor space by using the wall-mounted installation
- Quick mounting process with its lightweight compact design Make fixing holes > Fix 2 screws > Hang the unit > Finish





Foodchain/Small office application

- Fulfilling R32 refrigerant needs to follow environmental perspective, Company policy
- Hydraulic system to reduce total amount of HFC refrigeration
- Water solution to substitute electric heating system

Foodchain.

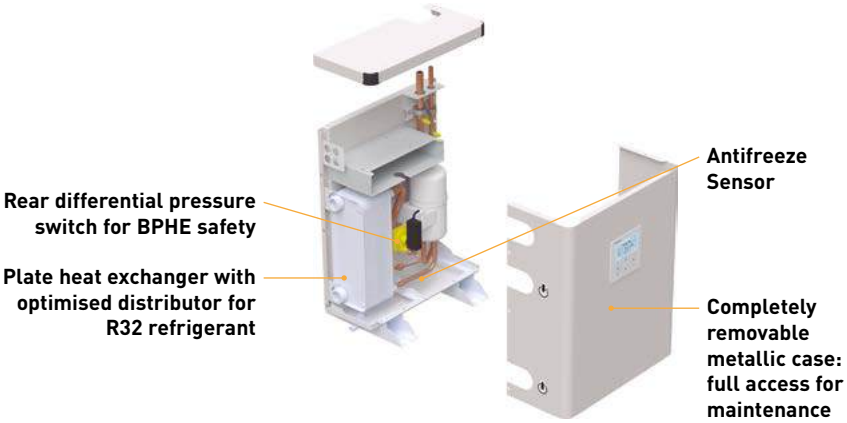
Residential/Commercial retail application

- Water solution to substitute existing boiler system
- For heating projects with longer than 50 m piping

Commercial retail.

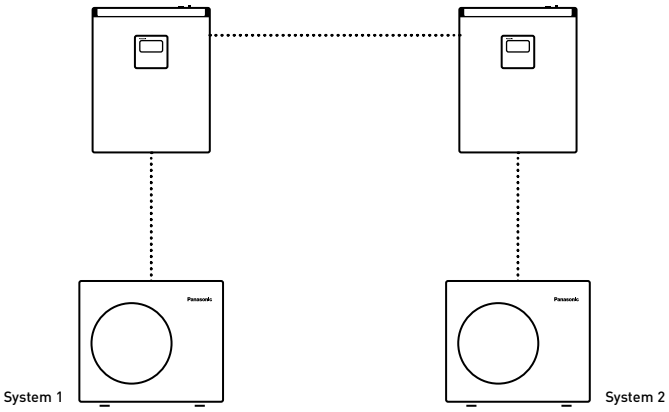
PACi NX Water Heat Exchanger (WHE) is the ideal solution for residential and commercial applications; the investment costs can be amortised in a short period.

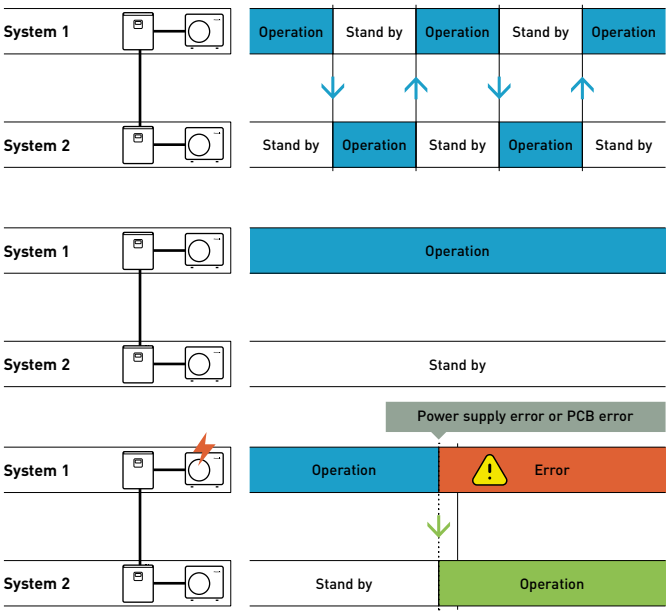
Easy maintenance operation from two points of access



Integrated cascade control as standard for maximum ease and flexibility

Built-in cascade control for 2 units.
The control of 2 refrigerant systems can be combined together in a cascade. This option is included in the standard scope of delivery on the WHE. It is activated using the one of the CZ-RTC5B remote controllers on the units as master. Rotation and Backup operation modes can be selected.





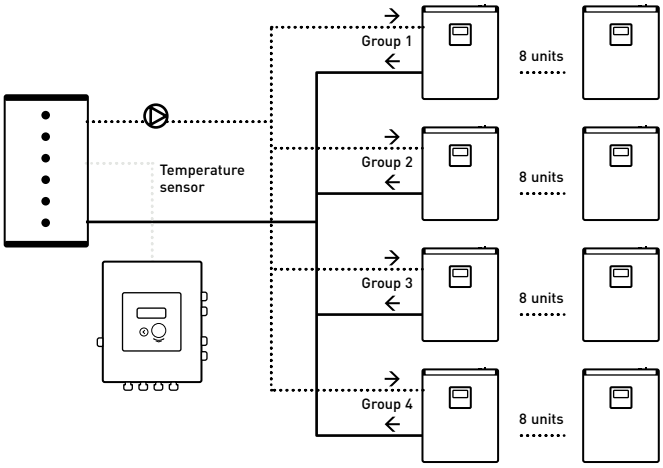
*One of built-in controllers should be deactivated.

PACi NX Water Heat Exchanger can be connected as a cascade with up to 4 groups of 8 units, reaching up to 800 kW

Optional PAW-PACR4 cascade controller allows up to four groups, with each group containing between 1-8 units, to be combined into a cascade for failure substitution or temperature assist.

- Maximum 4 groups (up to 8 units per group)
- Rotation
- Failure substitution
- Temperature assist
- Operation output signal
- Alarm output signal

Example: 4 x groups.
Maximum available capacity per group: 8 x 25 kW = 200 kW.
Total maximum available capacity: 4 x 200 kW = 800 kW.



PACi NX with Water Heat Exchanger for chilled and hot water production

Hydronic solution with PACi NX for a quick return on investment.
Constant 55 °C flow available.

Short-term investment recovery.

PACi NX Water Heat Exchanger is ideal for small offices and retails. The investment costs can be amortised within a very short period. This solution allows investors and operators to save money.

Model			PAW-200W5APAC-2	PAW-250W5APAC-2
Cooling capacity [1]		kW	17,92	22,98
EER [1]		W/W	2,95	2,65
Heating capacity [2]		kW	23,06	26,00
COP [2]		W/W	3,69	3,47
Energy efficiency class (Scale A+++ to D) [3]	**35 °C (low temperature HP)**		**A+++**	**A+++**
	55 °C (low temperature HP)		**A++**	**A+**
$\eta_{s,h}$ (LOT1) [4]			**179,8%**	**176,5%**
Dimension	H x W x D	mm	550 x 455 x 205	550 x 455 x 205
Net weight		kg	27	27
Water pipe connector		Inch	Male Thread 1 ¼	Male Thread 1 ¼
Cooling water flow (ΔT=5 K. 35 °C)		m³/h	3,45	4,30
Heating water flow (ΔT=5 K. 35 °C)		m³/h	4,15	4,85
Flow switch			Included	Included
Water filter			Included	Included
Outdoor unit			**U-200PZH4E8**	**U-250PZH4E8**
Sound pressure	Cool / Heat (Hi)	dB(A)	57 / 61	57 / 63
Dimension [5]	H x W x D	mm	996 x 1140 x 460	996 x 1140 x 460
Net weight		kg	109	109
Piping diameter	Liquid	Inch (mm)	1/2 (12,70)	1/2 (12,70)
	Gas	Inch (mm)	7/8 (22,20)	7/8 (22,20)
Pipe length range		m	5 ~ 100	5 ~ 100
Elevation difference (in / out)		m	30	30
Pre-charged pipe length		m	30	30
Additional gas amount		g/m	80	80
Water outlet temperature range	Cool Min ~ Max	°C	+5 ~ +15	+5 ~ +15
	Heat Min ~ Max	°C	+30 ~ +55	+30 ~ +55
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-15 ~ +52
	Heat Min ~ Max	°C	-20 ~ +35	-20 ~ +35

1) Data refers to 7 °C leaving chilled water temperature and 35 °C ambient air temperature, according to EN 14511 standard. 2) Data refers to 35 °C leaving warm water temperature and 7 °C ambient air temperature according to EN 14511 standard. 3) Following COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D. 4) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 5) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port.

Professional solution

Many air conditioning manufacturers are selling R32 systems and it is becoming the standard refrigerant for split type air conditioning, because R32 has a much lower global warming potential than R410A, and can also provide higher efficiency.

Quick installation with pre-assembled flow switch

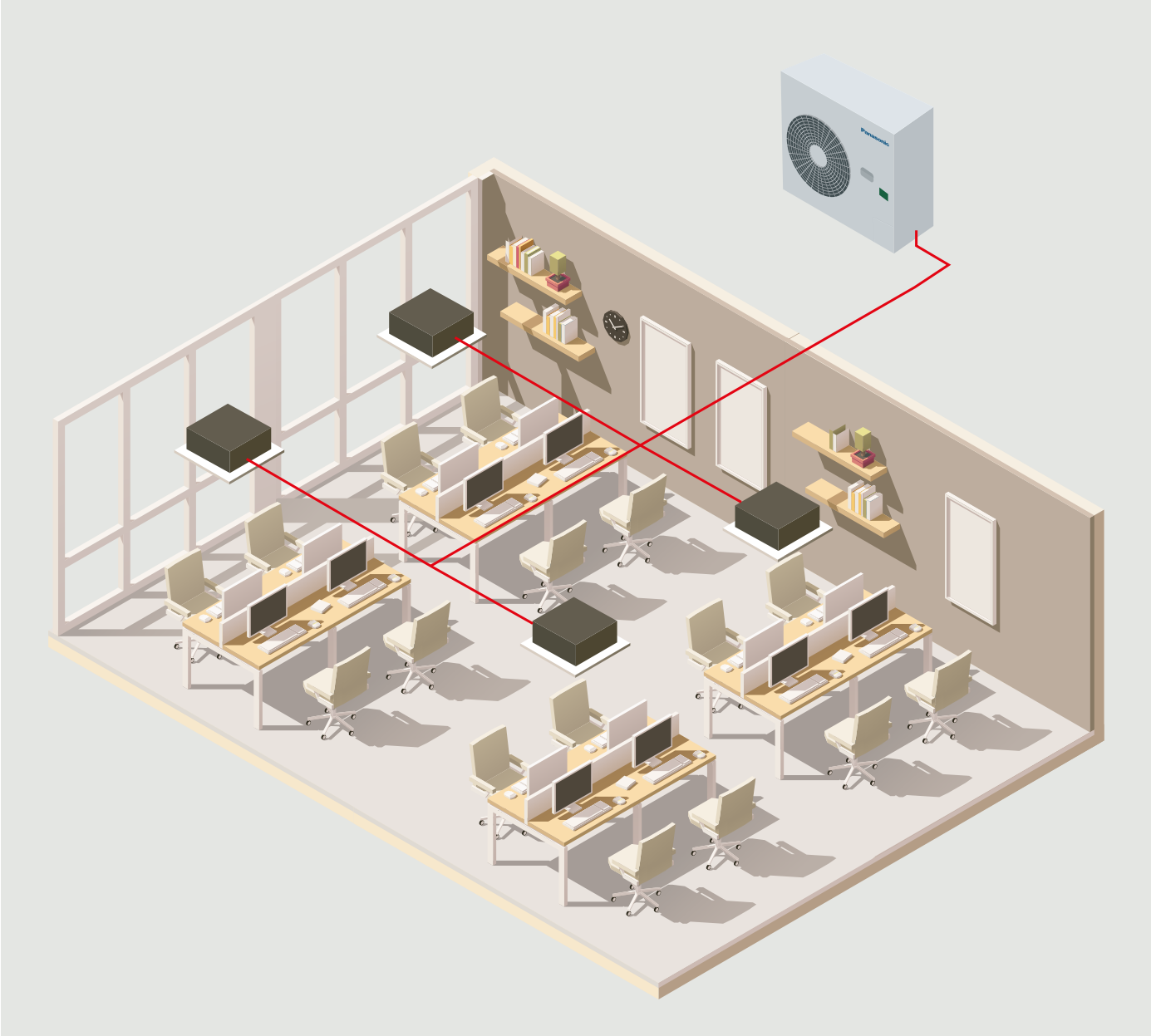
The flow switches come pre-assembled with pipe fittings for ease of installation.
Operation down to -20 °C with no glycol as the heat exchanger is installed indoors.

R32 REFRIGERANT | A+++ ErP 35 °C | -20 °C HEATING MODE | 46 °C COOLING MODE | ADVANCED CONTROL | 5 YEARS COMPRESSOR WARRANTY

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Commercial twin, triple and double-twin systems

With this system, a single outdoor unit can split its capacity simultaneously across up to 4 indoor units, for better distribution within the space. This makes the system particularly apt for common areas. It reduces noise concentration and enables the same temperature to be reached around the room. A wide variety of the same type of indoor units can be connected in multi combinations (including wall-mounted, cassette, hide-away and ceiling).



1 **PACi NX Elite from 5,0 to 14,0 kW**

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's Elite units 5,0, 7,1, 10,0, 12,0 and 14,0 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

2 **Big PACi NX Elite from 20,0 to 25,0 kW**

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's PACi NX units 20,0 and 25,0 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

3 **PACi NX Standard from 10,0 to 14,0 kW**

Up to 2 indoor units connectable on the same outdoor. Panasonic's Standard units can be installed as single and twin systems. The indoor units can be combined following the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

Commercial twin, triple and double-twin systems

PACi NX Elite outdoor units · R32

			PACi NX					Big PACi NX	
			5,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
Outdoor unit single phase			U-50PZH3E5	U-71PZH4E5	U-100PZH4E5	U-125PZH4E5	U-140PZH4E5	—	—
Outdoor unit three phase			—	U-71PZH4E8	U-100PZH4E8	U-125PZH4E8	U-140PZH4E8	U-200PZH4E8	U-250PZH4E8
Cooling capacity [1]	Nominal (Min - Max)	kW	5,0 (1,2 - 5,6)	7,1 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,5 (3,2 - 14,0)	13,4 (3,3 - 16,0)	19,0 (5,7 - 20,0)	22,0 (6,1 - 25,6)
Heating capacity [1]	Nominal (Min - Max)	kW	5,6 (1,2 - 6,5)	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)	22,4 (5,0 - 24,5)	24,0 (5,5 - 27,6)
Power supply	Single phase	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	—	—
	Three phase	V	—	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Connection indoor / outdoor		mm²	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	—	—
Air flow	Cool / Heat	m³/min	42,0 / 42,0	62,0 / 66,0	76,0 / 70,0	86,0 / 78,0	89,0 / 83,0	164 / 164	160 / 160
Sound pressure	Cool / Heat (Hi)	dB(A)	46 / 48	48 / 50	52 / 52	55 / 55	56 / 56	59 / 61	59 / 63
Sound power	Cool / Heat (Hi)	dB(A)	64 / 67	65 / 67	69 / 69	73 / 73	74 / 74	77 / 79	78 / 82
Dimension	H x W x D	mm	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 1140 x 460	996 x 1140 x 460
Net weight	1ph / 3ph	kg	42	66	84 / 82	86 / 84	86 / 84	109	109
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)
	Gas	Inch (mm)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	7/8 (22,22)	7/8 (22,22)
Pipe length range	Min ~ Max	m	3 ~ 40	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out)	Max	m	15 / 30	15 / 30 [2]	15 / 30 [2]	15 / 30 [2]	15 / 30 [2]	30	30
Pre-charged pipe length		m	30	30	30	30	30	30	30
Additional gas amount		g/m	15	30	40	40	40	80	80
Refrigerant (R32) / CO_2 Eq.		kg / T	1,13 / 0,76	1,95 / 1,32	2,70 / 1,82	3,00 / 2,03	3,00 / 2,03	4,80 / 3,24	4,80 / 3,24
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +52	-20 [3] ~ +52	-20 [3] ~ +52	-20 [3] ~ +52	-15 ~ +52	-15 ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +35	-20 ~ +35

1) 5,0 kW with wall-mounted. 7,1 - 14,0 kW with 4 way 90x90 cassette. 20,0 - 25,0 kW with high static pressure hide-away. 2) Outdoor unit located lower / outdoor unit located higher. 3) Pipe length up to 30 m.

PACi NX Standard outdoor units · R32

			10,0 kW	12,5 kW	14,0 kW
Outdoor unit single phase			U-100PZ3E5	U-125PZ3E5	U-140PZ3E5
Outdoor unit three phase			U-100PZ3E8	U-125PZ3E8	U-140PZ3E8
Cooling capacity [1]	Nominal (Min - Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
Heating capacity [1]	Nominal (Min - Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
Power supply	Single phase	V	220-230-240	220-230-240	220-230-240
	Three phase	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Connection indoor / outdoor		mm²	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5
Air flow	Cool / Heat	m³/min	73,0 / 73,0	82,0 / 80,0	84,0 / 82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52 / 52	55 / 55	56 / 56
Sound power	Cool / Heat (Hi)	dB(A)	70 / 70	73 / 73	74 / 74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range	Min ~ Max	m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) [2]	Max	m	15 / 30	15 / 30	15 / 30
Pre-charged pipe length		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO_2 Eq.		kg / T	2,4 / 1,62	2,8 / 1,89	2,8 / 1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24

1) With 4 way 90x90 cassette. 2) Outdoor unit located lower / outdoor unit located higher.

R32 REFRIGERANT | INVERTER+ | HIGH EFFICIENCY COMPRESSOR | DC FAN | R22 R410A → R32 R22 / R410A RENEWAL | 5 YEARS COMPRESSOR WARRANTY

Compatible indoor units for multi combinations

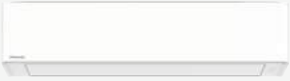
Optional:

CONEX wired remote controller, white. CZ-RTC6W/BL/BLW2

CONEX wired remote controller, black. CZ-RTC6/BL/BLW2

Wired remote controller. CZ-RTC5B

Econavi sensor. CZ-CENSC1



Wall-mounted - PK4	Indoor unit	Cooling capacity	Heating capacity	Dimension	Sound pressure [1]	Air flow [2]
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
2,5 - 5,0 kW	S-2545PK4E	2,5 - 5,0	2,8 - 5,6	290 x 765 x 214	39/34/29 - 41/36/30 - 41/36/31	10,5/19,0/17,0 - 11,5/19,5/7,0 - 17,0/15,5/12,0
6,0 - 7,1 kW	S-5010PK4E	6,1 - 7,1	6,1 - 7,8	295 x 1060 x 249	47/44/40 - 47/44/40	21,0/19,0/16,5 - 21,0/19,0/16,5
10,0 kW	S-5010PK4E	9,5	9,5	295 x 1060 x 249	49/45/41	22,5/20,0/17,5

Panels (sold separately):

Panel, white (RAL9003). CZ-KPY4W

Panel, graphite black (RAL9011). CZ-KPY4B

4 way 60x60 cassette - PY3	Indoor unit (panel CZ-KPY4)	Cooling capacity	Heating capacity	Dimension indoor / panel	Sound pressure [1]	Air flow [2]
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
2,5 kW	S-25PY3E	2,5	3,2	243 x 575 x 575 / 30 x 625 x 625	31/28/25	8,5/7,0/6,0
3,6 kW	S-36PY3E	3,6	4,0	243 x 575 x 575 / 30 x 625 x 625	34/30/25	9,5/7,5/6,0
5,0 kW	S-50PY3E	5,0	5,6	243 x 575 x 575 / 30 x 625 x 625	39/34/27	12,0/9,5/6,5
6,0 kW	S-60PY3E	6,0	7,0	243 x 575 x 575 / 30 x 625 x 625	43/37/31	14,0/10,5/8,0

Panels (sold separately):

Standard, white (RAL9003). CZ-KPU3

Econavi, white (RAL9003). CZ-KPU3A

Standard, graphite black (RAL9011). CZ-KPU3B

4 way 90x90 cassette - PU3	Indoor unit (panels CZ-KPU3 / CZ-KPU3B / CZ-KPU3A)	Cooling capacity	Heating capacity	Dimension indoor / panel	Sound pressure [1]	Air flow [2]
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
3,6 - 5,0 kW	S-3650PU3E	3,6 - 5,0	4,0 - 5,6	256 x 840 x 840 / 33,5 x 950 x 950	30/28/27 - 32/29/27	14,5/13,0/11,5 - 16,5/13,5/11,5
6,0 - 7,1 kW	S-6071PU3E	6,0 - 7,1	7,0 - 8,0	256 x 840 x 840 / 33,5 x 950 x 950	36/31/28 - 37/31/28	21,0/16,0/13,0 - 22,0/16,0/13,0
10,0 - 12,5 kW	S-1014PU3E	10,0 - 12,5	11,2 - 14,0	319 x 840 x 840 / 33,5 x 950 x 950	45/38/32 - 46/39/33	36,0/26,0/18,0 - 37,0/27,0/19,0
14,0 kW	S-1014PU3E	14,0	16,0	319 x 840 x 840 / 33,5 x 950 x 950	47/40/34	38,0/29,0/20,0

Ceiling - PT3	Indoor unit	Cooling capacity	Heating capacity	Dimension	Sound pressure [1]	Air flow [2]
				H x W x D	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
3,6 - 5,0 kW	S-3650PT3E	3,5 - 5,0	4,0 - 5,6	235 x 960 x 690	36/32/28 - 37/33/28	14,0/12,0/10,5 - 15,0/12,5/10,5
6,0 - 7,1 kW	S-6071PT3E	6,0 - 6,8	7,0 - 8,0	235 x 1275 x 690	38/34/29 - 39/35 /30	20,0/17,0/14,5 - 21,0/18,0/15,5
10,0 - 12,5 kW	S-1014PT3E	9,5 - 12,1	11,2 - 14,0	235 x 1590 x 690	42/37/34 - 46/40/35	30,0/25,0/23,0 - 34,0/28,0/24,0
14,0 kW	S-1014PT3E	13,4	16,0	235 x 1590 x 690	47/41/36	35,0/29,0/25,0

Adaptive ducted unit - PF3	Indoor unit	Cooling capacity	Heating capacity	Dimension	External static pressure	Sound pressure [1]	Air flow [2]
				H x W x D	Nominal (Min - Max)	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	Pa	dB(A)	m³/min
3,6 - 5,0 kW	S-3650PF3E	3,6 - 5,0	4,0 - 5,6	250 x 800 x 730	30 (10 - 150) - 30 (10 - 150)	30/27/22 - 34/30/25	14,0/13,0/10,0 - 16,0/15,0/12,0
6,0 - 7,1 kW	S-6071PF3E	5,7 - 6,8	7,0 - 7,5	250 x 1000 x 730	30 (10 - 150) - 30 (10 - 150)	30/26/23 - 30/26/23	21,0/19,0/15,0 - 21,0/19,0/15,0
10,0 - 12,5 kW	S-1014PF3E	9,5 - 12,1	10,8 - 13,5	250 x 1400 x 730	40 (10 - 150) - 50 (10 - 150)	33/29/25 - 35/31/27	32,0/26,0/21,0 - 34,0/29,0/23,0
14,0 kW	S-1014PF3E	13,4	15,5	250 x 1400 x 730	50 (10 - 150)	39/35/29	36,0/32,0/25,0

*The data shown in these tables are based on PACi NX Elite combinations. 1) The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 2) Factory setting.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Simultaneous operation system combinations

PACi NX Elite from 5,0 to 25,0 kW simultaneous operation system combinations · R32

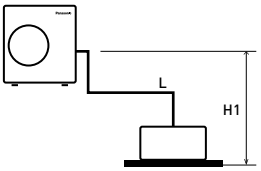
		Outdoor						
Capacity	**Indoor**	**5,0 kW**	**7,1 kW**	**10,0 kW**	**12,5 kW**	**14,0 kW**	**20,0 kW**	**25,0 kW**
2,5 kW	S-25PY3E S-2545PK4E	Twin 2,5 2,5 U-50	Triple 2,5 2,5 2,5 U-71	Double-twin 2,5 2,5 2,5 2,5 U-100				
3,6 kW	S-36PY3E S-3650PF3E S-2545PK4E S-3650PT3E S-3650PU3E		Twin 3,6 3,6 U-71	Triple 3,6 3,6 3,6 U-100	Double-twin 3,6 3,6 3,6 3,6 U-125			
4,5 kW	S-3650PF3E S-2545PK4E S-3650PT3E S-3650PU3E				Triple 4,5 4,5 4,5 U-125			
5,0 kW	S-50PY3E S-3650PF3E S-5010PK4E S-3650PT3E S-3650PU3E			Twin 5,0 5,0 U-100		Triple 5,0 5,0 5,0 U-140	Double-twin 5,0 5,0 5,0 5,0 U-200	
6,0 kW	S-60PY3E S-6071PF3E S-5010PK4E S-6071PT3E S-6071PU3E				Twin 6,0 6,0 U-125			Double-twin 6,0 6,0 6,0 6,0 U-250
7,1 kW	S-6071PF3E S-5010PK4E S-6071PT3E S-6071PU3E					Twin 7,1 7,1 U-140	Triple 7,1 7,1 7,1 U-200	
10,0 kW	S-1014PF3E S-5010PK4E S-1014PU3E						Twin 10,0 10,0 U-200	
12,5 kW	S-1014PF3E S-1014PU3E							Twin 12,5 12,5 U-250

PACi NX Standard from 10,0 to 14,0 kW simultaneous operation system combinations · R32

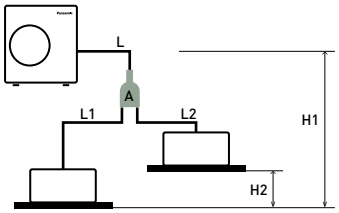
		Outdoor		
Capacity	**Indoor**	**10,0 kW**	**12,5 kW**	**14,0 kW**
5,0 kW	S-50PY3E S-3650PF3E S-5010PK4E S-3650PT3E S-3650PU3E	Twin 5,0 5,0 U-100		
6,0 kW	S-60PY3E S-6071PF3E S-5010PK4E S-6071PT3E S-6071PU3E		Twin 6,0 6,0 U-125	
7,1 kW	S-6071PF3E S-5010PK4E S-6071PT3E S-6071PU3E			Twin 7,1 7,1 U-140

Refrigerant piping arrangements

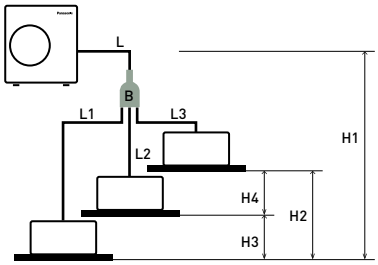
Single



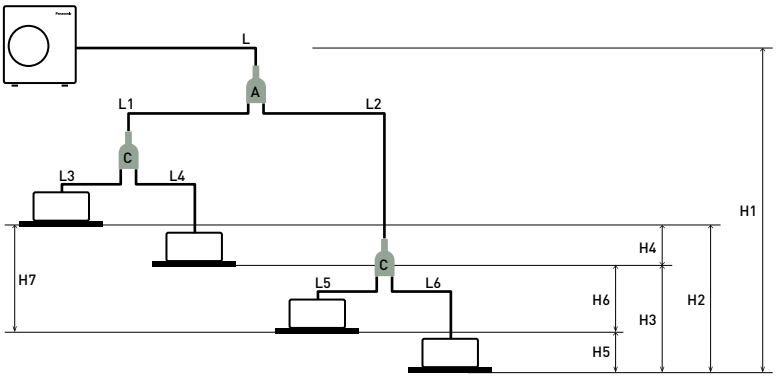
Twin



Triple



Double-twin



PACi NX Elite twin, triple and double-twin system from 5,0 to 14,0 kW
Joint distribution (sold separately)
A= CZ-P224BK2BM
B= CZ-P3 HPC2BM
C= CZ-P224BK2BM

Big PACi NX Elite twin, triple and double-twin system from 20,0 to 25,0 kW
Joint distribution (sold separately)
A= CZ-P680BK2BM
B= CZ-P3 HPC2BM
C= CZ-P224BK2BM

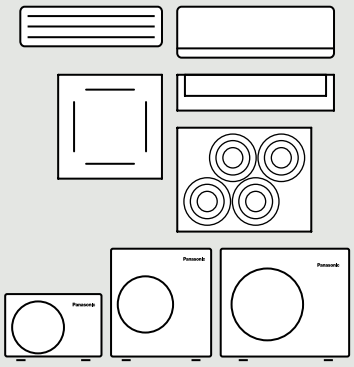
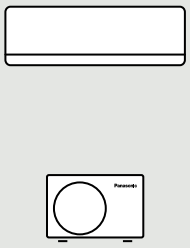
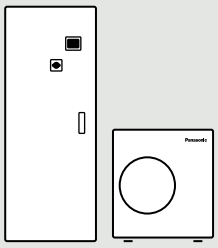
PACi NX Standard twin system from 10,0 to 14,0 kW
Joint distribution (sold separately)
A= CZ-P224BK2BM

Twin System	PACi NX Standard single and twin system from 7,1 to 14,0 kW			PACi NX Elite twin, triple and double-twin system from 5,0 to 25,0 kW					
	Indoor unit combinations (see examples above)		Equivalent lengths and height differences (m) for outdoor unit sizes...	Indoor unit combinations (see examples above)				Equivalent lengths and height differences (m) for outdoor unit sizes from 5,0 to 14,0 kW	Equivalent lengths and height differences (m) for outdoor unit sizes from 20,0 to 25,0 kW
	Single	Twin		Single	Twin	Triple	Double-twin		
Total pipe length	L	L + L1 + L2	⩽ 50 m	L	L + L1 + L2	L + L1 + L2 + L3	L + L1 + L2 + L3 + L4 + L5 + L6	U-50/60: 40 m U-71: 60 m U-100/125/140: ⩽ 100 m	U-200/250: ⩽ 100 m
Maximum pipe length from outdoor unit to most distant indoor unit	-	-	-	-	L + L1 or L + L2	L + L1 or L + L2 or L + L3	L + L1 + L3 or L + L1 + L4 or L + L2 + L5 or L + L2 + L6	-	U-200: 90 m U-250: 60 m
Maximum branch pipe length	-	L1 L2	⩽ 15	-	L1 or L2	L1 or L2 or L3	L1 + L3 or L1 + L4 or L2 + L5 or L2 + L6	⩽ 15 m	⩽ 20 m
Maximum branch pipe length differences	-	L1 > L2 L1 - L2	⩽ 10	-	L1 > L2: L1 - L2	L1 > L2 > L3: L1 - L2 L2 - L3 L1 - L3	L2 + L6 (Max.) L1 + L3 (Min.): (L2 + L6) - (L1 + L3)	⩽ 10 m	⩽ 10 m
Maximum pipe length differences after first branch (Double-twin)	-	-	-	-	-	-	L2 > L1: L2 - L1	⩽ 10 m	⩽ 10 m
Maximum pipe length differences after second branch (Double-twin)	-	-	-	-	-	-	L4 > L3: L4 - L3 L6 > L5: L6 - L5	⩽ 10 m	⩽ 10 m
Height difference (outdoor unit located higher)	H1	H1	⩽ 30	H1	H1	H1	H1	⩽ 30 m	⩽ 30 m
Height difference (outdoor unit located lower)	H1	H1	⩽ 15	H1	H1	H1	H1	⩽ 15 m	⩽ 15 m
Height difference between indoor units	-	H2	⩽ 0,5	-	H2	H2 or H3 or H4	H2 or H3 or H4 or H5 or H6	⩽ 0,5 m	⩽ 0,5 m

Make additional charges by adding up tube length in an order of main tube (L) > branch tube (L1 > L2 > L3 wide diameter) and then selecting the amount of refrigerant corresponding to the remaining (after charge-less tube length: 30 m) liquid tube diameter and tube length from the above table.
For pipe sizes and refrigerant charge, please refer to the technical instructions or design software.

PACi NX – A versatile solution for comfort and specialised cooling applications

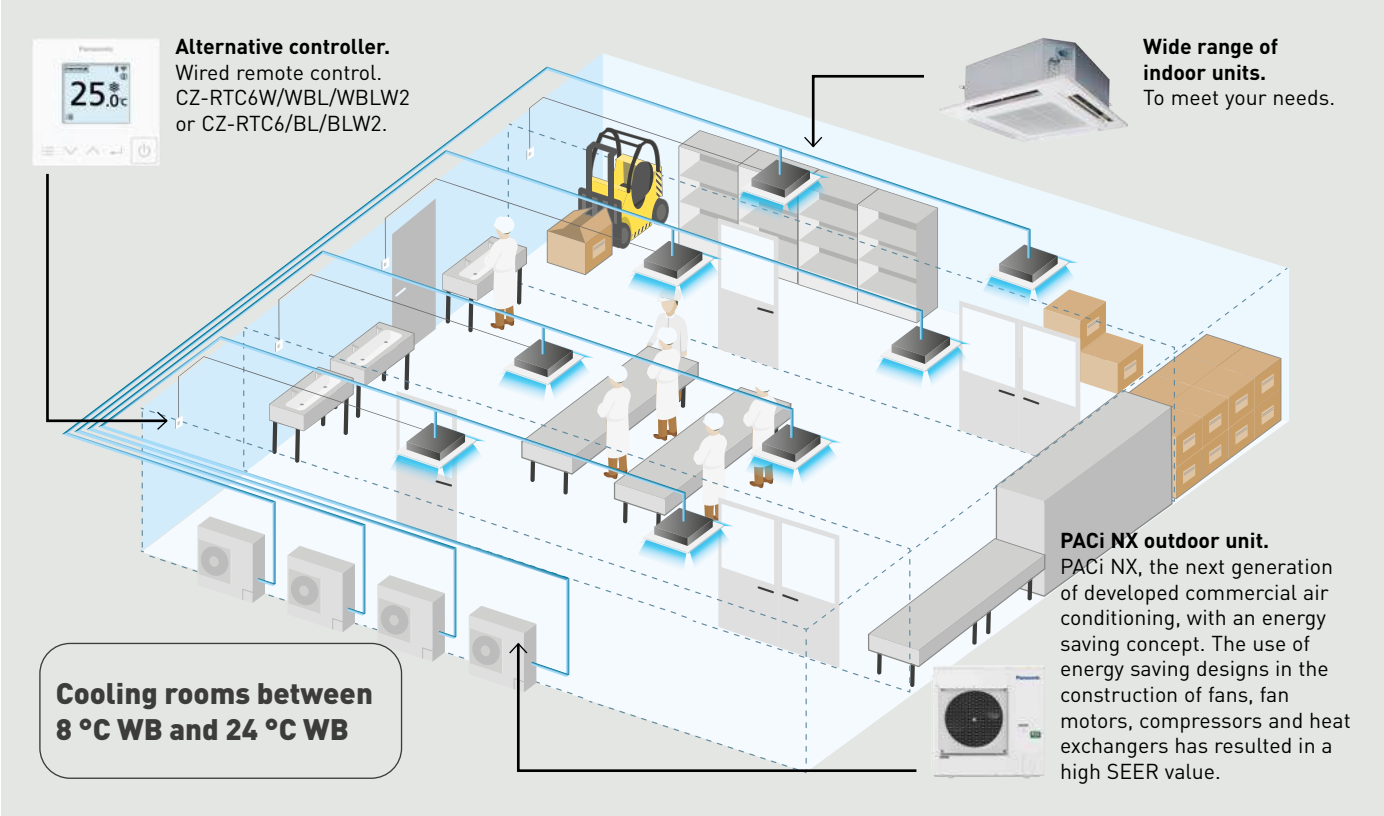
Not only delivering efficient heating and cooling for everyday comfort, the PACi NX range is also engineered for critical environments such as wine cellars, server rooms, and museums where performance beyond standard comfort operation is essential.

Specialised cooling application	**Cold rooms** Examples: Wine cellars	**Small server room – 24/7/365 operation**	**Small critical environment** Examples: Museum, laboratory
			
	Low temperature unit configuration	**YKEA Series**	**P Series**
PACi NX solution	Cooling operation down to 8 °C. Flexibility with different type of indoors and controllers. nanoe™ X to improve indoor air quality.	Cooling operation down to -25 °C. Redundancy control options. Exceptional efficiency: SEER 9,6 (A+++)*. *Model: 3,5 kW.	Close control solution for precise cooling. Strict control of temperature and humidity. Advanced control with integrated Modbus.
Capacity range	**3,5 kW – 23,2 kW**	**2,5 kW – 7,1 kW**	**7,5 kW – 20,5 kW**

PACi NX Elite can cool rooms down to 8 °C

Panasonic PACi NX Elite offers a high quality and efficient solution for high temperature refrigeration applications for facilities such as wine cellars, food processing facilities and supermarkets.

REFER TO PAGE 650 FOR DETAILED SPECIFICATIONS

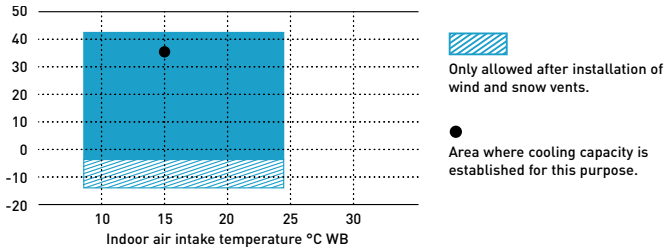


- Flexibility with different type of indoors
- Benefits of hydroxyl radicals
- Provides wide scale of control options (individual, central, remote multi-site monitoring)
- Redundancy for 2 systems with CONEX controller range and up to 4 indoor unit groups with PAW-PACR4 optional redundancy controller

Wine cellars and special high temperature rooms

One of the main features of the PACi NX series is the possibility of adjusting the product for special applications, not just for regular cooling applications. The purpose of this product information is to explain in detail these special applications that need a cooling operation to maintain the room temperature at +8 ~ +24 °C WB (or +10 ~ +30 °C DB). In order to do this in terms of enthalpy, the indoor unit needs to be overdimensioned and certain parameters need to be adjustable.

Temperature range for wine cellar.
In cooling. Outdoor air intake temperature °C DB.



Temperature range		
	Indoor	Outdoor
Cooling operation	+8 ~ +24 °C WB	-5 (-15) ~ 43 °C DB

YKEA series for server rooms

High-efficiency products for 24/7 applications.

Panasonic has developed a complete range of solutions for server rooms which efficiently protect your servers, keeping them at an appropriate temperature even when the outdoor temperature is below -25 °C.

NON STOP OPERATION 24/7/365

1 Designed for 24h/7d a week operation

High-efficiency all year round. This wall-mounted air conditioner is designed for professional, critical applications such as computer rooms where reliable cooling inside the room is necessary even with extreme ambient conditions.

2 Highest energy rating in cooling

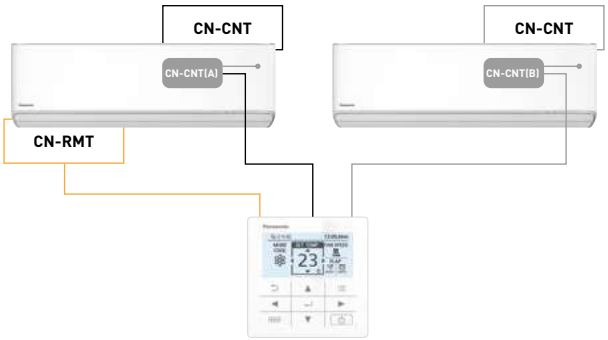
The SEER and SCOP of the Server room unit has been further improved to achieve top class energy efficiency. The 3,5 kW unit reaches now the SEER value of 9,6 (A+++).

3 Built-in Wi-Fi and compatible with Voice Assistant

The unit is ready to connect to the internet and to be controlled by smartphone with Panasonic Comfort Cloud App. Control, monitor energy consumption statistics and easily identify errors in case of failure.

4 Remote controller for better usability

Wired remote controller, which can assure the operation 24/7 of two server room units, thanks to the integrated duty rotation mode. This function manages rotation and backup of two units and it is available when connecting an optional CN-CNT cable (CZ-RCC5) between the controller and each of the two indoor units.



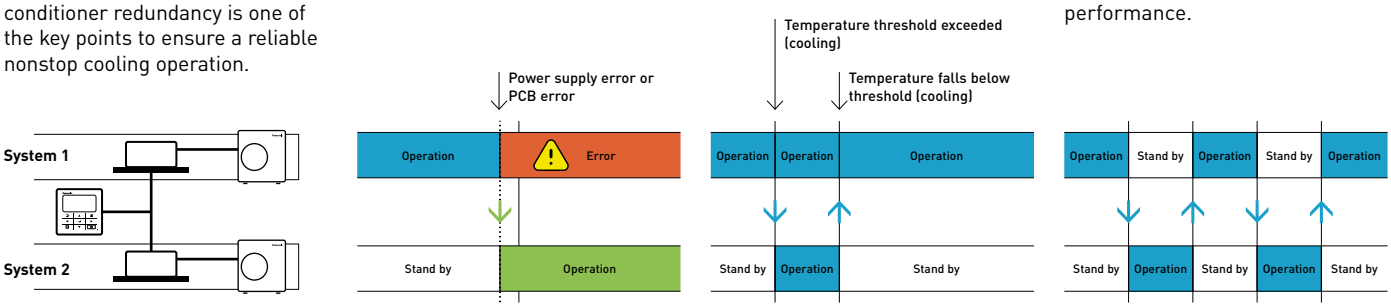
Redundancy ensured by three different functionalities.

Computer and server rooms are very sensitive areas of application. Any downtime caused by high room temperatures must be avoided by any means. Air conditioner redundancy is one of the key points to ensure a reliable nonstop cooling operation.

1 | Backup operation.
If one air conditioner stops, another automatically takes over to maintain cooling.

2 | Support operation.
If one unit can't meet demand, another starts automatically to assist.

3 | Rotation operation.
The system rotates between main and backup units to balance operating hours, providing continuous and efficient performance.



Wall-mounted Professional YKEA -25 °C · R32

- Designed for 24h/7d a week operation
- Wired remote controller, with optional duty rotation mode
- Improved SEER / SCOP to achieve top class energy efficiency
- Aerowings 2.0, for a better control of the air flow
- Built-in Wi-Fi for smart control via Panasonic Comfort Cloud App
- Compatible with Google Assistant and Amazon Alexa
- Chassis and parts designed for easier installation

KIT			KIT-Z25-YKEA-1	KIT-Z35-YKEA-1	KIT-Z42-YKEA-1	KIT-Z50-YKEA-1	KIT-Z71-YKEA-1
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,50)	3,50 (0,85 - 4,20)	4,20 (0,85 - 5,00)	5,00 (0,98 - 6,00)	7,10 (0,98 - 8,50)
EER [1]	Nominal (Min - Max)	W/W	4,90 (4,72 - 3,98)	4,12 (4,72 - 3,68)	3,82 (4,72 - 3,25)	3,68 (3,92 - 3,16)	3,23 (2,33 - 2,83)
SEER [2]			**9,5 A+++**	**9,6 A+++**	**8,6 A+++**	**8,6 A+++**	**6,5 A++**
Pdesign		kW	2,50	3,50	4,20	5,00	7,10
Input power	Nominal (Min - Max)	kW	0,51 (0,18 - 0,88)	0,85 (0,18 - 1,14)	1,10 (0,18 - 1,54)	1,36 (0,25 - 1,90)	2,20 (0,42 - 3,00)
Annual energy consumption [3]		kWh/a	92	128	171	203	382
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,00)	4,00 (0,85 - 5,80)	5,30 (0,85 - 6,80)	5,80 (0,98 - 8,00)	8,20 (0,98 - 10,20)
Heating capacity at -7 °C		kW	3,05	3,40	4,11	4,80	6,31
COP [1]	Nominal (Min - Max)	W/W	4,86 (4,72 - 3,97)	4,44 (4,72 - 3,87)	3,93 (4,72 - 3,66)	4,08 (4,26 - 3,35)	3,71 (2,45 - 3,29)
SCOP [2]			**4,6 A++**	**4,6 A++**	**4,5 A+**	**4,6 A++**	**4,1 A+**
Pdesign at -10 °C		kW	2,70	3,20	3,60	4,20	5,50
Input power	Nominal (Min - Max)	kW	0,70 (0,18 - 1,26)	0,90 (0,18 - 1,50)	1,35 (0,18 - 1,86)	1,42 (0,23 - 2,39)	2,21 (0,40 - 3,10)
Annual energy consumption [3]		kWh/a	822	974	1120	1278	1878
Indoor unit			**CS-Z25YKEA-1**	**CS-Z35YKEA-1**	**CS-Z42YKEA-1**	**CS-Z50YKEA-1**	**CS-Z71YKEA-1**
Power supply		V	230	230	230	230	230
Recommended fuse		A	16	16	16	16	20
Connection indoor / outdoor		mm²	4x1,5	4x1,5	4x1,5	4x2,5	4x2,5
Air flow	Cool / Heat	m³/min	11,4 / 13,8	12,7 / 14,8	13,2 / 15,2	17,4 / 19,1	19,0 / 19,9
Moisture removal volume		L/h	1,5	2,0	2,4	2,8	4,1
Sound pressure [4]	Cool (Hi / Lo / Q-Lo)	dB(A)	39 / 25 / 21	42 / 28 / 21	43 / 32 / 29	44 / 37 / 30	47 / 38 / 35
	Heat (Hi / Lo / Q-Lo)	dB(A)	41 / 27 / 22	43 / 30 / 22	44 / 35 / 29	44 / 37 / 30	47 / 38 / 35
Sound power	Cool / Heat (Hi)	dB(A)	55 / 57	58 / 59	59 / 60	60 / 60	63 / 63
Dimension / Net weight	H x W x D	mm / kg	295 x 870 x 229 / 11	295 x 870 x 229 / 11	295 x 870 x 229 / 11	295 x 1040 x 244 / 12	295 x 1040 x 244 / 13
Outdoor unit			**CU-Z25YKEA-1**	**CU-Z35YKEA-1**	**CU-Z42YKEA-1**	**CU-Z50YKEA-1**	**CU-Z71YKEA-1**
Air flow	Cool / Heat	m³/min	27,6 / 27,6	29,8 / 29,8	29,8 / 31,0	39,8 / 36,9	44,7 / 45,8
Sound pressure [4]	Cool / Heat (Hi)	dB(A)	46 / 48	48 / 50	48 / 51	48 / 50	52 / 54
Sound power	Cool / Heat (Hi)	dB(A)	61 / 63	63 / 65	63 / 66	63 / 65	66 / 68
Dimension [5] / Net weight	H x W x D	mm / kg	542 x 780 x 289 / 30	542 x 780 x 289 / 30	542 x 780 x 289 / 30	695 x 875 x 320 / 40	695 x 875 x 320 / 45
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 20 / 15	3 ~ 20 / 15	3 ~ 20 / 15	3 ~ 30 / 15	3 ~ 30 / 20
Pre-charged pipe length / Additional gas amount		m / g/m	7,5 / 10	7,5 / 10	7,5 / 10	7,5 / 15	10 / 25
Refrigerant (R32) / CO_2 Eq.		kg / T	0,89 / 0,60	0,89 / 0,60	0,97 / 0,65	1,13 / 0,76	1,35 / 0,91
Operating range	Cool Min ~ Max	°C	-25 ~ +43	-25 ~ +43	-25 ~ +43	-25 ~ +43	-25 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port. *Not compatible with PACi NX outdoors and accessories. Domestic range sales conditions may apply. Check with your sales representative.

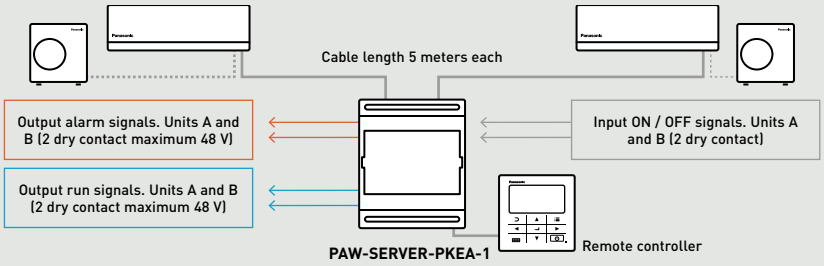
Accessories	
CZ-RCC5	CN-CNT cables x2 for server room application, control of 2 units, rotation, backup, etc.
PAW-SERVER-PKEA-1	Redundancy of 2 units YKEA-1. SG Ready.
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform

Accessories	
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm

Optional interface for YKEA units.

PAW-SERVER-PKEA-1

- Ideal solution for small server rooms, providing full redundancy functionality
- Up to 2 YKEA systems connectable to PAW-SERVER-PKEA-1
- Additional benefits: Operation and alarm outputs for each system, ON / OFF inputs for each system for connection to external BMS



R32 REFRIGERANT | A+++ 9,6 SEER | A++ 4,6 SCOP | INVERTER | R2 ROTARY COMPRESSOR | 21 dB(A) | AEROWINGS | -25 °C COOLING MODE | -15 °C HEATING MODE | R22 R410A → R32 R22 / R410A RENEWAL | INTEGRATION TO S-LINK | BUILT-IN WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SEER: For KIT-Z35-YKEA-1. SCOP: For KIT-Z25-YKEA-1, KIT-Z35-YKEA-1 and KIT-Z50-YKEA-1. SUPER QUIET: For KIT-Z25-YKEA-1. INTERNET CONTROL: Built-in Wi-Fi.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Close Control P Series for small critical environments

Precise cooling solution for a strict control of temperature and humidity in small critical environments. Efficiency, energy saving and flexibility.

COMPLETE PACKAGE SOLUTION

SOLUTION FOR SMALL CRITICAL ENVIRONMENT

R32 LOW GWP SOLUTION

Strict control of temperature and humidity

Comprehensive split solution designed to maintain stable temperature and humidity in small critical environments such as laboratories, museums and archives, server rooms.

SMART net - Load balancing and uninterrupted operation

The system supports advanced Local Area Network (LAN) configuration with up to 12 units in cascade. The SMART net system ensures precise climate control through intelligent load balancing and synchronized temperature and humidity regulation. Built-in redundancy and automatic failover guarantee continuous operation, minimizing downtime.

Up to 12 units in cascade **x12**

Built-in advanced control with integrated Modbus.

The advanced control system offers full Modbus control to deliver optimum performance and easier access to information. A predictive safety system is designed to prevent unwanted shut-downs.

Wide full graphic LCD colour display.

Product configurations

Model – Up flow (T-OPZ)		0071AA-E001	0111AA-E001	0121AA-E001	0141AA-E001	0211AA-E001	0071AA-E002	0111AA-E002	0121AA-E002	0141AA-E002	0211AA-E002	0211AA-E003	0071AA-E004	0111AA-E004	0121AA-E004	0141AA-E004	0211AA-E004	0211AA-E005
Model – Down flow (T-UPZ)		0071AA-E001	0111AA-E001	0121AA-E001	0141AA-E001	0211AA-E001	0071AA-E002	0111AA-E002	0121AA-E002	0141AA-E002	0211AA-E002	0211AA-E003	0071AA-E004	0111AA-E004	0121AA-E004	0141AA-E004	0211AA-E004	0211AA-E005
Humidifier	3 kg/h	–	–	–	–	–	✔	✔	✔	✔	✔	–	✔	✔	✔	✔	✔	–
	8 kg/h	–	–	–	–	–	–	–	–	–	–	✔	–	–	–	–	–	✔
Modulating heater	6 kW	–	–	–	–	–	–	–	–	–	–	–	✔	✔	✔	✔	–	–
	9 kW	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	✔	✔

NEW

NEW! P Series - Perimetral · R32

First complete package solution for critical environment up to 21 kW.

· Close-control solution for precise cooling
· Strict control of temperature and humidity
· Version with humidifier and modulating heater

Sizes			71	111	121	141	211	211
Indoor unit	**Up flow**	**T-OPZ**	**0071AA-E004**	**0111AA-E004**	**0121AA-E004**	**0141AA-E004**	**0211AA-E004**	**0211AA-E005**
Indoor unit	**Down flow**	**T-UPZ**	**0071AA-E004**	**0111AA-E004**	**0121AA-E004**	**0141AA-E004**	**0211AA-E004**	**0211AA-E005**
Cooling capacity [1]		kW	7,44	9,92	12,50	14,71	20,47	20,47
Sensible cooling capacity [1]		kW	6,89	8,41	10,67	12,60	20,47	20,47
EER [2]			**3,52**	**3,13**	**2,79**	**2,61**	**2,38**	**2,38**
Air flow		m³/h	2.200	3.500	3.500	3.500	7.000	7.000
Sound pressure		dB(A)	51	59	59	59	56	56
Dimension	Height	mm	1990	1990	1990	1990	1990	1990
	Width	mm	750	750	750	750	860	860
	Depth	mm	600	600	600	600	880	880
Overall weight		kg	150	200	205	205	225	225
Fan								
Fan type			EC	EC	EC	EC	EC	EC
Quantity			1	1	1	1	1	1
Power supply	Voltage	V	230	400	400	400	400	400
	Phase		Single phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Maximum power consumption		kW	0,50	1,10	1,10	1,10	1,50	1,50
Maximum volume airflow		m³/h	2600	3500	3500	3500	8000	8000
Maximum pressure		Pa	700	570	570	570	900	900
Humidifier								
Humidifier		kg/h	3,0	3,0	3,0	3,0	3,0	8,0
Quantity			1,0	1,0	1,0	1,0	1,0	1,0
Cylinder volume		l	3,3	3,3	3,3	3,3	3,3	5,4
Instantaneous supply flow rate		l/min	0,6	0,6	0,6	0,6	0,6	0,6
Instantaneous discharge flow rate		l/min	10,0	10,0	10,0	10,0	10,0	10,0
Heater								
Maximum power		kW	6	6	6	6	9	9
Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Maximum current		A	11,3	11,3	11,3	11,3	17,0	17,0
PACi NX outdoor combination		**Single phase**	**U-71PZH4E5**	**U-100PZH4E5**	**U-125PZH4E5**	**U-140PZH4E5**	**—**	**—**
		Three phase	**U-71PZH4E8**	**U-100PZH4E8**	**U-125PZH4E8**	**U-140PZH4E8**	**U-250PZH4E8**	**U-250PZH4E8**

1) Performance refers to: indoor ambient temperature 27 °C DB / 19 °C WB, outdoor ambient temperature 35 °C; R32 refrigerant; The declared performance does not consider the heat generated by the fans, which must be added to the thermal load of the system. 2) EER (energy efficiency ratio) = total cooling capacity / input power of the PACi NX condenser + input power of the fans and CRAC indoor unit. 3) Outdoor unit located lower / outdoor unit located higher. 4) Pipe length up to 30 m.

PACi NX outdoor combination

Outdoor unit single phase			**U-71PZH4E5**	**U-100PZH4E5**	**U-125PZH4E5**	**U-140PZH4E5**	**—**
Outdoor unit three phase			**U-71PZH4E8**	**U-100PZH4E8**	**U-125PZH4E8**	**U-140PZH4E8**	**U-250PZH4E8**
Power supply	Single phase	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	—
	Three phase	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	55/55	54/54	57/63
Sound power	Cool / Heat (Hi)	dB(A)	65/67	70/70	73/73	74/74	76/82
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 1140 x 460
Net weight	1ph / 3ph	kg	66/66	84/82	86/84	86/84	—/109
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	7/8 (22,22)
Pipe length range	Min ~ Max	m	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out)	Max	m	15/30 [3]	15/30 [3]	15/30 [3]	15/30 [3]	30
Pre-charged pipe length		m	30	30	30	30	30
Additional gas amount		g/m	45	45	45	45	80
Refrigerant (R32) / CO_2 Eq.		kg / T	1,95/1,32	2,70/1,82	3,00/2,03	3,00/2,03	4,80/3,24
Operating range	Cool Min ~ Max	°C	-15 ~ +52	-20 [4] ~ +52	-20 [4] ~ +52	-20 [4] ~ +52	-15 ~ +52
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +35
Electrical information (power supply to outdoor)		**kW**	**7,1**	**10,0**	**12,5**	**14,0**	**25,0**
Recommended fuse	Single phase	A	25	35	40	40	
	Three phase	A	16	16	16	16	30
Connection in. / out.	Single phase	mm²	4x2,5	4x2,5	4x2,5	4x2,5	
	Three phase	mm²	4x2,5	4x2,5	4x2,5	4x2,5	—

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

AHU connection kit PAH3M-1 for PACi NX

CONEX Bluetooth® version (CZ-RTC6BL) is built-in.
Easy connection and set-up is possible via Bluetooth®.
0-10 V demand control.

CONEX

CONEX Bluetooth® control built-in.
CZ-RTC6BL

Panasonic

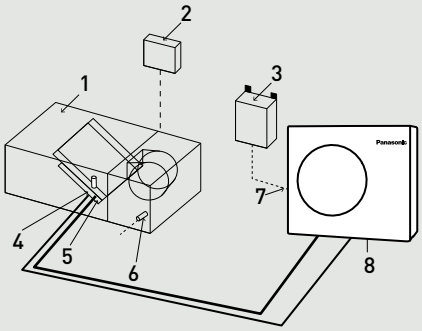
PACi

PAW-280PAH3M-1			2,5 kW	3,6 kW	5,0 kW	6,0 kW	7,5 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
Dimension	H x W x D	mm	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150
Net weight		kg	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	1 (25,40)	1 (25,40)
Intake temperature of AHU connection kit	Cool Min ~ Max	°C DB	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32
	Cool Min ~ Max	°C WB	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	—	—
	Heat Min ~ Max	°C	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30
With PACi NX Elite												
Cooling capacity		kW	—	3,6	5,0	6,0	7,1	10,0	12,5	14,0	19,0	22,0
Heating capacity		kW	—	4,0	5,6	7,0	8,0	11,2	14,0	16,0	22,4	24,0
Air flow	Min / Max	m³/h	—	540/870	630/990	780/1320	780/1320	900/2160	1140/2280	1200/2400	2160/8000	2160/9000
Pipe length range		m	—	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 85	5 ~ 85	5 ~ 85	5 ~ 100	5 ~ 100
Elevation difference (in / out)	Max	m		30	30	30	30	30	30	30	30	30
Ambient temperature of outdoor unit	Cool Min ~ Max	°C	—	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-20 ~ +48	-20 ~ +48	-20 ~ +48	-15 ~ +52	-15 ~ +52
	Heat Min ~ Max	°C	—	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +35	-20 ~ +35
With PACi NX Standard												
Cooling capacity		kW	2,5	3,6	5,0	6,0	7,1	10,0	12,5	14,0	—	—
Heating capacity		kW	3,2	4,0	5,0	6,0	7,1	10,0	12,5	14,0	—	—
Air flow	Min / Max	m³/h	360 / 570	540/870	630/990	780/1320	780/1320	900/2160	1140/2280	1200/2400	—	—
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 20	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 50	5 ~ 50	—	—
Elevation difference (in / out)	Max	m	30	30	30	30	30	30	30	30	—	—
Ambient temperature of outdoor unit	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	—	—
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	—	—

Control options

Control option 1.
- The system's control is simple: control of actual suction temperature vs. set point
- Control works in the same way as that of any indoor unit
- Fan signal issued by the PCB (OFF while defrosting, for instance)

Control option 2.
- System control by a 0-10 V control working from an external BMS that manages the set point for temperature or capacity. Enhances efficiency by adjusting capacity and enhances comfort as well
- All signals as standard



System and regulations. System overview.
1 | AHU equipment (field supplied)
2 | AHU system controller (field supplied)
3 | AHU connection kit controller box (with control PCB)
4 | Thermistor for gas pipe (E2)
5 | Thermistor for liquid pipe (E1)
6 | Thermistor for suction air
7 | Inter-unit wiring
8 | Outdoor unit

0-10 V control

With the 0-10 V demand control the capacity of the outdoor unit can be controlled by 20 steps.

Input voltage* (V)	0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5	9,0	9,5
Demand (% of nominal current)	No cut [1]	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	No limit / Full capacity [2]
Indoor unit start / stop	Stop [1]											Start							

1) No cut / stop: AHU system / indoor unit is completely switched OFF.
2) No limit: No restrictions applied by BMS to AHU system / indoor unit performance (equivalent to "full-load operation" of AHU system / indoor unit).

AHU connection kit.

PCB, power trans, terminal block.

Thermistor x2 (refrigerant: E1, E2).

Thermistor (air: TA; 1 sensor).

Wired remote controller.
CZ-RTC6BL.

Optional controller.

Timer remote controller.
CZ-RTC5B.

Electric air curtain

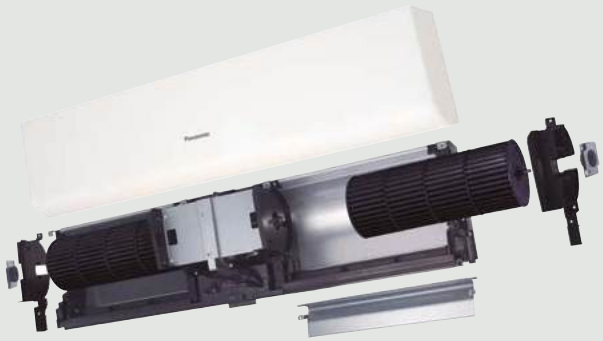
Designed to maximize performance: High air flow upgraded 145% compared to conventional model (in the case of FY-3009U1).

Comprehensive product line up: 1,5 m wide model added in the line up.

			FY-3009U1	FY-3012U1	FY-3015U1
Width		mm	900	1200	1500
Voltage		V	220	220	220
Air flow	Hi / Lo	m³/h	1100/920	1400/1270	2000/1800
Consumption	Hi / Lo	W	76/70	94/85	131/110
Current	Hi / Lo	A	0,35/0,32	0,43/0,40	0,59/0,50
Air speed	Hi / Lo	m/s	10,50/8,50	9,50/8,00	10,50/9,50
Sound pressure	Hi / Lo	dB(A)	48,5/45,0	48,5/44,5	51,5/48,0
Dimension	H x W x D	mm	900 x 231,5 x 212	1200 x 231,5 x 212	1500 x 231,5 x 212
Net weight		kg	12,0	14,5	18,0

Easier installation and maintenance.

Simple structure for easy installation and maintenance.



NEW! Air curtain with DX coil, connected to PACi NX systems

- Advanced defrost control without disrupting the air curtain effect or causing cold drafts
- Flexible installation: suspended as standard, cassette or built-in optional
- Quiet operation

*Includes two remote controllers: a touch screen remote controller and CZ-RTC6 installed inside of the unit for setup.

Air outlet height 2,8 m			PAW-P2-100R			PAW-P2-150R			PAW-P2-200R					PAW-P2-250R	
Outdoor unit			U-50PZH3E5	U-60PZH3E5	U-71PZH4E5/8	U-100PZH4E5/8 U-100PZ3E5/8	U-125PZH4E5/8 U-125PZ3E5/8	U-140PZH4E5/8	U-100PZH4E5/8 U-100PZ3E5/8	U-125PZH4E5/8 U-125PZ3E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8	U-200PZH4E8	U-250PZH4E8
Cooling capacity [1]	Max	kW	5,6	6,3	7,8	11,4	12,0	12,0	11,4	13,6	15,3	16,3	16,3	20,0	20,5
Heating capacity [2]	Max	kW	6,5	7,0	8,0	12,0	13,0	15,0	12,1	15,0	17,4	20,9	20,9	22,0	25,0
Air flow	High	m³/h	1800			2700			3600					4500	
Heat exchanger	Volume	L	1,60			2,80			3,90					5,10	
Electric consumption fan	230 V/50 Hz	kW	0,33			0,50			0,66					0,83	
Current	230 V/50 Hz	A	2,40			3,60			4,80					6,00	
Sound pressure [3]	Max	dB(A)	56			57			58					59	
Dimension	H x W x D (x D [4])	mm	300 x 1000 x 750 (x 890)			300 x 1500 x 750 (x 890)			300 x 2000 x 750 (x 890)					300 x 2500 x 750 (x 890)	
Net weight		kg	61			74			96					138	
Fan type			EC			EC			EC					EC	
Piping diameter [5]	Liquid/Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,7)	1/4 (6,35) / 1/2 (12,7)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	1/2 (12,70) / 7/8 (22,22)	1/2 (12,70) / 7/8 (22,22)	1/2 (12,70) / 7/8 (22,22)	1/2 (12,70) / 7/8 (22,22)
Maximum pipe length		m	40	40	60	PZH: 60, PZ: 50	PZH: 100, PZ: 50	100	PZH: 60, PZ: 50	PZH: 100, PZ: 50	100	100	100	100	100
Door width		m	1,0			1,5			2,0					2,5	
Refrigerant			R32			R32			R32					R32	

Air outlet height 3,2 m			PAW-P3-100R			PAW-P3-150R			PAW-P3-200R		PAW-P3-250R	
Outdoor unit			U-100PZH4E5/8 U-100PZ3E5/8	U-125PZH4E5/8 U-125PZ3E5/8	U-140PZH4E5/8	U-100PZH4E5/8 U-100PZ3E5/8	U-125PZH4E5/8 U-125PZ3E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8	U-200PZH4E8	U-250PZH4E8
Cooling capacity [1]	Max	kW	10,0			11,4	13,6	13,8	20,0	21,7	20,0	25,2
Heating capacity [2]	Max	kW	12,0			12,0	13,0	15,0	22,0	25,0	22,0	25,0
Air flow	High	m³/h	2400			3200			4900		5700	
Heat exchanger	Volume	L	1,60			2,80			3,90		5,10	
Electric consumption fan	230 V/50 Hz	kW	0,50			0,66			0,99		1,16	
Current	230 V/50 Hz	A	3,60			4,80			7,20		8,40	
Sound pressure [3]	Max	dB(A)	58			59			60		61	
Dimension	H x W x D (x D [4])	mm	300 x 1000 x 750 (x 890)			300 x 1500 x 750 (x 890)			300 x 2000 x 750 (x 890)		300 x 2500 x 750 (x 890)	
Net weight		kg	65			78			104		145	
Fan type			EC			EC			EC		EC	
Piping diameter [5]	Liquid/Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)			3/8 (9,52) / 5/8 (15,88)			1/2 (12,70) / 7/8 (22,22)		1/2 (12,70) / 7/8 (22,22)	
Maximum pipe length		m	PZH: 60, PZ: 50	PZH: 100, PZ: 50	100	PZH: 60, PZ: 50	PZH: 100, PZ: 50	100	100	100	100	100
Door width		m	1,0			1,5			2,0		2,5	
Refrigerant			R32			R32			R32		R32	

1) Minimum discharge temperature of 17 °C, with an air intake temperature of 27 °C, evaporation temperature of 6 °C, compressed gas temperature of 48 °C, SH 5 K, SC 15 K. 2) Air intake temperature of 20 °C, refrigerant R32, outside temperature ~ 0 °C, compressed gas temperature 70 °C, condensation temperature 49 °C (for U50/U60/U71 55 °C, for U200/U250 48 °C), SC 3 K. 3) Measured in distance from 3,0 m. 4) Depth including brackets for cassette mounting and built-in models. For built-in model height changes + 100 mm for the channels. 5) Piping diameter to outdoor unit. Air curtain port connection for all sizes is 1/2 (12,7 mm) / 7/8 (22,00 mm). For smaller models, field-supplied adapters are required to ensure proper pipe connection.

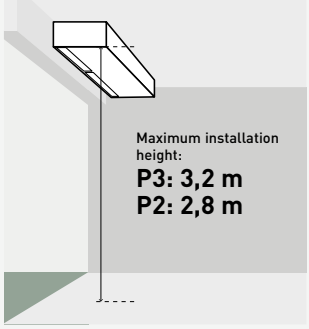
Accessories	
PAW-CDP1	Drain pump kit

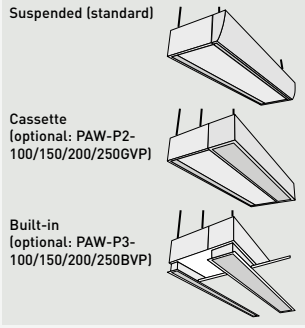
Technical focus

- Advanced defrost control maintains the air curtain effect without cold drafts
- Four air curtain lengths available: P2 and P3 – 1,0 m, 1,5 m, 2,0 m, and 2,5 m
- Installation height up to 3,2 m
- Flexible installation: suspended as standard, cassette or built-in optional*
- Includes one user-friendly touchscreen remote controller
- Effortless settings management via touchscreen control
- Optional smart temperature control automatically adjusts to outdoor conditions
- Integrated control with door sensor and BMS ON / OFF functionality
- Scalable setup: group up to 10 units for synchronized operation
- Drain pump optional

*Cassette type (PAW-P2-100/150/200/250GVP) or built-in type (PAW-P3-100/150/200/250BVP) available upon request.

Installation heights and three mounting possibilities





air-e™

nanoe™X

Ceiling mounted air-e nanoe X Generator

- nanoe™ X technology
  (Generator Mark 1: 4,8 trillion hydroxyl radicals/sec)
- Silent operation. Whisper quiet at 25,5 dB(A) (at 230 V)
- Low power consumption 4 W
- Easy installation
- Compact and modern design

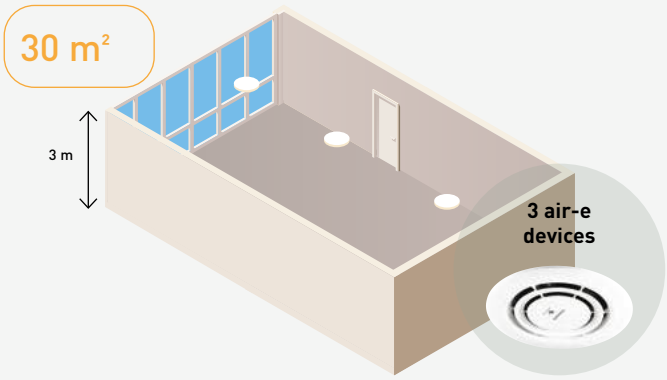
Model			FV-15CSD1G		
Power supply	Voltage	V	220	230	240
	Frequency	Hz	50	50	50
Air flow		m³/h	15	16	17
		CFM	8,8	9,4	10,0
Consumption		W	4	4	4
Sound pressure		dB(A)	23,5	25,5	27,0
Net weight		kg		1,1	

*The value of air volume, power consumption and noise are specified at static pressure 0 Pa. The value of air volume is the mean value and a tolerance of +-10% is allowed. The value of noise level is a weighted average sound pressure level, the mean value is measured by Panasonic. A tolerance of +3 dB/-7 dB is allowed. The noise is measure at 1 m apart from the left, the front and below of the tested product. Conditions of generating nanoe™ X: room temperature: about 5 °C ~ 40 °C (dew point temperature more than 2 °C), relative humidity: about 30% ~ 85%. nanoe™ X is generated using the air in the room, and its amount is subject to the temperature and humidity in the air.

One device is suitable for around 10 m² (with a ceiling height 3 m)

Ex. 3 air-e devices are required for the room size 30 m².

The air-e is a stand alone device which is an easy and simple choice to improve indoor air quality. It can be easily installed to various commercial projects including refurbishments.



Ceiling mounted air-e nanoe X Generator.

Bringing nature's balance indoors with Panasonic's unique nanoe™ X technology built into the air-e. Deodorises and inhibits certain bacteria, viruses, mould, pollens and allergens for better indoor air quality.

The tested effects of nanoe™ X

Bacteria and viruses.

SARS-CoV-2: 99,9% % inhibited [1].
Influenza virus H1N1 subtype: 99,9% inhibited [2].

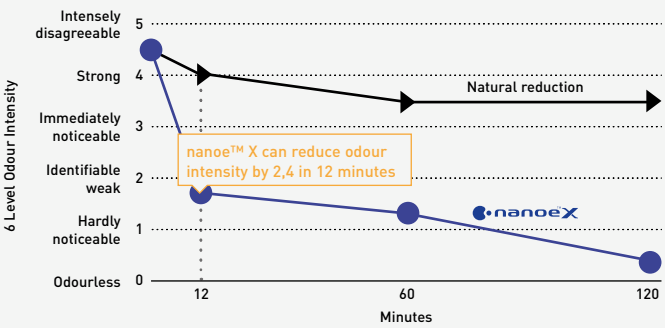
Odour.

nanoe X Generator can reduce cigarette smoke odour intensity by 2,4 levels in 12 minutes.

1) Novel coronavirus (SARS-CoV-2) > [Test organization] Texcell (France) [Test subject] Adhered novel coronavirus (SARS-CoV-2) [Test volume] 45 L enclosed box [Test result] Inhibited 99,9% in 2 hours [Test report] 1140-01 A1.
2) Adhered virus (Influenza virus H1N1 subtype) > [Test organization] Kitasato Research Center for Environmental Science [Test subject] Influenza virus (H1N1 subtype) [Test volume] 1000 L enclosed box [Test result] Inhibited 99,9% in 2 hours [Test report] 21_0084_1.
3) Deodorisation effect for adhering odour (cigarette smoke) > [Test organization] Panasonic Product Analysis Center [Test subject] Adhered cigarette smoke odour [Test volume] Approx. 24 m³ laboratory [Test result] Odour intensity reduced 2,4 levels in 0,2 hours [Test report] 4AA33-160615-N04.

Performance of nanoe™ X might differ in real life environment and is only expected in the same room as where the unit is placed. The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not a medical device.

Deodorisation effect for adhering odour (cigarette smoke) [3].



For further details and validation data, please refer to the following website.

R22 Renewal. Fast, easy to install and cost effective

An important drive to further reduce the potential damage to our ozone.
It is often said that legislation is ruling our lives but sometimes it is there to help save lives. R22 phase out can be described as one of these and from Jan 1st 2010 the use of Virgin R22 refrigerant was banned within the European Union.

Panasonic is doing its part.

We at Panasonic are also doing our part - recognising that all finances are under pressure at the moment. Panasonic has developed a clean and cost effective solution to enable this latest legislation to offer less financial impact on your business.
The Panasonic renewal system allows good quality existing R22 or R410A pipe work to be re-used whilst installing high-efficiency R32 systems.
By bringing a simple solution to the problem Panasonic can renew all split systems and PACi NX systems; and depending upon certain restrictions we don't even limit the manufacturer's equipment we are replacing.

By installing a high-efficiency Panasonic R32 system you can benefit from around 30% running cost saving compared to the R22 system.

Yes...
1. Check the capacity of the system you wish to replace
2. Select from the Panasonic range the best system to replace it with
3. Follow the procedure detailed in the brochure and technical data

Simple...

Why renewal?

Unique R22 Renewal from Panasonic: Fast, easy to install and cost effective.

- Panasonic refrigerant oil doesn't react to the most common oil types used in air-conditioning systems. This ensures the mix of oil does not damage the units. Therefore installations are easier
- All Panasonic PACi NX units can be installed in R22 pipings, no specific models are available
- Up to 33 Bar! When there is any doubt about the strength of the piping, the maximum working pressure can be reduced to 33 Bar with a setting in the software of the outdoor unit

Reuse of existing piping (renewal design and installation)

Notes on reuse of existing refrigerant piping.

It is possible for each series of PZH and PZ series outdoor unit to reuse the existing refrigerant piping without cleaning when obtained under certain conditions. Make sure that the requirements under the section "Notes on reuse of existing refrigerant piping", "Measurement procedure for renewal" and "Refrigerant piping size and allowable piping length" will be satisfied in order to carry out.
Also, check the items with regard to section "Safety" and "Cleaning".

1. Prerequisite.

- If the refrigerant used for the existing unit is other than R22, R407C and R410A / R32, the existing refrigerant piping cannot be used.
- If the existing unit has another use than air conditioning, then existing refrigerant piping cannot be used.

2. Safety.

- If there is a hollow, crack or corrosion on the piping, make sure to install new piping.
- If the existing piping is other than capable of reuse of piping as shown in the flowchart, make sure to install new piping.
- In case of multiple operation, use our genuine branch piping for refrigerant R32.

A local supplier shall assume responsibility for the defects and hollows on the reuse of existing piping surface and recognition of reliability of the piping strength. There is no guarantee that we take responsibility for such damages.
The operational pressure of the refrigerant R32 becomes higher compared to R22 or R410A. In the worst case, a lack of compressive strength may lead to piping explosion.

3. Cleaning.

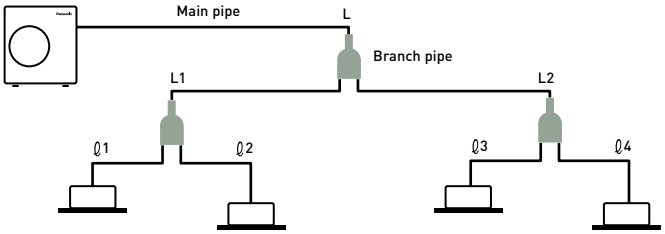
- When the refrigerant oil used for the existing unit is other than the listed below, make sure to install new piping or wash it thoroughly before reusing it.
  [Mineral Oil] SUNISO, FIORE S, MS
  [Synthesized oil] alkyl benzene oil (HAB, parallel freeze), ester oil, ether oil (PVE only)

If the existing unit is GHP type, it is necessary to wash the piping thoroughly.

- If the existing pipes in the outdoor and indoor units remain disconnected, make sure to install a new piping or wash it thoroughly before reusing it.
- If the discoloured oil or residue remains in the existing piping, make sure to install a new piping or wash it thoroughly before reusing it. See "Deterioration Criteria for Refrigerant Oil" in table 3.
- If the compressor of the existing air conditioner has a failure history, make sure to install a new piping or wash it through thoroughly before reusing it.

When reusing the existing piping as it is without removing dirt and dust, inadequate piping could result a renewal appliance in failure.

Notes on renewal for simultaneous operation of multiple units.
Only main pipe is applicable for using the different diameter size.
In case of different diameter size for the branch pipes, a new installation work for a standard size is necessary.
Be sure to use our genuine branch piping for refrigerant R32.



Notes on renewal for simultaneous operation of multiple units

Capacity class	Standard liquid pipe size	Standard gas pipe size
Type 50	Ø 6,35	Ø 12,70
Type from 60 to 140	Ø 9,52	Ø 15,88
Type 200	Ø 12,70	Ø 22,22
Type 250	Ø 12,70	Ø 22,22

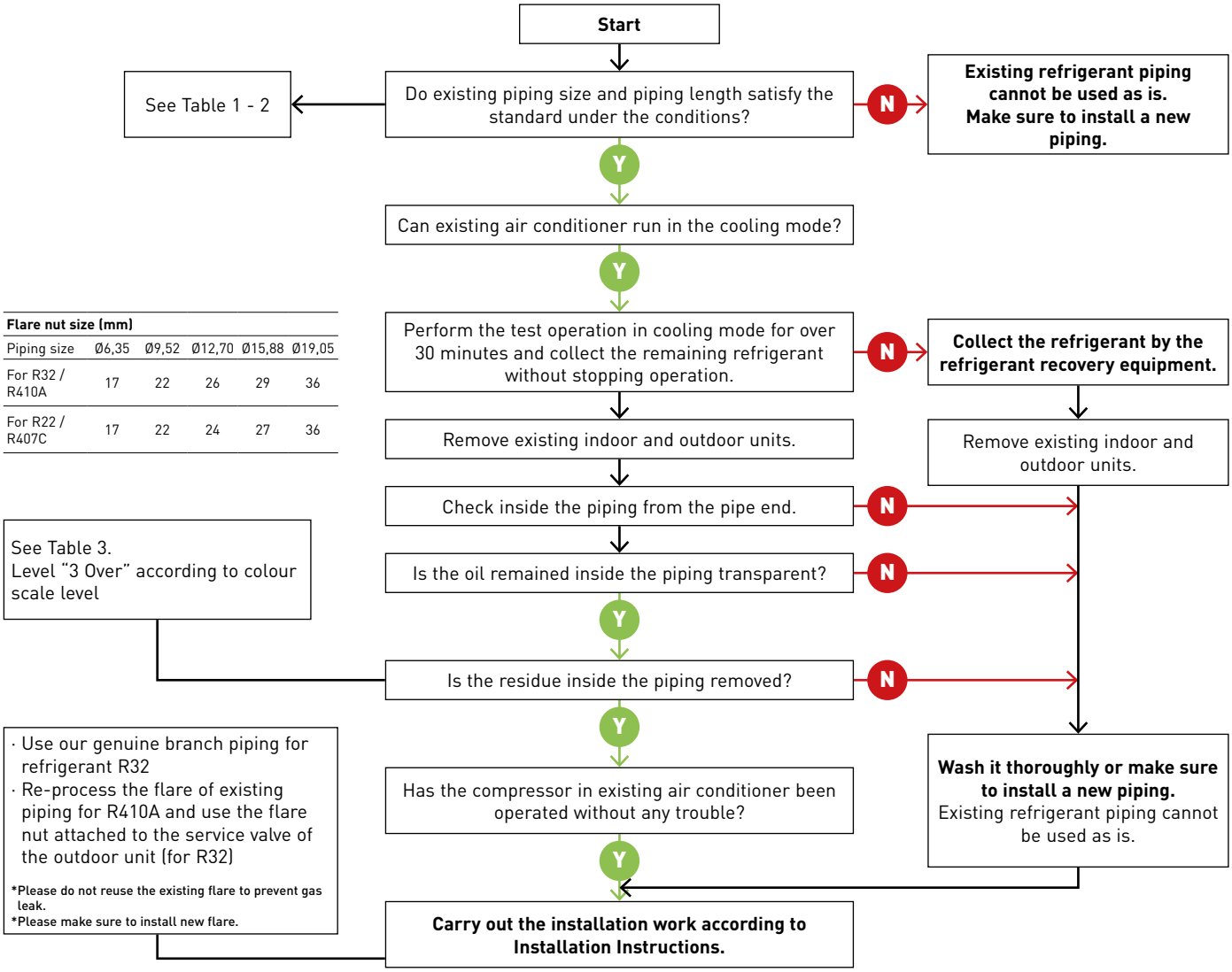
- Only the main pipe L can be used among different diameter's existing piping
- Installation work as a standard size is capable for L1, L2, ℓ1 - ℓ4 piping
- Be sure to use our genuine branch piping for refrigerant R32

1. In case of single unit:
   It is not necessary to charge with additional refrigerant until the chargeless pipe length in the table 2.
   If the pipe length is exceeding the charge less pipe length, charge with additional refrigerant amount per 1 m according to the equivalent length.

2. In case of simultaneous operation of multiple units:
   Calculate the refrigerant charging amount according to the calculating method of the standard piping diameter.
   As to the additional refrigerant charging amount per 1 m, refer to the additional amount in the table 2.

Measurement procedure for renewal

Observe the following procedure when reusing the existing piping or carrying out renewal installation work.
Flowchart of existing piping measures criteria for PZH and PZ series outdoor unit.



Flare nut size (mm)

Piping size	Ø6,35	Ø9,52	Ø12,70	Ø15,88	Ø19,05
For R32 / R410A	17	22	26	29	36
For R22 / R407C	17	22	24	27	36

Refrigerant piping size and allowable piping length.

Check if reuse of existing refrigerant piping is possible based on the following chart.
The standards other than this one (difference of elevation, etc.) are identical to the requirements of ordinary refrigerant piping.

Table 1 - Reusable existing piping (mm)

Material	O				1/2 H, H*			
External diameter	Ø6,35	Ø9,52	Ø12,70	Ø15,88	Ø19,05	Ø22,22	Ø25,40	Ø28,58
Thickness	0,80	0,80	0,80	1,00	1,00	1,00	1,00	1,00

*It is impossible to reuse the size of Ø19.05, Ø22.22, Ø25.4 and Ø28.58 for material O. Change to material 1/2H or material H.

Table 2 - 1 Refrigerant piping size: 2,5 - 14,0 kW type (mm)

Liquid pipe			Ø6,35			Ø9,52			Ø12,70	
Gas pipe			Ø9,52	Ø12,70	Ø15,88	Ø12,70	Ø15,88	Ø19,05	Ø15,88	Ø19,05
PZH3	Type 36 ~ 60	Additional gas 15 g/m	✕	Standard 40 m (30 m)	✕	✕	✕	✕	✕	✕
PZ3	Type 25	Tentative data								
	Type 36	Additional gas 10 g/m	✕	Standard 15 m (7,5 m)	✕	✕	✕	✕	✕	✕
	Type 50	Additional gas 15 g/m	✕	Standard 20 m (7,5 m)	✕	✕	✕	✕	✕	✕
	Type 60	Additional gas 15 g/m	✕	Standard 30 m (7,5 m)	✕	✕	✕	✕	✕	✕
	Type 71	Additional gas 17 g/m	✕	✕	Standard 40 m (10 m)	✕	✕	✕	✕	✕

Liquid pipe			Ø6,35			Ø9,52			Ø12,70	
Gas pipe			Ø9,52	Ø12,70	Ø15,88	Ø12,70	Ø15,88	Ø19,05	Ø15,88	Ø19,05
PZH4	Type 71		✕	□ 10 m (10 m)	□ 10 m (10 m)	▽ 30 m (30 m)	60 m	✕	□ 25 m (15 m)	✕
Additional refrigerant charging amount per 1 m				20 g/m			30 g/m		80 g/m	
PZH4	Type 100 ~ 140		✕	✕	✕	✕	100 m	◎ 85 m (30 m)	□ 35 m (15 m)	□ 35 m (15 m)
Additional refrigerant charging amount per 1 m				✕			40 g/m		80 g/m	
PZH3	Type 71		✕	□ 10 m (10 m)	□ 10 m (10 m)	▽ 30 m (30 m)	Standard 50 m (30 m)	✕	□ 25 m (15 m)	✕
	Type 100 ~ 140		✕	✕	✕	✕	Standard 85 m (30 m)	◎ 85 m (30 m)	□ 35 m (15 m)	□ 35 m (15 m)
Additional gas				20 g/m			45 g/m		80 g/m	
PZ3	Type 100 ~ 140		✕	✕	✕	✕	Standard 50 m (30 m)	◎ 50 m (30 m)	□ 25 m (15 m)	□ 25 m (15 m)

How to see table definition (example):
In case of type 71, standard size is liquid pipe Ø9,52 / gas pipe Ø15,88.
There is a limitation to liquid pipe Ø9,52 / gas pipe Ø12,70 and to liquid pipe Ø12,70 / gas pipe Ø15,88.
However, they are applicable for different diameter's pipes.

Table 2 - 2 Refrigerant piping size: 20,0 - 25,0 kW type (mm)

Liquid pipe		Ø9,52			Ø12,70			Ø15,88		
Gas pipe		Ø19,05	Ø22,22	Ø25,40	Ø19,05	Ø22,22	Ø25,40	Ø19,05	Ø22,22	Ø25,40
PZH4	Type 200 ~ 250	✕	✕	✕	▽ 100 m (30 m)	Standard 100 m (30 m)	◎ 100 m (30 m)	▽ 65 m (20 m)	□ 65 m (20 m)	□ 65 m (20 m)
Additional refrigerant charging amount per 1 m		✕	✕	✕	80 g/m	80 g/m	80 g/m	120 g/m	120 g/m	120 g/m

◎ Allowable
▽ Cooling capacity down
□ Limited piping length
✕ Unallowable
50 m Maximum piping length
(50 m) Charge less piping length in a single connection

Table 3 - Deterioration Criteria for Refrigerant Oil

0	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	8,0

Accessories and control

Drain kits

Drain kit to suit outdoor units from 3,6 to 7,1 kW.

CZ-50DRS1

Drain kit to suit outdoor units from 10,0 to 14,0 kW.

CZ-140DRS1

Branch Pipes, Header

Branch pipe.

CZ-P224BK2BM

Branch pipe (from 22,4 kW to 68,0 kW).

CZ-P680BK2BM

Header.

CZ-P3HPC2BM

Special outdoor supports

Tray for condenser water compatible with outdoor elevation platform.

PAW-WTRAY

Outdoor elevation platform.
Dimension (H x W x D):
400 x 900 x 400 mm

PAW-GRDSTD40

Outdoor base ground support for noise and vibration absorption.
Dimension (H x W x D):
600 x 95 x 130 mm
Safe working load: 500 kg

PAW-GRDBSE20

Black ground stand for outdoor unit with 1100 mm wide condenser water tray.

PAW-GRDSTD1100

Panels

NEW! Panel for 4 way 60x60 cassette, white (RAL9003).

CZ-KPY4W

NEW! Panel for 4 way 60x60 cassette, graphite black (RAL9011).

CZ-KPY4B

Standard panel for 4 way 90x90 cassette, white (RAL9003).

CZ-KPU3

Econavi panel for 4 way 90x90 cassette, white (RAL9003).

CZ-KPU3A

Standard panel for 4 way 90x90 cassette, graphite black (RAL9011).

CZ-KPU3B

Sensors

Econavi energy saving sensor.

CZ-CENSC1

Remote temperature sensor.

CZ-CSRC3

Fresh air-intake kit.

CZ-FDU3+CZ-ATU2

IAQ filter for adaptive ducted unit

*Tentative image.

BION air pollutant filter for S-3650PF3E.

PAW-APF800F

BION air pollutant filter for S-6071PF3E.

PAW-APF1000F

BION air pollutant filter for S-1014PF3E.

PAW-APF1400F

Plenums

Air outlet plenum for S-3650PF3E.

CZ-56DAF2

Air outlet plenum for S-6071PF3E.

CZ-90DAF2

Air outlet plenum for S-1014PF3E.

CZ-160DAF2

Air outlet plenum for S-200PE4E.

CZ-TREMIESPW705

Air outlet plenum for S-250PE4E.

CZ-TREMIESPW706

Controller and touch controllers for hotels with dry contacts

Modbus RS-485 touch room controller with I/O, white.

PAW-RE2C4-MOD-WH

Touch display control with 2 digital inputs, white.

PAW-RE2D4-WH

Modbus RS-485 touch room controller with I/O, black.

PAW-RE2C4-MOD-BK

Touch display control with 2 digital inputs, black.

PAW-RE2D4-BK

Hotel sensors for dry contacts

Wall silent motion sensor 24 V.

PAW-WMS-DC

Wall silent motion sensor 240 V AC.

PAW-WMS-AC

Ceiling silent motion sensor 24 V.

PAW-CMS-DC

Ceiling silent motion sensor 240 V AC.

PAW-CMS-AC

Power supply 24 V.

PAW-24DC

Door or window contact.

PAW-DWC

Commercial Smart Edge

Gateway for Commercial Smart Edge – supports up to 4 indoor unit connections.	Gateway for Commercial Smart Edge – supports up to 10 indoor unit connections.	Gateway for Commercial Smart Edge – supports up to 50 indoor unit connections.	Gateway for Commercial Smart Edge – supports up to 100 indoor unit connections.
————	————	————	————
PAW-CSE-1B	PAW-CSE-2B	PAW-CSE-10	PAW-CSE-20

*The final number of connected indoor units may vary depending on the range. **For the detail information, please contact an authorised Panasonic dealer.

Centralised controls

System controller for 64 indoor units with weekly timer.

————
CZ-64ESMC3

Central ON / OFF controller, up to 16 groups, 64 indoor units.

————
CZ-ANC3

Intelligent controller (touch screen/web server) to control up to 256 indoors with included load distribution ratio (LDR).

————
CZ-256ESMC3

BMS interface with S-Link

A unified interface supporting Modbus, BACnet, and KNX protocols for up to 16 indoor units.	A unified interface supporting Modbus, BACnet, and KNX protocols for up to 64 indoor units.	A unified interface supporting Modbus, BACnet, and KNX protocols for up to 128 indoor units.
————	————	————
PAW-AC2-BMS-16	PAW-AC2-BMS-64	PAW-AC2-BMS-128

Accessories interfaces

Commercial Wi-Fi Adaptor.

CZ-CAPWFC2

DIN rail-mounted KNX interface.

PAW-RC2-KNX-1i

DIN rail-mounted Modbus RTU interface.

PAW-RC2-MBS-1

Modbus RTU interface to control 4 indoor/ groups.

PAW-RC2-MBS-4

BACnet IP and MSTP interface.

PAW-RC2-BAC-1

KNX interface.

PAW-AZRC-KNX-1

Modbus RTU interface with 12 V DC power supply.

PAW-AZRC-MBS-1

BACnet IP and MSTP interface.

PAW-AZRC-BAC-1

RAC interface adapter for integration into S-Link, plus external input and alarm/ status output (for YKEA units).

CZ-CAPRA1

Centralised controls. Connection with general equipment

Adaptor for ON / OFF control of external devices. Up to three digital outputs.

CZ-CAPC3

Mini series parallel device controlling indoor units, maximum 1 group and 8 indoor unit.

CZ-CAPBC2

Communication Adaptor. Up to 128 groups. Controls 128 units.

CZ-CFUNC2

Individual controls

CONEX wired remote controller (non-wireless), white.

CZ-RTC6W

CONEX wired remote controller with Bluetooth®, white.

CZ-RTC6WBL

CONEX wired remote controller with Wi-Fi and Bluetooth®, white.

CZ-RTC6WBLW2

CONEX wired remote controller (non-wireless), black.

CZ-RTC6

CONEX wired remote controller with Bluetooth®, black.

CZ-RTC6BL

CONEX wired remote controller with Wi-Fi and Bluetooth®, black.

CZ-RTC6BLW2

Design Wired remote controller with Econavi function.

CZ-RTC5B

Infrared remote controller for wall-mounted.

CZ-RWS3

Infrared remote controller and receiver for 4 way 60x60 cassette with white panel (RAL9003).

CZ-RWS3 + CZ-RWRY3W

Infrared remote controller and receiver for 4 way 90x90 cassette.

CZ-RWS3 + CZ-RWRU3

Infrared remote controller and receiver for ceiling.

CZ-RWS3 + CZ-RWRT3

Infrared remote controller and receiver for all indoor units.

CZ-RWS3 + CZ-RWRC3

Accessories PCB

T10 interface PCB with digital and relay connections.

PAW-T10

PCB for server room application, control up to 4 indoor unit groups, redundancy, backup, etc.

PAW-PACR4

Redundancy of 2 units YKEA-1. SG Ready.

PAW-SERVER-PKEA-1

Accessories cables

Cable for all the T10 functions.

CZ-T10

Cable to operate external fan.

PAW-FDC

Cable for all option monitoring signals.

PAW-OCT

Cable with force thermo OFF/leakage detection.

PAW-EXCT

Option harness for PAW-OCT and PAW-FDC, providing option, fan drive, and EXCT functions. For PACi NX indoor units PE4 and PK4.

PAW-OPT-MZ

Connector to PACi NX indoor unit's PCB to provide OPT functions.

PAW-OPT-NX

Multi zone duct unit accessories

Wall-mounted control.

PCZ-EEB749

Return plenum with 4 circular inlets DN 160 mm. For S-7110PQ41E.

PCZ-AHRD0468

Return plenum with 5 circular inlets DN 160 mm. For S-1014PQ51E.

PCZ-AHRD0469

Non-return damper.

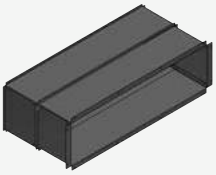
PCZ-AHRD0519

90° shooting plenum. For S-7110PQ41E.

PCZ-AHRD0524

90° shooting plenum. For S-1014PQ51E.

PCZ-AHRD0525

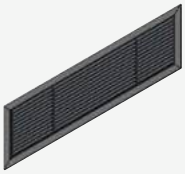


Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm. For S-7110PQ41E.

PCZ-AHRD0534

Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm. For S-1014PQ51E.

PCZ-AHRD0535

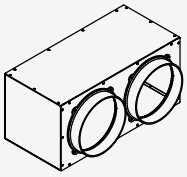


Grille for telescopic kit for rear intake. For S-7110PQ41E.

PCZ-AHRD0544

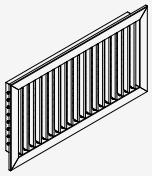
Grille for telescopic kit for rear intake. For S-1014PQ51E.

PCZ-AHRD0545



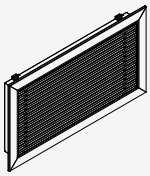
Insulated plenum for horizontal or vertical supply/return. For S-7110PQ41E.

PCZ-AHRA0708



White aluminium supply grille with double row of adjustable fins (450 x 225 mm). For S-7110PQ41E.

PCZ-AHRA0709



White aluminium intake grille with removable filter (450 x 225 mm). For S-7110PQ41E.

PCZ-AHRA0710

Replacement recirculation filter kit. For S-7110PQ41E.

PCZ-AHRD0494

Replacement recirculation filter kit. For S-1014PQ51E.

PCZ-AHRD0495

Plenum kit for external air connection with damper for room recirculation. For S-7110PQ41E.

PCZ-AHRD0642

Plenum kit for external air connection with damper for room recirculation. For S-1014PQ51E.

PCZ-AHRD0643

Ducting plate plenum kit for outdoor air connection with damper. For S-7110PQ41E.

PCZ-AHRD0654

Ducting plate plenum kit for outdoor air connection with damper. For S-1014PQ51E.

PCZ-AHRD0655

90° plenum for outdoor air kit with damper. For S-7110PQ41E.

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PCZ-AHRD0659

90° plenum for outdoor air kit with damper. For S-1014PQ51E.

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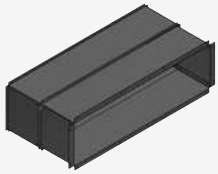
PCZ-AHRD0660



Telescopic kit. For plenum for outdoor air kit with damper. For S-7110PQ41E.

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PCZ-AHRD0664

Telescopic kit. For plenum for outdoor air kit with damper. For S-1014PQ51E.

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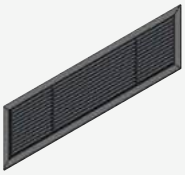
PCZ-AHRD0665



Grille for telescopic kit. For plenum for outdoor air kit with damper. For S-7110PQ41E.

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PCZ-AHRD0669

Grille for telescopic kit. For plenum for outdoor air kit with damper. For S-1014PQ51E.

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PCZ-AHRD0670

Accessories for Jet Air Stream

Ducted air intake plenum (1 x DN 355 mm) for VTVF140N and VTVF140P.

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PCZ-AHRX0056

Ducted air intake plenum (2 x DN 355 mm) for VTVF250N and VTVF250P.

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PCZ-AHRX0057

Ground air intake module (VTVF250 requires two of them).

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PCZ-AHRX0061

Air supply grille for ducts.

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PCZ-AHRX0071

Eurovent certified technical data

Panasonic's PACi NX and VRF systems are now certified by Eurovent*. The Eurovent certification verifies the performance ratings of heating and cooling systems following European standards. Data provides products efficiency with full transparency, for the benefit of customers and professionals.

Commercial air to air - PACi NX

Eurovent AC1 certified technical data: PACi NX Series Elite wall-mounted - PK4 · R32

Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH4E5	U-71PZH4E8	U-100PZH4E5	U-100PZH4E8
Indoor unit			S-2545PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	3,50	5,00	6,10	7,10	7,10	9,50	9,50
	SEER		7,70	8,00	7,10	6,60	6,60	6,60	6,60
	Qce	kWh/annum	160,00	219,00	301,00	377,00	377,00	504,00	504,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	3,50	5,00	6,10	7,10	7,10	9,50	9,50
	Input power (Pec)	kW	0,79	1,22	1,63	1,89	1,89	2,79	2,79
	EER		4,43	4,10	3,74	3,76	3,76	3,41	3,41
Heating average climate (SEASHAvg)	Pdesign	kW	3,10	4,50	4,60	5,20	5,20	8,00	8,00
	SCOP		4,70	4,60	4,70	4,60	4,60	4,10	4,10
	Qhe	kWh/annum	924,00	1369,00	1370,00	1583,00	1583,00	2731,00	2731,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	4,00	5,60	7,00	7,80	7,80	9,50	9,50
	Input power (Peh)	kW	0,94	1,39	1,70	1,95	1,95	2,44	2,44
	COP		4,26	4,03	4,12	4,00	4,00	3,89	3,89
Acoustic (sound)	LwO env	dB(A)	62	64	65	65	65	69	69

Eurovent AC1 certified technical data: PACi NX Series Elite 4 way 60x60 cassette - PY3 · R32

Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5
Indoor unit			S-36PY3E	S-50PY3E	S-60PY3E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	3,60	4,7	6,00
	SEER		7,30	7,00	6,70
	Qce	kWh/annum	171,00	235	314,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	3,60	4,7	6,00
	Input power (Pec)	kW	0,80	1,25	1,75
	EER		4,50	3,76	3,43
Heating average climate (SEASHAvg)	Pdesign	kW	3,60	4,50	4,60
	SCOP		4,70	4,60	4,30
	Qhe	kWh/annum	1073,00	1370,00	1498,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	4,00	5,60	7,00
	Input power (Peh)	kW	0,97	1,66	2,06
	COP		4,12	3,37	3,40
Acoustic (sound)	LwO env	dB(A)	62	64	65

Eurovent AC1 certified technical data: PACi NX Series Elite 4 way 90x90 cassette - PU3 · R32

Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH4E5	U-71PZH4E8	U-100PZH4E8	U-100PZH4E5
Indoor unit			S-3650PU3E	S-3650PU3E	S-6071PU3E	S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	3,60	5,00	6,00	7,10	7,10	9,50	9,50
	SEER		8,90	8,60	8,00	7,70	7,70	7,80	7,80
	Qce	kWh/annum	142,00	203,00	263,00	323,00	323,00	426,00	426,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	3,60	5,00	6,00	7,10	7,10	9,50	9,50
	Input power (Pec)	kW	0,66	1,16	1,48	1,75	1,75	2,15	2,15
	EER		5,45	4,31	4,05	4,06	4,06	4,42	4,42
Heating average climate (SEASHAvg)	Pdesign	kW	3,60	4,50	4,70	5,20	5,20	8,00	8,00
	SCOP		5,10	4,90	4,80	4,80	4,80	4,90	4,90
	Qhe	kWh/annum	988,00	1286,00	1371,00	1517,00	1517,00	2286,00	2286,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	4,00	5,60	7,00	8,00	8,00	11,20	11,20
	Input power (Peh)	kW	0,74	1,32	1,74	1,86	1,86	2,24	2,24
	COP		5,41	4,24	4,02	4,30	4,30	5,00	5,00
Acoustic (sound)	LwO env	dB(A)	62	64	65	65	65	69	69

Eurovent AC1 certified technical data: PACi NX Series Elite ceiling - PT3 · R32

Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH4E5	U-71PZH4E8	U-100PZH4E5	U-100PZH4E8
Indoor unit			S-3650PT3E	S-3650PT3E	S-6071PT3E	S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	3,50	5,00	6,00	6,80	6,80	9,50	9,50
	SEER		7,70	7,40	7,50	7,30	7,20	7,30	7,20
	Qce	kWh/annum	160,00	237,00	280,00	326,00	331,00	456,00	462,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	3,50	5,00	6,00	6,80	6,80	9,50	9,50
	Input power (Pec)	kW	0,72	1,24	1,57	1,74	1,74	2,34	2,34
	EER		4,86	4,03	3,82	3,91	3,91	4,06	4,06
Heating average climate (SEASHAvg)	Pdesign	kW	3,10	4,00	4,60	4,70	4,70	7,80	7,80
	SCOP		4,90	4,80	4,80	4,70	4,70	4,50	4,50
	Qhe	kWh/annum	886,00	1167,00	1342,00	1400,00	1400,00	2426,00	2427,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	4,00	5,60	7,00	8,00	8,00	11,20	11,20
	Input power (Peh)	kW	0,80	1,39	1,69	2,02	2,02	2,80	2,80
	COP		5,00	4,03	4,14	3,96	3,96	4,00	4,00
Acoustic (sound)	LwO env	dB(A)	62	64	65	65	65	69	69

Eurovent AC1 certified technical data: PACi NX Series Elite adaptive ducted unit - PF3 · R32

Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH4E5	U-71PZH4E8	U-100PZH4E5	U-100PZH4E8
Indoor unit			S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	3,60	5,00	5,70	6,80	6,80	9,50	9,50
	SEER		6,80	6,10	7,10	7,10	7,10	7,40	7,40
	Qce	kWh/annum	185,00	287,00	281,00	332,00	332,00	447,00	447,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	3,60	5,00	5,70	6,80	6,80	9,50	9,50
	Input power (Pec)	kW	0,85	1,46	1,55	1,82	1,82	2,32	2,32
	EER		4,24	3,42	3,68	3,74	3,74	4,09	4,09
Heating average climate (SEASHAvg)	Pdesign	kW	3,60	4,00	4,70	4,70	4,70	7,80	7,80
	SCOP		4,50	4,20	4,40	4,70	4,70	4,30	4,30
	Qhe	kWh/annum	1120,00	1333,00	1495,00	1393,00	1394,00	2540,00	2540,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	4,00	5,60	7,00	7,50	7,50	10,80	10,80
	Input power (Peh)	kW	0,96	1,55	1,87	1,86	1,86	2,78	2,78
	COP		4,17	3,61	3,74	4,03	4,03	3,88	3,88
Acoustic (sound)	LwO env	dB(A)	62	64	65	65	65	69	69

Eurovent AC2 certified technical data: Big PACi NX Elite high static pressure hide-away - PE4 · R32

Outdoor unit			U-200PZH4E8	U-250PZH4E8
Indoor unit			S-200PE4E	S-250PE4E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	19,00	22,00
	SEER		6,02	5,40
	Qce	kWh/annum	237,80	213,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	19,00	22,00
	Input power (Pec)	kW	5,93	8,04
	EER		3,20	2,74
Heating average climate (SEASHAvg)	Pdesign	kW	14,50	15,00
	SCOP		3,85	3,83
	Qhe	kWh/annum	151,10	150,20
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	22,40	24,00
	Input power (Peh)	kW	6,31	6,76
	COP		3,55	3,55
Acoustic (sound)	LwO env	dB(A)	—	—

*Please refer an official website (https://www.eurovent-certification.com/en) for each test condition.

Eurovent certified technical data

Commercial air to air - PACi NX

Eurovent AC1 certified technical data: PACi NX Series Standard wall-mounted - PK4 · R32

Outdoor unit			U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-100PZ3E8
Indoor unit			S-2545PK4E	S-2545PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	2,50	3,50	5,00	6,10	6,90	9,00	9,00
	SEER		6,60	6,80	7,20	7,00	6,00	6,20	6,20
	Qce	kWh/annum	133,00	181,00	243,00	305,00	402,00	508,00	508,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	2,50	3,50	5,00	6,10	6,90	9,00	9,00
	Input power (Pec)	kW	0,57	0,90	1,47	1,71	2,10	2,79	2,79
	EER		4,39	3,89	3,40	3,57	3,29	3,23	3,23
Heating average climate (SEASHAvg)	Pdesign	kW	2,50	2,60	4,00	4,60	5,20	8,80	8,80
	SCOP		4,20	4,40	4,40	4,60	4,40	4,00	4,00
	Qhe	kWh/annum	833,00	827,00	1271,00	1400,00	1654,00	3080,00	3080,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	2,80	3,60	5,00	6,10	7,10	9,00	9,00
	Input power (Peh)	kW	0,62	0,88	1,19	1,43	1,73	2,36	2,36
	COP		4,52	4,09	4,20	4,27	4,10	3,81	3,81
Acoustic (sound)	LwO env	dB(A)	64	64	64	64	66	70	70

Eurovent AC1 certified technical data: PACi NX Series Standard 4 way 60x60 cassette - PY3 · R32

Outdoor unit			U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A
Indoor unit			S-25PY3E	S-36PY3E	S-50PY3E	S-60PY3E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	2,50	3,60	4,7	6,00
	SEER		6,50	6,70	7,30	6,80
	Qce	kWh/annum	134,00	188,00	226	305,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	2,50	3,60	4,7	6,00
	Input power (Pec)	kW	0,56	0,91	1,34	1,77
	EER		4,46	3,96	3,51	3,39
Heating average climate (SEASHAvg)	Pdesign	kW	2,80	2,80	4,00	4,60
	SCOP		4,60	4,30	4,40	4,20
	Qhe	kWh/annum	850,00	912,00	1264,00	1500,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	3,20	3,60	5,00	6,00
	Input power (Peh)	kW	0,72	0,84	1,27	1,66
	COP		4,44	4,29	3,94	3,61
Acoustic (sound)	LwO env	dB(A)	64	64	64	64

Eurovent AC1 certified technical data: PACi NX Series Standard 4 way 90x90 cassette - PU3 · R32

Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-100PZ3E8
Indoor unit			S-3650PU3E	S-3650PU3E	S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	3,60	5,00	6,00	7,10	10,00	10,00
	SEER		8,10	8,00	7,80	6,80	6,80	6,70
	Qce	kWh/annum	156,00	219,00	269,00	365,00	515,00	521,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	3,60	5,00	6,00	7,10	10,00	10,00
	Input power (Pec)	kW	0,83	1,28	1,61	2,17	2,62	2,62
	EER		4,34	3,91	3,73	3,27	3,82	3,82
Heating average climate (SEASHAvg)	Pdesign	kW	2,80	4,00	4,60	5,20	10,00	10,00
	SCOP		4,80	4,70	4,90	4,60	4,40	4,40
	Qhe	kWh/annum	817,00	1191,00	1314,00	1583,00	3182,00	3182,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	3,60	5,00	6,00	7,10	10,00	10,00
	Input power (Peh)	kW	0,71	1,08	1,34	1,68	2,03	2,03
	COP		5,07	4,63	4,48	4,23	4,93	4,93
Acoustic (sound)	LwO env	dB(A)	64	64	64	66	70	70

Eurovent AC1 certified technical data: PACi NX Series Standard ceiling - PT3 · R32

Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-100PZ3E8
Indoor unit			S-3650PT3E	S-3650PT3E	S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	3,50	5,00	6,00	6,80	10,00	10,00
	SEER		7,20	6,70	7,30	5,90	6,60	6,50
	Qce	kWh/annum	171,00	262,00	288,00	404,00	531,00	537,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	3,50	5,00	6,00	6,80	10,00	10,00
	Input power (Pec)	kW	0,85	1,65	1,67	2,10	2,75	2,75
	EER		4,14	3,03	3,59	3,24	3,64	3,64
Heating average climate (SEASHAvg)	Pdesign	kW	2,80	4,00	4,60	4,70	10,00	10,00
	SCOP		4,40	4,10	4,60	4,30	4,20	4,20
	Qhe	kWh/annum	891,00	1365,00	1399,00	1529,00	3331,00	3331,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	3,50	5,00	6,00	6,80	10,00	10,00
	Input power (Peh)	kW	0,76	1,34	1,46	1,62	2,36	2,36
	COP		4,61	3,73	4,11	4,20	4,24	4,24
Acoustic (sound)	LwO env	dB(A)	64	64	64	66	70	70

Eurovent AC1 certified technical data: PACi NX Series Standard adaptive ducted unit - PF3 · R32

Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-100PZ3E8
Indoor unit			S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	3,40	5,00	5,70	6,80	9,50	9,50
	SEER		6,00	6,50	6,40	6,00	6,60	6,50
	Qce	kWh/annum	198,00	267,00	310,00	391,00	502,00	508,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	3,40	5,00	5,70	6,80	9,50	9,50
	Input power (Pec)	kW	0,90	1,80	1,61	2,14	2,66	2,66
	EER		3,78	2,78	3,54	3,18	3,57	3,57
Heating average climate (SEASHAvg)	Pdesign	kW	2,40	3,80	4,40	4,70	7,80	7,80
	SCOP		4,00	4,00	4,40	4,10	3,90	3,90
	Qhe	kWh/annum	839,00	1303,00	1376,00	1591,00	2795,00	2795,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	3,40	5,00	5,70	6,80	9,50	9,50
	Input power (Peh)	kW	0,82	1,38	1,41	1,70	2,32	2,32
	COP		4,15	3,62	4,04	4,00	4,09	4,09
Acoustic (sound)	LwO env	dB(A)	64	64	64	66	70	70

Wall-mounted Professional YKEA

Eurovent AC1 certified technical data: Wall-mounted Professional YKEA · R32

Kit			KIT-Z25-YKEA-1	KIT-Z35-YKEA-1	KIT-Z42-YKEA-1	KIT-Z50-YKEA-1	KIT-Z71-YKEA-1
Outdoor unit			CU-Z25YKEA-1	CU-Z35YKEA-1	CU-Z42YKEA-1	CU-Z50YKEA-1	CU-Z71YKEA-1
Indoor unit			CS-Z25YKEA-1	CS-Z35YKEA-1	CS-Z42YKEA-1	CS-Z50YKEA-1	CS-Z71YKEA-1
Seasonal efficiency in cooling (SEASC)	Pdesign	kW	2,50	3,50	4,20	4,70	7,10
	SEER		9,50	9,60	8,60	8,60	6,50
	Qce	kWh/annum	92,00	128,00	171,00	191	382,00
Standard cooling PL Condition A (STD cooling)	Nominal cooling capacity (Pc)	kW	2,50	3,50	4,20	4,70	7,10
	Input power (Pec)	kW	0,51	0,85	1,10	1,12	2,20
	EER		4,90	4,12	3,82	4,20	3,23
Heating average climate (SEASHAvg)	Pdesign	kW	2,70	3,20	3,60	4,20	5,50
	SCOP		4,60	4,60	4,50	4,60	4,10
	Qhe	kWh/annum	822,00	974,00	1120,00	1278,00	1878,00
Standard heating (STD heating)	Nominal heating capacity (Ph)	kW	3,40	4,00	5,30	5,80	8,20
	Input power (Peh)	kW	0,70	0,90	1,35	1,42	2,21
	COP		4,86	4,44	3,93	4,08	3,71
Acoustic (sound)	LwO env	dB(A)	61	63	64	63	66

*Please refer an official website (https://www.eurovent-certification.com/en) for each test condition.

Features explained

Energy saving.

REFRIGERANT R32. Our heat pumps containing R32 refrigerant show a drastic reduction in the value of Global Warming Potential (GWP).

EXCEPTIONAL SEASONAL COOLING EFFICIENCY BASED ON THE ERP REGULATION. Higher SEER ratings mean greater efficiency and year-round cooling savings!

EXCEPTIONAL SEASONAL HEATING EFFICIENCY BASED ON THE ERP REGULATION. Higher SCOP ratings mean greater efficiency and year-round heating savings!

ECONAVI. Intelligent human activity sensor and sunlight sensor technologies that can detect and reduces the waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

INVERTER PLUS SYSTEM. Inverter Plus system classification highlights Panasonic's highest performing systems.

INVERTER. The Inverter range provides greater efficiency and comfort. Provides more precise temperature control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels.

HIGH-EFFICIENCY COMPRESSOR. Panasonic Big PACi NX Elite has compressors that operate with a wider Hz range realize a more efficient operation throughout the year.

PANASONIC R2 ROTARY COMPRESSOR. Designed to withstand extreme conditions, it delivers high performance and efficiency.

BETTER EFFICIENCY AND VALUE FOR LOW TEMPERATURE APPLICATIONS. On an energy efficiency scale from D to A+++, the PACi NX Water Heat Exchanger provide A+++ rated heating.

High performance and indoor air quality.

DOWN TO -20 °C IN COOLING MODE. The air conditioner works in cooling mode when the outdoor temperature of -20 °C.

DOWN TO -20 °C IN HEATING MODE. The air conditioner works in heat pump mode when the outdoor temperature is as low as -20 °C.

nanoe™ X. Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise.

SUPER QUIET. With Super Quiet technology our devices are quieter than a library (30 dB(A)).

DC FAN. Safe and precise.

FILTER INCLUDED. Hide-away with filter included.

BLUEFIN. Panasonic Big PACi NX Elite has extended the life of its condensers with an original anti-rust coating.

LARGE FAN. Panasonic Big PACi NX Elite large fan provides larger air flow rate and very quiet operation at low speed.

MORE COMFORT WITH AEROWINGS. Panasonic's Aerowings feature incorporates two blades that concentrate the air flow to cool or heat in the shortest possible time by distributing the air evenly throughout the room. For wall-mounted YKEA.

UP TO 52 °C IN COOLING MODE. PACi NX with Water Heat Exchanger system works in cooling mode at outdoor temperature up to 52 °C.

R410A/R22 RENEWAL. The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing high-efficiency R32 systems.

5 YEARS COMPRESSOR WARRANTY. We guarantee the outdoor unit compressors in the entire range for five years.

High connectivity.

COMMERCIAL SMART EDGE. Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7. Simplified commissioning, optimised plant management, and advanced analytics.

INTERNET CONTROL. A next generation system providing user-friendly control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone or tablet via Wi-Fi.

BMS CONNECTIVITY. The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic air conditioner to your home or Building Management System.

DOMESTIC INTEGRATION TO S-LINK - CZ-CAPRA1. Can connect RAC range to S-Link. Full control is now possible.

ADVANCED CONTROL. A touch screen remote controller is included as a standard. Clean design, easy operation and quick access to all menus.

Panasonic

ECO i EX

ECO i

Commercial VRF – ECOi

Panasonic VRF Systems are specifically designed for energy saving, easy installation and high-efficiency performance, providing a comfort and better Indoor Air Quality (IAQ) solution. A wide range of outdoor and indoor unit models offer unique features which are designed for the most demanding offices and large buildings.

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3-Pipe ECOi EX MF4 Series R32 → 330
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PRODUCT SPECIFICATIONS

VRF outdoor units range

Mini ECOi LZ2 Series 4 to 6 HP · R32 → 314
Mini ECOi LZ2 Series 8 and 10 HP · R32 → 315
Mini ECOi LE2 Series high-efficiency 4 to 6 HP · R410A → 318
Mini ECOi LE1 Series high-efficiency 8 and 10 HP · R410A → 319
2-Pipe ECOi EX MZ1 Series · R32 → 327
3-Pipe ECOi EX MF4 Series · R32 → 331
2-Pipe ECOi EX ME2 Series · R410A → 337
3-Pipe ECOi EX MF3 Series · R410A → 346

VRF indoor units range

U2 type 4 way 90x90 cassette · R32 / R410A → 355
Y3 type 4 way 60x60 cassette · R32 / R410A → 356
L1 type 2 way cassette · R410A → 357
D1 type 1 way cassette · R410A → 358
F3 type variable static pressure adaptive duct · R32 / R410A → 359
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K3 type wall-mounted · R32 / R410A → 363
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Hydrokit for ECOi, water at 45 °C · R410A → 367
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Ventilation

AHU connection kit MAH4M for ECOi 2-Pipe → 370
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VRF highlighted features

Panasonic provides an extensive range of solutions for medium and large sized buildings, combining the best options to satisfy all needs and site restrictions.

		Capacity range	Extreme temperatures operation	Maximum number of connectable indoor units	Indoor to outdoor connection ratio	Indoor units	Controls	Other ranges integration
R32	Mini ECOi LZ2	4 - 10 HP	-20 °C in heating mode 52 °C in cooling mode	16 [1]	50 ~ 150%	All (check restrictions)	All	PACi NX range full control integration + Domestic range integration by accessory
R32	ECOi EX MZ1	8 - 48 HP	-25 °C in heating mode 52 °C in cooling mode	43	50 ~ 130%			
R32	ECOi MF4	8 - 36 HP	-20 °C in heating mode 52 °C in cooling mode	52	50 ~ 150%			
R410A	Mini ECOi LE2/LE1	4 - 10 HP	-20 °C in heating mode 46 °C in cooling mode	15	50 ~ 130%	All (check restrictions)	All	PACi NX range full control integration + Domestic range integration by accessory
R410A	ECOi EX ME2	8 - 80 HP	-25 °C in heating mode 52 °C in cooling mode	64	50 ~ 200%			
R410A	ECOi EX MF3	8 - 48 HP	-20 °C in heating mode 52 °C in cooling mode	52	50 ~ 150%			

1) For 6 HP model. 2) 50 ~ 200% only when one outdoor unit is installed. In other cases 50 ~ 130%.

The complete VRF solution for efficiency, quality, and comfort

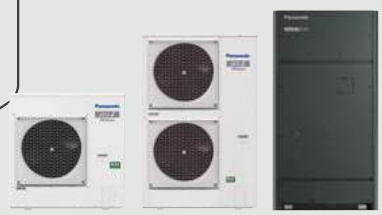
To meet the latest market demands for decarbonised buildings, the ECOi range with R32 refrigerant has been expanded to 48 HP offering a comprehensive portfolio. In line with F-gas regulations, R32 ECOi is a future-ready VRF solution.

Panasonic VRF, extended decarbonised solution.

R32 ECOi range from 4–12 HP, expandable up to 48 HP.
A comprehensive line-up featuring nanoe™ X indoor units, hydronic and ventilation solutions, and seamless BMS connectivity.

R32
GWP REDUCED BY
68% 1)

R32
REFRIGERANT



CO_2 SUSTAINABLE YET HIGHLY EFFICIENT

Cut GWP by 68% 1) and total CO_2-eq by up to 82% 2) through lower refrigerant volume and improved efficiency.

R32 RELIABILITY - R32 STANDARD-COMPLIANT

Panasonic provides safety measures that meet the latest standards and R32 density requirements for each project.

-25 °C DESIGN FLEXIBILITY

· Up to 1000 m piping
· Heating to -25 °C
· Wide indoor unit range with nanoe™ X
· Flexible connectivity: standalone, central and BMS integration

1) GWP of R32 refrigerant is 675, while the GWP of R410A is 2088. 2) Total CO_2 Eq= GWP x charge. Panasonic's internal research conducted under consistent system conditions.

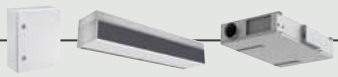
Complete ECOi solution.

Bringing nature's balance indoors.
Wide range of air to air indoor line-up with nanoe™ X.

nanoeX

12 design line-up

Improve Indoor Air Quality.
A range of ventilations including ERVs and AHU connection kits.



Hydronic modules.
To provide heating and hot water.

R32
REFRIGERANT

R410A
REFRIGERANT

KNX Modbus® BACnet™

P-SMART EDGE P-Smart Nexus

PACi

Seamless connectivity integration.
Single to centralized control, multi-site control solutions and BMS integrations.

One platform for total control across all your sites, 24/7 and remotely.
Commercial Smart Edge.

Other ranges integration.
PACi NX range: full control integration + domestic range integration via accessory.

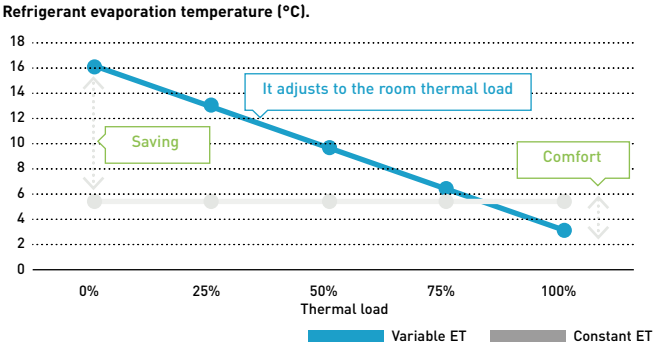
Panasonic VRF: TOP in comfort

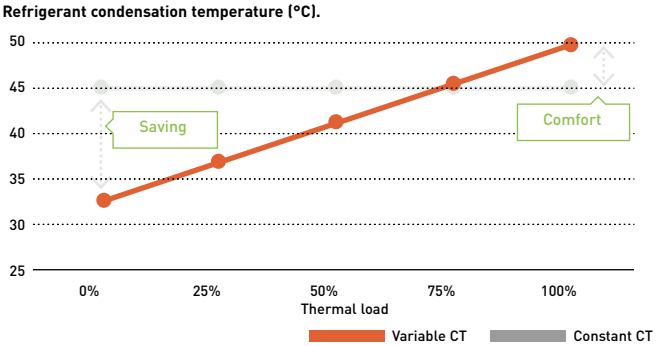
Since 2006, all Panasonic VRF systems have included special VET technology, with variable refrigerant temperature control, as standard.

Variable Evaporation and Condensation Temperature.

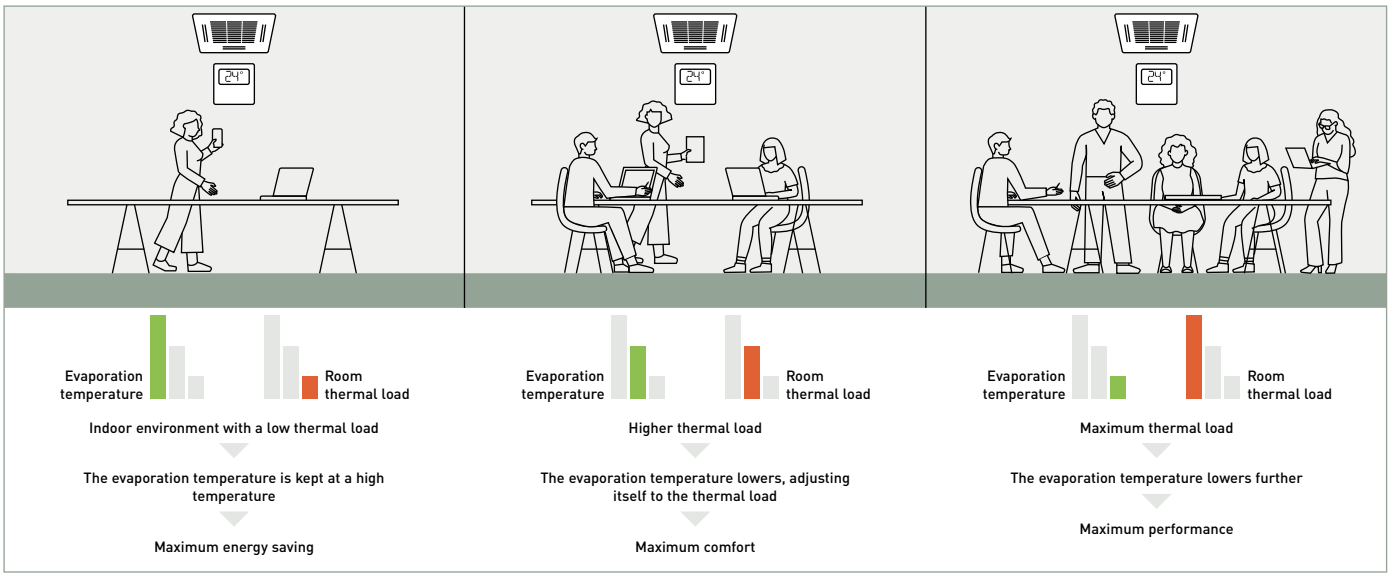
Our 'smart logic' system checks the temperature every 30 seconds, automatically adjusting the refrigerant temperature according to actual demand and outdoor conditions. This ensures better energy performance at all times.

Temperature varies from 16 °C to 3 °C.
Similarly, the condensation temperature is also variable and is adjusted to the room thermal load, within a range of 33 - 55 °C.

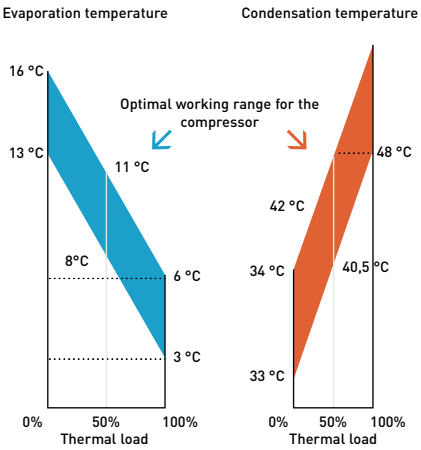




Example of cooling mode (similarly applicable to heating mode).

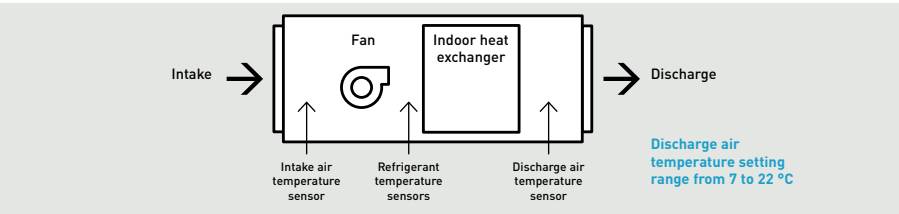


Technical focus on variable temperatures



Control of the discharge temperature

This special function is available in all of Panasonic VRF systems' indoor units to guarantee maximum comfort for the end user.
For example, in cooling mode, if the temperature of the discharged air was below 10 °C, the user may feel discomfort, just as he would do in heating mode if the temperature was far too high.
With the Panasonic control of the discharge air temperature, this can be adjusted within a cooling range of 7 – 22 °C.



Benefits:
- The air will never be too cold or too warm
- Available in cooling and in heating
- Higher comfort
- Energy saving
- It prevents the formation of condensation within ducts and vents, improving levels of hygiene

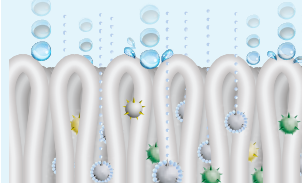
Bringing nature's balance indoors

nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be, whether at home, work, or visiting hotels, shops and restaurants etc.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.

2 | Contained in tiny water particles, nanoe™ X has a long lifespan, which is about 600 seconds, to spread easily around the room.

Huge quantity.

3 | nanoe X Generator Mark 3 produces 48 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.

The image shows nanoe X Generator Mark 3.

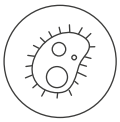
4 | No service and maintenance required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X – Panasonic unique technology

Deodorises

Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses

Mould

Allergens

Pollen

Hazardous substances

Moisturises

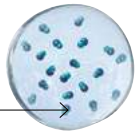
Skin and hair

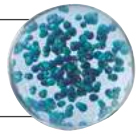
*Refer to https://aircon.panasonic.eu for more details and validation data.

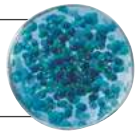
First nanoe™ device was developed by Panasonic in 2003

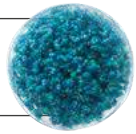
Generator: nanoe™	Generator: nanoe™ X		
2003	**Mark 1** - 2016	**Mark 2** - 2019	**Mark 3** - 2022
480 billion hydroxyl radicals/sec	4,8 trillion hydroxyl radicals/sec	9,6 trillion hydroxyl radicals/sec	48 trillion hydroxyl radicals/sec
Ion particle structure	**10x times**	**20x times**	**100x times**

Hydroxyl radicals









nanoe™ X has evolved again - the nanoe X Generator Mark 3.

The latest of the continuously evolving nanoe™ X technology, it has the largest amount of hydroxyl radical in the history of nanoe™ which generates 48 trillion hydroxyl radical per second, 100 times the hydroxyl radical contained in traditional nanoe™. The increased number of hydroxyl radical, which are the key to nanoe™ cleaning power, means you can expect an even higher level of performance.

nanoe™ X is an internationally-validated technology. Official test reports are available.

Meets the requirements of VDI 6022 and HACCP

Certified under VDI 6022, meeting one of the strictest hygiene requirements on the market for HVAC systems, and aligned with HACCP-based food-safety practices.

VDI 6022 – Part 5 [1] Certification.

Avoidance of allergenic exposure. Inhibits a wide range of harmful bacteria, viruses, mould, pollen and allergens.

VDI 6022 – Part 1 [1] & 1.1 [2] Certification.

Ventilation and indoor-air quality. Panasonic nanoe™ X technology improving indoor air quality.

HACCP Food Safety Certified [3] – Europe's first HVAC manufacturer.

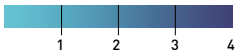
1) Certification mark only valid for nanoe X Generator Mark 3. 2) Certification mark only valid for nanoe X Generator Mark 2 and Mark 3. 3) Applicable to PACi NX and ECOi indoor units equipped with nanoe X Generator Mark 3.

Higher concentration, even in large spaces

Greater effectiveness even in large spaces of more than 100 m².

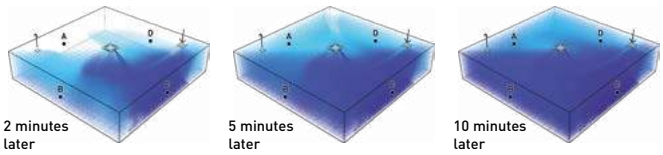
Conditions of the simulation: Inspection / model: 4 way cassette / room size: 112 m² / room height: 2,4 m / position of IDU: centre of space / ventilation: 3 times/hour.

nanoe™ concentration level:



nanoe™ X diffuse into the space in a short time to quickly reach the effective concentration level.

Simulation with nanoe X Generator Mark 3 in a room size of 112 m²

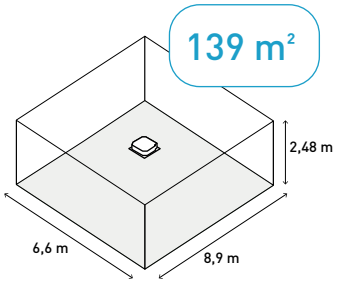


Effectiveness in large space with Generator Mark 3

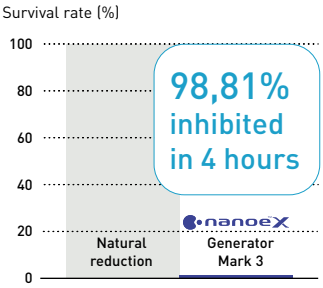
Inhibits virus: An air conditioner equipped with nanoe X Generator Mark 3 inhibits activity of adhered virus (Bacteriophage) by 98,81% in 4 hours [1].

Inhibits pollen: The result of nanoe X Generator Mark 3. Inhibits pollen in 1/4 the time of nanoe X Generator Mark 2 [2].

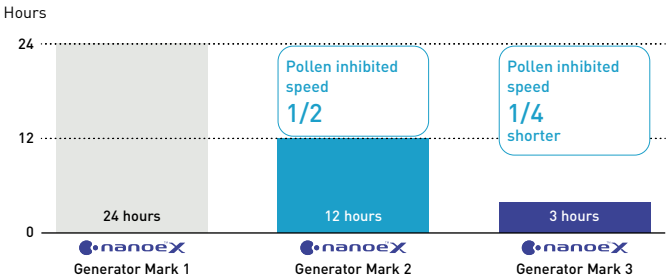
Test ambient.



Test result (bacteriophage).



Comparison of time required to inhibit 99% of cedar pollen [3].



1) Testing organisation: SGS Inc / Test subject: Adhered Bacteriophage / Test volume: Approx. 139 m² large space (6,6 x 8,9 x 2,48 m). Test result: Inhibited 98,81% in 4 hours. Test repot no.: SHES210901902583. 2) Effect after 3 hours in a test space of approx. 24 m². The figures are not the results of testing in an actual operating space. 3) **nanoe X Generator Mark 1:** [Testing organisation] Panasonic Product Analysis Center [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m²) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 24 hours (4AA33-151001-F01). **nanoe X Generator Mark 2:** [Testing organisation] Panasonic Product Analysis Center, [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m²) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 12 hours confirmed (L19YA009). **nanoe X Generator Mark 3:** [Testing organisation] Panasonic Product Analysis Center [Test method] ELISA method of measuring allergens adhering to fabric in a test room (approx. 24 m²) [Method of inhibition] Release of nanoe™ [Target] Adhered allergen (cedar pollen) [Test Result] Inhibition of 99% or more in 3 hours (H21YA017-1).

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment

U2 type 4 way 90x90 cassette.
Built-in nanoe X Generator Mark 3.

Y3 type 4 way 60x60 cassette.
Built-in nanoe X Generator Mark 3.

K3 type wall-mounted.
Built-in nanoe X Generator Mark 3.

F3 type adaptive duct.
Built-in nanoe X Generator Mark 3.

M2 type hide-away.
Built-in nanoe X Generator Mark 3.

G1 type floor console.
Built-in nanoe X Generator Mark 1.

P2 type floor-standing.
Built-in nanoe X Generator Mark 3.

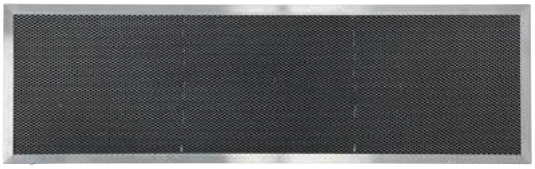
R2 type concealed floor-standing
Built-in nanoe X Generator Mark 3.

Ceiling mounted air-e nanoe X Generator.
Built-in nanoe X Generator Mark 1.

BION air pollutant filter (optional)

Collaborating with BION, experts in filtration equipment, a new molecular filtration is available to improve indoor air quality.

BION MEDIA INSIDE

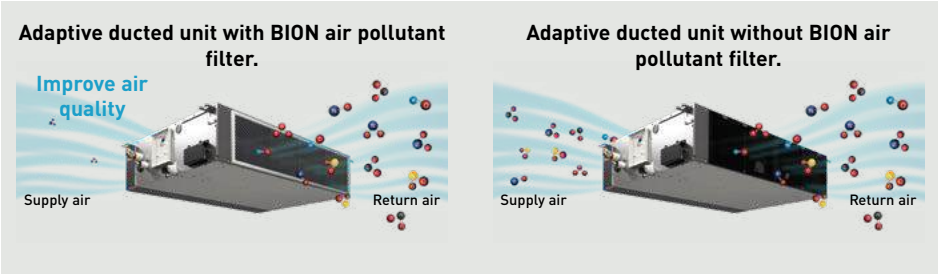


The efficiency of nitrogen dioxide (NO_2) removal can reach 99,5%*

*Measured by ASTM6646 international standards. Efficiency reaches 99,5% within 4,8 seconds of contact time with the media bed (FAM filter). **The performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. BION air pollutant filter is not medical device, local regulations on building design must be followed. Test results conducted under controlled laboratory conditions. Performance of BION air pollutant filter might differ in real life environment.

BION air pollutant filter traps and reduces certain types of harmful pollutant gases, listed below

- Nitrogen oxides (NO_x)
- Ozone (O_3)
- Sulfur dioxide (SO_2)
- Formaldehyde (HCHO)
- Volatile organic compounds (VOCs)



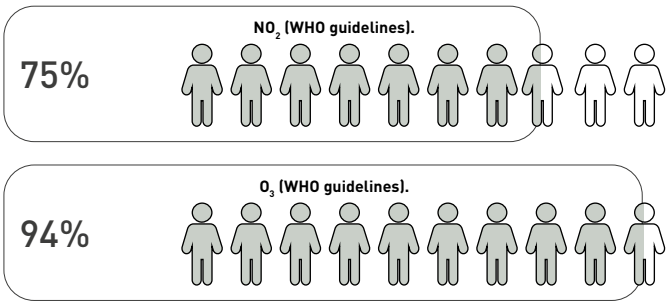
The BION air pollutant filter is an ideal solution for improving indoor air quality in urban areas.

Air pollution in urban areas in Europe

It is reported that in 2021, a significant portion of the Europe's urban population has been exposed to high levels of key air pollutants*.

- 75% of the urban population was exposed to NO_2 concentrations above 10 µg/m³
- 94% were exposed to concentrations of O_3 above 60 µg/m³

*The "Europe's Air Quality Status 2023" report (EEA, 2023) assesses levels of air pollutants measured in ambient air across Europe (> 2000 locations) for the years 2021 and 2022. It compares them against both EU standards as set out in the Ambient Air Quality Directives and the 2021 WHO Air Quality Guidelines.



Share of the Europe's urban population exposed to air pollutant concentrations above EU standards and WHO guidelines in 2021, as referenced in the EEA 2023.

Why outdoor air pollution matters to IAQ?

Poor indoor air quality is associated with outdoor air pollutants such as car exhaust and factory fumes, and the two are closely linked. A significant portion of human exposure to air pollution occurs when they are indoors.

Different objectives, different IAQ solutions

In today's world, we are concerned about wellbeing and the air we breathe. And technology exists to ensure improved indoor air quality. With the introduction of the BION air pollutant filter, Panasonic offers IAQ solutions optimized for various target objectives.

IAQ Solution	nanoe™ X	BION air pollutant filter
Objectives	Inhibit particles such as pollutants, certain types of viruses, and bacteria to clean and deodorise	Inhibit gases such as nitrogen oxides (NO_x), ozone (O_3), sulfur dioxide (SO_2), formaldehyde (HCHO) and volatile organic compounds (VOCs)
Technology	Hydroxyl radicals contained in water	Molecular filtration
Filtering mechanism	Physical capture of particles	Adsorption and absorption
Availability	Built into all air-to-air indoor units as a standard	Optional accessory for the adaptive ducted unit (PF3/MF3)

BION air pollutant filter*	PAW-APF800F	PAW-APF1000F	PAW-APF1400F
Compatible adaptive ducted unit	MF3 15, 22, 28, 36, 45 and 56	MF3 60 and 73	MF3 90, 112, 140 and 160

*The filter cartridge and filter casing are included in the package.

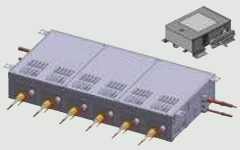
Solutions for Restaurants

Full heating, cooling and DHW solutions for Restaurants.

1

Electric VRF. ECOi EX and Mini ECOi.
ECOi electrical VRF is specifically designed for the most demanding restaurants. High-efficiency system. Extended operating range to provide heating at outdoor temperature as low as -25 °C (2-Pipe ECOi EX). Suitable for refurbishment projects.

2



3-Pipe control box kit.
Heat Recovery box to connect multiple indoor units with just one box, 4, 6 and up to 8 indoor units or groups
This is good advantage in the restaurants, where space for connecting several boxes is limited.

3

Aquarea T-CAP.
Ideal for heating, cooling and for production of big quantities of hot water at 75 °C, Aquarea have a extremely quick return on investment and a low CO_2 footprint.

4

Water heat exchanger for ECOi.
Efficient hot water production supported by a high-performance class A water pump.

5

AHU connection kit for efficient ventilation.
The AHU connection kit is specially designed to improve the efficiency of the pre-heating or pre-cooling ventilation process.

6

Adaptive ducted with nanoe™ X.
Super silent units deliver the ideal air supply. Units available from 1,5 kW providing precise temperature control even in small rooms.
2 installation possibilities (horizontal / vertical) with high ESP 150 Pa allows for flexible installation.
nanoe™ X is built-in as standard.

7

Mini Cassette.
The Y3 type 4 way 60x60 cassette unit has modern and stylish panel design which matches with any type of the building design.

8

Control your way.
Wide variety of controls, from simple user control to full system control via remote access functionality. Touch panel and consumption control.

9

Air curtain with DX coil.
Designed for smooth operation and efficient performance.

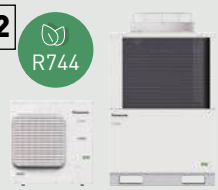
10

Protocol friendly.
Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters. Range of solutions to control locally or remotely the full system in bi-directional mode.

11

Commercial Smart Edge.
Manage the entire Panasonic HVAC portfolio across multi-site installations from a single platform, remotely, 24/7.

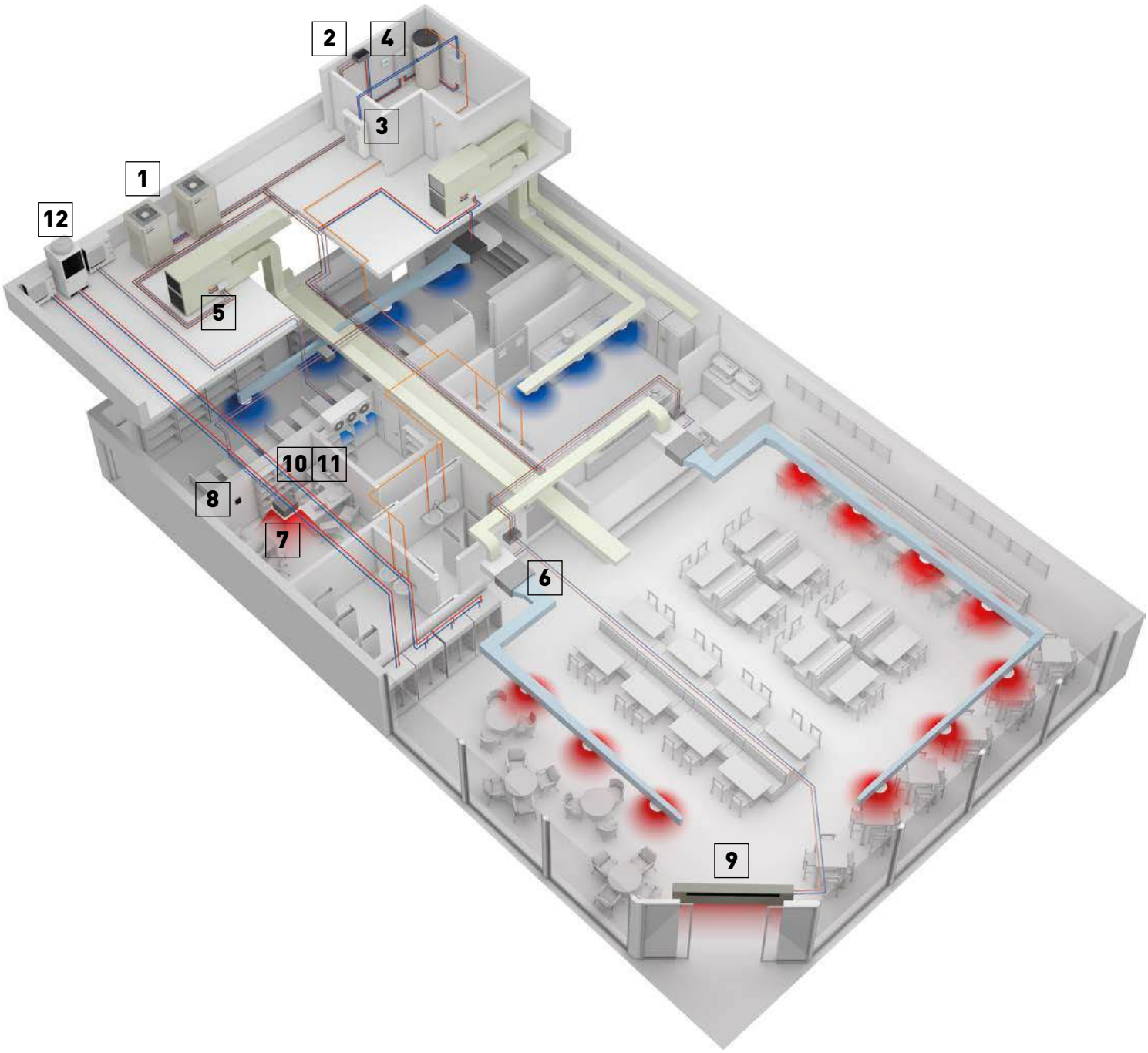
12



Condensing unit with natural refrigerant.
Panasonic CO_2 unit is the natural choice for showcases and cold rooms in restaurants. Always fresh foods from a future-poof refrigeration technology, without any contamination risk.

Highly efficient at part load conditions.

Panasonic has solutions for optimising the installation of cooling, heating and DHW production in restaurants. While the kitchen needs cooling, heating is needed for DHW and also for heating the public area, with the advantage of 100% fresh air that removes odours. Combining all these needs smartly with Panasonic technology results in a simple and flexible system adaptable to any restaurant requests, with lower utility bills.



Your entire hotel with superior comfort, control and savings too

1

Electric VRF. ECOi EX.
ECOi electrical VRF is specifically designed for the most demanding hotels. High-efficiency system. Extended operating range to provide heating at outdoor temperature as low as -25 °C (2-Pipe ECOi EX). Suitable for refurbishment projects.

2

Hydronic units.
Providing efficient hot and cold water.

3 8

YKEA unit for server room.
Steady cooling, nonstop, even at -25 °C and still with high-efficiency. Ready for continuous operation and easy to connect 2 systems to automatically alternate and ensure server rooms are kept cool.

4

AHU connection kit for efficient ventilation.
The AHU connection kit is specially designed to improve the efficiency of the pre-heating or pre-cooling ventilation process.

5

Control your way.
Wide variety of controls, from simple user control to full system control via remote access functionality. Touch panel, web server, consumption control, smartphone control... everything is possible.

6

Wide range of indoor units.
All units provided with supply air temperature sensor and low operation sound level to guarantee maximum guest comfort. Units equipped with nanoe™ X (available in specific models) provide better air quality in public spaces in the hotel.

7

Commercial Smart Edge.
Manage the entire Panasonic HVAC portfolio across multi-site installations from a single platform, remotely, 24/7.

8

Protocol friendly.
Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters.

9

Air curtain with DX coil.
Designed for smooth operation and efficient performance.

10a

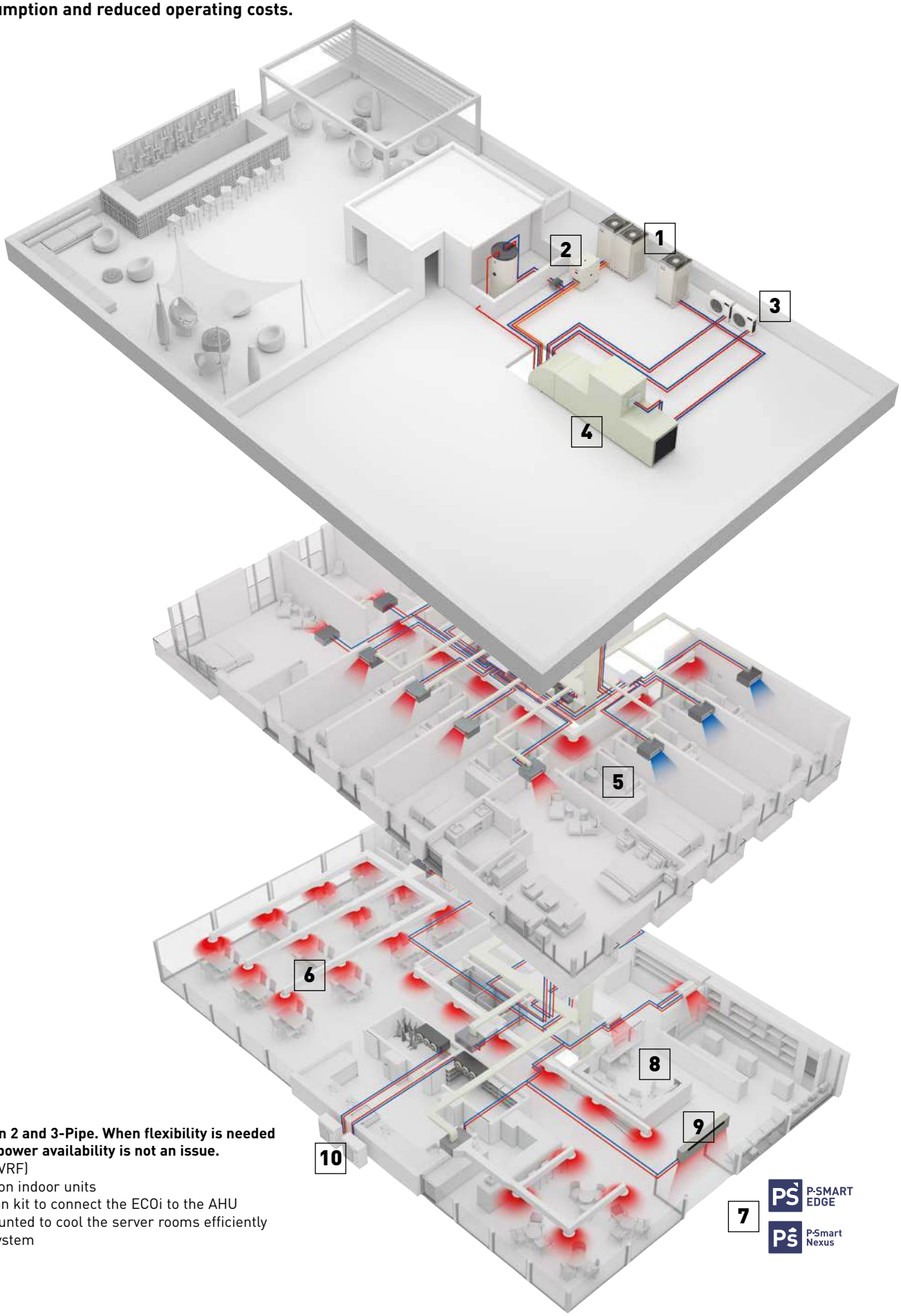
Condensing unit with natural refrigerant.
Panasonic CO_2 unit is the natural choice for an energy saving and climate-friendly solution.

10b

PACi NX Elite Series for cooling rooms.
High quality and efficient solution for high temperature refrigeration down to 8 °C.

Panasonic offers one of the widest ranges in HVAC&R and DHW solutions on the market, enabling us to provide the most suitable system for any application, 24 hours a day, 365 days a year.

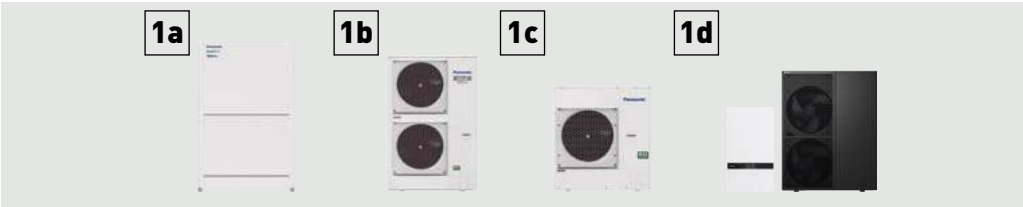
Our solutions ensure not only higher customer satisfaction but also lower energy consumption and reduced operating costs.



Electric solution 2 and 3-Pipe. When flexibility is needed and electricity power availability is not an issue.

- ECOi (electric VRF)
- Direct expansion indoor units
- AHU connection kit to connect the ECOi to the AHU
- YKEA wall-mounted to cool the server rooms efficiently
- Pump Down system

Innovative solutions for retail

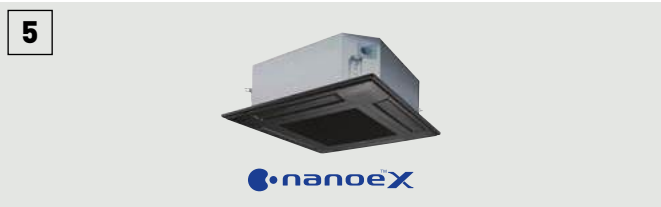


Multi energy solutions.
The Multi energy solution from Panasonic provides the best choice in energy saving and on the flexibility of the installation. Panasonic solutions can be connected to direct expansion systems, water chiller installations and ventilation systems as air handling units.
1a: VRF. ECOi
1b: VRF. Mini ECOi
1c: 1x1. PACi NX
1d: A2W. Aquarea

YKEA unit for server room.
Steady cooling, nonstop, even at -25 °C and still with high-efficiency. Ready for continuous operation and easy to connect 2 systems to automatically alternate and ensure server rooms are kept cool.

Control your way.
Wide variety of controls, from simple user control to full system control via remote access functionality. Touch panel and consumption control.

Econavi sensor.
The Econavi sensor detects presence in the room, and quietly adapts the PACi or VRF air conditioning system in order to improve comfort and energy savings.



Wide range of indoor units.
All units provided with supply air temperature sensor and low operation sound level to guarantee maximum guest comfort. Units equipped with nanoe™ X (available in specific models) provide better air quality in public spaces in the hotel.

Hide-away, for power and efficiency.
Super silent units from 1,0 kW offer precise temperature control for small rooms. M2 type ultra-slim ducted units, only 200 mm high, fit in height-restricted spaces.

Air curtain with DX coil.
Designed for smooth operation and efficient performance.

Commercial Smart Edge.
Manage the entire Panasonic HVAC portfolio across multi-site installations from a single platform, remotely, 24/7.

Protocol friendly.
Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters. Range of solutions to control locally or remotely the full system in bi-directional mode.

AHU connection kit for efficient ventilation.
The AHU connection kit is specially designed to improve the efficiency of the pre-heating or pre-cooling process of the ventilation.

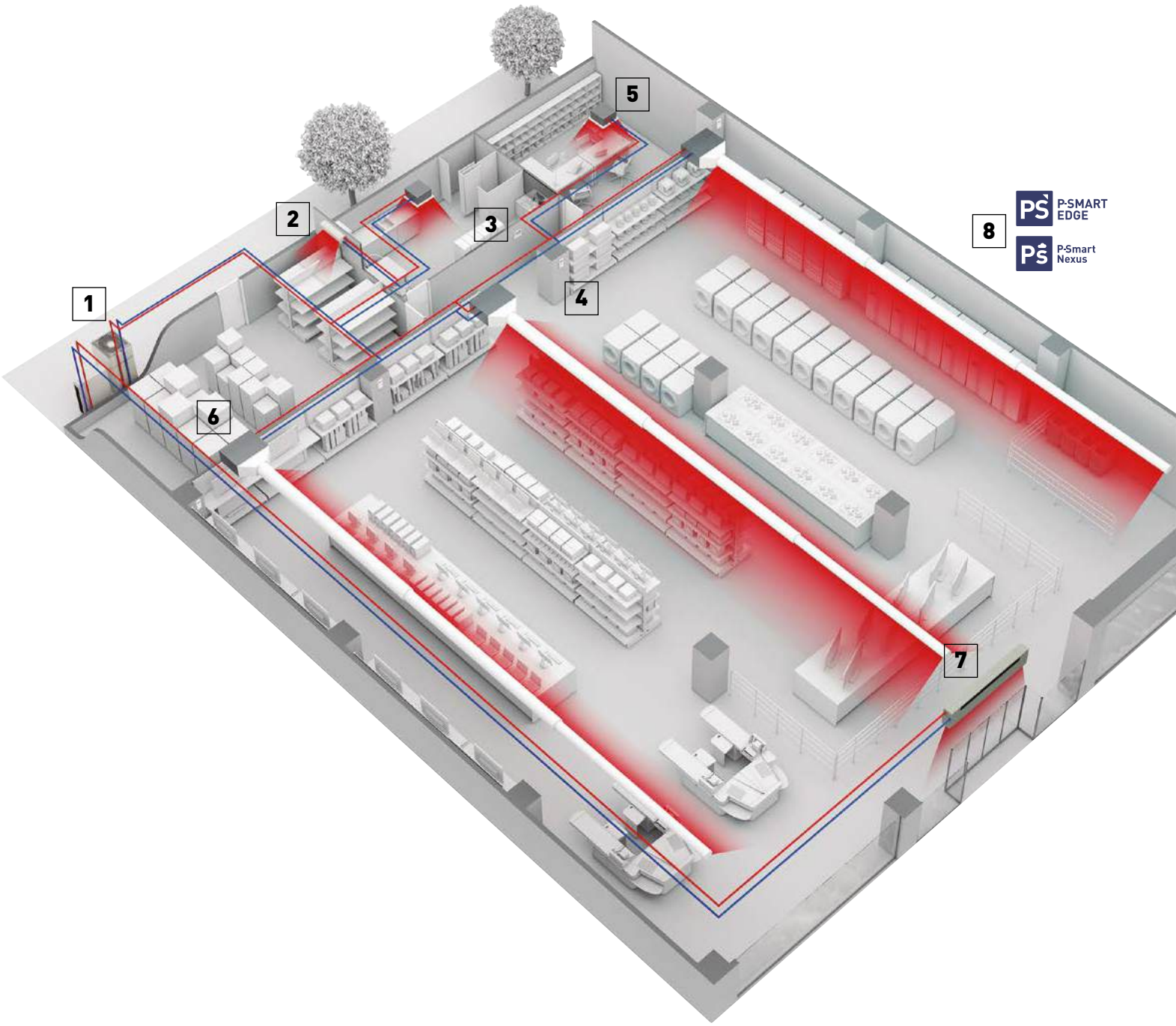
Energy Recovery unit for high-efficiency of the system.
Panasonic Energy Recovery Ventilators can reduce the outside air load because they efficiently recover the heat lost by ventilation during the heat recovery process.

Heating and cooling solutions for retail applications.

Panasonic has developed solutions for retail and office applications where return on investment is a key factor! The comfort inside the shop is key for a good customer experience.
From local control or Panasonic's cloud control system, a detailed status of the heating and cooling system can be displayed, analysed and optimised in order to improve the efficiency, reduce the running time and increase the life time of the units.

8 reason why Panasonic is the best solution for your retail:

· Complete solution
· Flexibility and adaptability
· Go green retail: low CO_2 emissions
· Comfort - high customer satisfaction
· Future expansion
· Panasonic offers efficient systems meeting expectations over the life-span of the project
· High quality of service with Panasonic pro-partner installation team
· The system maintains operation by bypassing up to 25% of units during power failure



VRF outdoor units range

Page	Outdoor units	4 HP	5 HP	6 HP	8 HP	10 HP
P. 314	R32 Mini ECOi LZ2 Series · R32	 U-4LZ2E5 / U-4LZ2E8	 U-5LZ2E5 / U-5LZ2E8	 U-6LZ2E5 / U-6LZ2E8	 U-8LZ2E8	 U-10LZ2E8
P. 318	Mini ECOi LE2 / LE1 Series · R410A	 U-4LE2E5 / U-4LE2E8	 U-5LE2E5 / U-5LE2E8	 U-6LE2E5 / U-6LE2E8	 U-8LE1E8	 U-10LE1E8
P. 327	R32 2-Pipe ECOi EX MZ1 Series · R32				 U-8MZ1E8	 U-10MZ1E8
P. 331	R32 NEW! 3-Pipe ECOi EX MF4 Series · R32				 U-8MF4E8	 U-10MF4E8
P. 337	2-Pipe ECOi EX ME2 Series · R410A				 U-8ME2E8	 U-10ME2E8
P. 346	3-Pipe ECOi EX MF3 Series · R410A				 U-8MF3E8	 U-10MF3E8

12 HP	14 HP	16 HP	18 HP	20 HP
U-12MZ1E8				
U-12MF4E8				
U-12ME2E8	U-14ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8
U-12MF3E8	U-14MF3E8	U-16MF3E8		

Mini ECOi LZ2 Series R32

Outstanding efficiency in a compact body and continuous operation even at extreme ambient temperatures.
VRF with outstanding energy saving performance and superior SEER and SCOP.

R32
REFRIGERANT

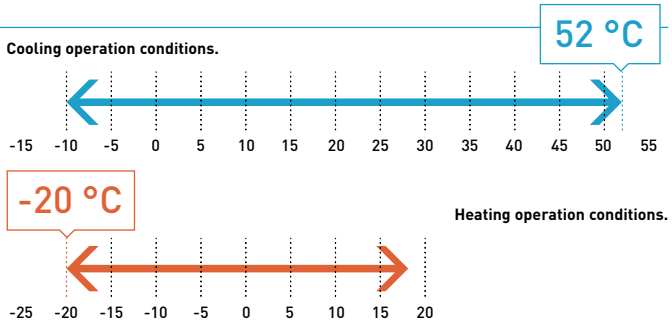
- EXTRAORDINARY SAVINGS. SEER 8,50 [1] SCOP 5,05 [1]
- R32 RELIABLE QUALITY - R32 STANDARD-COMPLIANT [2]
- PANASONIC DNA COMPRESSORS
- LOW HEIGHT 996 MM
- 35Pa ESP HIGH EXTERNAL STATIC PRESSURE 35 PA
- QUIET MODE OPERATION WITH LOW CAPACITY DROP
- 52°C -20°C CONTINUOUS OPERATION AT EXTREME AMBIENT TEMPERATURES
- 150 % INCREASED INDOOR / OUTDOOR CAPACITY RATIO UP TO 150%

1) for 4 HP model. 2) Panasonic's R32 safety measures comply with IEC 60335-2-40 (ed. 7.0) and EN 378 (ISO 5149).

Mini ECOi LZ2 provides the optimal performance in any climatic condition.

Extended design operation conditions

LZ2 mini VRF is extremely reliable even under the most difficult conditions.The units can operate in cooling mode at extreme temperatures, 52 °C in cooling and -20 °C in heating mode.



Cooling: Outside air temperature °C (DB). Heating: Outside air temperature °C (WB).

Compatible with a large range of indoor units and controls

An expansion of Panasonic VRF line up, the Mini ECOi R32 is compatible with a large range of indoor units, either supporting Panasonic's optional R32 refrigerant leak detector alarm or having built-in detectors provide a great flexibility for all types of installation, and can utilize all Panasonic's scalable control and monitoring solutions.

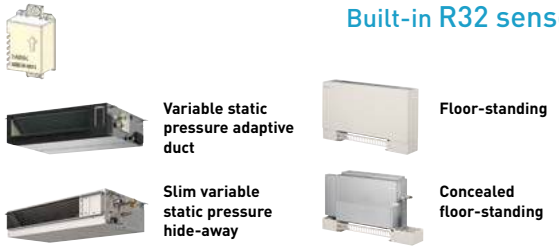
Connects R32 refrigerant leak detector - CZ-CGLSC2

4 way 90x90 cassette

4 way 60x60 cassette

Wall-mounted

Built-in R32 sensors



Variable static pressure adaptive duct

Floor-standing

Slim variable static pressure hide-away

Concealed floor-standing

Panasonic R32 refrigerant leak detector/alarm (optional)

The optional R32 refrigerant leak detector (CZ-CGLSC2) is available for compatible indoor units, allowing customers to determine if the detector is required for safety compliance or if the indoor unit can be installed without it. This sensor includes an integrated alarm buzzer and can connect to a central alarm system. It links to the indoor unit's remote control terminals and is compatible with any VRF remote controllers, wired or wireless.

Connects Panasonic R32 refrigerant leak detector.
CZ-CGLSC2

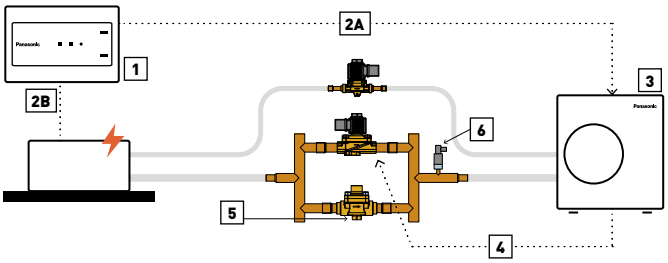
The alarm triggered by the Panasonic R32 refrigerant leak detector will also be transmitted and displayed on any connected centralised controller.

*Only one remote controller can be connected with the Panasonic R32 refrigerant leak detector.

Non-voltage contact external output, maximum allowable voltage: DC 24 V (for central monitoring, etc.).

R32 Pump Down solution

R32 Pump Down solution offers the assurance of additional safety protection, whilst expanding the potential installation cases, allowing for installation within smaller rooms.
Suitable for the Mini ECOi LZ2 range up to 10 HP, compatible indoor units connected to CZ-CGLSC2 or integrated Panasonic R32 refrigerant leak detector.



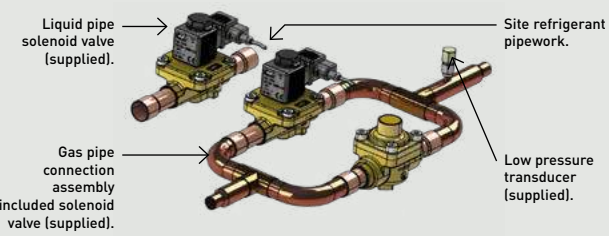
Operation steps: 1 | A leak is detected by the leak detection sensor. 2A | Leak alarm signal is sent to the outdoor unit. 2B | Indoor unit fan activated and runs at maximum speed. 3 | Pump Down procedure is activated. 4 | Solenoid valves are closed preventing refrigerant returning to indoor units. 5 | Outdoor unit is operating in Pump Down mode and check valve only allows flow to the outdoor unit. 6 | Low pressure switch threshold is reached. Error signal isolates the outdoor unit, preventing restart.

Technical focus

- Simplified design and installation
- Complies with IEC 60335-2-40 ed.6.0
- Recovers base charge within outdoor unit
- Expands potential installation cases
- IP rated connections for outdoor installation

Model reference	Description
PAW-PUD2WB-1	Basic Pump Down system (2 way) for one R32 Mini ECOi outdoor unit

Pump Down kit.
Indication of the items included within the Pump Down kit.



Mini ECOi LZ2 Series 4 to 6 HP · R32

Outstanding efficiency in a compact body and continuous operation even at extreme ambient temperatures.

- SEER levels up to 8,5 and SCOP levels up to 5,0 (for 4 HP model)
- Continuous operation at extreme ambient temperatures: -20 °C (heating) to 52 °C (cooling)
- Unique indoors with nanoe™ X, hydroxyl radicals contained in water

Low height
996 mm

HP			4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Outdoor unit			U-4LZ2E5	U-5LZ2E5	U-6LZ2E5	U-4LZ2E8	U-5LZ2E8	U-6LZ2E8
Power supply	Voltage	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Single phase	Single phase	Single phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	12,1	14,0	15,5	12,1	14,0	15,5
EER [1]		W/W	4,53	4,12	3,88	4,53	4,12	3,88
Current		A	13,30 - 12,80 - 12,20	16,90 - 16,20 - 15,50	19,60 - 18,70 - 18,00	4,37 - 4,15 - 4,00	5,50 - 5,23 - 5,04	6,44 - 6,12 - 5,89
Input power		kW	2,67	3,40	4,00	2,67	3,40	4,00
Heating capacity		kW	12,5	16,0	16,5	12,5	16,0	16,5
COP [1]		W/W	5,27	4,71	4,42	5,27	4,71	4,42
Current		A	12,00 - 11,40 - 11,00	16,90 - 16,20 - 15,50	18,50 - 17,70 - 17,00	3,91 - 3,71 - 3,58	5,50 - 5,22 - 5,03	6,02 - 5,72 - 5,51
Input power		kW	2,37	3,40	3,73	2,37	3,40	3,73
Starting current		A	1,0	1,0	1,0	1,0	1,0	1,0
Maximum current		A	19,6	23,7	26,5	7,2	9,2	9,9
Maximum input power		kW	3,92 - 4,10 - 4,28	4,76 - 4,98 - 5,19	5,41 - 5,66 - 5,90	4,40 - 4,63 - 4,80	5,69 - 5,99 - 6,22	6,15 - 6,47 - 6,72
Maximum number of connectable indoor units [2]			7 (10)	8 (12)	9 (12)	7 (10)	8 (12)	9 (12)
External static pressure		Pa	0 ~ 35	0 ~ 35	0 ~ 35	0 ~ 35	0 ~ 35	0 ~ 35
Air flow		m^3/min	69	72	74	69	72	74
Sound pressure	Cool	dB(A)	52	53	54	52	53	54
	Cool (Silent 1/2/3/4)	dB(A)	49/47/45/45	50/48/46/45	51/49/47/45	49/47/45/45	50/48/46/45	51/49/47/45
	Heat	dB(A)	54	56	56	54	56	56
Sound power	Cool / Heat	dB(A)	69/72	70/74	72/75	69/72	70/74	72/75
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	94	94	94	94	94	94
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Maximum piping length (total)		m	90 (180)	90 (180)	90 (180)	90 (180)	90 (180)	90 (180)
Elevation difference (in / out)		m	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)
Refrigerant (R32)		kg	2,7	2,7	2,7	2,7	2,7	2,7
Maximum allowable indoor / outdoor capacity ratio [3]		%	50 ~ 150 (130)	50 ~ 150 (130)	50 ~ 150 (130)	50 ~ 150 (130)	50 ~ 150 (130)	50 ~ 150 (130)
Operating range	Cool Min ~ Max	°C	-10 ~ 52	-10 ~ 52	-10 ~ 52	-10 ~ 52	-10 ~ 52	-10 ~ 52
	Heat Min ~ Max	°C	-20 ~ 18	-20 ~ 18	-20 ~ 18	-20 ~ 18	-20 ~ 18	-20 ~ 18

ErP data [4]						
SEER [5]	**8,50**	**8,12**	**7,71**	**8,50**	**8,12**	**7,71**
$\eta_{s,c}$	**337,0%**	**321,8%**	**305,4%**	**337,0%**	**321,8%**	**305,4%**
SCOP [5]	**5,05**	**4,61**	**4,59**	**5,05**	**4,61**	**4,59**
$\eta_{s,h}$	**199,0%**	**181,4%**	**180,6%**	**199,0%**	**181,4%**	**180,6%**

1) EER and COP calculation is based in accordance to EN 14511. 2) The number in parenthesis indicates maximum number of connectable indoor unit in case of 1,5 kW indoor units connection. 3) The number in parenthesis indicates maximum allowed indoor / outdoor capacity ratio in case of 1,5 kW indoor units connection. 4) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for U2 type 4 way 90x90 cassette indoor units. 5) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Minimum environmental impact

Panasonic has designed the LZ2 series in order to minimize the environmental impact of the system. Low GWP refrigerant R32 and highest efficiency levels ensure this through the total operational lifetime.

For the most challenging spaces

The Mini ECOi LZ2 R32 VRF system is the ideal solution to fit into any application thanks to its compact design and long piping lengths.

Technical focus

- Widest range of connectable units in R32 VRF
- Allowing wide range of installations with and without mitigation measures
- Flexible mitigation measures, with Panasonic R32 refrigerant leak detector / alarm to be installed only when required

R32 REFRIGERANT | INVERTER+ | R2 ROTARY COMPRESSOR | BLUEFIN | -10 °C COOLING MODE | -20 °C HEATING MODE | AUTOMATIC RESTART | COMMERCIAL SMART EDGE | OPTIONAL WI-FI | 5 YEARS COMPRESSOR WARRANTY

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

INTERNET CONTROL: Optional.

Industry 1st 8 HP and 10 HP Mini VRF units with R32

Mini ECOi LZ2 Series 8 and 10 HP · R32

Introducing widest range of R32 Mini VRF.

- SEER levels up to 7,6 and SCOP levels up to 4,6 (for 8 HP model)
- Continuous operation at extreme ambient temperatures: -20 °C (heating) to 52 °C (cooling)
- Unique indoors with nanoe™ X, hydroxyl radicals contained in water

HP			8 HP	10 HP
Outdoor unit			**U-8LZ2E8**	**U-10LZ2E8**
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Cooling capacity		kW	22,4	28,0
EER [1]		W/W	3,84	3,47
Current		A	9,73 - 9,25 - 8,91	13,2 - 12,5 - 12,1
Input power		kW	5,83	8,07
Heating capacity		kW	25,0	28,0
COP [1]		W/W	4,30	4,47
Current		A	9,81 - 9,32 - 8,98	10,5 - 9,93 - 9,57
Input power		kW	5,81	6,26
Starting current		A	1,0	1,0
Maximum current		A	13,7	19,5
Maximum input power		kW	8,21 - 8,64 - 8,96	11,9 - 12,6 - 13,0
Maximum number of connectable indoor units [2]			16	16
External static pressure		Pa	0 ~ 35	0 ~ 35
Air flow		m^3/min	158	167
Sound pressure	Cool	dB(A)	59,0	60,0
	Cool (Silent 1/2/3/4)	dB(A)	56/54/52/50	57/55/53/50
Sound power	Cool	dB(A)	72	74
Dimension	H x W x D	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	125	126
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	3/4 (19,05)	7/8 (22,22)
Maximum piping length (total)		m	100 (300)	100 (300)
Elevation difference (in / out)		m	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)
Refrigerant (R32)		kg	4,9	5,1
Maximum allowable indoor / outdoor capacity ratio [3]		%	50 ~ 150 (130)	50 ~ 150 (130)
Operating range	Cool Min ~ Max	°C	-10 ~ 52	-10 ~ 52
	Heat Min ~ Max	°C	-20 ~ 18	-20 ~ 18

ErP data [4]		
SEER [5]	**7,56**	**7,08**
$\eta_{s,c}$	**299,4%**	**280,2%**
SCOP [5]	**4,59**	**4,60**
$\eta_{s,h}$	**180,6%**	**181,0%**

1) EER and COP calculation is based in accordance to EN 14511. 2) The number in parenthesis indicates maximum number of connectable indoor unit in case of 1,5 kW indoor units connection. 3) The number in parenthesis indicates maximum allowed indoor / outdoor capacity ratio in case of 1,5 kW indoor units connection. 4) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for F2 type variable static pressure hide-away indoor units. 5) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Perfect fit for small to medium size projects

8 and 10 HP LZ2 Mini VRF units bring in the total benefits of a VRF system in a smaller application. You can enjoy advanced individual and central VRF control options including the revolutionary Panasonic AC Smart Cloud and AC Service Cloud.

For the most difficult conditions

The Mini ECOi LZ2 series are able to operate at the hardest conditions from -20 °C up to +52 °C providing continuous and efficient, heating and cooling for your space all year long.

Technical focus

- Widest range of connectable units in R32 VRF
- Allowing wide range of installations with and without refrigerant mitigation
- Flexible mitigation measures, with Panasonic R32 refrigerant leak detector / alarm to be installed only when required

R32 REFRIGERANT | INVERTER+ | R2 ROTARY COMPRESSOR | BLUEFIN | -10 °C COOLING MODE | -20 °C HEATING MODE | AUTOMATIC RESTART | COMMERCIAL SMART EDGE | OPTIONAL WI-FI | 5 YEARS COMPRESSOR WARRANTY

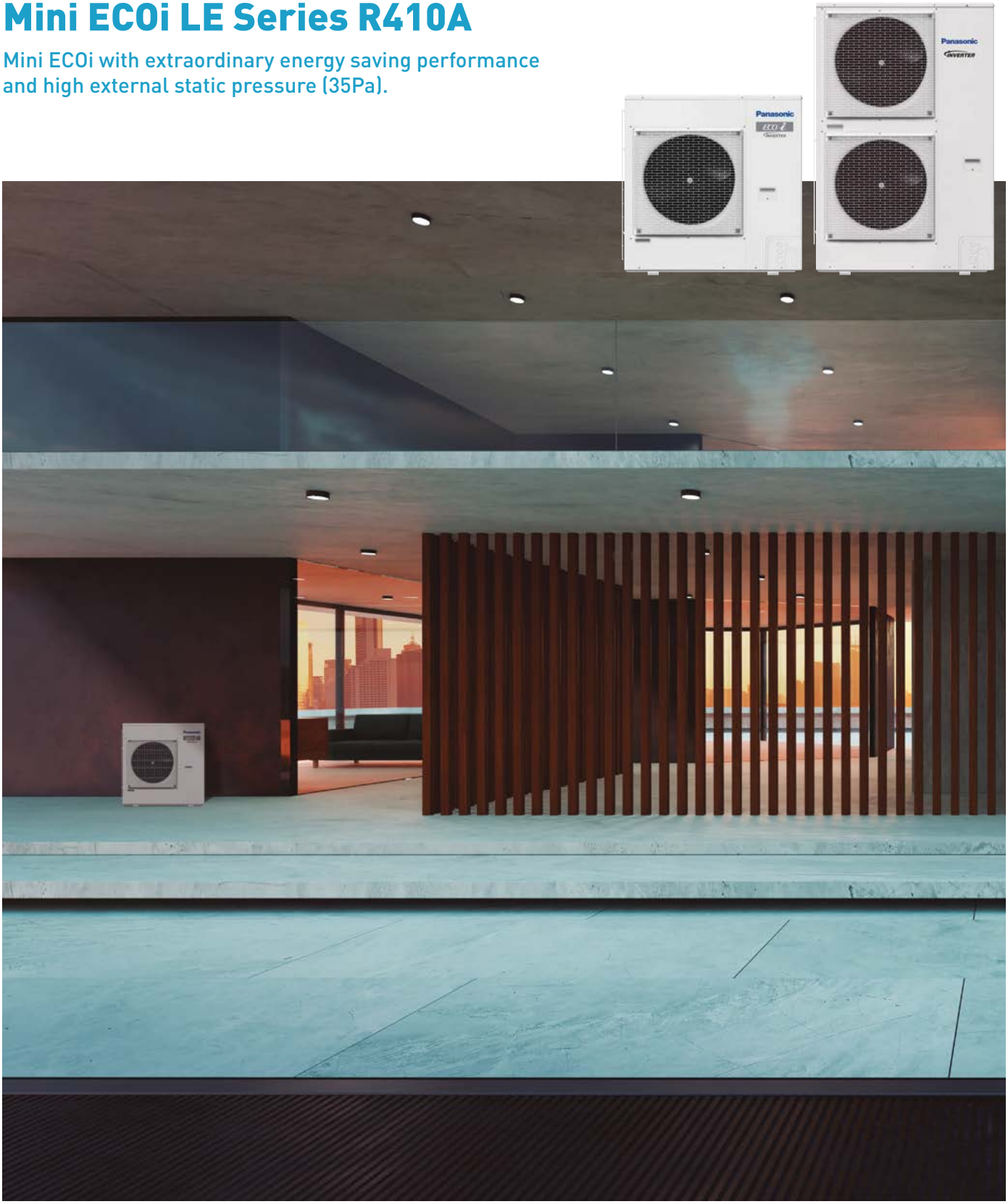
EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Mini ECOi LE Series R410A

Mini ECOi with extraordinary energy saving performance and high external static pressure (35Pa).



- EXTRAORDINARY SAVINGS. SEER 7,85 [1] SCOP 4,87 [1]
- HIGH QUALITY - PANASONIC TWIN ROTARY COMPRESSOR
- NO EXTRA REFRIGERANT NEEDED UP TO 50 M [2]
- HIGH COP MODE OPTION [2]
- LOW HEIGHT 996 MM
- 35Pa ESP HIGH EXTERNAL STATIC PRESSURE 35 PA
- 46°C -20°C CONTINUOUS OPERATION AT EXTREME AMBIENT TEMPERATURES
- 130 % INCREASED INDOOR / OUTDOOR CAPACITY RATIO UP TO 130%

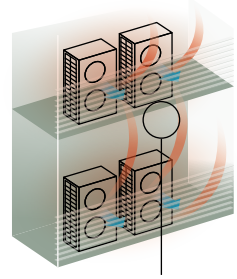
1) for 4 HP model. 2) For model 4-6 HP.

High external static pressure 35 Pa.

· High air pressure
· An efficient blade design
· Perfect for high class condominiums

When unit is installed on a narrow balcony and exposed to the sun, the barrier at the front side may restrict hot air from being discharged. Heat accumulated in an enclosure can cause over-heating. This may potentially result in damage or shorten the product's life span. A high external static pressure fan sends the air further away from the outdoor unit and through the barrier. This provides better air circulation and distribution.
And a high air pressure of 35 Pa discharges the hot air to a sufficient distance.

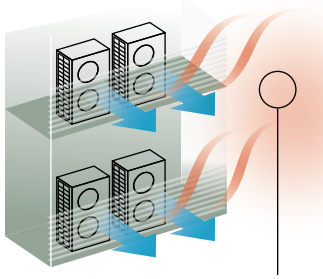
Previous model - low pressure.



Heat accumulated.
When the pressure is low, hot air will accumulate in the unit thus affecting its work performance and that of unit above it as well.

Previous fan

LE Series - high pressure.

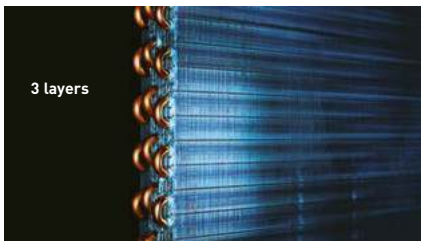


Heat discharged.
But with a high pressure of 35 Pa, hot air is sent further away preventing overheating inside the outdoor unit enclosure.

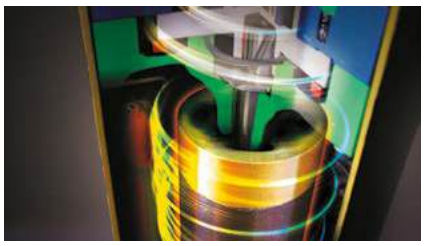
LE2's fan

Energy control and reliability

The Mini ECOi system delivering energy saving performance, powerful operation, reliability and comfort surpassing anything previously possible.



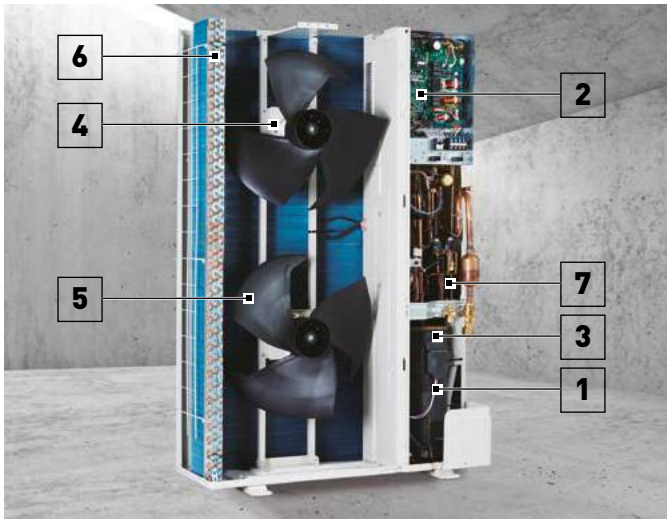
Powerful heat exchanger.
3 layers of heat exchanger for all LE Series. LE Series features the same heat exchange volume as conventional model even though it is 15% smaller in size.



Panasonic twin rotary compressor.
A large capacity Inverter compressor has been adopted. This compressor features wider and 0,1 Hz step Inverter control.

Design fan.
Fan braves have been redesigned to inhibit air resistance and to increase efficiency. The larger fan increases air flow while maintaining low noise levels.

Energy savings design



1 | **Panasonic Inverter compressor.** A large-capacity Inverter compressor has been adopted. The Inverter compressor is superior in performance with improved partial-load capacity.
2 | **Printed circuit board.** Maintenance is made easier with only 2 PCBs.
3 | **Accumulator.** A large accumulator has been adopted to maintain compressor reliability because of the increased refrigerant quantity, which allows an extended maximum piping length.
4 | **DC fan motor.** Checking load and outside temperature, the DC motor is controlled for optimum air flow.
5 | **Blade shape.** The fan blades have been developed to inhibit air turbulence and increase efficiency. As the fan diameter has been increased, air flow has also increased whilst maintaining a same sound level.
6 | **Heat exchanger and copper tubes.** Optimised heat exchanger and copper tube sizes enhance efficiency. Bluefin condenser with anti-corrosion treatment ensures durability in salty and rust-prone environments.
7 | **Oil separator.** A centrifugal separator has been adopted to improve oil separation efficiency and reduce refrigerant pressure loss.

Maximum comfort with quiet operation mode

· Quiet operation mode reduces outdoor unit operating sound by 7 dB(A)
· 4-step set point is available
· Silent mode 1 maintains rated cooling capacity

*Timer setting of quiet operation mode is available in high-spec remote controller.

Silent mode options	Sound pressure level
Silent mode 1	-1,5 dB(A)
Silent mode 2	-3 dB(A)
Silent mode 3	-5 dB(A)
Silent mode 4	-7 dB(A)

Mini ECOi LE2 Series high-efficiency 4 to 6 HP · R410A

Panasonic Mini ECOi. Extraordinary energy saving.

The most compact ECOi system ever.

· Outstanding SEER and SCOP

· Better efficiency even compared to 2 fan outdoor units

HP			4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Outdoor unit			**U-4LE2E5**	**U-5LE2E5**	**U-6LE2E5**	**U-4LE2E8**	**U-5LE2E8**	**U-6LE2E8**
Power supply	Voltage	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Single phase	Single phase	Single phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	12,1	14,0	15,5	12,1	14,0	15,5
EER [1]		W/W	4,50	4,06	3,73	4,50	4,06	3,73
Current		A	13,30 - 12,70 - 12,20	16,30 - 15,60 - 17,00	20,30 - 19,40 - 18,60	4,39 - 4,17 - 4,02	5,58 - 5,30 - 5,11	6,71 - 6,37 - 6,14
Input power		kW	2,69	3,45	4,15	2,69	3,45	4,15
Heating capacity		kW	12,5	16,0	16,5	12,5	16,0	16,5
COP [1]		W/W	5,19	4,60	4,27	5,19	4,60	4,27
Current		A	12,20 - 11,60 - 11,20	17,60 - 16,80 - 16,10	19,10 - 18,20 - 17,50	3,98 - 3,78 - 3,64	5,62 - 5,34 - 5,14	6,24 - 5,93 - 5,71
Input power		kW	2,41	3,48	3,86	2,41	3,48	3,86
Starting current		A	1,00	1,00	1,00	1,00	1,00	1,00
Maximum current		A	17,30	24,30	27,40	7,90	10,10	10,70
Maximum input power		kW	3,50 - 3,66 - 3,82	4,92 - 5,14 - 5,37	5,61 - 5,86 - 6,12	4,34 - 5,09 - 5,28	6,25 - 6,55 - 6,82	6,62 - 6,97 - 7,23
Maximum number of connectable indoor units [2]			7 (10)	8 (10)	9 (12)	7 (10)	8 (10)	9 (12)
External static pressure		Pa	0 ~ 35	0 ~ 35	0 ~ 35	0 ~ 35	0 ~ 35	0 ~ 35
Air flow		m^3/min	69	72	74	69	72	74
Sound pressure	Cool	dB(A)	52	53	54	52	53	53
	Cool (Silent 1/2/3/4)	dB(A)	50,5/49/47/45	51,5/50/48/46	52,5/51/48/46	50,5/49/49/47	48,5/50/48/46	48,5/50/48/46
	Heat	dB(A)	54	56	56	54	56	56
Sound power	Cool / Heat	dB(A)	69/72	71/75	73/75	69/72	71/75	73/75
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	106	106	106	106	106	106
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Maximum piping length (total)		m	150 (180)	150 (180)	150 (180)	150 (180)	150 (180)	150 (180)
Elevation difference (in / out)		m	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)
Refrigerant (R410A) / CO_2 Eq.		kg / T	6,70 (14,40) / 13,9896	6,70 (14,40) / 13,9896	6,70 (14,40) / 13,9896	6,70 (14,40) / 13,9896	6,70 (14,40) / 13,9896	6,70 (14,40) / 13,9896
Maximum allowable indoor / outdoor capacity ratio		%	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130
Operating range	Cool Min ~ Max	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18

ErP data [3]						
SEER [4]	**7,85**	**7,48**	**7,25**	**7,85**	**7,48**	**7,25**
$\eta_{s,c}$	**311,0%**	**296,2%**	**286,8%**	**311,0%**	**296,2%**	**286,8%**
SCOP [4]	**4,87**	**4,40**	**4,24**	**4,87**	**4,40**	**4,24**
$\eta_{s,h}$	**191,8%**	**172,9%**	**166,7%**	**191,8%**	**172,9%**	**166,7%**

1) EER and COP calculation is based in accordance to EN 14511. 2) In case of 1,5 kW indoor units connection, able to connect maximum 12 indoor units. 3) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for F2 type variable static pressure hide-away indoor units. 4) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

For light commercial use

Mini ECOi allows easier installation in condominiums and medium sized buildings with limited spaces. Utilising R410A and DC Inverter technology, Panasonic offers VRF to a new and growing market.

Reduced height of 996 mm

In addition to raising efficiency, the outdoor unit has been designed to be as compact as possible. It can now be installed in places that were previously too small.

Technical focus

· 50 m piping without additional refrigeration charge

· High static pressure 35 Pa

· High COP mode selectable with maintenance remote controller

· Selectable silent mode

INVERTER+ | R2 ROTARY COMPRESSOR | BLUEFIN | -10 °C COOLING MODE | -20 °C HEATING MODE | AUTOMATIC RESTART | R22 → R410A R22 RENEWAL | PS COMMERCIAL SMART EDGE | OPTIONAL WI-FI | 5 YEARS COMPRESSOR WARRANTY

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

INTERNET CONTROL: Optional.

Mini ECOi LE1 Series high-efficiency 8 and 10 HP · R410A

Prepare to be blown away by Panasonic's Mini VRF system.
The Mini VRF compact system is the ideal solution for minimum outdoor space. Panasonic extends the Mini VRF range by 8 and 10 HP units.
· Piping flexibility with 150 m maximum length
· High-efficiency

HP			8 HP	10 HP
Outdoor unit			**U-8LE1E8**	**U-10LE1E8**
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Cooling capacity		kW	22,4	28,0
EER [1]		W/W	3,80	3,11
Current		A	9,60 - 9,15 - 8,80	14,70 - 14,00 - 13,50
Input power		kW	5,89	9,00
Heating capacity		kW	25,0	28,0
COP [1]		W/W	4,02	3,93
Current		A	10,20 - 9,65 - 9,30	11,60 - 11,10 - 10,70
Input power		kW	6,22	7,13
Starting current		A	1,00	1,00
Maximum current		A	13,70	19,60
Maximum input power		kW	9,16	13,10
Maximum number of connectable indoor units [2]			15	15
External static pressure		Pa	0 ~ 35	0 ~ 35
Air flow		m^3/min	150	160
Sound pressure	Cool	dB(A)	60	63
	Cool (Silent 1 / 2 / 3)	dB(A)	57 / 55 / 53	60 / 58 / 56
	Heat	dB(A)	64	65
Sound power	Cool / Heat	dB(A)	81 / 85	84 / 86
Dimension	H x W x D	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	132	133
Piping diameter	Liquid	Inch (mm)	3/8 (9,52) [3] / 1/2 (12,70) [4]	3/8 (9,52) [3] / 1/2 (12,70) [4]
	Gas	Inch (mm)	3/4 (19,05) [3] / 7/8 (22,22) [4]	7/8 (22,22) [3] / 1 (25,40) [4]
Maximum piping length (total)		m	7,5 ~ 150 (7,5 ~ 300)	7,5 ~ 150 (7,5 ~ 300)
Elevation difference (in / out)		m	50 (OU above) / 40 (OU below)	50 (OU above) / 40 (OU below)
Refrigerant (R410A) / CO_2 Eq.		kg / T	6,30 (24,00) / 13,1544	6,60 (24,00) / 13,7808
Maximum allowable indoor / outdoor capacity ratio		%	50 ~ 130	50 ~ 130
Operating range	Cool Min ~ Max	°C	-10 ~ +46	-10 ~ +46
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18

ErP data [5]		
SEER [6]	**6,27**	**6,37**
$\eta_{s,c}$	**247,9%**	**251,8%**
SCOP [6]	**4,24**	**4,31**
$\eta_{s,h}$	**166,4%**	**169,5%**

1) EER and COP calculation is based in accordance to EN 14511. 2) If the heating utilized, it is necessary to increase 1 size with respect to the main liquid pipe, depending on the combination of the indoor unit. 3) Under 90 m for ultimate indoor unit. 4) Over 90 m for ultimate indoor unit. If the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas and liquid pipes. 5) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for F2 type variable static pressure hide-away indoor units. 6) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Increase external static pressure

When unit is installed on a narrow balcony, any barrier in front will be an obstacle. High external static pressure will overcome this obstacle and maintain operating capacity.

High ambient temperature performance

Cooling operation range up to 46 °C. The system can maintain the rated (100%) capacity up to 40 °C by 8 HP model and up to 37 °C by 10 HP model.

Technical focus

· Connection of up to 15 indoor units
· Quiet operation mode (one of the lowest in the market)
· High ambient temp performance
· High static pressure 35 Pa

INVERTER+ | R2 ROTARY COMPRESSOR | BLUEFIN | -10 °C COOLING MODE | -20 °C HEATING MODE | AUTOMATIC RESTART | R22 R410A R22 RENEWAL | COMMERCIAL SMART EDGE | OPTIONAL WI-FI | 5 YEARS COMPRESSOR WARRANTY

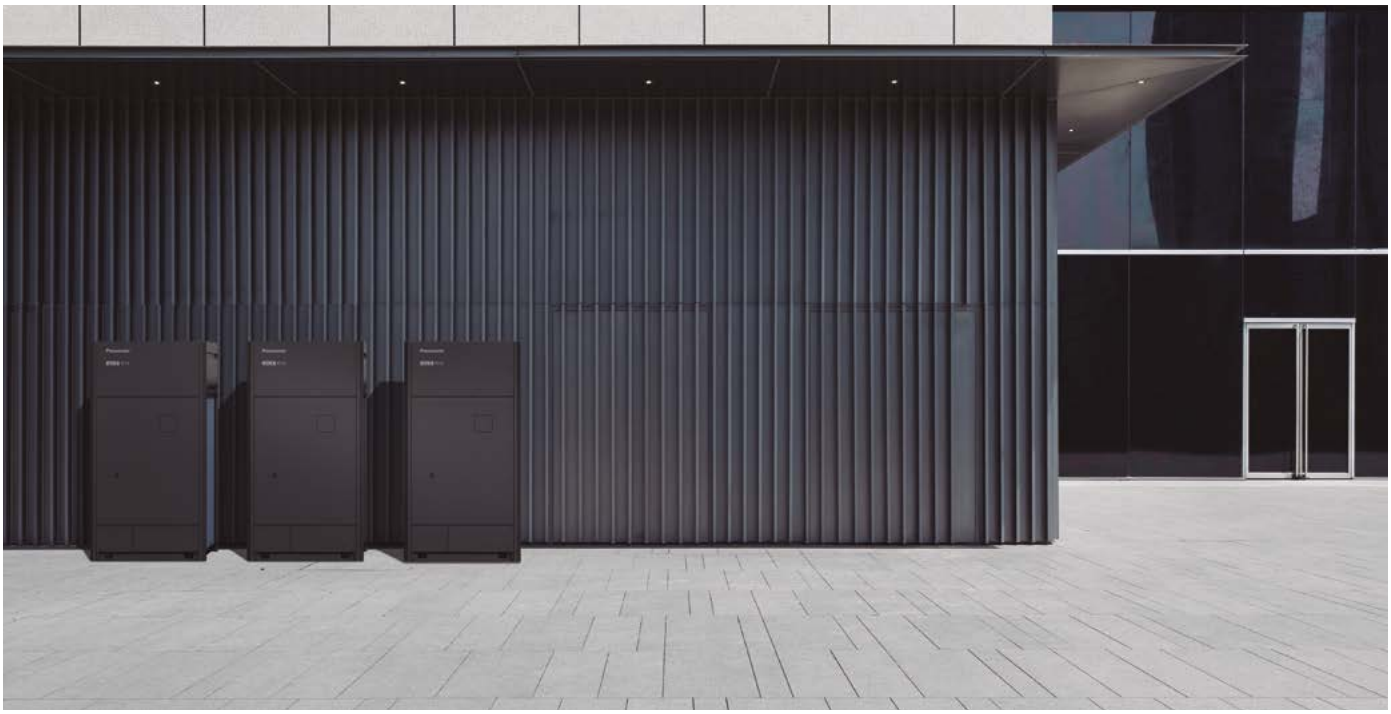
EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

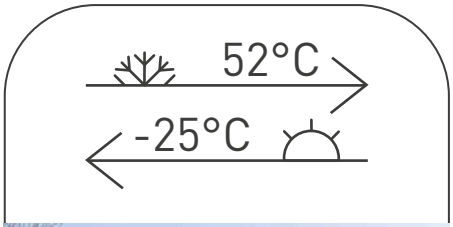
INTERNET CONTROL: Optional.

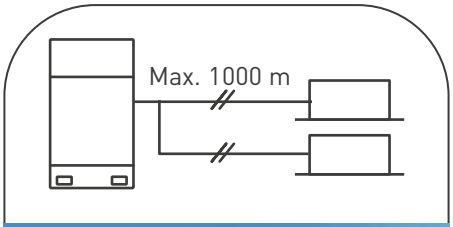
Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

ECOi EX range

ECOi EX range system delivering energy saving performance, powerful operation, reliability and comfort surpassing anything previously possible. Taking quality to the extreme — that's the Panasonic challenge.







High performance at extreme conditions.
ECOi EX delivers reliable cooling up to 52 °C and heating down to –25 °C, ensuring strong performance even in extreme conditions. Bluefin-coated heat exchangers enhance efficiency in marine environments, while a silicone-coated PCB protects against moisture and dust*.

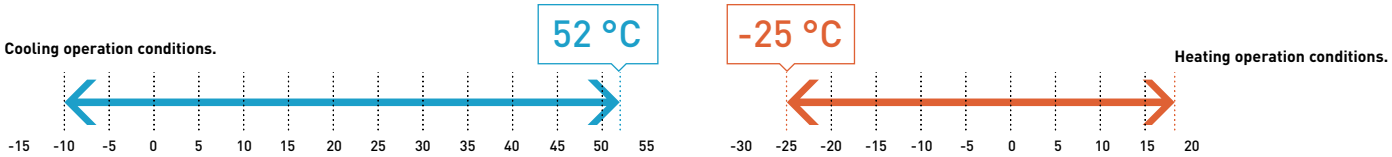
Outstanding efficiency and comfort.
- High SEER and efficient part-load performance
- All-inverter compressors with independent control for lower energy use
- Triple-surface heat exchanger + curved bell-mouth for improved efficiency
- Three-stage oil-recovery system reduces forced oil recovery and energy costs

Superior flexibility.
- Up to 1000 m piping length*
- 100 m maximum outdoor-to-indoor distance
- Wide indoor unit range for perfect project adaptation
- 30 m maximum indoor-to-indoor height difference
- Indoor/outdoor connected capacity ratio up to 200%
- Optimized with Pump Down, AHU and hydronic modules.

*Conditions of 2-Pipe ECOi EX ME2 and MZ1 Series.

Trusted reliability even under high and low temperature conditions.

Designed to be durable enough to withstand extreme heat, 2-Pipe ECOi EX Series ensures reliable cooling operation over an extended operating range up to 52 °C, and heating operation also at -25 °C.



Cooling: Outside air temperature °C (DB). Heating: Outside air temperature °C (WB).

Maximum allowable connected indoor / outdoor capacity ratio up to 200%*

ECOi EX attain maximum indoor unit connection capacity of up to 130% of the unit's connection range. This limit can be surpassed and reach up to 200% if some conditions are satisfied. With this feature, ECOi EX provides an ideal air conditioning solution for locations where full cooling / heating are not always required in all spaces at same time.

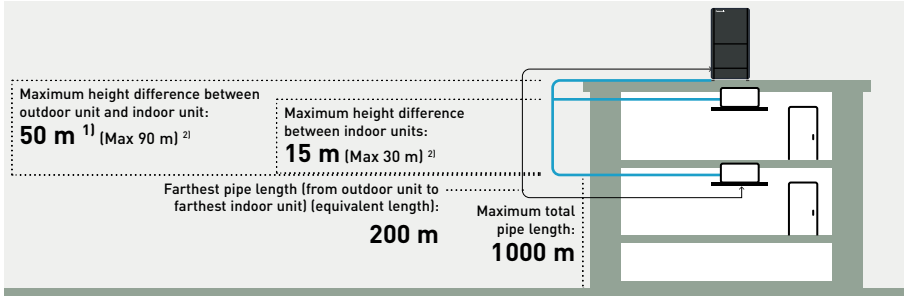
System (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
Connectable indoor units: 130%	13	16	19	23	26	29	33	36	40	43	46	50	53	56	59	64																					
Connectable indoor units: 200%	20	25	30	35	40	45	50	55	60	64																											

Note: If more than 100% indoor units are operated with a high load, the units may not perform at the rated capacity. For the details, please consult with an authorised Panasonic dealer. *If the following conditions are satisfied, the effective range is above 130% up to 200%. Obey the limited number of connectable indoor units. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). Simultaneous operation is limited to less than 130% of connectable indoor units. 1,5 kW capacity of Indoor Units are included. System range availability depends on the series.

Increased piping lengths and design flexibility

Adaptable to various building types and sizes. Actual piping length: 200 m. Maximum piping length: 1000 m.

1) 40 m if the outdoor unit is below the indoor unit.
2) For height differences between outdoor unit and indoor unit > 50 m, as well as for height differences between indoor units > 15 m, contact an authorized Panasonic dealer.

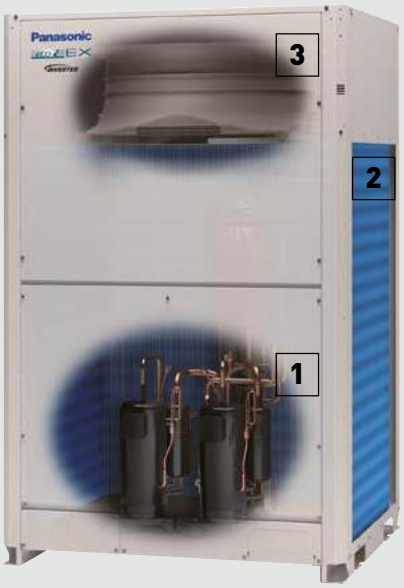


Superior quality, reliability and durability

High-quality components are selected to deliver exceptional energy savings and ensure long-lasting performance.

Invest in quality. Prioritise safety. Choose ECOi EX Series.

R32 MZ1 Series



R410A ME2/MF3 Series

1

High-efficiency refrigerant circuit.

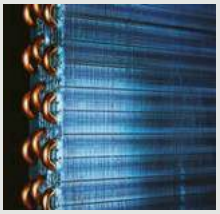
Panasonic Inverter-driven compressor.
Inverter-driven compressor equipped, to optimise high-efficiency operation year-round.
· MZ1 Series: Inverter-driven scroll compressor
· ME2/MF3 Series: Inverter-driven rotary compressor

Accumulator.
Oil returning circuit with control valve makes efficient oil recovery to compressors.

Oil separator.
Modified tank design makes efficient oil separation with less pressure drop.

Receiver tank-less design.
Improved refrigerant control program recovers the remaining refrigerant gas in the system back to the accumulator tank effectively.

2



Enlarged heat exchanger surface area with triple rows.
The unit has become more compact while maintaining high equivalent efficiency, thanks to the enlarged heat exchanger surface area with triple rows*.

*Subject to model specifications.

Anti-corrosion Bluefin treatment.
High corrosion resistance to rust and salty air for lasting performance.

3

Smooth exhaust flow by bell-mouth.
Specially designed curved air discharge bell-mouth for better aerodynamics.

4

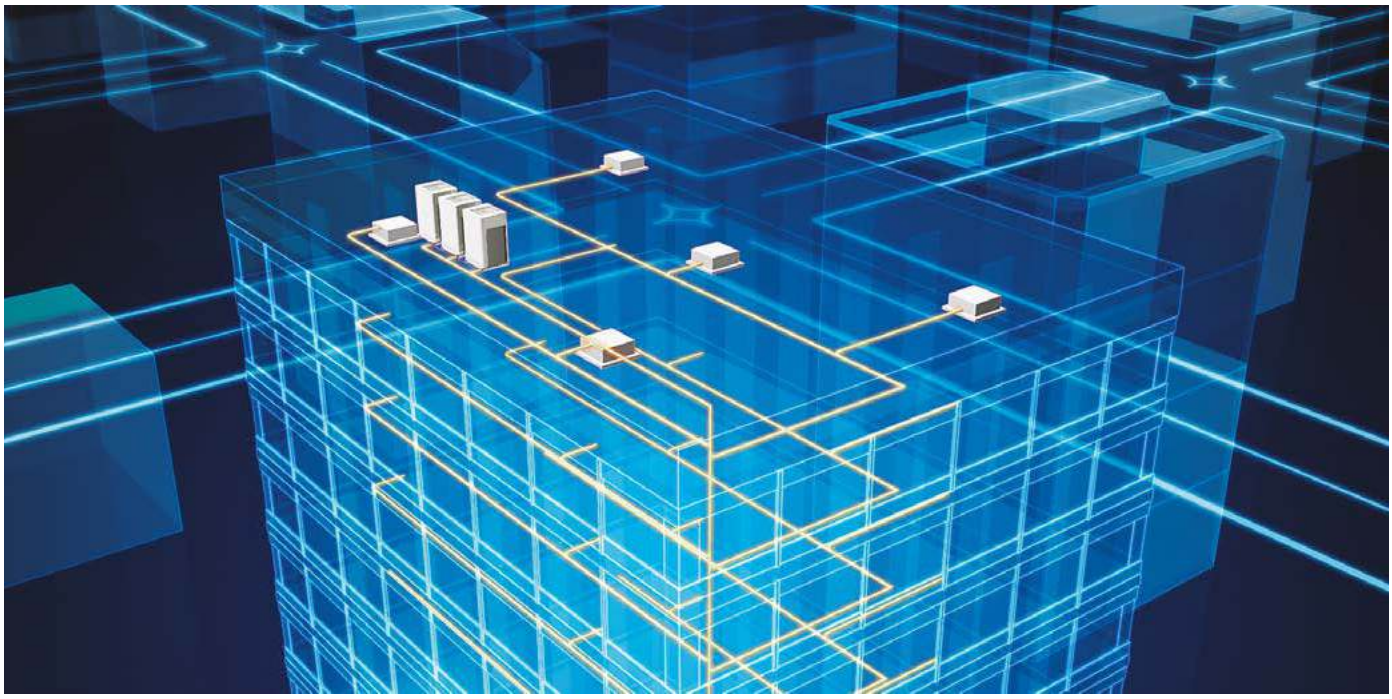
Grey panel colour.
The grey panel colour of the outdoor unit allows it to blend in and be installed discreetly on a wide variety of installations.

5

7-segment display.
7-segment display for ease of user installation, commissioning, service and maintenance.

Oil recovery intelligent control

Oil recovery intelligent control advantages: higher efficiency, durability and comfort (continuous operation, low noise and low vibration).



Intelligent 3-stage oil management system

In a VRF system, where lengthy piping and a large number of indoor units need to be controlled collectively, the key to maintaining the system's reliability is to ensure an appropriate amount of oil is secured in the compressors. In order to avoid oil shortage in the compressor, maximum operation is normally forcibly conducted at regular intervals to recover oil from indoor units. This method, typically employed in a standard VRF, causes the system to overheat or overcool and thus waste energy.
In Panasonic VRF systems, a sensor for detecting oil levels is mounted in each compressor. In installations with multiple outdoor units, a shortage of oil in one compressor can be compensated for by recovering oil either from another compressor in the same unit, from a compressor in an adjacent outdoor unit, or from connected indoor units. Panasonic VRF systems provide users with a comfortable environment whilst saving energy.

The Panasonic system efficiently manages oil recovery in three stages; minimising the frequency of forced oil recovery while reducing energy cost and maintaining comfort.

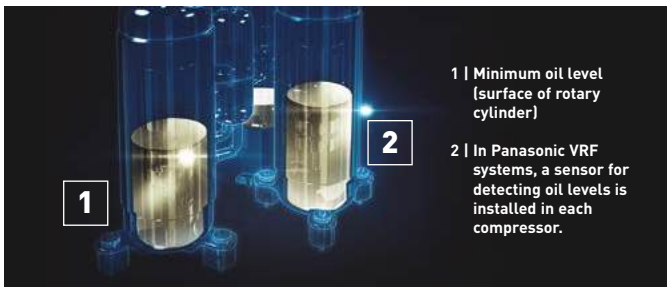
STAGE-1: Panasonic compressors are equipped with sensors which monitor oil levels precisely at all times. If oil levels fall, oil can be transferred from other compressors within the same outdoor unit*.
STAGE-2: If oil levels in all compressors within the outdoor unit fall, oil can be replenished from adjacent outdoor units.
STAGE-3: Forced oil recovery is implemented only if oil levels become insufficient in spite of above measures. The Panasonic system's design concept is radically different from conventional oil systems.

*Applicable to ECOi EX outdoor units over 14 HP (2-compressor models).

Features of oil recovery design

Oil sensors installed in each compressor*.
Oil sensors installed in each Panasonic compressor precisely monitor oil levels, eliminating unnecessary oil recovery.

*Applicable to ECOi EX outdoor units over 14 HP (2-compressor models).



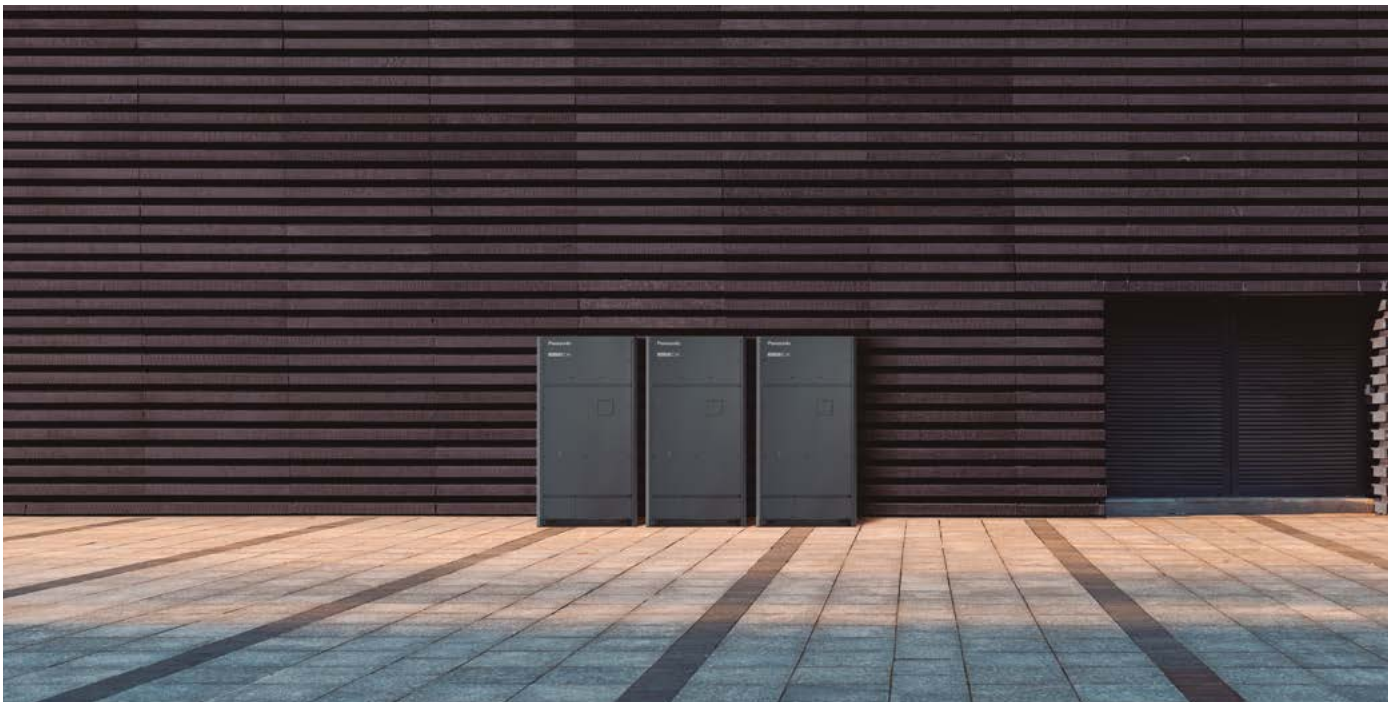
Highly functional oil separator.
Thanks to extended separate piping, oil recovery efficiency reaches 90%, minimising the oil discharged from the compressor.

ECOi EX range R32

Extreme efficiency, quality, compact.

The ECOi EX Series with R32 refrigerant has been expanded to minimise the environmental impact of VRF Systems for the decarbonised buildings.

WATCH VIDEO



Advanced R32 technology and optimised design make it a more sustainable alternative to R410A.

With lower GWP and superior efficiency, it ensures sustainability throughout its lifetime.

R32 REFRIGERANT

	2-Pipe ECOi EX MZ1 Series	3-Pipe ECOi EX MF4 Series
Capacity range	8 HP – 48 HP	8 HP – 36 HP
High seasonal efficiency ($\eta_{s,c}$ / $\eta_{s,h}$)	310,1% – 172,4% [1]	308,3% – 171,0% [2]
Extended operation range	-25 °C in heating to +52 °C in cooling	-20 °C in heating to +52 °C in cooling
Flexible piping installation	1000 m	500 m

1) U-10MZ1E8. 2) U-10MF4E8.

- RELIABLE QUALITY - R32 STANDARD-COMPLIANT [1]
- R32 MORE SUSTAINABLE SOLUTION [2]
- SAVING INSTALLATION SPACE
- SILENT MODE, MAINTAINING HIGH CAPACITY

1) Panasonic's R32 safety measures comply with IEC 60335-2-40 (ed. 7.0) and EN 378 (ISO 5149). 2) Compared to R410A systems.

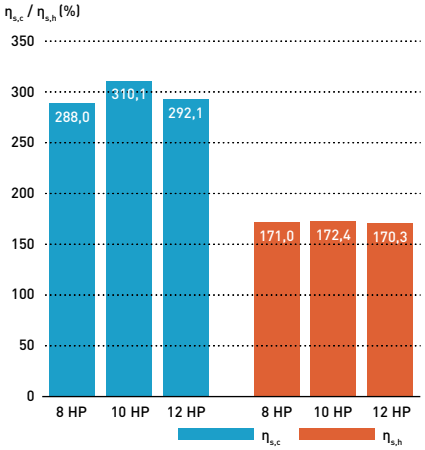
ECOi EX range R32.

Enjoy greater installation flexibility and cost savings.

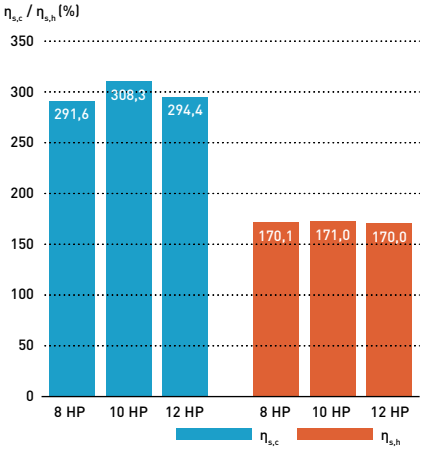
High-efficiency in a compact outdoor unit

Significantly reduced volume and a lightweight chassis help reduce design and installation work.

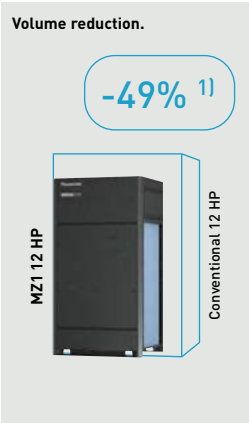
MZ1 Series seasonal efficiency.



MF4 Series seasonal efficiency.



Volume reduction.



Compact and light weight.

1) 12 HP model compared to the equivalent conventional R410A ECOi EX model. 2) 8 and 10 HP models.

R32 safety measures by Panasonic.

Everything necessary for R32 refrigerant safety is prepared by Panasonic.
Panasonic provides safety measure compliant with the latest standards, as required based on R32 refrigerant density under specific project conditions.

The safety measures which comply with EN 378 (ISO 5149) and IEC 60335-2-40 (ed. 7.0).

Leak detector – CZ-CGLSC2.
Leak detector designed for 4 way 90x90 cassettes, 4 way 60x60 cassettes, and wall-mounted units.

Leak alarm – CZ-CGLALC1.
R32 refrigerant leak alarm designed for adaptive duct, slim duct, floor standing and concealed floor standing.

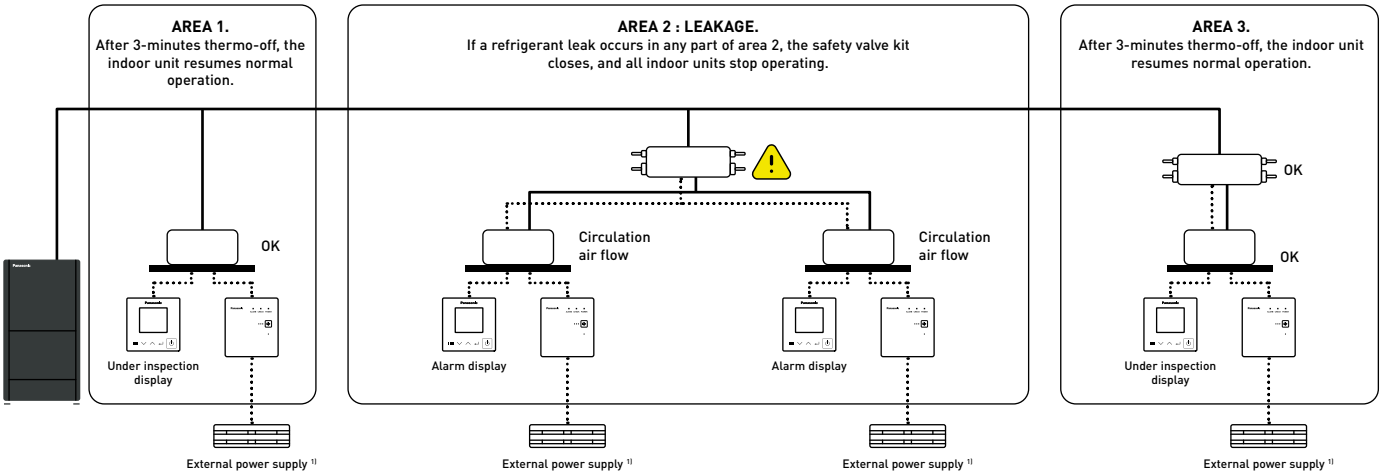
External power supply – PAW-16DC-ALC1.
External 16 V power supply (EN 378 compliant), including a leak alarm for remote locations. The leak alarm can be deactivated.

2-pipe safety valve kit – CZ-P1160SVK.
The safety valve manages the shutdown of only the area / zone experiencing a refrigerant leak, instead of shutting down the whole 2-pipe ECOi EX system.

3-pipe heat recovery box with safety valve kit – CZ-P1160SVHR.
Single-port heat recovery box for the 3-pipe ECOi EX system. The safety valve manages the shutdown of only the area / zone experiencing a refrigerant leak, instead of shutting down the whole system.

3-pipe heat recovery box – CZ-P1160HR4.
Standard single-port heat recovery box for the 3-pipe ECOi EX system.

Example of how R32 safety measures work in an HVAC system.



*A maximum of 1 leak detector can be connected per indoor unit or group. If a leak detector is connected, only 1 wired remote controller is allowed (no sub-controller). Up to 8 units, including indoor units and a safety valve, can be connected. 1) In accordance with EN 378-3, alarm systems such as external leak detectors and safety alarms require a power source independent of the air conditioning system they are protecting. In addition, they must have a backup power source and be able to alert a monitored location. For further information, please contact an authorised Panasonic dealer.

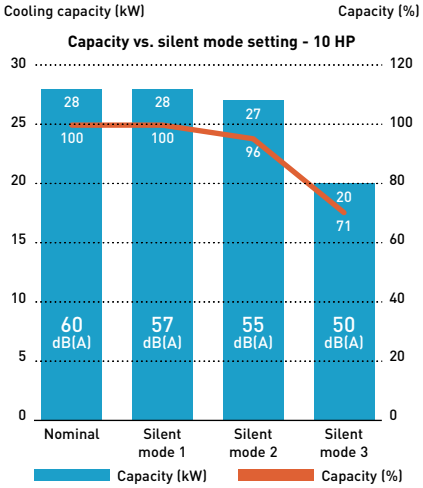
2-Pipe ECOi EX MZ1 Series R32

Core features.

Maximum comfort with silent operation mode

Thanks to the optimised bell mouth design, sound pressure can be reduced to as low as 54 dB(A)* in silent mode while maintaining high cooling capacity.

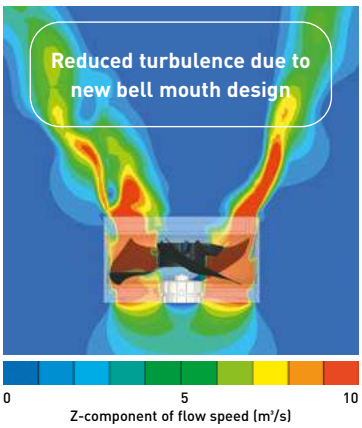
*For model U-8MZ1E8.



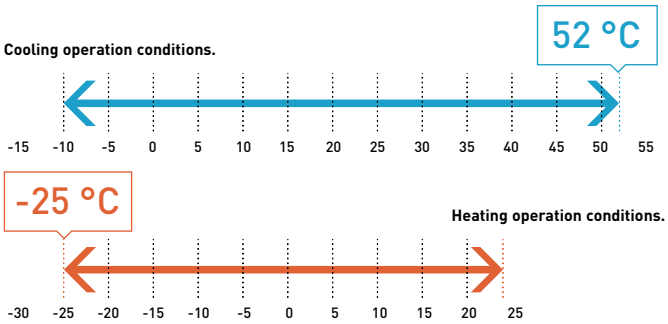
- Silent operation mode reduces outdoor unit noise down to 50 dB(A)
- 3-step set point available
- Silent mode 1 maintains rated 100% cooling capacity

Noise (SPL)	8 HP	10 HP	12 HP
Nominal	57 dB(A)	60 dB(A)	64 dB(A)
Silent mode 1	54 dB(A)	57 dB(A)	61 dB(A)
Silent mode 2	52 dB(A)	55 dB(A)	59 dB(A)
Silent mode 3	50 dB(A)	50 dB(A)	50 dB(A)

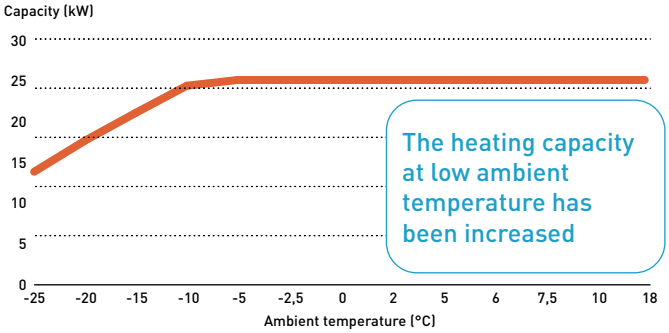
Improved bell mouth design.



Wide operating limits



Cooling: Outside air temperature °C (DB). Heating: Outside air temperature °C (WB).

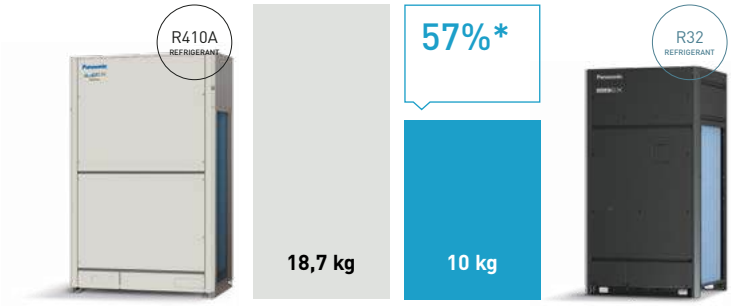


*Maximum capacity unaffected by defrost operation.

Reduced refrigerant charge, lowering the requirements for additional safety measures and piping material choice

The new MZ1 Series uses only 57%* of the R32 refrigerant compared to the R410A equivalent system and supports imperial or metric piping installation.

*Panasonic's internal research. 12 HP model with 30 m piping installation.

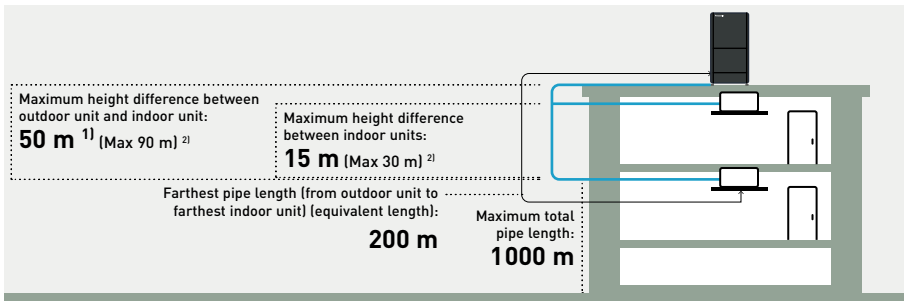


*Panasonic's internal research. 12 HP model with 30 m piping installation.

Increased piping lengths and design flexibility

Adaptable to various building types and sizes. Actual piping length: 200 m. Maximum piping length: 1000 m.

1) 40 m if the outdoor unit is below the indoor unit.
2) For height differences between outdoor unit and indoor unit > 50 m, as well as for height differences between indoor units > 15 m, contact an authorized Panasonic dealer.



2-Pipe ECOi EX MZ1 Series · R32

Extreme efficiency, quality, compact.
With advanced R32 refrigerant technology and optimised system design.
Wide operation range from -25 °C in heating to +52 °C in cooling.

HP			8 HP	10 HP	12 HP
Outdoor unit			**U-8MZ1E8**	**U-10MZ1E8**	**U-12MZ1E8**
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Cooling capacity		kW	22,4	28,0	33,5
EER [1]		W/W	3,30	3,50	3,00
Current		A	11,70 - 11,10 - 10,70	13,50 - 12,80 - 12,40	18,30 - 17,40 - 16,80
Input power		kW	6,78	8,00	11,1
Heating capacity		kW	25,0	31,5	37,5
COP [1]		W/W	4,50	4,30	4,00
Current		A	9,81 - 9,32 - 8,98	12,50 - 11,90 - 11,50	15,70 - 14,90 - 14,40
Input power		kW	5,55	7,32	9,37
Starting current		A	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80
Air flow		m³/min	209	209	209
Sound pressure	Normal mode (Cool / Heat)	dB(A)	57/57	60/60	64/67
	Silent mode 1 / 2 / 3 (Cool)	dB(A)	54/52/50	57/55/50	61/59/50
Sound power	Normal mode (Cool / Heat)	dB(A)	75/75	77/77	81/84
Dimension	H x W x D	mm	1660 x 880 x 765	1660 x 880 x 765	1660 x 880 x 765
Net weight		kg	203	203	206
Piping diameter [2]	Liquid	Inch (mm)	3/8 (9,52) / 1/2 (12,70)	3/8 (9,52) / 1/2 (12,70)	3/8 (9,52) / 1/2 (12,70)
	Gas	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1-1/8 (28,58)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R32) / CO_2 Eq		kg/T	6,30/4,25	6,40/4,32	8,50/5,74
Maximum allowable indoor / outdoor capacity ratio [3]		%	50 ~ 200 (130)	50 ~ 200 (130)	50 ~ 200 (130)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24

ErP data [4]			
SEER [5]	**7,27**	**7,82**	**7,37**
$\eta_{s,c}$	**288,0%**	**310,1%**	**292,1%**
SCOP [5]	**4,35**	**4,38**	**4,33**
$\eta_{s,h}$	**171,0%**	**172,4%**	**170,3%**

1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 100 m for ultimate indoor unit / over 100 m for ultimate indoor unit (if the longest piping equivalent length exceeds 100 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units. 4) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for U2 type 4 way 90x90 cassette indoor units. 5) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Technical focus

- 8-10 HP available in single systems, with scalability up to 48 HP in multi-combination systems
- Optional R32 refrigerant safety measures available
- Compact outdoor unit with up to 43% [1] smaller footprint and 49% reduced volume
- Full heating capacity maintained down to -5 °C ambient temperature
- Uses only 57% [2] of the R32 refrigerant charge required by an equivalent R410A system, reducing the need for additional safety measures
- Bluefin-coated heat exchanger as standard
- Extensive R32 product range, with all air to air indoor units equipped with nanoe™ X
- Broad solution compatibility, including Energy Recovery Ventilation (ERV) and Air Handling Unit (AHU) connection kits
- Wide range of connectivity options, including BMS integration for seamless system control and monitoring

1) 12 HP model compared to the equivalent conventional R410A ECOi EX ME2.
2) Panasonic's internal research. 12 HP model with 30 m piping installation.

R32 REFRIGERANT | INVERTER+ | ALL INVERTER COMPRESSORS | -25 °C HEATING MODE | 52 °C COOLING MODE | BLUEFIN | PS COMMERCIAL SMART EDGE | 5 YEARS COMPRESSOR WARRANTY

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

2-Pipe ECOi EX MZ1 Series combination from 16 to 48 HP · R32

HP			16 HP	18 HP	20 HP	20 HP	22 HP	24 HP	24 HP	26 HP
Outdoor unit			U-8MZ1E8 U-8MZ1E8	U-8MZ1E8 U-10MZ1E8	U-8MZ1E8 U-12MZ1E8	U-10MZ1E8 U-10MZ1E8	U-10MZ1E8 U-12MZ1E8	U-12MZ1E8 U-12MZ1E8	U-8MZ1E8 U-8MZ1E8 U-8MZ1E8	U-8MZ1E8 U-8MZ1E8 U-10MZ1E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	44,8	50,4	55,9	56,0	61,5	67,0	67,2	72,8
EER [1]		W/W	3,20	3,40	3,10	3,50	3,20	3,00	3,20	3,30
SEER [2] / $\eta_{s,c}$			**7,24 / 286,8%**	**7,56 / 299,6%**	**7,29 / 288,9%**	**7,82 / 310,1%**	**7,55 / 299,1%**	**7,33 / 290,2%**	**7,24 / 286,8%**	**7,46 / 295,6%**
Current		A	23,40-22,20-21,40	25,20-23,90-23,10	30,00-28,50-27,50	27,00-25,60-24,80	31,80-30,20-29,20	36,60-34,80-33,60	35,10-33,30-32,10	36,90-35,00-33,80
Input power		kW	13,6	14,8	17,9	16,0	19,1	22,2	20,4	21,6
Heating capacity		kW	50,0	56,5	62,5	63,0	69,0	75,0	75,0	81,5
COP [1]		W/W	4,50	4,30	4,10	4,20	4,10	3,90	4,40	4,40
SCOP [2] / $\eta_{s,h}$			**4,32 / 169,8%**	**4,33 / 170,3%**	**4,29 / 168,8%**	**4,38 / 172,2%**	**4,34 / 170,7%**	**4,33 / 170,2%**	**4,32 / 169,8%**	**4,31 / 169,5%**
Current		A	19,62-18,64-17,96	22,31-21,22-20,48	25,51-24,22-23,38	25,00-23,80-23,00	28,20-26,80-25,50	31,40-29,80-28,80	29,43-27,96-26,94	32,12-30,54-29,46
Input power		kW	11,1	12,9	15,0	14,7	16,7	18,8	16,7	18,5
Starting current		A	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m³/min	418	418	418	418	418	418	627	627
Sound pressure	Normal mode (Cool / Heat)	dB(A)	60,0 / 60,0	62,0 / 62,0	65,0 / 67,5	63,0 / 63,0	65,5 / 68,0	67,0 / 70,0	62,0 / 62,0	63,0 / 63,0
	Silent mode 1 / 2 (Cool)	dB(A)	57,0 / 55,0	59,0 / 57,0	62,0 / 60,0	60,0 / 58,0	62,5 / 60,5	64,0 / 62,0	59,0 / 57,0	60,0 / 58,0
Sound power	Normal mode (Cool / Heat)	dB(A)	78,0 / 78,0	79,5 / 79,5	82,0 / 84,5	80,0 / 80,0	82,5 / 85,0	84,0 / 87,0	80,0 / 80,0	80,5 / 80,5
Dimension	H x W x D	mm	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765
Net weight		kg	406	406	409	406	409	412	609	609
Piping diameter [3]	Liquid	Inch (mm)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)
	Gas	Inch (mm)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R32) / CO_2 Eq.		kg / T	12,6 / 8,51	12,7 / 8,57	14,8 / 9,99	12,8 / 8,64	14,9 / 10,06	17,0 / 11,48	18,9 / 12,76	19,0 / 12,83
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24

HP			28 HP	28 HP	30 HP	30 HP	32 HP	32 HP	32 HP	34 HP
Outdoor unit			U-8MZ1E8 U-8MZ1E8 U-12MZ1E8	U-8MZ1E8 U-10MZ1E8 U-10MZ1E8	U-8MZ1E8 U-10MZ1E8 U-12MZ1E8	U-10MZ1E8 U-10MZ1E8 U-10MZ1E8	U-8MZ1E8 U-12MZ1E8 U-12MZ1E8	U-10MZ1E8 U-10MZ1E8 U-12MZ1E8	U-8MZ1E8 U-8MZ1E8 U-8MZ1E8 U-8MZ1E8	U-10MZ1E8 U-12MZ1E8 U-12MZ1E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	78,3	78,4	83,9	84,0	89,4	89,5	89,6	95,0
EER [1]		W/W	3,10	3,40	3,20	3,50	3,00	3,30	3,20	3,10
SEER [2] / $\eta_{s,c}$			**7,23 / 286,3%**	**7,61 / 301,5%**	**7,45 / 295,1%**	**7,82 / 310,1%**	**7,26 / 287,4%**	**7,63 / 302,4%**	**7,24 / 286,8%**	**7,37 / 291,8%**
Current		A	41,70-39,60-38,20	38,70-36,70-35,50	43,50-41,30-39,90	40,50-38,40-37,20	48,30-45,90-44,30	45,30-43,00-41,60	46,80-44,40-42,80	50,10-47,60-46,00
Input power		kW	24,7	22,8	25,9	24,0	29,0	27,1	27,2	30,2
Heating capacity		kW	87,5	88,0	94,0	94,5	100,0	100,0	100,0	106,0
COP [1]		W/W	4,20	4,30	4,20	4,20	4,10	4,10	4,50	4,00
SCOP [2] / $\eta_{s,h}$			**4,34 / 170,9%**	**4,35 / 171,2%**	**4,33 / 170,4%**	**4,38 / 172,4%**	**4,31 / 169,6%**	**4,38 / 172,2%**	**4,32 / 169,8%**	**4,29 / 168,7%**
Current		A	35,32-33,54-32,36	34,81-33,12-31,98	38,01-36,12-34,88	37,50-35,70-34,50	41,21-39,12-37,78	40,70-38,70-37,40	39,24-37,28-35,92	43,90-41,70-40,30
Input power		kW	20,5	20,2	22,3	22,0	24,3	24,1	22,2	26,1
Starting current		A	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m³/min	627	627	627	627	627	627	836	627
Sound pressure	Normal mode (Cool / Heat)	dB(A)	65,5 / 68,0	64,0 / 64,0	66,0 / 68,5	65,0 / 65,0	67,5 / 70,5	66,5 / 68,5	63,0 / 63,0	68,0 / 70,5
	Silent mode 1 / 2 (Cool)	dB(A)	62,5 / 60,5	61,0 / 59,0	63,0 / 61,0	62,0 / 60,0	64,5 / 62,5	63,5 / 61,5	60,0 / 58,0	65,0 / 63,0
Sound power	Normal mode (Cool / Heat)	dB(A)	83,0 / 85,0	81,5 / 81,5	83,5 / 85,5	82,0 / 82,0	84,5 / 87,5	83,5 / 85,5	81,0 / 81,0	85,0 / 87,5
Dimension	H x W x D	mm	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 3520 (+180) x 765	1660 x 2640 (+120) x 765
Net weight		kg	612	609	612	609	615	612	812	615
Piping diameter [3]	Liquid	Inch (mm)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)
	Gas	Inch (mm)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R32) / CO_2 Eq.		kg / T	21,1 / 14,24	19,1 / 12,89	21,2 / 14,31	19,2 / 12,96	23,3 / 15,73	21,3 / 14,38	25,2 / 17,01	23,4 / 15,80
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Piping diameter under 100 m for ultimate indoor unit / over 100 m for ultimate indoor unit (if the longest piping equivalent length exceeds 100 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

HP			34 HP	36 HP	36 HP	36 HP	38 HP	38 HP	40 HP	40 HP
Outdoor unit			U-8MZ1E8	U-12MZ1E8	U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-10MZ1E8
			U-8MZ1E8	U-12MZ1E8	U-8MZ1E8	U-8MZ1E8	U-8MZ1E8	U-10MZ1E8	U-8MZ1E8	U-10MZ1E8
			U-8MZ1E8	U-12MZ1E8	U-10MZ1E8	U-8MZ1E8	U-10MZ1E8	U-10MZ1E8	U-12MZ1E8	U-10MZ1E8
			U-10MZ1E8		U-10MZ1E8	U-12MZ1E8	U-12MZ1E8	U-10MZ1E8	U-12MZ1E8	U-10MZ1E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	95,2	100,0	100,0	100,0	106,0	106,0	111,0	112,0
EER [1]		W/W	3,30	3,00	3,30	3,10	3,20	3,40	3,10	3,50
SEER [2] / $\eta_{s,c}$			**7,37 / 291,8%**	**7,37 / 292,0%**	**7,53 / 298,2%**	**7,25 / 287,0%**	**7,36 / 291,7%**	**7,66 / 303,4%**	**7,30 / 289,0%**	**7,82 / 310,1%**
Current		A	48,60-46,10-44,50	54,90-52,20-50,40	50,40-47,80-46,20	53,40-50,70-48,90	55,20-52,40-50,60	52,20-49,50-47,90	60,00-57,00-55,00	54,00-51,20-49,60
Input power		kW	28,4	33,3	29,6	31,5	32,7	30,8	35,8	32,0
Heating capacity		kW	106,0	112,0	113,0	112,0	119,0	119,0	125,0	126,0
COP [1]		W/W	4,40	3,90	4,30	4,20	4,20	4,30	4,10	4,30
SCOP [2] / $\eta_{s,h}$			**4,29 / 168,7%**	**4,33 / 170,3%**	**4,33 / 170,3%**	**4,32 / 170,1%**	**4,31 / 169,6%**	**4,36 / 171,4%**	**4,29 / 168,8%**	**4,38 / 172,2%**
Current		A	41,93-39,86-38,44	47,10-44,70-43,20	44,62-42,44-40,96	45,13-42,86-41,34	47,82-45,44-43,86	47,31-45,02-43,48	51,02-48,44-46,76	50,00-47,60-46,00
Input power		kW	24,0	28,2	25,8	26,1	27,8	27,6	29,9	29,3
Starting current		A	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m^3/min	836	627	836	836	836	836	836	836
Sound pressure	Normal mode (Cool / Heat)	dB(A)	64,0 / 64,0	69,0 / 72,0	65,0 / 65,0	66,0 / 68,5	66,5 / 68,5	65,5 / 65,5	68,0 / 70,5	66,0 / 66,0
	Silent mode 1 / 2 (Cool)	dB(A)	61,0 / 59,0	66,0 / 64,0	62,0 / 60,0	63,0 / 61,0	63,5 / 61,5	62,5 / 60,5	65,0 / 63,0	63,0 / 61,0
Sound power	Normal mode (Cool / Heat)	dB(A)	82,0 / 82,0	86,0 / 89,0	82,5 / 82,5	83,5 / 85,5	84,0 / 86,0	83,0 / 83,0	85,0 / 87,5	83,0 / 83,0
Dimension	H x W x D	mm	1660 x 3520 (+180) x 765	1660 x 2640 (+120) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765
Net weight		kg	812	618	812	815	815	812	818	812
Piping diameter [3]	Liquid	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)
	Gas	Inch (mm)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R32) / CO_2 Eq.		kg / T	25,3 / 17,08	25,5 / 17,21	25,4 / 17,15	27,4 / 18,50	27,5 / 18,56	25,5 / 17,21	29,6 / 19,98	25,6 / 17,28
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24

HP			40 HP	42 HP	42 HP	44 HP	44 HP	46 HP	48 HP
Outdoor unit			U-8MZ1E8	U-8MZ1E8	U-10MZ1E8	U-8MZ1E8	U-10MZ1E8	U-10MZ1E8	U-12MZ1E8
			U-10MZ1E8	U-10MZ1E8	U-10MZ1E8	U-12MZ1E8	U-10MZ1E8	U-12MZ1E8	U-12MZ1E8
			U-10MZ1E8	U-12MZ1E8	U-10MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8
			U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8	U-12MZ1E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	111,0	117,0	117,0	122,0	123,0	128,0	134,0
EER [1]		W/W	3,20	3,10	3,30	3,00	3,20	3,00	3,00
SEER [2] / $\eta_{s,c}$			**7,53 / 298,2%**	**7,43 / 294,4%**	**7,65 / 303,2%**	**7,28 / 288,5%**	**7,56 / 299,4%**	**7,41 / 293,7%**	**7,37 / 292,1%**
Current		A	57,00-54,10-52,30	61,80-58,70-56,70	58,80-55,80-54,00	66,60-63,30-61,10	63,60-60,40-58,40	68,40-65,00-62,80	73,20-69,60-67,20
Input power		kW	33,9	37,0	35,1	40,1	38,2	41,3	44,4
Heating capacity		kW	125,0	131,0	132,0	137,0	138,0	144,0	150,0
COP [1]		W/W	4,20	4,10	4,20	4,00	4,10	4,00	4,00
SCOP [2] / $\eta_{s,h}$			**4,34 / 170,6%**	**4,35 / 171,0%**	**4,36 / 171,6%**	**4,33 / 170,3%**	**4,34 / 170,7%**	**4,35 / 171,2%**	**4,33 / 170,3%**
Current		A	50,51-48,02-46,38	53,71-51,02-49,28	53,20-50,60-48,90	56,91-54,02-52,18	56,40-53,60-51,80	59,60-56,60-54,70	62,80-59,60-57,60
Input power		kW	29,6	31,7	31,4	33,7	33,4	35,5	37,5
Starting current		A	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80
Air flow		m^3/min	836	836	836	836	836	836	836
Sound pressure	Normal mode (Cool / Heat)	dB(A)	67,0 / 69,0	68,5 / 71,0	67,5 / 69,0	69,0 / 72,0	68,5 / 71,0	69,5 / 72,0	70,0 / 73,0
	Silent mode 1 / 2 (Cool)	dB(A)	64,0 / 62,0	65,5 / 63,5	64,5 / 62,5	66,0 / 64,0	65,5 / 63,5	66,5 / 64,5	67,0 / 65,0
Sound power	Normal mode (Cool / Heat)	dB(A)	84,5 / 86,0	85,5 / 88,0	84,5 / 86,0	86,5 / 89,0	85,5 / 88,0	86,5 / 89,0	87,0 / 90,0
Dimension	H x W x D	mm	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765	1660 x 3520 (+180) x 765
Net weight		kg	815	818	815	821	818	821	824
Piping diameter [3]	Liquid	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)
	Gas	Inch (mm)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R32) / CO_2 Eq.		kg / T	27,6 / 18,63	29,7 / 20,05	27,7 / 18,70	31,8 / 21,47	29,8 / 20,12	31,9 / 21,53	34,0 / 22,95
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Piping diameter under 100 m for ultimate indoor unit / over 100 m for ultimate indoor unit (if the longest piping equivalent length exceeds 100 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

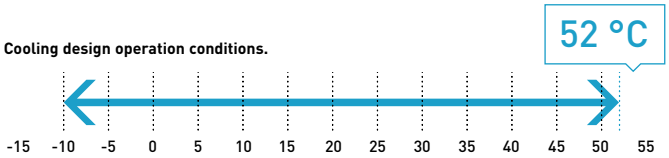
Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

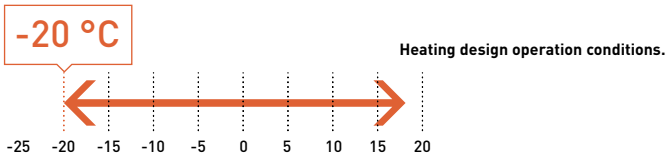
NEW 3-Pipe ECOi EX MF4 Series R32

Simultaneous heating and cooling VRF system.

Core features.

Wide operating limits



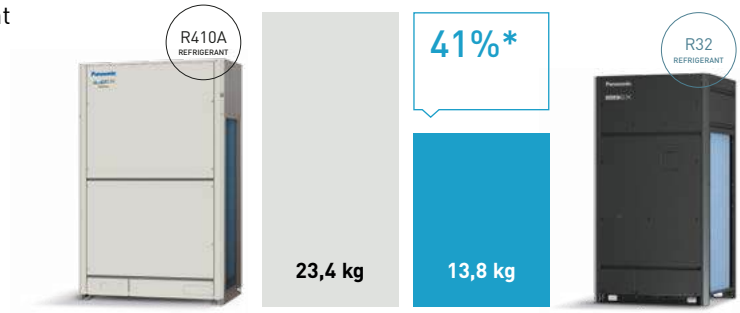


Cooling: Outside air temperature °C (DB). Heating: Outside air temperature °C (WB).

Reduced refrigerant charge, lowering the requirements for additional safety measures and piping material choice

The new MF4 Series uses only 41%* of the R32 refrigerant compared to the R410A equivalent system and supports imperial or metric piping installation.

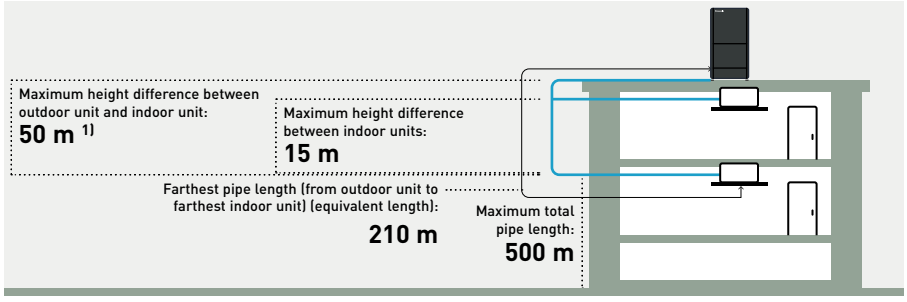
*Panasonic's internal research. 12 HP model with 80 m piping installation.



Increased piping lengths and design flexibility

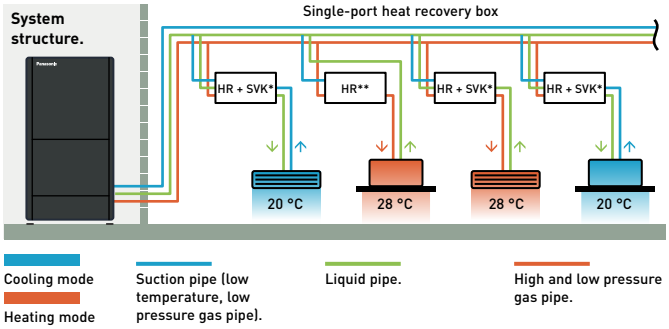
Adaptable to various building types and sizes. Actual piping length: 200 m. Maximum piping length: 500 m.

1) 40 m if the outdoor unit is below the indoor unit.



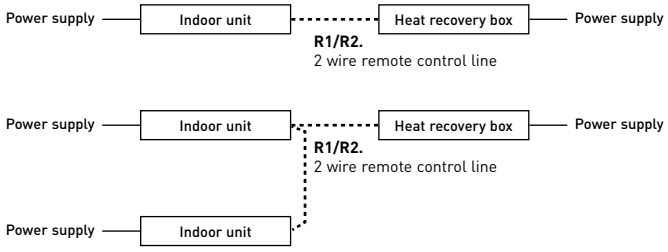
Individual control of multiple indoor units with heat recovery boxes

· Cooling operation is possible with an outdoor temperature of -10 °C.



*Heat recovery box with safety valve kit. **Heat recovery box.

Single-port heat recovery box: Wiring work.



Heat recovery box – Available with or without safety valve kit.

3-pipe heat recovery box with safety valve kit CZ-P1160SVHR.

· Single-port
· Fully compliant with IEC 60335-2-40 Ed.7
· Ideal for areas requiring R32 safety measures
· Suitable for hotel rooms, small offices

3-pipe heat recovery box CZ-P1160HR4.

· Single-port design
· Perfect for large spaces where no additional safety measures are required
· Cost-effective solution

NEW

NEW! 3-Pipe ECOi EX MF4 Series · R32

Extreme efficiency, quality, compact.
Advanced R32 refrigerant technology and optimised system design.
Wide operation range from -20 °C in heating to +52 °C in cooling.

HP			8 HP	10 HP	12 HP
Outdoor unit			**U-8MF4E8**	**U-10MF4E8**	**U-12MF4E8**
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Cooling capacity		kW	22,4	28,0	33,5
EER [1]		W/W	3,4	3,5	3,1
Current		A	11,2 / 10,7 / 10,3	13,4 / 12,7 / 12,2	17,8 / 16,9 / 16,3
Input power		kW	6,43	7,92	10,8
Heating capacity		kW	25,0	31,5	37,5
COP [1]		W/W	4,3	4,2	3,9
Current		A	10,1 / 9,57 / 9,23	12,7 / 12,1 / 11,6	15,9 / 15,1 / 14,6
Input power		kW	5,70	7,49	9,61
Starting current		A	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80
Air flow		m^3/min	196	205	205
Sound pressure	Normal mode (Cool / Heat)	dB(A)	58,0 / 58,0	61,0 / 61,0	64,0 / 67,0
	Silent mode 1 / 2 / 3 (Cool)	dB(A)	55,0 / 53,0 / 50,0	58,0 / 56,0 / 50,0	61,0 / 59,0 / 50,0
Sound power	Normal mode (Cool / Heat)	dB(A)	76,0 / 76,0	78,0 / 78,0	81,0 / 84,0
Dimension	H x W x D	mm	1660 x 880 x 765	1660 x 880 x 765	1660 x 880 x 765
Net weight		kg	217	218	218
Piping diameter [2]	Liquid	Inch (mm)	3/8 (9,52) / 1/2 (12,70)	3/8 (9,52) / 1/2 (12,70)	1/2 (12,70) / 5/8 (15,88)
	Gas	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	3/4 (19,05) / 7/8 (22,22)
	Suction	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1-1/8 (28,58)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R32) / CO_2 Eq		kg / T	8,10 / 5,47	8,80 / 5,94	9,20 / 6,21
Maximum allowable indoor / outdoor capacity ratio [3]		%	50 ~ 150	50 ~ 150	50 ~ 150
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18	-20 ~ +18
	Simultaneous op.	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24

ErP data [4]			
SEER [5]	**7,36**	**7,78**	**7,43**
$\eta_{s,c}$	**291,6%**	**308,3%**	**294,4%**
SCOP [5]	**4,32**	**4,35**	**4,32**
$\eta_{s,h}$	**170,1%**	**171,0%**	**170,0%**

1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 100 m for ultimate indoor unit / over 100 m for ultimate indoor unit (if the longest piping equivalent length exceeds 100 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units. 4) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for U2 type 4 way 90x90 cassette indoor units. 5) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.
*Available in Summer 2026.

Technical focus

- 8-12 HP available in single systems, with scalability up to 36 HP in multi-combination systems
- Optional R32 refrigerant safety measures, including a heat recovery box with integrated safety valve kit, are available
- Compact outdoor unit with up to 43% smaller footprint and 49% reduced volume
- Uses only 41% of the R32 refrigerant charge required by an equivalent R410A system, reducing the need for additional safety measures
- Bluefin-coated heat exchanger as standard
- Extensive R32 product range, with all air-to-air indoor units equipped with nanoe™ X
- Wide range of connectivity options, including BMS integration for seamless system control and monitoring

R32 REFRIGERANT | INVERTER+ | ALL INVERTER COMPRESSORS | -20 °C HEATING MODE | 52 °C COOLING MODE | BLUEFIN | PS COMMERCIAL SMART EDGE | 5 YEARS COMPRESSOR WARRANTY

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

3-Pipe ECOi EX MF4 Series combination from 16 to 36 HP · R32

HP			16 HP	18 HP	20 HP	20 HP	22 HP	24 HP	24 HP	26 HP
Outdoor unit			U-8MF4E8	U-8MF4E8	U-8MF4E8	U-10MF4E8	U-10MF4E8	U-12MF4E8	U-8MF4E8	U-8MF4E8
			U-8MF4E8	U-10MF4E8	U-12MF4E8	U-10MF4E8	U-12MF4E8	U-12MF4E8	U-8MF4E8	U-8MF4E8
									U-8MF4E8	U-10MF4E8
Power supply	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	44,8	50,4	55,9	56,0	61,5	67,0	67,2	72,8
EER [1]		W/W	3,4	3,5	3,2	3,5	3,2	3,1	3,4	3,5
SEER [2] / $\eta_{s,c}$			**7,36-291,6%**	**7,58-300,4%**	**7,38-292,3%**	**7,78-308,3%**	**7,55-299,3%**	**7,38-292,5%**	**291,6-7,36%**	**7,50-297,0%**
Current		A	11,2-10,7-10,3	13,4-12,7-12,2	17,8-16,9-16,3	13,4-12,7-12,2	17,8-16,9-16,3	17,8-16,9-16,3	11,2-10,7-10,3	13,4-12,7-12,2
Input power		kW	12,9	14,4	17,3	15,9	18,8	21,6	19,3	20,8
Heating capacity		kW	50,0	56,5	62,5	63,0	69,0	75,0	75,0	81,5
COP [1]		W/W	4,3	4,2	4,0	4,2	4,0	3,8	4,3	4,3
SCOP [2] / $\eta_{s,h}$			**4,32-170,0%**	**4,32-169,9%**	**4,30-169,3%**	**4,35-171,0%**	**4,30-169,2%**	**4,32-169,9%**	**4,32-170,0%**	**4,30-169,1%**
Current		A	10,1-9,57-9,23	12,7-12,1-11,6	15,9-15,1-14,6	12,7-12,1-11,6	15,9-15,1-14,6	15,9-15,1-14,6	10,1-9,57-9,23	12,7-12,1-11,6
Input power		kW	11,4	13,2	15,4	15,0	17,1	19,3	17,1	18,9
Starting current		A	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m^3/min	392	401	401	410	410	410	588	597
Sound pressure	Normal mode (Cool / Heat)	dB(A)	61,0/61,0	63,0/63,0	65,0/67,5	64,0/64,0	66,0/68,0	67,0/70,0	63,0/63,0	64,0/64,0
	Silent mode 1 / 2 (Cool)	dB(A)	58,0/56,0	60,0/58,0	62,0/60,0	61,0/59,0	63,0/61,0	64,0/62,0	60,0/58,0	61,0/59,0
Sound power	Normal mode (Cool / Heat)	dB(A)	79,0/79,0	80,5/80,5	82,5/85,0	81,0/81,0	83,0/85,0	84,0/87,0	81,0/81,0	81,5/81,5
Dimension	H x W x D	mm	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 1760 (+60) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765
Net weight		kg	434	435	435	436	436	436	651	652
Piping diameter [3]	Liquid	Inch (mm)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)
	Gas	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1-1/8 (28,58)	7/8 (22,22) / 1-1/8 (28,58)	7/8 (22,22) / 1-1/8 (28,58)	7/8 (22,22) / 1-1/8 (28,58)	7/8 (22,22) / 1-1/8 (28,58)	7/8 (22,22) / 1-1/8 (28,58)
	Suction	Inch (mm)	7/8 (22,22) / 1-1/8 (28,58)	7/8 (22,22) / 1-1/8 (28,58)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R32) / CO_2 Eq.		kg / T	16,2/10,94	16,9/11,41	17,3/11,68	17,6/11,88	18,0/12,15	18,4/12,42	24,3/16,40	25,0/16,88
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18
	Simultaneous op.	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. SEER / SCOP and ηs,c / ηs,h are in accordance with ErP test data for U2 type 4 way 90x90 cassette indoor units. 3) Piping diameter under 100 m for ultimate indoor unit / over 100 m for ultimate indoor unit (if the longest piping equivalent length exceeds 100 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

HP			28 HP	28 HP	30 HP	30 HP	32 HP	32 HP	34 HP	36 HP
Outdoor unit			U-8MF4E8	U-8MF4E8	U-8MF4E8	U-10MF4E8	U-8MF4E8	U-10MF4E8	U-10MF4E8	U-12MF4E8
			U-8MF4E8	U-10MF4E8	U-10MF4E8	U-10MF4E8	U-12MF4E8	U-10MF4E8	U-12MF4E8	U-12MF4E8
			U-12MF4E8	U-10MF4E8	U-12MF4E8	U-10MF4E8	U-12MF4E8	U-12MF4E8	U-12MF4E8	U-12MF4E8
Power supply	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	78,3	78,4	83,9	84,0	89,4	89,5	95,0	100,0
EER [1]		W/W	3,3	3,5	3,3	3,5	3,1	3,3	3,2	3,0
SEER [2] / $\eta_{s,c}$			**7,34-290,6%**	**7,59-300,9%**	**7,51-297,6%**	**7,73-306,2%**	**7,34-290,7%**	**7,61-301,5%**	**7,50-297,3%**	**7,39-292,8%**
Current		A	17,8-16,9-16,3	13,4-12,7-12,2	17,8-16,9-16,3	13,4-12,7-12,2	17,8-16,9-16,3	17,8-16,9-16,3	17,8-16,9-16,3	17,8-16,9-16,3
Input power		kW	23,7	22,3	25,2	23,8	28,1	26,7	29,6	32,4
Heating capacity		kW	87,5	88,0	94,0	94,5	100,0	100,0	106,0	112,0
COP [1]		W/W	4,1	4,2	4,1	4,2	4,0	4,0	3,9	3,8
SCOP [2] / $\eta_{s,h}$			**4,29-168,7%**	**4,32-170,0%**	**4,31-169,4%**	**4,35-171,0%**	**4,29-168,9%**	**4,33-170,3%**	**4,30-169,2%**	**4,32-170,0%**
Current		A	15,9-15,1-14,6	12,7-12,1-11,6	15,9-15,1-14,6	12,7-12,1-11,6	15,9-15,1-14,6	15,9-15,1-14,6	15,9-15,1-14,6	15,9-15,1-14,6
Input power		kW	21,1	20,7	22,8	22,5	25,0	24,6	26,8	28,9
Starting current		A	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m^3/min	597	606	606	615	606	615	615	615
Sound pressure	Normal mode (Cool / Heat)	dB(A)	66,0/68,0	65,0/65,0	66,5/68,5	66,0/66,0	67,5/70,5	67,0/69,0	68,0/70,5	69,0/72,0
	Silent mode 1 / 2 (Cool)	dB(A)	63,0/61,0	62,0/60,0	63,5/61,5	63,0/61,0	64,5/62,5	64,0/62,0	65,0/63,0	66,0/64,0
Sound power	Normal mode (Cool / Heat)	dB(A)	83,5/85,5	82,5/82,5	83,5/85,5	83,0/83,0	85,0/87,5	84,0/86,0	85,0/87,5	86,0/89,0
Dimension	H x W x D	mm	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765	1660 x 2640 (+120) x 765
Net weight		kg	652	653	653	654	653	654	654	654
Piping diameter [3]	Liquid	Inch (mm)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)
	Gas	Inch (mm)	7/8 (22,22) / 1-1/8 (28,58)	7/8 (22,22) / 1-1/8 (28,58)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)
	Suction	Inch (mm)	1-1/8 (28,58) / 1-3/8 (34,96)	1-1/8 (28,58) / 1-3/8 (34,96)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)	1-3/8 (34,96) / 15/8 (15,88)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R32) / CO_2 Eq.		kg / T	25,4/17,15	25,7/17,35	26,1/17,62	26,4/17,82	26,5/17,89	26,8/18,09	27,2/18,36	27,6/18,63
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18
	Simultaneous op.	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. SEER / SCOP and ηs,c / ηs,h are in accordance with ErP test data for U2 type 4 way 90x90 cassette indoor units. 3) Piping diameter under 100 m for ultimate indoor unit / over 100 m for ultimate indoor unit (if the longest piping equivalent length exceeds 100 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

2-Pipe ECOi EX ME2 Series R410A

Two independently controlled Inverter compressors achieve high-efficiency. Redesigned components in the body provide performance improvement especially in the rated cooling condition and EER performance*.

*Applicable to ECOi EX outdoor units over 14 HP (2-compressor models).

The ECOi EX can still operate at 100% capacity when the outside temperature is as high as 43 °C. This high power capability enables reliable operation even under extremely high temperature conditions.

SEER SCOP
7,56 [1] 4,79 [1]

High seasonal efficiency.

Saving installation space.

Silent operation.

52°C
-25°C

Extended operation range.

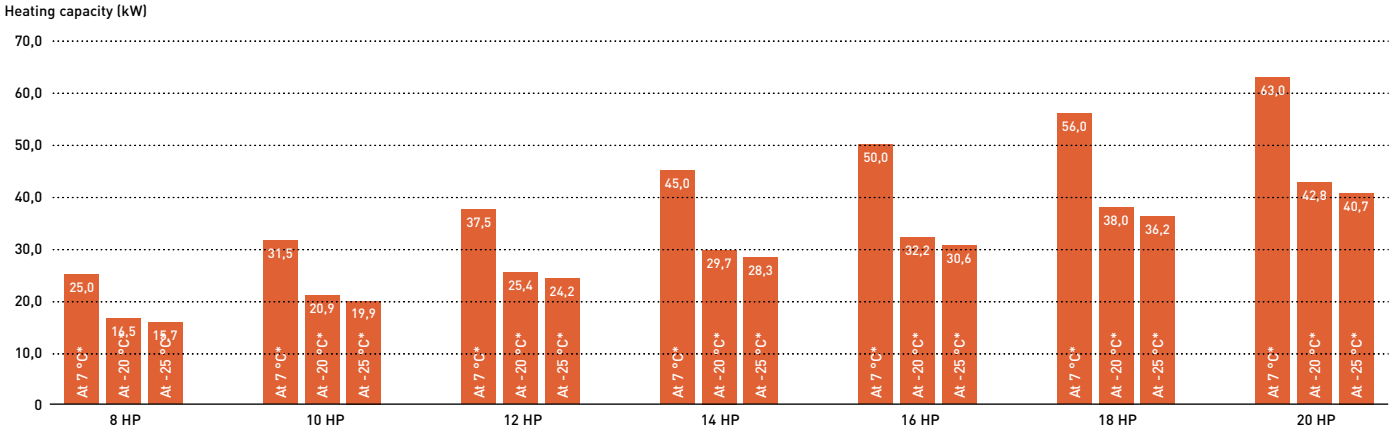
Max. 1000 m

Flexible piping installation.

200 %

Maximum indoor / outdoor capacity ratio 200%.

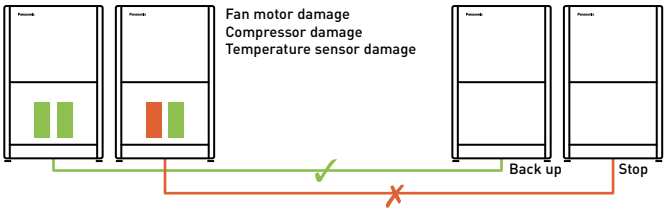
Extremely high capacity at -20 °C and unique heating capacity at -25 °C



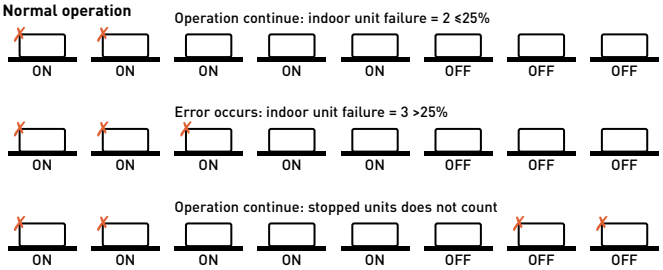
*Outdoor air temperature (°C WB).

High safety operation in case of breakdown!

Automatic Back-Up operation. Ensures heating and cooling.
It is possible for the system to keep working, even if the compressors, fan motor and the temperature sensor are damaged (even when a compressor fails in single unit with 2 compressors inside).



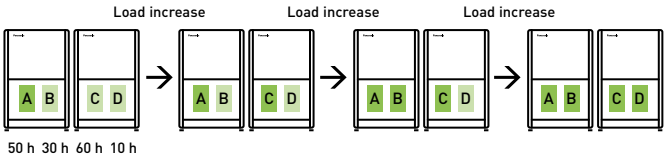
The system maintains operation by bypassing up to 25% of units during power failure.
In the event of a power failure, the system can be configured to maintain operation by ignoring up to 25% of active indoor units. Any stopped indoor units due to power failure will not affect continuous system operation.



Extended compressor life by uniform compressor operation time

The total run-time of compressors are monitored by a built-in microcomputer, which ensures that operation times of all compressors within the same refrigerant circuit are balanced.
Compressors with histories showing shorter run times are selected first, ensuring equal wear and tear across all units and extending the working life of the system.

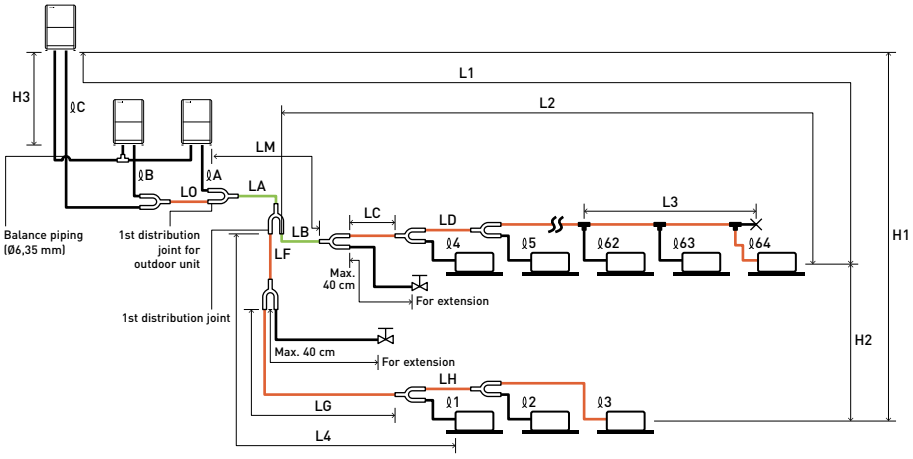
System example.
A,C: DC Inverter compressor B,D: Constant speed compressor



*Depend on accumulated operation time of each compressors.
*Compressor priority has possibility to be changed.
(e.g) Case 1: A>C>B>D, Case 2: C>A>D>B, Case 3: A>C>D>B, Case 4: C>A>B>D
*Also other cases available.

2-Pipe ECOi EX ME2 Series R410A piping design.

Select installation locations so that the lengths and sizes of refrigerant piping are within the allowable ranges shown in the figure below.



The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the tube ends.
Note: Be sure to use special R410A distribution joints (CZ: optional parts) for outdoor unit connections and piping branches.

R410A distribution joint.
CZ-P680PH2BM (for outdoor unit)
CZ-P1350PH2BM (for outdoor unit)
CZ-P224BK2BM (for indoor unit)
CZ-P680BK2BM (for indoor unit)
CZ-P1350BK2BM (for indoor unit)

Main piping length (maximum piping size) LM= LA + LB ...

Main distribution tubes LC – LH are selected according to the capacity after the distribution joint.

Sizes of indoor unit connection piping ℓ1 – ℓ64 are determined by the connection piping sizes on the indoor units.

Distribution joint (CZ: optional parts).

Ball valve (field supply).

T-joint (field supply).

Solidly welded shut (pinch weld).

Ranges that apply to refrigerant piping lengths and to differences in installation heights

Items	Mark	Contents		Length (m)
Allowable piping length	L1	Maximum piping length	Actual length	≤200[1]
			Equivalent length	≤210[1]
	Δ L (L2-L4)	Difference between maximum length and minimum length from the 1st distribution joint		≤50[2]
	LM	Maximum length of main piping (at maximum size) *Even after 1st distribution joint, LM is allowed if at maximum piping length.		—[3]
	ℓ1, ℓ2~ ℓ64	Maximum length of each distribution tube		≤50[4]
	L1+ ℓ1+ ℓ2~ ℓ63+ ℓA+ℓB+LF+LG+LH	Total maximum piping length including length of each distribution tube (only liquid piping)		≤1000
	ℓA, ℓB+LO, ℓC+LO	Maximum piping length from outdoor's 1st distribution joint to each outdoor unit		≤10
Allowable elevation difference	H1	When outdoor unit is installed higher than indoor unit		≤50
		When outdoor unit is installed lower than indoor unit		≤40
	H2	Maximum difference between indoor units		≤15
	H3	Maximum difference between outdoor units		≤4
Allowable length of joint piping	L3	T-joint piping (field-supply); Maximum piping length between the first T-joint and solidly welded-shut end point		≤2

L = Length, H = Height

1) If the longest piping length (L1) exceeds 90 m (equivalent length), increase the sizes of the main tubes (LM) by 1 rank for gas tubes and liquid tubes. Use a field supply reducer. Select the tube size from the table of main piping sizes (Table 3) and from the table of refrigerant piping sizes (Table 8). 2) When the piping length exceeds 40 m, increase a longer liquid or gas piping by 1 rank. Refer to the Technical Data for the details. 3) If the longest main piping length (LM) exceeds 50 m, increase the main piping size at the portion before 50 m by 1 rank for the gas tubes. Use a field supply reducer. Determine the length less than the limitation of allowable maximum piping length. For the portion that exceeds 50 m, set based on the main piping size (LA) listed in Table 3. 4) If any of the piping length exceeds 30 m, increase the size of the liquid and gas tubes by 1 rank. 5) If the total distribution piping length exceeds 500 m, maximum allowable elevation difference (H2) between the indoor units is calculated by the following formula. Make sure the indoor unit's actual elevation difference should fall within the figure calculated as follows. Unit of account (meter): 15 x (2 - total piping length (m) ÷ 500).
*The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the tube ends. If the size of the existing piping is already larger than the standard piping size, it is not necessary to further increase the size. **If the existing piping is used, and the amount of on-site refrigerant charge exceeds the value listed below, then change the size of the piping to reduce the amount of refrigerant. Total amount of refrigerant for the system with 1 outdoor unit: 50kg. Total amount of refrigerant for the system with 2 outdoor units: 80kg. Total amount of refrigerant for the system with 3 outdoor units or 4 outdoor units: 105 kg.

Necessary amount of additional refrigerant charge per outdoor unit.

U-8ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8
5,5 kg	5,5 kg	7,0 kg	7,0 kg	7,0 kg

System limitations.

Maximum number allowable connected outdoor units	4 [1]
Maximum capacity allowable connected outdoor units	224 kW (80 HP)
Maximum connectable indoor units	64 [2]
Maximum allowable indoor / outdoor capacity ratio	50-130%[3]

Additional refrigerant charge.

Liquid piping size (Inch (mm))	1/4 (6,35)	3/8 (9,52)	1/2 (12,70)	5/8 (15,88)	3/4 (19,05)	7/8 (22,22)	1 (25,40)
Amount of refrigerant charge (g/m)	26	56	128	185	259	366	490

1) Up to 4 units can be connected if the system has been extended.
2) In the case of 38 HP or smaller units, the number is limited by the total capacity of the connected indoor units.
3) If the following conditions are satisfied, the effective range is above 130% and below 200%.
A) Obey the limited number of connectable indoor units. B) The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C) Simultaneous operation is limited to less than 130% of connectable indoor units.

Refrigerant piping (existing piping can be used).

Piping size (mm)													
Material Temper - O						Material Temper - 1/2 H, H							
Ø6,35	t 0,8	Ø12,70	t 0,8	Ø19,05	t 1,2	Ø22,22	t 1,0	Ø28,58	t 1,0	Ø38,10	over t 1,35	Ø44,45	over t1,55
Ø9,52	t 0,8	Ø15,88	t 1,0			Ø25,40	t 1,0	Ø31,75	t 1,1	Ø41,28	over t 1,45	Ø44,45	over t1,55

*When bending the tubes, use a bending radius that is at least 4 times the outer diameter of the tubes. In addition, take sufficient care to avoid crushing or damaging the tubes when bending them.

2-Pipe ECOi EX ME2 Series · R410A

A VRF system delivering energy saving performance, powerful operation, reliability and comfort, surpassing anything previously possible. It represents a true paradigm shift in air conditioning solutions.
VRF with outstanding energy saving performance and powerful operation SEER 7,56 (18 HP model).

HP			8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP
Outdoor unit			**U-8ME2E8**	**U-10ME2E8**	**U-12ME2E8**	**U-14ME2E8**	**U-16ME2E8**	**U-18ME2E8**	**U-20ME2E8**
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	22,4	28,0	33,5	40,0	45,0	50,0	56,0
EER [1]		W/W	4,70	4,37	3,96	3,88	3,52	3,52	3,35
ESEER		W/W	9,33	8,67	7,94	7,73	7,19	6,95	6,18
Current		A	7,79 - 7,40 - 7,14	10,70 - 10,20 - 9,80	13,70 - 13,00 - 12,50	17,40 - 16,50 - 15,90	21,10 - 20,10 - 19,40	23,20 - 22,00 - 21,20	26,70 - 25,40 - 24,50
Input power		kW	4,77	6,41	8,47	10,30	12,80	14,20	16,70
Heating capacity		kW	25,0	31,5	37,5	45,0	50,0	56,0	63,0
COP [1]		W/W	5,13	4,76	4,73	4,56	4,42	4,38	3,94
Current		A	7,96 - 7,56 - 7,29	11,10 - 10,50 - 10,10	12,90 - 12,30 - 11,80	16,60 - 15,80 - 15,20	18,90 - 17,90 - 17,30	21,10 - 20,10 - 19,40	25,90 - 24,60 - 23,70
Input power		kW	4,87	6,62	7,92	9,86	11,30	12,80	16,00
Starting current		A	1,00	1,00	1,00	2,00	2,00	2,00	2,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80
Air flow		m³/min	224	224	232	232	232	405	405
Sound pressure	Normal mode	dB(A)	54	56	59	60	61	59	60
	Silent mode	dB(A)	51	53	56	57	58	56	57
Sound power	Normal mode	dB(A)	75	77	80	81	82	80	81
Dimension	H x W x D	mm	1842 x 770 x 1000	1842 x 770 x 1000	1842 x 1180 x 1000	1842 x 1180 x 1000	1842 x 1180 x 1000	1842 x 1540 x 1000	1842 x 1540 x 1000
Net weight		kg	210	210	270	315	315	375	375
Piping diameter [2]	Liquid	Inch (mm)	3/8 (9,52) / 1/2 (12,70)	3/8 (9,52) / 1/2 (12,70)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)
	Gas	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1 (25,40)	1 (25,40) / 1-1/8 (28,58)	1 (25,40) / 1-1/8 (28,58)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq		kg / T	5,60 / 11,6928	5,60 / 11,6928	8,30 / 17,3304	8,30 / 17,3304	8,30 / 17,3304	9,50 / 19,836	9,50 / 19,836
Maximum allowable indoor / outdoor capacity ratio [3]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

ErP data [4]							
SEER [5]	**7,43**	**6,96**	**6,74**	**7,23**	**6,43**	**7,56**	**7,03**
$\eta_{s,c}$	**294,3%**	**275,4%**	**266,6%**	**286,0%**	**254,3%**	**299,2%**	**278,2%**
SCOP [5]	**4,79**	**4,27**	**4,72**	**4,28**	**4,05**	**4,29**	**4,09**
$\eta_{s,h}$	**188,4%**	**167,6%**	**185,8%**	**168,2%**	**159,0%**	**168,7%**	**160,4%**

1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units. 4) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for F2 type variable static pressure hide-away indoor units. 5) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Technical focus

- Twin rotary Inverter compressor
- High performance at extreme conditions
- Outstanding efficiency and comfort
- Extraordinary partial load, SEER and SCOP
- SEER and SCOP following EN-14825
- Oil recovery intelligent control
- Top comfort
- Superior flexibility
- Bluefin full line up EX
- Extremely high capacity at -20 °C and unique heating capacity at -25 °C
- Smooth exhaust flow by bell-mouth

INVERTER+ | ALL INVERTER COMPRESSORS | -25 °C HEATING MODE | 52 °C COOLING MODE | BLUEFIN | COMMERCIAL SMART EDGE | 5 YEARS COMPRESSOR WARRANTY

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

2-Pipe ECOi EX ME2 Series · R410A - High-efficiency model combination from 18 to 64 HP

HP			18 HP	20 HP	22 HP	24 HP	26 HP	28 HP
Outdoor unit			U-8ME2E8	U-10ME2E8	U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8
			U-10ME2E8	U-10ME2E8	U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	50,0	56,0	61,5	68,0	73,0	78,5
EER [1]		W/W	4,55	4,38	4,13	3,93	3,80	3,69
Current		A	18,20 - 17,30 - 16,60	21,40 - 20,30 - 19,60	24,30 - 23,10 - 22,30	28,00 - 26,60 - 25,60	31,70 - 30,10 - 29,00	34,80 - 33,10 - 31,90
Input power		kW	11,00	12,80	14,90	17,30	19,20	21,30
Heating capacity		kW	56,0	63,0	69,0	76,5	81,5	87,5
COP [1]		W/W	4,96	4,77	4,76	4,69	4,55	4,56
Current		A	18,70 - 17,70 - 17,10	22,00 - 20,90 - 20,20	23,90 - 22,70 - 21,90	26,60 - 25,30 - 24,40	29,90 - 28,40 - 27,40	31,70 - 30,10 - 29,00
Input power		kW	11,30	13,20	14,50	16,30	17,90	19,20
Starting current		A	2,00	2,00	2,00	2,00	3,00	3,00
External static pressure (Max)		Pa	80	80	80	80	80	80
Air flow		m^3/min	448	448	456	464	456	464
Sound pressure	Normal mode	dB(A)	58,5	59,0	61,0	62,0	62,5	63,5
	Silent mode	dB(A)	55,5	56,0	58,0	59,0	59,5	60,5
Sound power	Normal mode	dB(A)	79,5	80,0	82,0	83,0	83,5	84,5
Dimension / Net weight	H x W x D	mm / kg	1842 x 1600 x 1000 / 420	1842 x 1600 x 1000 / 420	1842 x 2010 x 1000 / 480	1842 x 2420 x 1000 / 540	1842 x 2010 x 1000 / 535	1842 x 2420 x 1000 / 585
Piping diameter [2]	Liquid	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	11,20 / 23,3856	11,20 / 23,3856	13,90 / 29,0232	16,60 / 34,6608	13,90 / 29,0232	16,60 / 34,6608
Maximum allowable indoor / outdoor capacity ratio [3]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

HP			30 HP	32 HP	34 HP	36 HP	38 HP	40 HP
Outdoor unit			U-14ME2E8	U-16ME2E8	U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8
			U-16ME2E8	U-16ME2E8	U-12ME2E8	U-12ME2E8	U-12ME2E8	U-12ME2E8
					U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	85,0	90,0	96,0	101,0	107,0	113,0
EER [1]		W/W	3,68	3,52	4,05	3,95	3,84	3,75
Current		A	38,60 - 36,60 - 35,30	42,30 - 40,20 - 38,70	38,70 - 36,80 - 35,50	41,40 - 39,30 - 37,90	46,10 - 43,80 - 42,20	49,20 - 46,70 - 45,00
Input power		kW	23,10	25,60	23,70	25,60	27,90	30,10
Heating capacity		kW	95,0	100,0	108,0	113,0	119,0	127,0
COP [1]		W/W	4,48	4,42	4,72	4,73	4,61	4,57
Current		A	35,40 - 33,60 - 32,40	37,70 - 35,80 - 34,60	37,80 - 35,90 - 34,60	39,00 - 37,10 - 35,80	42,60 - 40,50 - 39,00	45,90 - 43,60 - 42,00
Input power		kW	21,20	22,60	22,90	23,90	25,80	27,80
Starting current		A	4,00	4,00	3,00	3,00	4,00	4,00
External static pressure (Max)		Pa	80	80	80	80	80	80
Air flow		m^3/min	464	464	688	696	688	696
Sound pressure	Normal mode	dB(A)	63,5	64,0	63,0	64,0	64,0	64,5
	Silent mode	dB(A)	60,5	61,0	60,0	61,0	61,0	61,5
Sound power	Normal mode	dB(A)	84,5	85,0	84,0	85,0	85,0	85,5
Dimension / Net weight	H x W x D	mm / kg	1842 x 2420 x 1000 / 630	1842 x 2420 x 1000 / 630	1842 x 3250 x 1000 / 750	1842 x 3660 x 1000 / 810	1842 x 3250 x 1000 / 795	1842 x 3660 x 1000 / 855
Piping diameter [2]	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	16,60 / 34,6608	16,60 / 34,6608	22,20 / 46,3536	24,90 / 51,9912	22,20 / 46,3536	24,90 / 46,3536
Maximum allowable indoor / outdoor capacity ratio [3]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

Data is for reference. 1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

HP			42 HP	44 HP	46 HP	48 HP	50 HP	52 HP
Outdoor unit			U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-10ME2E8	U-12ME2E8
			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-12ME2E8	U-12ME2E8
			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-12ME2E8	U-12ME2E8
							U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	118,0	124,0	130,0	135,0	140,0	145,0
EER [1]		W/W	3,69	3,62	3,62	3,52	3,87	3,82
Current		A	52,80 - 50,20 - 48,40	56,00 - 53,20 - 51,30	59,90 - 56,90 - 54,90	63,40 - 60,20 - 58,10	59,10 - 56,20 - 54,20	62,10 - 59,00 - 56,80
Input power		kW	32,00	34,30	35,90	38,40	36,20	38,00
Heating capacity		kW	132,0	138,0	145,0	150,0	155,0	160,0
COP [1]		W/W	4,49	4,50	4,46	4,42	4,65	4,66
Current		A	49,10 - 46,60 - 44,90	50,70 - 48,20 - 46,40	54,30 - 51,50 - 49,70	56,60 - 53,80 - 51,80	55,00 - 52,20 - 50,40	56,60 - 53,80 - 51,90
Input power		kW	29,40	30,70	32,50	33,90	33,30	34,30
Starting current		A	5,00	5,00	6,00	6,00	5,00	5,00
External static pressure (Max)		Pa	80	80	80	80	80	80
Air flow		m^3/min	688	696	696	696	920	928
Sound pressure	Normal mode	dB(A)	65,0	65,5	65,5	66,0	65,5	66,0
	Silent mode	dB(A)	62,0	62,5	62,5	63,0	62,5	63,0
Sound power	Normal mode	dB(A)	86,0	86,5	86,5	87,0	86,5	87,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 3250 x 1000 / 840	1842 x 3660 x 1000 / 900	1842 x 3660 x 1000 / 945	1842 x 3660 x 1000 / 945	1842 x 4490 x 1000 / 1065	1842 x 4900 x 1000 / 1125
Piping diameter [2]	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	22,20 / 51,9912	24,90 / 51,9912	24,90 / 51,9912	24,90 / 51,9912	30,50 / 63,6840	33,20 / 69,3216
Maximum allowable indoor / outdoor capacity ratio [3]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

HP			54 HP	56 HP	58 HP	60 HP	62 HP	64 HP
Outdoor unit			U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8
			U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	151,0	156,0	162,0	168,0	174,0	180,0
EER [1]		W/W	3,75	3,71	3,65	3,60	3,60	3,52
Current		A	66,60 - 63,20 - 60,90	68,80 - 65,30 - 63,00	73,30 - 69,70 - 67,10	77,10 - 73,30 - 70,60	79,80 - 75,80 - 73,00	84,60 - 80,30 - 77,40
Input power		kW	40,30	42,10	44,40	46,70	48,30	51,20
Heating capacity		kW	169,0	175,0	182,0	189,0	195,0	201,0
COP [1]		W/W	4,56	4,56	4,47	4,47	4,45	4,42
Current		A	61,90 - 58,80 - 56,70	63,40 - 60,20 - 58,10	68,00 - 64,60 - 62,20	70,60 - 67,10 - 64,70	73,10 - 69,50 - 67,00	76,00 - 72,20 - 69,60
Input power		kW	37,10	38,40	40,70	42,30	43,80	45,50
Starting current		A	6,00	6,00	7,00	7,00	8,00	8,00
External static pressure (Max)		Pa	80	80	80	80	80	80
Air flow		m^3/min	920	928	920	928	928	928
Sound pressure	Normal mode	dB(A)	66,0	66,5	66,5	67,0	67,0	67,0
	Silent mode	dB(A)	63,0	63,5	63,5	64,0	64,0	64,0
Sound power	Normal mode	dB(A)	87,0	87,5	87,5	88,0	88,0	88,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 4490 x 1000 / 1110	1842 x 4900 x 1000 / 1170	1842 x 4490 x 1000 / 1155	1842 x 4900 x 1000 / 1215	1842 x 4900 x 1000 / 1260	1842 x 4900 x 1000 / 1260
Piping diameter [2]	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-5/8 (41,28) / 1-3/4 (44,45)	1-5/8 (41,28) / 1-3/4 (44,45)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	30,50 / 63,6840	33,20 / 69,3216	30,50 / 63,6840	33,20 / 69,3216	33,20 / 69,3216	33,20 / 69,3216
Maximum allowable indoor / outdoor capacity ratio [3]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

Data is for reference. 1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

2-Pipe ECOi EX ME2 Series · R410A - Space saving model combination from 22 to 80 HP

HP			22 HP	24 HP	26 HP	28 HP	30 HP	32 HP	34 HP
Outdoor unit			U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-14ME2E8
			U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-20ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	61,5	68,0	73,0	78,5	85,0	90,0	96,0
EER [1]		W/W	4,13	3,93	3,80	3,69	3,68	3,52	3,56
SEER [2]			**6,90**	**6,86**	**6,62**	**6,60**	**6,88**	**6,55**	**7,21**
Current		A	24,30-23,10-22,30	28,00-26,60-25,60	31,70-30,10-29,00	34,80-33,10-31,90	38,60-36,60-35,30	42,30-40,20-38,70	44,10-41,90-40,40
Input power		kW	14,90	17,30	19,20	21,30	23,10	25,60	27,00
Heating capacity		kW	69,0	76,5	81,5	87,5	95,0	100,0	108,0
COP [1]		W/W	4,76	4,69	4,55	4,56	4,48	4,42	4,17
SCOP [2]			**4,53**	**4,78**	**4,16**	**4,29**	**4,13**	**4,09**	**4,14**
Current		A	23,90-22,70-21,90	26,60-25,30-24,40	29,90-28,40-27,40	31,70-30,10-29,00	35,40-33,60-32,40	37,70-35,80-34,60	42,80-40,60-39,20
Input power		kW	14,50	16,30	17,90	19,20	21,20	22,60	25,90
Starting current		A	2,00	2,00	3,00	3,00	4,00	4,00	4,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80
Air flow		m^3/min	456	464	456	464	464	464	637
Sound pressure	Normal / Silent mode	dB(A)	61,0/58,0	62,0/59,0	62,5/59,5	63,5/60,5	63,5/60,5	64,0/61,0	63,0/60,0
Sound power	Normal mode	dB(A)	82,0	83,0	83,5	84,5	84,5	85,0	84,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 2010 x 1000/480	1842 x 2420 x 1000/540	1842 x 2010 x 1000/525	1842 x 2420 x 1000/585	1842 x 2420 x 1000/630	1842 x 2420 x 1000/630	1842 x 2780 x 1000/690
Piping diameter [3]	Liquid	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	13,90/23,3856	16,60/34,6608	13,90/29,0232	16,60/34,6608	16,60/34,6608	16,60/34,6608	17,80/37,1664
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

HP			36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
Outdoor unit			U-16ME2E8	U-18ME2E8	U-20ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8
			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
						U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	101,0	107,0	113,0	118,0	124,0	130,0	135,0
EER [1]		W/W	3,42	3,42	3,34	3,69	3,62	3,62	3,52
SEER [2]			**6,86**	**7,32**	**7,16**	**6,57**	**6,60**	**6,70**	**6,55**
Current		A	47,70-45,30-43,70	50,60-48,10-46,30	54,10-51,40-49,50	52,80-50,20-48,40	56,00-53,20-51,30	59,90-56,90-54,90	63,40-60,20-58,10
Input power		kW	25,9	31,3	33,8	32,0	34,3	35,9	38,4
Heating capacity		kW	113,0	119,0	127,0	132,0	138,0	145,0	150,0
COP [1]		W/W	4,14	4,13	3,92	4,49	4,50	4,46	4,42
SCOP [2]			**4,06**	**4,14**	**4,13**	**4,11**	**4,21**	**4,12**	**4,09**
Current		A	44,60-42,40-40,80	47,10-44,70-43,10	52,40-49,80-48,00	49,10-46,60-44,90	50,70-48,20-46,40	54,30-51,50-49,7	56,60-53,80-51,8
Input power		kW	27,30	28,80	32,40	29,40	30,70	32,50	33,90
Starting current		A	4,00	4,00	4,00	5,00	5,00	6,00	6,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80
Air flow		m^3/min	637	810	810	688	696	696	696
Sound pressure	Normal / Silent mode	dB(A)	63,5/60,5	62,5/59,5	63,0/60,0	65,0/62,0	65,5/62,5	65,5/62,5	66,0/63,0
Sound power	Normal mode	dB(A)	84,5	83,5	84,0	86,0	86,5	86,5	87,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 2780 x 1000/690	1842 x 3140 x 1000/750	1842 x 3140 x 1000/750	1842 x 3250 x 1000/840	1842 x 3660 x 1000/900	1842 x 3660 x 1000/945	1842 x 3660 x 1000/945
Piping diameter [3]	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	17,80/37,1664	19,00/39,672	19,00/39,672	22,20/46,3536	24,90/51,9912	24,90/51,9912	24,90/51,9912
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

HP			50 HP	52 HP	54 HP	56 HP	58 HP	60 HP	62 HP	64 HP
Outdoor unit			U-14ME2E8	U-16ME2E8	U-14ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8	U-14ME2E8	U-16ME2E8
			U-16ME2E8	U-16ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-16ME2E8	U-16ME2E8
			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-16ME2E8	U-16ME2E8
									U-16ME2E8	U-16ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	140,0	145,0	151,0	156,0	162,0	168,0	174,0	180,0
EER [1]		W/W	3,55	3,46	3,49	3,41	3,40	3,35	3,60	3,52
SEER [2]			**6,96**	**6,72**	**7,16**	**6,92**	**7,30**	**7,16**	**6,68**	**6,55**
Current		A	64,40-61,10-58,90	68,50-65,00-62,70	70,00-66,50-64,10	74,00-70,30-67,80	76,90-73,10-70,40	80,10-76,10-73,40	79,80-75,80-73,00	84,60-80,30-77,40
Input power		kW	39,40	41,90	43,30	45,80	47,60	50,10	48,30	51,20
Heating capacity		kW	155,0	160,0	169,0	175,0	182,0	189,0	195,0	201,0
COP [1]		W/W	4,29	4,27	4,11	4,08	4,06	3,94	4,45	4,42
SCOP [2]			**4,08**	**4,05**	**4,13**	**4,07**	**4,13**	**4,13**	**4,11**	**4,09**
Current		A	59,60-56,60-54,60	61,90-58,80-56,70	67,10-63,80-61,50	70,10-66,60-64,20	73,20-69,50-67,00	77,60-73,70-71,00	73,10-69,50-67,00	76,00-72,20-69,60
Input power		kW	36,10	37,50	41,10	42,90	44,80	48,00	43,80	45,50
Starting current		A	6,00	6,00	6,00	6,00	6,00	6,00	8,00	8,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m³/min	869	869	1042	1042	1215	1215	928	928
Sound pressure	Normal / Silent mode	dB(A)	65,5 / 62,5	65,5 / 62,5	65,0 / 62,0	65,5 / 62,5	64,5 / 61,5	65,0 / 62,0	67,0 / 64,0	67,0 / 64,0
Sound power	Normal mode	dB(A)	86,5	86,5	86,0	86,5	85,5	86,0	88,0	88,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 4020 x 1000 / 1005	1842 x 4020 x 1000 / 1005	1842 x 4380 x 1000 / 1065	1842 x 4380 x 1000 / 1065	1842 x 4740 x 1000 / 1125	1842 x 4740 x 1000 / 1125	1842 x 4900 x 1000 / 1260	1842 x 4900 x 1000 / 1260
Piping diameter [3]	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Gas	Inch (mm)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-5/8 (41,28) / 1-3/4 (44,45)	1-5/8 (41,28) / 1-3/4 (44,45)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	26,10/54,4968	26,10/54,4968	27,30/57,0024	27,30/57,0024	28,50/59,508	28,50/59,508	33,20/69,3216	33,20/69,3216
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

HP			66 HP	68 HP	70 HP	72 HP	74 HP	76 HP	78 HP	80 HP
Outdoor unit			U-10ME2E8	U-12ME2E8	U-10ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8
			U-16ME2E8	U-16ME2E8	U-20ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8
			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8
			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	185,0	190,0	196,0	202,0	208,0	213,0	219,0	224,0
EER [1]		W/W	3,52	3,49	3,47	3,42	3,42	3,39	3,38	3,35
SEER [2]			**6,92**	**6,91**	**7,09**	**6,86**	**7,03**	**7,01**	**7,18**	**7,16**
Current		A	85,00-80,80-77,80	88,10-83,70-80,70	91,30-86,80-83,60	95,40-90,60-87,30	98,30-93,40-90,00	101,70-96,60-93,10	103,50-98,30-94,70	106,80-101,50-97,80
Input power		kW	52,60	54,50	56,50	59,00	60,80	62,90	64,70	66,80
Heating capacity		kW	207,0	213,0	219,0	226,0	233,0	239,0	245,0	252,0
COP [1]		W/W	4,16	4,18	4,05	4,14	4,12	4,03	4,03	3,94
SCOP [2]			**4,11**	**4,17**	**4,13**	**4,06**	**4,12**	**4,07**	**4,13**	**4,13**
Current		A	81,20-77,10-74,30	83,30-79,20-76,30	87,40-83,10-80,10	89,20-84,70-81,70	92,30-87,70-84,50	96,90-92,00-88,70	98,30-93,40-90,00	103,40-98,30-94,70
Input power		kW	49,70	51,00	54,10	54,60	56,50	59,30	60,80	64,00
Starting current		A	7,00	7,00	7,00	8,00	8,00	8,00	8,00	8,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m³/min	1266	1274	1439	1274	1447	1447	1620	1620
Sound pressure	Normal / Silent mode	dB(A)	66,0 / 63,0	66,5 / 63,5	65,5 / 62,5	66,5 / 63,5	66,5 / 63,5	66,5 / 63,5	66,0 / 63,0	66,0 / 63,0
Sound power	Normal mode	dB(A)	87,0	87,5	86,5	87,5	87,5	87,5	87,0	87,0
Dimension / Net weight	H x W x D	mm / kg	1842 x 5210 x 1000 / 1275	1842 x 5620 x 1000 / 1335	1842 x 5570 x 1000 / 1335	1842 x 5620 x 1000 / 1380	1842 x 5980 x 1000 / 1440	1842 x 5980 x 1000 / 1440	1842 x 6340 x 1000 / 1500	1842 x 6340 x 1000 / 1500
Piping diameter [3]	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1 (25,04)	7/8 (22,22) / 1 (25,04)	7/8 (22,22) / 1 (25,04)	7/8 (22,22) / 1 (25,04)	7/8 (22,22) / 1 (25,04)	7/8 (22,22) / 1 (25,04)	7/8 (22,22) / 1 (25,04)
	Gas	Inch (mm)	1-5/8 (41,28) / 1-3/4 (44,45)	1-5/8 (41,28) / 1-3/4 (44,45)	1-5/8 (41,28) / 1-3/4 (44,45)	1-3/4 (44,45) / 2 (50,80)	1-3/4 (44,45) / 2 (50,80)	1-3/4 (44,45) / 2 (50,80)	1-3/4 (44,45) / 2 (50,80)	1-3/4 (44,45) / 2 (50,80)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	32,90/68,6952	35,60/74,3328	34,10/19,836	35,80/68,6952	36,80/76,8384	36,80/76,8384	38,00/79,344	38,00/79,344
Maximum allowable indoor / outdoor capacity ratio [4]		%	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)	50 ~ 130 (200)
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18	-25 ~ +18

1) EER and COP calculation is based in accordance to EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130% and below 200%: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130% of connectable indoor units.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

3-Pipe ECOi EX MF3 Series R410A

Simultaneous heating and cooling VRF system.

The Panasonic 3-Pipe ECOi EX MF3 Series offers the best solution for the most discerning customers and demanding installations.

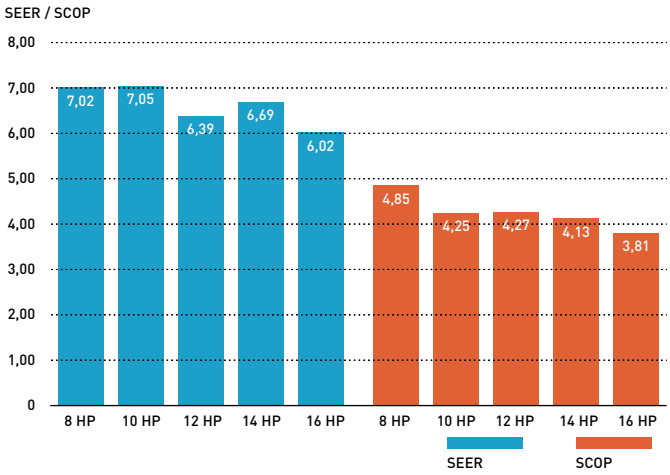
Simultaneous heating and cooling VRF System

The Panasonic 3-Pipe ECOi EX MF3 Series offers the ideal solution to meet customer's demands.

Upgraded energy efficiency utilized ECOi EX technology.
- SEER / SCOP improved in full capacities from 8 to 16 HP
- SEER / SCOP follows LOT21 (January 2018)
- Eurovent certified EER / COP

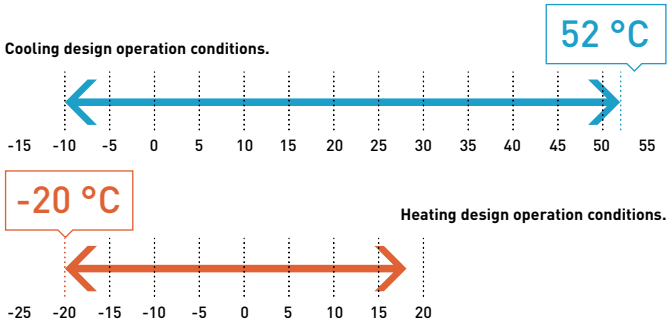
Design flexibility.
- High reliability even under extreme temperature conditions
- Connection of up to 52 indoor units
- Slim heat recovery box with just 200 mm height
- Farthest piping length between indoor and outdoor units: 200 m

Excellent seasonal energy saving.



Extended design operation conditions

Cooling design operation conditions: The cooling operating range has been extended to -10 °C ~ 52 °C by changing the outdoor fan to an Inverter type.
Heating design operation conditions: Stable heating operation even with an outside air temperature of -20 °C. The heating operating range has been extended to -20 °C by use of a compressor with a high-pressure vessel.



Cooling: Outside air temperature °C (DB). Heating: Outside air temperature °C (WB).

Wide temperature setting range

Wired remote controller heating temperature setting range is 16 to 30 °C as standard.

Increased maximum number of connectable indoor units

Maximum 48 HP with 52 indoor units can be set up according to user needs.
Connectable indoor / outdoor unit capacity ratio up to 150%.

System (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Connectable indoor units*: 150%	19	24	29	34	39	43	48	52				52									

*Depending on indoor units types. Please check service manuals.

Power suppression control for energy saving (demand control) [1)]

The 3-Pipe ECOi EX MF3 Series has a built-in demand function which uses the Inverter characteristics. With this demand function, the power consumption can be set in three steps, and operation [2)] at optimum performance is performed according to the setting and the power consumption. This function is useful to reduce the annual power consumption and to save electricity costs while maintaining comfort.

1) An outdoor Seri-Para I/O unit is required for demand input.
2) Setting is possible as 0% or in the range from 40 to 100% (in steps of 5%). At the time of shipping, setting has been done to the three steps of 0%, 70%, and 100%.

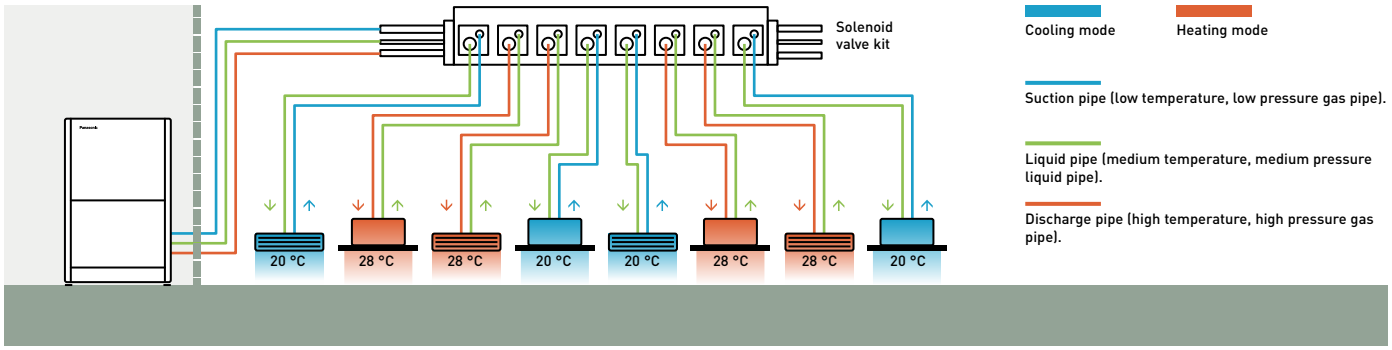
Slim 3-Pipe control box kit / Multiple connection type

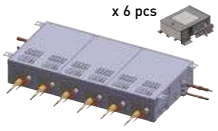
Heat recovery Box to connect multiple indoor units with just one box, 4, 6 and up to 8 indoor units or groups.

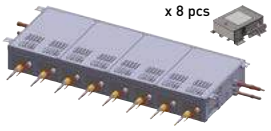
The height is only 200 mm, which is especially advantageous in hotel applications, where space for connecting several boxes is limited.

Individual control of multiple indoor units with solenoid valve kits.
· Any design and layout can be used in a single system.
· Cooling operation is possible with an outdoor temperature of -10 °C.

System structure.



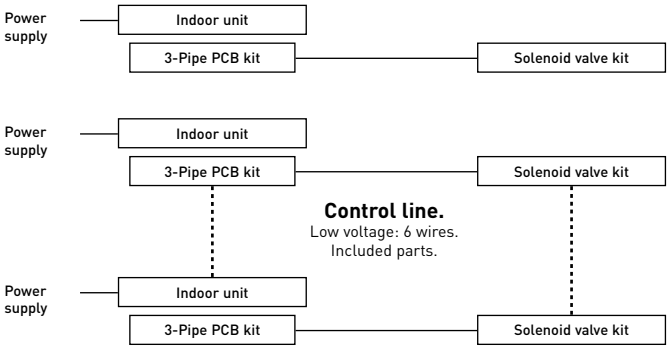




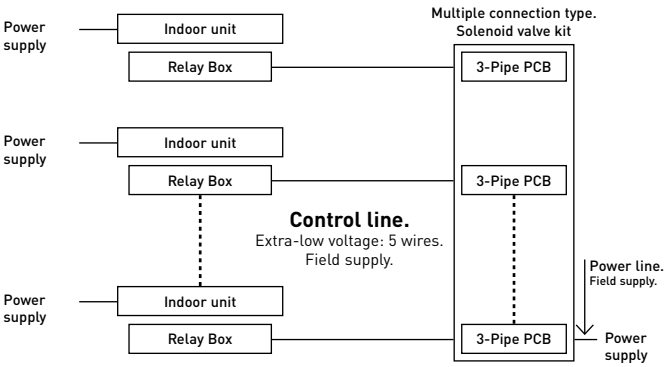
	1 port	4 port	6 port	8 port
56 type	CZ-P56HR3	CZ-P456HR3	CZ-P656HR3	CZ-P856HR3
160 type	CZ-P160HR3	CZ-P4160HR3	—	—

Solenoid valve kit / wiring work

Single connection type.



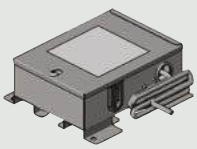
Multiple connection type.



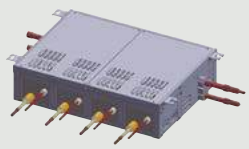
3-Pipe PCB kit.
Separately purchased.

Single HR3 kit.

Signal Relay Box.
Included accessory.



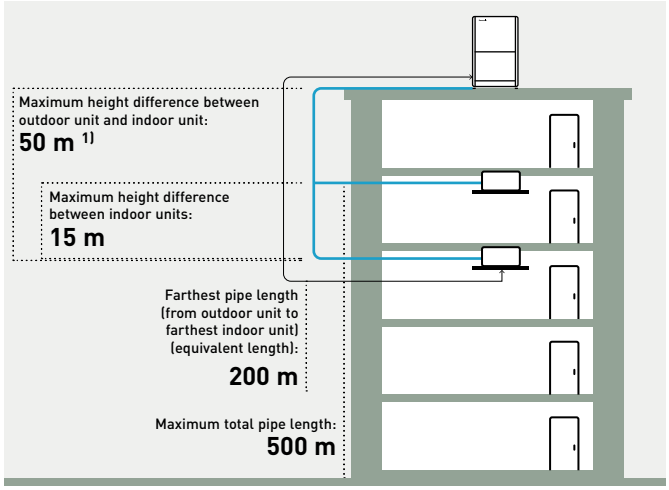
Multiple HR3 kit.



3-Pipe ECOi EX MF3 Series R410A superior flexibility

Increased piping lengths and design flexibility

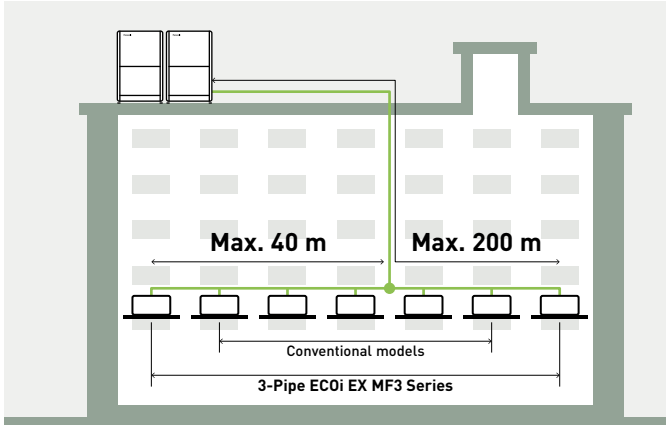
Adaptable to various building types and sizes. Actual piping length: 200 m. Maximum piping length: 500 m.



1) 40 m if the outdoor unit is below the indoor unit.

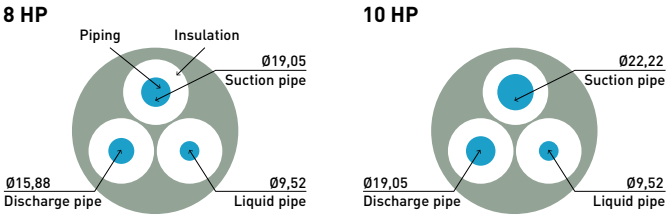
Up to 40 m piping after first branch

Up to 52 units can be connected to one system. Flexible piping layout makes it easier to design systems for locations such as train stations, airports, schools and hospitals.



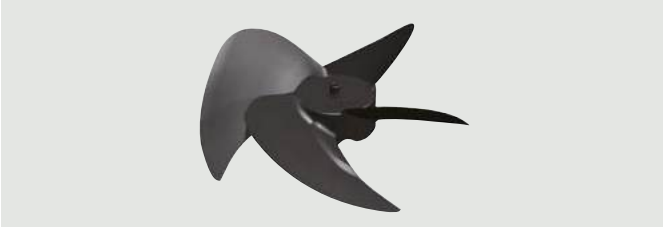
Excellent cost saving and smaller piping size

By using R410A with low pressure loss, pipe sizes for discharge, suction and liquid are all reduced.
This makes it possible to aim for reduced piping space, improved workability at the site, and reduction of the piping material costs.

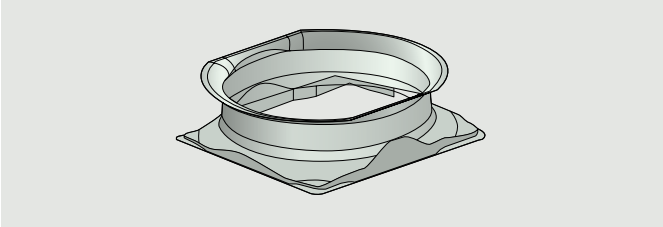


High external static pressure on condensers

With an efficient fan shape, fan guard, motor, and casing, the models can be custom-installed on-site to provide up to 80 Pa of external static pressure.

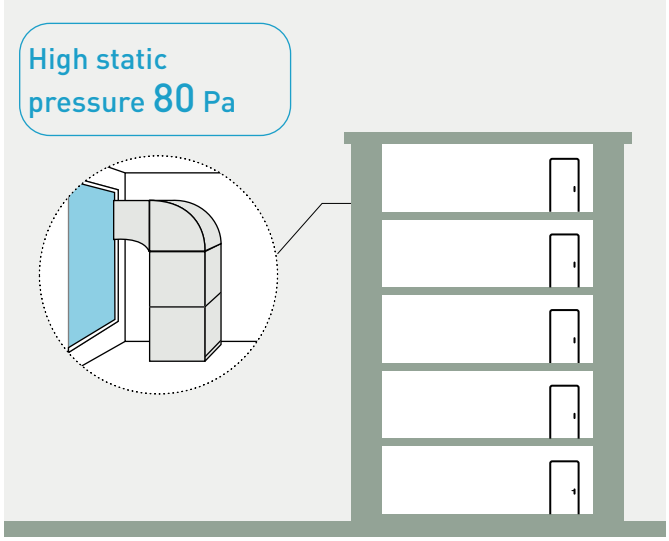


Fan.



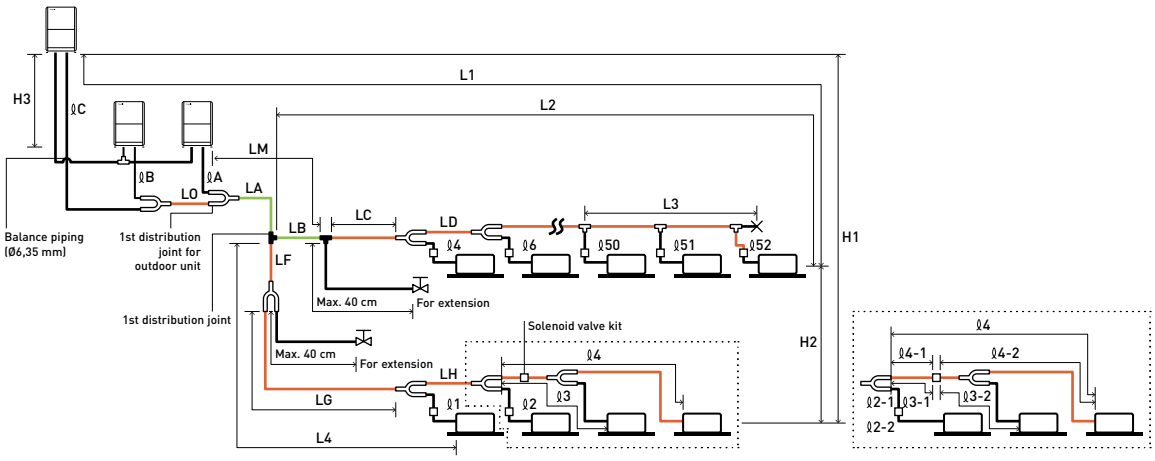
Bell-mouth casing.

An air discharge duct prevents air flow short-circuiting, allowing outdoor units to be installed on every floor of a building.



3-Pipe ECOi EX MF3 Series R410A piping design.

Select installation locations so that the lengths and sizes of refrigerant piping are within the allowable ranges shown in the figure below.



The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the tube ends.
Note: Be sure to use special R410A distribution joints (CZ: optional parts) for outdoor unit connections and piping branches.

R410A distribution joint.
CZ-P680PJ2BM
(for outdoor unit)
CZ-P1350PJ2BM
(for outdoor unit)
CZ-P224BH2BM
(for indoor unit)
CZ-P680BH2BM
(for indoor unit)
CZ-P1350BH2BM
(for indoor unit)

Main piping length (maximum piping size) LM= LA + LB ...

Main distribution tubes LC – LH are selected according to the capacity after the distribution joint.

Sizes of indoor unit connection piping ℓ1 – ℓ52 are determined by the connection piping sizes on the indoor units.

Distribution joint (CZ: optional parts).

T-joint (field supply).

Ball valve (field supply).

Solidly welded shut (pinch weld).

Ranges that apply to refrigerant piping lengths and to differences in installation heights

Items	Mark	Contents		Length (m)
Allowable piping length	L1	Maximum piping length	Actual length	≤200[1]
			Equivalent length	≤210[1]
	Δ L (L2-L4)	Difference between maximum length and minimum length from the 1st distribution joint		≤50[2]
	LM	Maximum length of main piping (at maximum size) *Even after 1st distribution joint, LM is allowed if at maximum piping length.		—[3]
	ℓ1, ℓ2~ ℓ52	Maximum length of each distribution tube		≤50[4]
	L1+ ℓ1+ ℓ2~ ℓ51+ ℓA+ℓB+LF+LG+LH	Total maximum piping length including length of each distribution tube (only liquid piping)		≤500
	ℓA, ℓB+LO, ℓC+LO	Maximum piping length from outdoor's 1st distribution joint to each outdoor unit		≤10
	ℓ1-2, ℓ2-2 ~ ℓ52-2	Maximum length between solenoid valve kit and indoor unit		≤30
Allowable elevation difference	H1	When outdoor unit is installed higher than indoor unit		≤50
		When outdoor unit is installed lower than indoor unit		≤40
	H2	Maximum difference between indoor units		≤15[5]
	H3	Maximum difference between outdoor units		≤4
Allowable length of joint piping	L3	T-joint piping (field-supply); Maximum piping length between the first T-joint and solidly welded-shut end point		≤2

L = Length, H = Height

1) If the longest piping length (L1) exceeds 90 m (equivalent length), increase the sizes of the main pipes (LM) by 1 rank for suction pipes, discharge pipes and liquid pipes. Use a field supply reducer. Select the pipe size from the table of main piping sizes (Table 3) and from the table of refrigerant piping sizes (Table 8). 2) If the longest main piping length (LM) exceeds 50 m, increase the main piping size at the portion before 50 m by 1 rank for the suction pipes and discharge pipes. Use a field supply reducer. Determine the length less than the limitation of allowable maximum piping length. For the portion that exceeds 50 m, set based on the main piping size (LA) listed in Table 3. 3) If the piping length marksd "L" (L2-L4) exceeds 40 m, increase the piping size at the portion after the 1st distribution joint by 1 rank for the liquid pipe, suction pipe and discharge pipe. Refer to the Technical Data for the details. 4) If any of the piping length exceeds 30 m, increase the size of the suction pipes,discharge pipes and liquid pipes by 1rank.
*The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the pipe ends.

System limitations.

Maximum number allowable connected outdoor units	3
Maximum capacity allowable connected outdoor units	135 kW (48 HP)
Maximum connectable indoor units	52
Maximum allowable indoor / outdoor capacity ratio	50-150%

Additional refrigerant charge.

Liquid piping size (Inch (mm))	1/4 (6,35)	3/8 (9,52)	1/2 (12,70)	5/8 (15,88)	3/4 (19,05)	7/8 (22,22)
Amount of refrigerant charge (g/m)	26	56	128	185	259	366

1) In the case of 24 HP (type 68 kW) or smaller units, the number is limited by the total capacity of the connected indoor units.
2) Up to 3 units can be connected if the system has been extended.
3) It is strongly recommended that you choose the unit so the load can become between 50 and 130%.

Necessary amount of additional refrigerant charge per meter, according to discharge piping size.

Discharge piping size	Inch (mm)	1/2 (12,70)	5/8 (15,88)	3/4 (19,05)	7/8 (22,22)	1 (25,40)	1-1/8 (28,58)	1-1/4 (31,75)	1-1/2 (38,10)
Additional amount	g/m	12	21	31	41	55	71	89	126

Refrigerant piping.

Piping size (mm)											
Material Temper - O						Material Temper - 1/2 H, H					
Ø6,35	t 0,8	Ø12,70	t 0,8	Ø19,05	t 1,2	Ø22,22	t 1,0	Ø28,58	t 1,0	Ø38,10	t 1,15
Ø9,52	t 0,8	Ø15,88	t 1,0			Ø25,40	t 1,0	Ø31,75	t 1,1	Ø41,28	t 1,20

*When bending the tubes, use a bending radius that is at least 4 times the outer diameter of the tubes. In addition, take sufficient care to avoid crushing or damaging the tubes when bending them.

3-Pipe ECOi EX MF3 Series · R410A

Simultaneous heating and cooling operation with heat recovery type.
The 3-Pipe ECOi EX MF3 Series is one of the most advanced VRF systems.
Not only highly efficient performance for simultaneous heating and cooling, but also sophisticated installation and maintenance capability.

4,85
SCOP

HP			8 HP	10 HP	12 HP	14 HP	16 HP
Outdoor unit			U-8MF3E8	U-10MF3E8	U-12MF3E8	U-14MF3E8	U-16MF3E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50
Cooling capacity		kW	22,4	28,0	33,5	40,0	45,0
EER [1]		W/W	5,11	4,72	3,91	3,70	3,49
Current		A	7,16 - 6,80 - 6,55	9,90 - 9,41 - 9,07	3,19 - 13,20 - 12,70	18,20 - 17,30 - 16,70	21,30 - 20,20 - 19,50
Input power		kW	4,38	5,93	8,57	10,80	12,90
Heating capacity		kW	25,0	31,5	37,5	45,0	50,0
COP [1]		W/W	5,25	5,17	4,51	4,21	4,17
Current		A	7,78 - 7,39 - 7,12	10,20 - 9,66 - 9,31	13,40 - 12,80 - 12,30	18,10 - 17,20 - 16,50	20,00 - 19,00 - 18,30
Input power		kW	4,76	6,09	8,32	10,70	12,00
Starting current		A	1,00	1,00	1,00	2,00	2,00
External static pressure (Max)		Pa	80	80	80	80	80
Air flow		m³/min	210	220	232	232	232
Sound pressure	Normal mode	dB(A)	54,0	57,0	60,0	61,0	62,0
	Silent mode 1 / 2	dB(A)	51,0 / 49,0	54,0 / 52,0	57,0 / 55,0	58,0 / 56,0	59,0 / 57,0
Sound power	Normal mode	dB(A)	76,0	78,0	81,0	82,0	82,0
Dimension	H x W x D	mm	1842 x 1180 x 1000	1842 x 1180 x 1000	1842 x 1180 x 1000	1842 x 1180 x 1000	1842 x 1180 x 1000
Net weight		kg	261	262	286	334	334
Piping diameter [2]	Liquid	Inch (mm)	3/8 (9,52) / 1/2 (12,70)	3/8 (9,52) / 1/2 (12,70)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)	1/2 (12,70) / 5/8 (15,88)
	Discharge	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1 (25,40)	7/8 (22,22) / 1 (25,40)
	Suction	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1 (25,40)	1 (25,40) / 1-1/8 (28,58)	1 (25,40) / 1-1/8 (28,58)	1-1/8(28,58)/1-1/4(31,75)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	6,80 / 14,1984	6,80 / 14,1984	8,30 / 17,3304	8,30 / 17,3304	8,30 / 17,3304
Maximum allowable indoor / outdoor capacity ratio		%	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18
	Simultaneous op.	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

ErP data [3]					
SEER [4]	**7,02**	**7,05**	**6,39**	**6,69**	**6,02**
$\eta_{s,c}$	**277,7%**	**278,9%**	**252,7%**	**264,4%**	**237,7%**
SCOP [4]	**4,85**	**4,25**	**4,27**	**4,13**	**3,81**
$\eta_{s,h}$	**190,9%**	**166,8%**	**167,8%**	**162,1%**	**149,3%**

1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) SEER / SCOP and $\eta_{s,c}$ / $\eta_{s,h}$ are in accordance with ErP test data for F2 type variable static pressure hide-away indoor units.
4) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF.

Solenoid valve kit	
KIT-P56HR3	3-Pipe control solenoid valve kit (up to 5,6 kW)
CZ-P56HR3	Solenoid valve kit (up to 5,6 kW)
CZ-CAPE2	3-Pipe control PCB
KIT-P160HR3	3-Pipe control solenoid valve kit (from 5,6 to 16,0 kW)
CZ-P160HR3	Solenoid valve kit (from 5,6 kW to 16,0 kW)
CZ-CAPE2	3-Pipe control PCB
CZ-CAPEK2 [5]	3-Pipe control PCB for wall-mounted

3-Pipe control box kit	
CZ-P456HR3	4 ports 3 pipe box (up to 5,6 kW per port)
CZ-P656HR3	6 ports 3 pipe box (up to 5,6 kW per port)
CZ-P856HR3	8 ports 3 pipe box (up to 5,6 kW per port)
CZ-P4160HR3	4 ports 3 pipe box (up to 16,0 kW per port)

5) Available for S-45/56/73/106MK3E.

- Achieving SCOP 4,85 top class in the industry (LOT21 Seasonal heating efficiency value for 8 HP outdoor unit)
- Simultaneous cooling and heating operation with up to 39 indoor units
- Slim heat recovery boxes with just 200 mm height fit with the ceiling space limited in hotel applications

Technical focus

- High SEER / SCOP at full Load capacity (follows LOT21)
- Eurovent certified EER / COP
- Standardisation of outdoor unit to one compact casing size
- Connection of up to 52 indoor units
- High external static pressure 80 Pa with an efficient fan shape, fan guard, motor, and casing
- Silent outdoor unit operation: Minimum 54 dB(A) for 8 HP
- Bluefin coil coating as standard

HIGH COP | INVERTER+ | -20 °C HEATING MODE | COMMERCIAL SMART EDGE | 5 YEARS COMPRESSOR WARRANTY | EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

3-Pipe ECOi EX MF3 Series · R410A - Combination from 18 to 48 HP

HP			18 HP	20 HP	22 HP	24 HP	26 HP	28 HP	30 HP	32 HP
Outdoor unit			U-8MF3E8	U-8MF3E8	U-10MF3E8	U-12MF3E8	U-10MF3E8	U-12MF3E8	U-14MF3E8	U-16MF3E8
			U-10MF3E8	U-12MF3E8	U-12MF3E8	U-12MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	50,0	56,0	61,5	68,0	73,0	78,5	85,0	90,0
EER 1)		W/W	4,90	4,31	4,24	3,89	3,88	3,65	3,59	3,49
Current		A	16,80-16,00-15,40	21,00-20,00-19,20	23,70-22,50-21,70	28,30-26,90-25,90	31,00-29,50-28,40	35,10-33,40-32,20	39,60-37,60-36,20	42,60-40,50-39,00
Input power		kW	10,20	13,00	14,50	17,50	18,80	21,50	23,70	25,8
Heating capacity		kW	56,0	63,0	69,0	76,5	81,5	87,5	95,0	100,0
COP 1)		W/W	5,23	4,77	4,79	4,47	4,50	4,31	4,19	4,17
Current		A	17,70-16,80-16,20	21,30-20,30-19,50	23,50-22,30-21,50	27,60-26,30-25,30	30,20-28,70-27,70	33,50-31,80-30,70	37,90-36,00-34,70	40,10-38,10-36,70
Input power		kW	10,70	13,20	14,40	17,10	18,10	20,30	22,70	24,00
Starting current		A	2,00	2,00	2,00	2,00	3,00	3,00	4,00	4,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m^3/min	430	442	452	464	452	464	464	464
Sound pressure	Normal mode	dB(A)	59,0	61,0	62,0	63,0	63,5	64,5	64,5	65,0
	Silent mode 1 / 2	dB(A)	56,0/54,0	58,0/56,0	59,0/57,0	60,0/58,0	60,5/58,5	61,5/59,5	61,5/59,5	62,0/60,0
Sound power	Normal mode	dB(A)	81,5	84,0	84,5	86,0	84,5	86,0	86,0	86,0
Dimension	H x W x D	mm	1842 x 2360 (+60) x 1000	1842 x 2360 (+60) x 1000	1842 x 2360 (+60) x 1000	1842 x 2360 (+60) x 1000	1842 x 2360 (+60) x 1000	1842 x 2360 (+60) x 1000	1842 x 2360 (+60) x 1000	1842 x 2360 (+60) x 1000
Net weight		kg	523	547	548	574	596	620	668	668
Piping diameter 2)	Liquid	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Discharge	Inch (mm)	7/8 (22,22) / 1 (25,40)	7/8 (22,22) / 1 (25,40)	1 (25,40) / 1-1/8 (28,58)	1 (25,40) / 1-1/8 (28,58)	1 (25,40) / 1-1/8 (28,58)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)
	Suction	Inch (mm)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	13,60/28,3968	15,10/31,5288	15,10/31,5288	16,60/34,6608	15,10/31,5288	16,60/34,6608	16,60/34,6608	16,60/34,6608
Maximum allowable indoor / outdoor capacity ratio		%	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18
	Simultaneous op.	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

HP			34 HP	36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
Outdoor unit			U-8MF3E8	U-8MF3E8	U-10MF3E8	U-8MF3E8	U-10MF3E8	U-12MF3E8	U-14MF3E8	U-16MF3E8
			U-10MF3E8	U-12MF3E8	U-12MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8
			U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8
Power supply	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	96,0	101,0	107,0	113,0	118,0	124,0	130,0	135,0
EER 1)		W/W	4,10	3,90	3,88	3,72	3,72	3,58	3,55	3,49
Current		A	38,60-36,70-35,40	42,30-40,20-38,70	45,60-43,30-41,70	50,20-47,70-46,00	52,40-49,70-47,90	56,50-53,70-51,80	61,10-58,10-56,00	63,90-60,70-58,50
Input power		kW	23,40	25,90	27,60	30,40	31,70	34,60	36,60	38,70
Heating capacity		kW	108,0	113,0	119,0	127,0	132,0	138,0	145,0	150,0
COP 1)		W/W	4,64	4,48	4,51	4,31	4,36	4,25	4,18	4,17
Current		A	38,90-37,00-35,60	41,60-39,50-38,10	43,60-41,40-39,90	49,30-46,80-45,10	50,60-48,10-46,30	53,70-51,00-49,10	57,90-55,00-53,00	60,10-57,10-55,00
Input power		kW	23,30	25,20	26,40	29,50	30,30	32,50	34,70	36,00
Starting current		A	4,00	4,00	4,00	5,00	5,00	5,00	6,00	6,00
External static pressure (Max)		Pa	80	80	80	80	80	80	80	80
Air flow		m^3/min	662	674	684	674	684	696	696	696
Sound pressure	Normal mode	dB(A)	64,0	64,5	65,0	65,5	66,0	66,5	66,5	67,0
	Silent mode 1 / 2	dB(A)	61,0/59,0	61,5/59,5	62,0/60,0	62,5/60,5	63,0/61,0	63,5/61,5	63,5/61,5	64,0/62,0
Sound power	Normal mode	dB(A)	84,5	85,5	85,5	85,5	86,0	86,5	87,0	87,0
Dimension	H x W x D	mm	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000
Net weight		kg	857	881	882	929	930	954	1002	1002
Piping diameter 2)	Liquid	Inch (mm)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
	Discharge	Inch (mm)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4 (31,75) / 1-1/2 (38,10)
	Suction	Inch (mm)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)
	Balance	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A) / CO_2 Eq.		kg / T	21,90/45,72719	23,40/48,85919	23,40/48,85919	23,40/48,85919	23,40/48,85919	24,90/46,3536	24,90/51,9912	24,90/51,9912
Maximum allowable indoor / outdoor capacity ratio		%	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150
Operating range	Cool Min ~ Max	°C	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52	-10 ~ +52
	Heat Min ~ Max	°C	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18	-20 ~ +18
	Simultaneous op.	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

1) EER and COP calculation is based in accordance to EN 14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes).

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Leak detection and automatic Pump Down for R410A refrigerant

Pump Down Systems to detect refrigerant leaks, that offers complete assurance and safety protection. It's an ideal solution for hotels, offices and public buildings where the strict safety of end users and workers is required.

The system monitors refrigerant leakage continually and provides a warning, preventing major refrigerant loss and potential damage to the installation's efficiency. The system can reduce potential refrigerant loss by up to 90%.

As well as ensuring safe and reliable operation, Panasonic's Pump Down system contributes towards BREEAM POL1 points and enables compliance with current EN 378 standards, covering applications where refrigeration concentration levels exceed practical safety limits of 0,44 kg/m³.

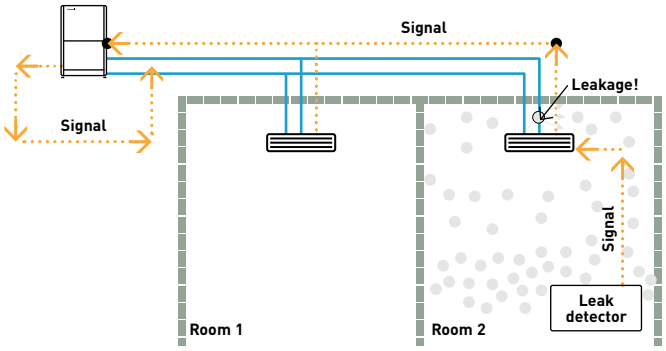
Basic Pump Down function:
· Leak detection
· Activate Pump Down process
· Collect refrigerant within receiver tank
· Close valves to isolate refrigerant

Technical focus:
· Compatible with Mini ECOi and ECOi EX Series with R410A refrigerant
· A receiver kit included as standard
· Includes updated controller
· Connection in two ways:
1 | With local room leakage sensors
2 | Using innovative algorithm
· R22 renewal possible

The Pump Down systems are ideal for hotels, offices and public buildings where safety of building occupants is a must.

Direct leak detection method: the safest solution for small rooms

The leak detector is connected directly to the indoor unit and the Pump Down system is directly connected to the outdoor unit PCB. The Pump Down system will activate when a leak is detected in the room and initiate a refrigerant reclaim operation immediately. This immediate reaction, and large refrigerant storage capacity, offers very high levels of safety for end users, building occupants, as well as being climate-friendly.
No additional communication panels or software is required. This option should be implemented in any area that is not compliant with BS EN 378.



Indirect leak detection method: Unique PLC algorithm to determine refrigerant leakage

Pressure and temperature sensors constantly monitor the high / low pressure and discharge of the condensing unit to protect against potential leakage in areas not covered by leak detectors.
The innovative algorithm is able to detect leakage of R410A based on abnormal changes in the following conditions, high and low pressure, and compressor discharge temperature.
Once initiated via either direct or indirect detection, the unit will immediately close the liquid / discharge actuating ball valves, close the alarm terminals on the Pump Down PCB allowing an alarm to be raised at any nominated location.
Reclaim of the refrigerant is via the suction line to the heat exchanger(s) of the outdoor unit(s), with any surplus refrigerant collected in the 30 l receiver tank. Once fully pumped down the suction line is closed and the unit awaits a 'Reset' and 'Recharge' command.
Thanks to the simple installation and control, shown in Fig 1, Panasonic's ECOi Pump Down system can provide dramatic reduction in capital cost and installation time when compared to a standalone leak detection system, shown in Fig 2.

Fig 1: Panasonic's Pump Down system.

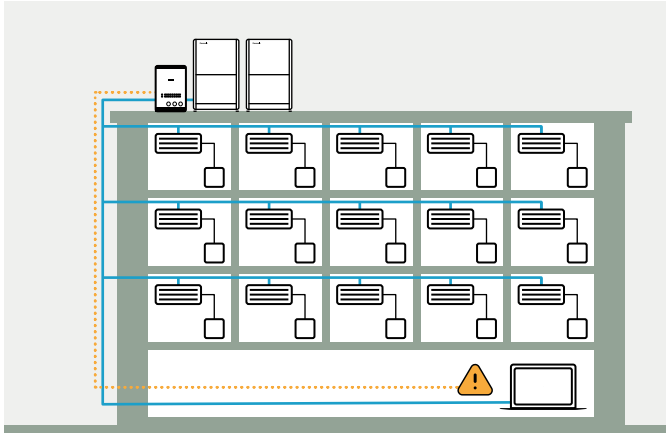
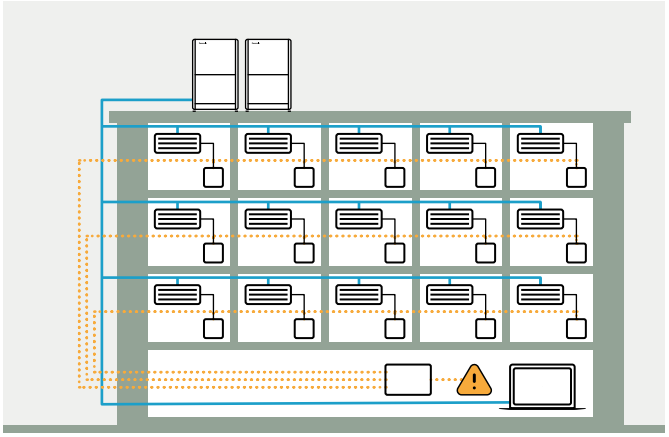


Fig 2: Standalone leak detection system.



Quick and simple installation

The unit contains actuating ball valves, a 30 L storage vessel and PLC all housed in an IP54 rated encasement. Terminals in front of the unit allow easy wiring to the alarm terminal, high / low pressure transducers and discharge temperature sensor(s) of the condensing unit(s).

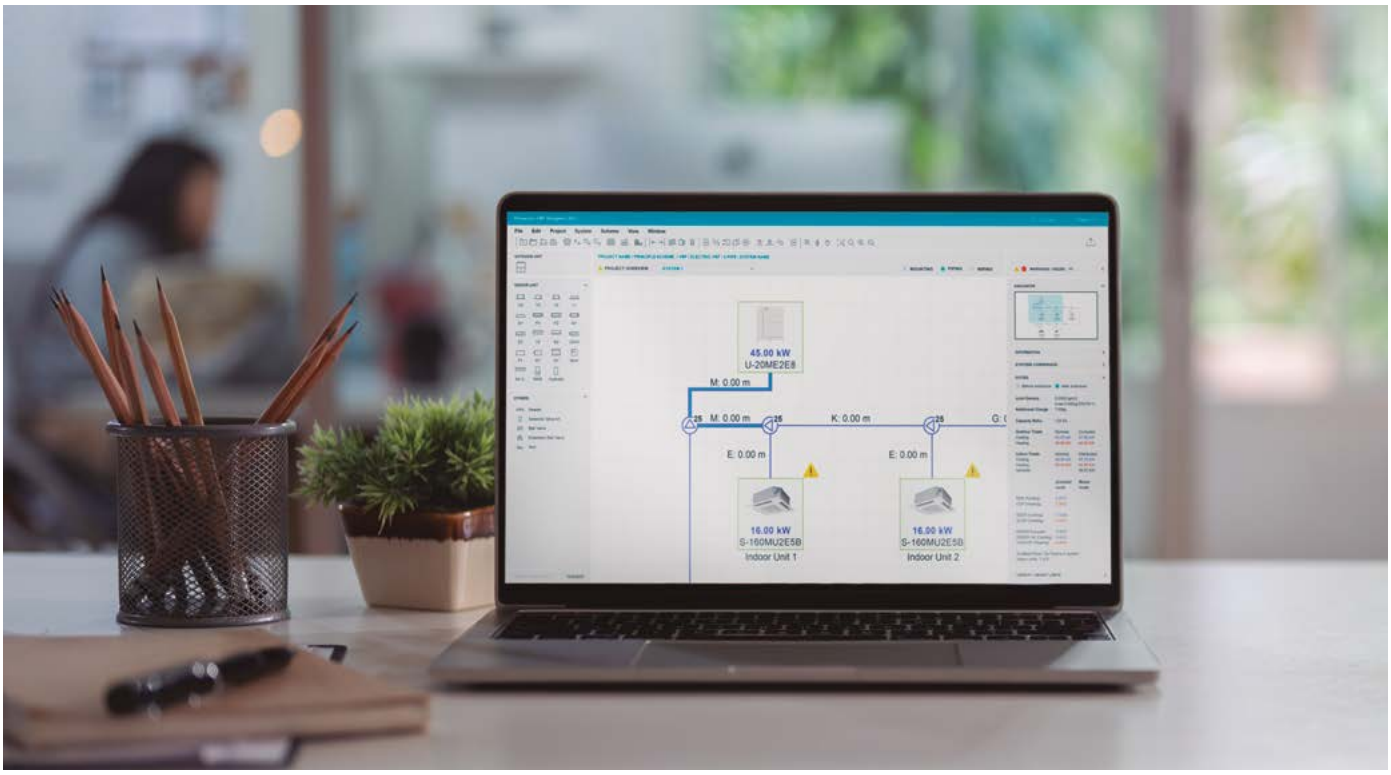
Reference	Description
PAW-PUD2W-1R	Pump Down system (2 way) for 1 outdoor unit
PAW-PUD2W-2R	Pump Down system (2 way) for 2 outdoor units
PAW-PUD2W-3R*	Pump Down system (2 way) for 3 outdoor units
PAW-PUD3W-1R	Pump Down system (3 way) for 1 outdoor unit
PAW-PUD3W-2R	Pump Down system (3 way) for 2 outdoor units
PAW-PUD3W-3R*	Pump Down system (3 way) for 3 outdoor units

*Special order requiring the longer lead time than usual. For the detailed information, please contact an authorized Panasonic dealer.

Panasonic DX PRO Designer

Leading software for architects, designers, and consultants, specializing in the design of commercial DX heating and cooling systems.

Panasonic DX PRO DESIGNER



Cloud based solution: Access from anywhere 24/7/365, collaborative work with your team and the software is consistently updated to the latest version.

Cloud based tool.

Design on building floor drawing.

Auto piping and wiring diagram.

Performance calculation.

Comprehensive project report.

Floor drawing image import.

DX PRO Designer offers improved user experience and useful functions for the heating and cooling experts

- Seasonal performance calculation in accordance with ERP directive and EN14825 standard
- Designing heating and cooling systems for floor-level building design
- Automatic piping and wiring function
- Limit density check function in accordance with IEC 60335-2-40 / EN 378
- Comprehensive project report available
- Multi language supports

The software performs seasonal performance calculations, considering on-site conditions.

Download the comprehensive project report.

Let's try out the DX PRO Designer*

*Panasonic PRO Club account is required.

The video for detailed information is ready!

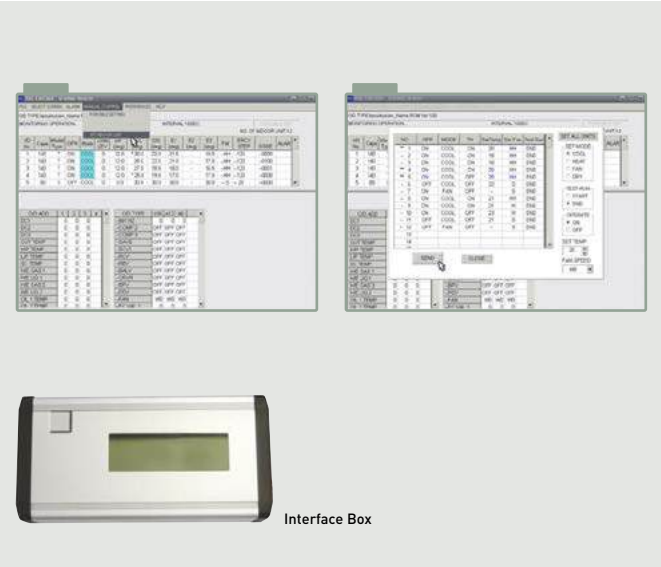
Panasonic VRF service checker

Available to installers and commissioning companies, the VRF service checker is a communication interface to Panasonic VRF systems. This easy to manage tool checks all parameters of the system.

The VRF service checker.

- Connect anywhere on the S-Link for ECOi and Mini ECOi
- Search the S-Link to validate systems that are connected
- Monitor all indoor and outdoor units simultaneously on 1 screen
- Monitor all Temperature data, Pressure data, Valve position, and alarm status
- Data can be viewed in Graph or tabular display
- Controlling the indoor unit ON / OFF, MODE, SET POINT, FAN, and TEST mode
- Switch between various systems on the same communication S-Link (ECOi only)
- Monitor and record at a set interval
- Record and review the data at a later date
- Update Panasonic system software via ROM flash writer

The Panasonic VRF service checker is available from your local service partner.


Interface Box

R22 Renewal

Panasonic's advanced technology enables the system to work with previously installed pipe work by managing the working pressure within the system down to R22 (33 bar) levels, this ensures the system works safely and efficiently without loss of capacity.

The new equipment can offer increased COP / EER by using state of the art Inverter compressor and heat exchanger technology.
Having contacted your Panasonic supplier regarding pipe work restrictions, and gained approval to use the Panasonic Renewal System, there are three main tests that have to be carried out to ensure that the system can be used effectively. Firstly a thorough inspection of the pipe work must be carried out and any damage must be repaired. Secondly an oil test must be performed to ensure that the system has not been subject to a compressor burnout during its lifetime. Lastly a VRF Renewal Kit (CZ-SLK2) must be installed within the pipe work to ensure that the system is cleaned and free of oil remnants.

VRF indoor units range

Page	Indoor units	1,0 kW	1,5 kW	2,2 kW	2,8 kW	3,6 kW	4,5 kW	5,6 kW
P. 355	U2 type 4 way 90x90 cassette · R32 / R410A			S-22MU2E5C	S-28MU2E5C	S-36MU2E5C	S-45MU2E5C	S-56MU2E5C
P. 356	Y3 type 4 way 60x60 cassette · R32 / R410A		S-15MY3EB	S-22MY3EB	S-28MY3EB	S-36MY3EB	S-45MY3EB	S-56MY3EB
P. 357	L1 type 2 way cassette · R410A			S-22ML1E5	S-28ML1E5	S-36ML1E5	S-45ML1E5	S- 56ML1E5
P. 358	D1 type 1 way cassette · R410A				S-28MD1E5	S-36MD1E5	S-45MD1E5	S-56MD1E5
P. 359	F3 type variable static pressure adaptive duct · R32 / R410A		S-15MF3E5D	S-22MF3E5D	S-28MF3E5D	S-36MF3E5D	S-45MF3E5D	S-56MF3E5D
P. 360	M2 type slim variable static pressure hide-away · R32 / R410A	S-10MM2EB	S-15MM2EB	S-22MM2EB	S-28MM2EB	S-36MM2EB	S-45MM2EB	S-56MM2EB
P. 361	E2 type high static pressure hide-away · R410A							
P. 363	K3 type wall-mounted · R32 / R410A		S-15MK3E	S-22MK3E	S-28MK3E	S-36MK3E	S-45MK3E	S-56MK3E
P. 364	T2 type ceiling · R410A					S-36MT2E5A	S-45MT2E5A	S-56MT2E5A
P. 365	G1 type floor console · R410A			S-22MG1E5N	S-28MG1E5N	S-36MG1E5N	S-45MG1E5N	S-56MG1E5N
P. 366	NEW! P2 type floor-standing · R32 / R410A			S-22MP2E	S-28MP2E	S-36MP2E	S-45MP2E	S-56MP2E
P. 366	NEW! R2 type concealed floor-standing · R32 / R410A			S-22MR2E	S-28MR2E	S-36MR2E	S-45MR2E	S-56MR2E
P. 367	Hydrokit for ECOi, water at 45 °C · R410A							
P. 369	2-Pipe ECOi EX ME2 Series with water heat exchanger · R410A							
P. 375	Energy recovery ventilation with DX coil – HRPT Series · R32 / R410A			PAW-HRPT40HX PAW-HRPT40 (2,5 kW)				PAW-HRPT80HX PAW-HRPT80 (5 kW)

OPTIONAL UNITS ON VENTILATION SECTION

6,0 kW	7,3 kW	9,0 kW	10,6 kW	11,2 kW	14,0 kW	16,0 kW	22,4 kW	28,0 kW
S-60MU2E5C	S-73MU2E5C	S-90MU2E5C		S-112MU2E5C	S-140MU2E5C	S-160MU2E5C	A panel in graphite black (RAL9011) is available.	
							A new panel in graphite black (RAL9011) is available.	
	S-73ML1E5							
	S-73MD1E5							
S-60MF3E5D	S-73MF3E5D	S-90MF3E5D		S-112MF3E5D	S-140MF3E5D	S-160MF3E5D		
							S-224ME2E5	S-280ME2E5
	S-73MK3E		S-106MK3E					
	S-73MT2E5A		S-106MT2E5A		S-140MT2E5A			
	S-71MP2E							
	S-71MR2E							
		S-80MW1E5			S-125MW1E5			
							PAW-250WP5G1 PAW-250W5G1	PAW-500WP5G1 PAW-500W5G1 (50 kW)
	PAW-HRPT120HX PAW-HRPT120 (7 kW)		PAW-HRPT160HX PAW-HRPT160 (10 kW)	PAW-HRPT200HX PAW-HRPT200 (12,5 kW)				

4 way 90x90 cassette with nanoe X Generator Mark 3

Large capacity VRF. Trusted power and high-efficiency. These Cassettes offer upgraded nanoe™ X technology and Econavi as accessories for making application space more comfortable and efficient.

White and graphite black panels now available for the 4 way 90x90 cassette, offering versatile options for commercial applications.

Standard panel, white (RAL9003).
CZ-KPU3

Econavi panel, white (RAL9003).
CZ-KPU3A

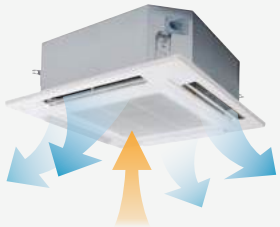
Standard panel, graphite black (RAL9011).
CZ-KPU3B

Always fresh and clean air with nanoe™ X

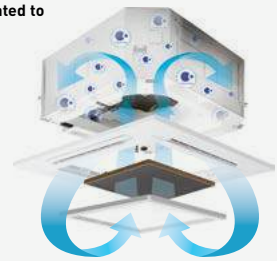
The 4 way 90x90 cassette with nanoe™ X, when tested, has shown to inhibit hazardous substances by 92%, when compared to natural reduction*.
In addition to the 7 effects of nanoe™ X, the indoor unit can also be cleaned with a short operation of nanoe™ X and dry operation.

*Controllers (CZ-RTC5B or CZ-RTC6/BL) are required.

After cooling/drying operation, the inside of the indoor unit is automatically dried and nanoe™ X is activated to suppress mould growth.



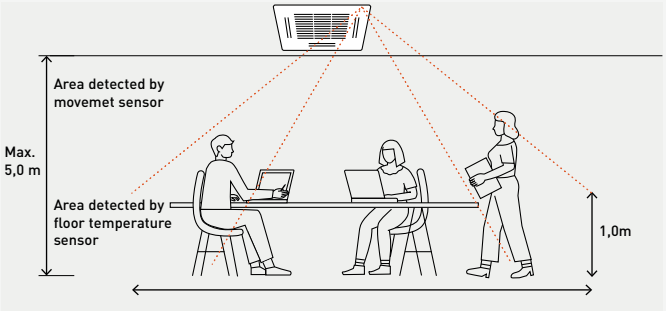
Operates the fan to discharge internal humidity.



Operate the fan to circulate nanoe™ X internally.

Optional Econavi intelligent sensor

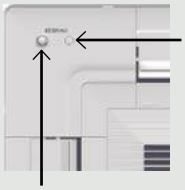
Human activity sensor and floor temperature sensor can reduce waste energy, by optimising air conditioner operation.



Advanced Econavi functions.

2 sensors (movement and floor temperature) can provide a reduction in wasted energy by means of effective control. The floor temperature can be detected with a ceiling height of up to 5 m.

Econavi exclusive panel. Optional (CZ-KPU3A).



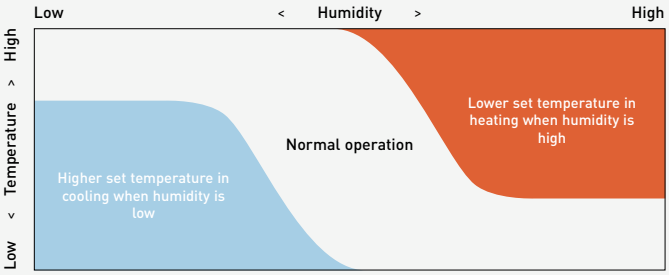
Floor temperature sensor.
This sensor detects average floor temperature and operates circulation if floor temperature is low.

Movement sensor.
This sensor detects the amount of human activity, and operates effectively.

Wired remote controller CZ-RTC5B, CZ-RTC6W/BL or CZ-RTC6/BL is required.

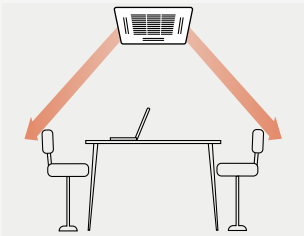
Humidity sensor.

A humidity sensor positioned in the air inlet provides comfort and saves energy based on temperature and humidity.

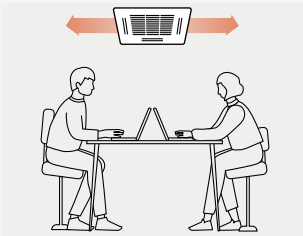


Group control, circulation function.

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize thermal stratification in both heating and cooling operation.



Circulation by detecting no movement (10 minutes).



Indirect air flow by detecting movement.

nanoe™ X as a standard.

Panels (sold separately):

Standard, white (RAL9003). CZ-KPU3

Econavi, white (RAL9003). CZ-KPU3A

Standard, graphite black (RAL9011). CZ-KPU3B

U2 type 4 way 90x90 cassette · R32 / R410A

The 4 way 90x90 cassettes with integrated nanoe™ X Generator Mark 3 and design panel.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit. S-***MU2E5C			22	28	36	45	56	60	73	90	112	140	160
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	11,2	14,0	16,0
Input power		W	20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	95,00	95,00	105,00
Current		A	0,21	0,21	0,21	0,21	0,23	0,33	0,36	0,38	0,74	0,74	0,82
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	14,0	16,0	18,0
Input power		W	20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	90,00	90,00	100,00
Current		A	0,20	0,20	0,20	0,20	0,22	0,32	0,35	0,37	0,72	0,72	0,80
Fan type			Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Air flow	Hi/ Med/ Lo	m³/min	12,8/12,1/ 11,5	12,8/12,1/ 11,5	14,5/13,0/ 11,5	15,5/13,0/ 11,5	16,5/13,5/ 11,5	21,0/16,0/ 13,0	22,5/16,0/ 13,0	23,0/18,5/ 14,0	36,0/26,0/ 20,0	36,0/26,0/ 20,0	37,0/28,0/ 24,0
Sound pressure	Hi/ Med/ Lo	dB(A)	30/29/28	30/29/28	30/29/28	31/29/28	32/30/28	36/32/29	37/32/29	38/35/32	45/39/35	45/39/35	46/40/38
Sound power	Hi/ Med/ Lo	dB(A)	45/44/43	45/44/43	45/44/43	46/44/43	47/45/43	51/47/44	52/47/44	53/50/47	60/54/50	60/54/50	61/55/53
Dimension (H x W x D)	Indoor	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Dimension (H x W x D)	Panel	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight (Panel)		kg	20 (5)	20 (5)	20 (5)	20 (5)	20 (5)	20 (5)	20 (5)	20 (5)	25 (5)	25 (5)	25 (5)
Piping diameter R32 model	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter R32 model	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Piping diameter R410A model	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52) [1]	3/8 (9,52) [1]	3/8 (9,52) [1]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter R410A model	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88) [1]	5/8 (15,88) [1]	5/8 (15,88) [1]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)

1) When the piping diameter is (liquid) Ø1/4 (6,35) – (gas) Ø1/2 (12,70), connect the liquid socket tube (Ø1/4 (6,35) – Ø3/8 (9,52)) to the liquid tubing side indoor unit and connect the gas socket tube (Ø1/2 (12,70) – Ø5/8 (15,88)) to the gas tubing side indoor unit.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRU3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black

Accessories	
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-KPU3	Standard panel, white (RAL9003)
CZ-KPU3B	Standard panel, graphite black (RAL9011)
CZ-KPU3A	Econavi exclusive panel, white (RAL9003)
CZ-CENSC1	Econavi energy saving sensor
CZ-FDU3+CZ-ATU2	Fresh air-intake kit
CZ-CGLSC2	Panasonic R32 refrigerant leak detector

Technical focus

- High performance turbo fan
- Lower noise in low fan operation
- Ceiling height up to 5,0 m
- Industry leading lightweight design
- Econavi: Temperature, humidity and activity sensor
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X and dry operation
- Powerful drain pump gives 850 mm lift
- Fresh air knockout
- Branch duct connection
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)
- Graphite black and white panels providing options to suit a variety of light commercial applications

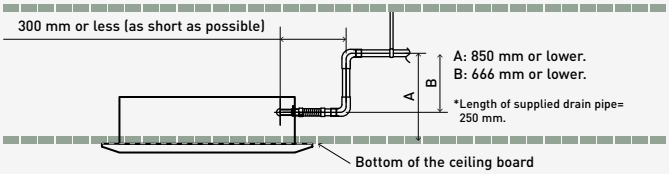
Panel design

A modern flat panel design blends into any space. These cassettes provide high energy saving, comfort and better indoor air quality that satisfy customers.

- Flat design, well-matched with interior aesthetic
- 4-way individual flap control

The drain pipe can be raised to a maximum height of 850 mm from the bottom of the ceiling

Integrated drain pump allows a drain height of 850 mm making the installation much easier.



28% ECONAVI | nanoeX | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | BUILT-IN DRAIN PUMP | OPTIONAL WI-FI | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Y3 type 4 way 60x60 cassette · R32 / R410A

Mini cassette with a modern panel design is available in VRF range. nanoe™ X (Generator Mark 3).
The Y3 type not only perfectly matches with 600 x 600 mm ceiling grids but also provides the additional benefits of nanoe™ X, for better indoor air quality.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Panel (sold separately):

NEW! Panels.
White (RAL9003): CZ-KPY4W
Graphite black (RAL9011): CZ-KPY4B

nanoe™ X as a standard.

Indoor unit			S-15MY3EB	S-22MY3EB	S-28MY3EB	S-36MY3EB	S-45MY3EB	S-56MY3EB
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6
Input power		W	19,00	20,00	21,00	22,00	30,00	42,00
Current		A	0,24	0,24	0,25	0,26	0,34	0,43
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3
Input power		W	17,00	18,00	19,00	20,00	28,00	40,00
Current		A	0,21	0,21	0,22	0,23	0,31	0,40
Fan type			Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan	Turbo fan
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Air flow	Cool (Hi/Med/Lo)	m³/min	8,5/7,0/6,0	8,7/7,0/6,0	9,0/7,5/6,0	9,5/7,8/6,0	11,5/9,0/6,5	13,5/10,5/8,0
	Heat (Hi/Med/Lo)	m³/min	8,5/7,0/6,0	8,7/7,0/6,0	9,0/7,5/6,0	9,5/7,8/6,0	11,5/9,0/6,5	13,5/10,5/8,0
Sound pressure	Hi/Med/Lo	dB(A)	33/30/28	33/30/28	34/30/28	35/31/28	39/34/30	42/37/33
Sound power	Hi/Med/Lo	dB(A)	48/45/43	48/45/43	49/45/43	50/46/43	54/49/45	57/52/48
Dimension (H x W x D) 1)	Indoor	mm	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575
	Panel	mm	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625
Net weight		kg	17,8 (15 + 2,8)	17,8 (15 + 2,8)	17,8 (15 + 2,8)	17,8 (15 + 2,8)	17,8 (15 + 2,8)	17,8 (15 + 2,8)
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)

1) Unit height is 230 mm, but need 243 mm height in ceiling space for its installation.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRY3W	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white

Accessories	
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor
CZ-CGLSC2	Panasonic R32 refrigerant leak detector
CZ-KPY4W	**NEW!** Panel for 4 way 60x60 cassette, white (RAL9003)
CZ-KPY4B*	**NEW!** Panel for 4 way 60x60 cassette, graphite black (RAL9011)

*Available in Autumn 2026.

Technical focus

- Built-in drain pump
- DC drain pump and float switch to reduce the noise
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X and dry operation
- **NEW!** Graphite black and white panels providing options to suit a variety of light commercial applications

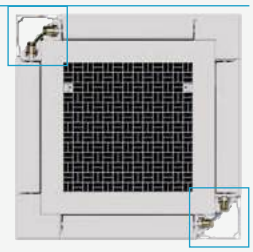
Compact and stylish design

- Required ceiling depth of only 250 mm 1)
- Exposed area is only 30 mm

1) Installation dimension.

Individual flap control

Better control of the air flow with 4 motors, providing individual flap control.
Perfect air distribution without direct air flow, to reduce the feeling of cold drafts.

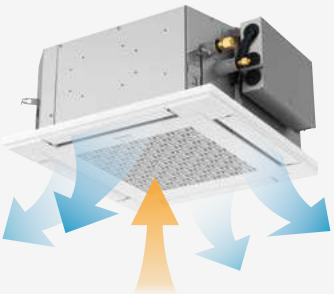


Internal cleaning function

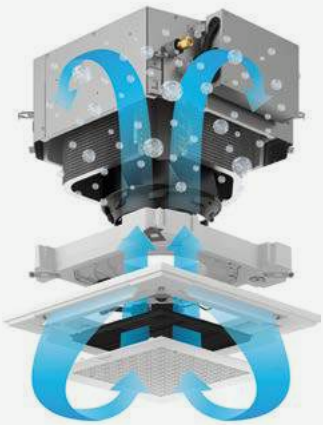
When cooling or dry operation stopped, internal drying and nanoe™ X circulation air flow is activated in order to suppress the mould proliferation inside the unit (air flow passage, fan, heat exchanger)*.

*Depending on the installation environment or operating hours, mould proliferation or inhabitation of mould growth will be changed.

After cooling/drying operation, the inside of the indoor unit is automatically dried and nanoe™ X is activated to suppress mould growth.



Operates the fan to discharge internal humidity.



Operate the fan to circulate nanoe™ X internally.

28% ECONAVI | nanoeX | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | BUILT-IN DRAIN PUMP | OPTIONAL WI-FI | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

L1 type 2 way cassette · R410A

Slim, compact and lightweight units.
Remarkable size and weight reductions have been achieved by improvement of the design around the fan, the weight of all models now just 30 kg.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-22ML1E5	S-28ML1E5	S-36ML1E5	S-45ML1E5	S-56ML1E5	S-73ML1E5
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6	7,3
Input power		W	90,00	92,00	93,00	97,00	97,00	145,00
Current		A	0,45	0,45	0,45	0,45	0,45	0,65
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3	8,0
Input power		W	58,00	60,00	61,00	65,00	65,00	109,00
Current		A	0,29	0,29	0,29	0,29	0,29	0,48
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi/Med/Lo	m³/min	8,0/7,0/6,0	9,0/8,0/7,0	9,7/8,7/7,7	11,0/9,0/8,0	11,0/9,0/8,0	19,0/16,0/14,0
Sound pressure	Hi/Med/Lo	dB(A)	30/27/24	33/29/26	34/31/28	35/33/29	35/33/29	38/35/33
Dimension (H x W x D)	Indoor	mm	350 x 840 x 600	350 x 840 x 600	350 x 840 x 600	350 x 840 x 600	350 x 840 x 600	350 x 1140 x 600
	Panel	mm	8 x 1060 x 680	8 x 1060 x 680	8 x 1060 x 680	8 x 1060 x 680	8 x 1060 x 680	8 x 1360 x 680
Net weight (Panel)		kg	26 (8)	26 (8)	26 (8)	26 (8)	26 (8)	26 (8)
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRL3	Infrared remote controller and receiver

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-02KPL2	Panel for S-22 to S-56 models
CZ-03KPL2	Panel for S-73 model

Technical focus

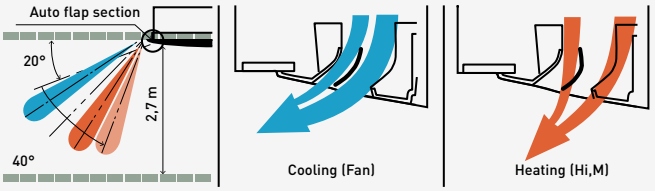
- Air flow and distribution is automatically altered depending on the operational mode of the unit
- Drain pump provides up to 500 mm lift height
- Simplified maintenance

Simplified maintenance

The drain pan is equipped with site wiring and can be removed. The fan case has a split construction, and the fan motor can be removed easily when the lower case is removed.

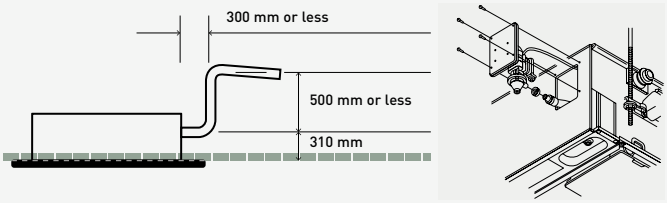
Auto flap control

Air flow and distribution is automatically altered depending on the operational mode of the unit.



Drain pump provides up to 500 mm lift height

Maintenance of the drain pump is possible from two sides, from the left side (piping side) and from the inside of the unit.



SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | BUILT-IN DRAIN PUMP | OPTIONAL WI-FI | BMS CONNECTIVITY

INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

D1 type 1 way cassette · R410A

Designed for installation within the ceiling void, the D1 range of slimline 1 way blow cassettes feature powerful yet quiet fans for installation of up to 4,2 m.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-28MD1E5	S-36MD1E5	S-45MD1E5	S-56MD1E5	S-73MD1E5
Cooling capacity		kW	2,8	3,6	4,5	5,6	7,3
Input power		W	51,00	51,00	51,00	60,00	87,00
Current		A	0,39	0,39	0,39	0,46	0,70
Heating capacity		kW	3,2	4,2	5,0	6,3	8,0
Input power		W	40,00	40,00	40,00	48,00	76,00
Current		A	0,35	0,35	0,35	0,41	0,65
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi/Med/Lo	m^3/min	12,0/10,0/9,0	12,0/10,0/9,0	12,0/11,0/10,0	13,0/11,5/10,0	18,0/15,0/13,0
Sound pressure	Hi/Med/Lo	dB(A)	36/34/33	36/34/33	36/35/34	38/36/34	45/40/36
Dimension (H x W x D)	Indoor	mm	200 x 1000 x 710	200 x 1000 x 710	200 x 1000 x 710	200 x 1000 x 710	200 x 1000 x 710
	Panel	mm	20 x 1230 x 800	20 x 1230 x 800	20 x 1230 x 800	20 x 1230 x 800	20 x 1230 x 800
Net weight (Panel)		kg	23,5 (7,5)	23,5 (7,5)	23,5 (7,5)	23,5 (7,5)	24,5 (7,5)
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)

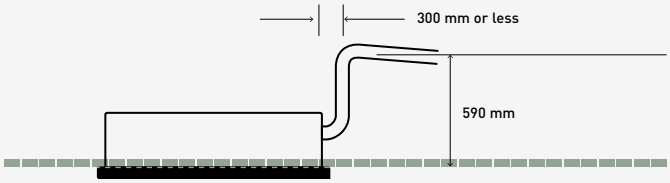
Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRD3	Infrared remote controller and receiver

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-KPD2	Panel

Technical focus

- Ultra-Slim
- Suitable for standard and high ceilings
- Built-in drain pump provides 590 mm lift
- Easy to install and maintain
- Hanging height can be easily adjusted
- Uses a DC fan motor to improve energy efficiency

Drain height



With 2 types of air-blow systems, the units can be used in various ways

1. One-direction "down-blow" system.
Powerful one-direction "down-blow" system reaches the floor even from high ceilings (up to 4,2 m).

2. Two-direction ceiling-mounted system.
"Down-blow" and "front-blow" systems are combined in a ceiling-mounted unit to blow air over a wide area.

SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | BUILT-IN DRAIN PUMP | OPTIONAL WI-FI | BMS CONNECTIVITY

INTERNET CONTROL: Optional.

nanoe™ X as a standard.

F3 type variable static pressure adaptive duct · R32 / R410A

nanoe™ X (Generator Mark 3).
2 installation possibilities (horizontal / vertical) with high ESP 150 Pa allows for flexible installation.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit. S-***MF3E5D			15	22	28	36	45	56	60	73	90	112	140	160
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	11,2	14,0	16,0
Input power		W	60,00	60,00	60,00	60,00	60,00	89,00	79,00	79,00	136,00	265,00	265,00	330,00
Current		A	0,45	0,45	0,45	0,45	0,45	0,63	0,52	0,52	0,90	1,76	1,76	2,14
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	12,5	16,0	18,0
Input power		W	60,00	60,00	60,00	60,00	60,00	89,00	79,00	79,00	136,00	265,00	265,00	330,00
Current		A	0,45	0,45	0,45	0,45	0,45	0,63	0,52	0,52	0,90	1,76	1,76	2,14
R32 leakage sensors [1]			2	2	2	2	2	2	2	2	2	2	2	2
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
External static pressure		Pa	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	30 (10-150)	40 (10-150)	50 (10-150)	50 (10-150)	50 (10-150)
Air flow [2]	Hi/ Med/ Lo	m³/min	12,8/11,0/ 8,0	12,8/11,0/ 8,0	12,8/11,0/ 8,0	14,0/12,0/ 8,0	14,0/12,0/ 8,0	16,0/14,0/ 10,0	21,0/18,0/ 15,0	21,0/18,0/ 15,0	25,0/23,0/ 16,0	37,0/32,0/ 26,0	37,0/32,0/ 26,0	40,0/34,0/ 28,0
Sound pressure		dB(A)	31/28/20	31/28/20	31/28/20	31/28/20	31/28/20	35/32/24	31/28/23	31/28/23	35/33/25	41/36/32	41/36/32	43/37/33
Sound power		dB(A)	54/51/43	54/51/43	54/51/43	54/51/43	54/51/43	58/55/47	54/51/46	54/51/46	58/56/48	64/59/55	64/59/55	66/60/56
Dimension (H x W x D)		mm	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	26	26	26	26	26	26	31	31	31	40	40	40
Piping diameter R32 model	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Piping diameter R410A model	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)

1) Only available in the R32 version. 2) Value referred to standard settings at shipment (H curve 8, M curve 5, L curve 1).

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white

Accessories	
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor
PAW-APF800F	BION air pollutant filter for MF3 15, 22, 28, 36, 45 and 56
PAW-APF1000F	BION air pollutant filter for MF3 60 and 73
PAW-APF1400F	BION air pollutant filter for MF3 90, 112, 140 and 160
CZ-CGLALC1	R32 refrigerant leak alarm

Technical focus

- 4 installation possibilities with horizontal and vertical mounting, plus selectable rear or bottom air inlet
- Industry leading low noise with super quiet operation, minimum 20 dB(A)
- Only 250 mm height and lightweight unit from, 26 to 40 kg
- Integrated Panasonic R32 refrigerant leak detectors [1]
- Improved drain pan suitable for both horizontal / vertical installation
- Drain pump included [2]
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard, effective even with duct connections up to 10 m with 3 x 90° bends [3]
- BION air pollutant filter for certain types of pollutants, such as nitrogen dioxide (NO_2), nitrogen oxides (NO_x) and Ozone (O_3) (optional)

1) Only available in the R32 version. 2) For use with horizontal installation only. 3) Panasonic internal survey.

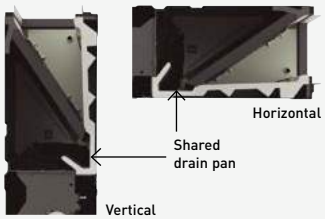
Vertical Installation

Vertical installation option. Variable external static pressure to support ducted installations with bends.

* Vertical installation requires additional settings on field, please check the installation manual.

Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation.
No need to modify the unit.



28% ECONAVI | nanoeX | FILTER INCLUDED | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | OPTIONAL WI-FI | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

M2 type slim variable static pressure hide-away concealed duct · R32 / R410A

nanoe™ X (Generator Mark 3).
Ultra-slim profile: 200 mm for all capacities.
Ideal for hotel application with very narrow false ceilings.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

nanoe™ X as a standard.

Indoor unit			S-10MM2EB	S-15MM2EB	S-22MM2EB	S-28MM2EB	S-36MM2EB	S-45MM2EB	S-56MM2EB
Cooling capacity		kW	1,0	1,5	2,2	2,8	3,6	4,5	5,6
Input power		W	12,00	19,00	25,00	29,00	32,00	39,00	54,00
Current		A	0,25	0,30	0,33	0,35	0,36	0,44	0,51
Heating capacity		kW	1,3	1,7	2,5	3,2	4,2	5,0	6,3
Input power		W	12,00	19,00	25,00	29,00	32,00	39,00	54,00
Current		A	0,25	0,30	0,33	0,35	0,36	0,44	0,51
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Air flow	Hi/Med/Lo	m³/min	4,5/4,3/4,1	6,8/6,2/5,0	8,0/7,0/5,0	8,5/7,5/6,5	9,0/8,0/7,0	13,0/11,0/10,5	15,0/13,0/11,0
External static pressure		Pa	10(30)	10(30)	10(30)	15(30)	15(40)	15(40)	15(40)
Sound pressure	Hi/Med/Lo [1]	dB(A)	22/21/20	24/23/20	26/25/20	27/26/23	28/26/23	30/27/26	32/29/27
Sound power	Hi/Med/Lo	dB(A)	37/36/35	39/38/35	41/40/35	42/41/38	43/41/38	45/42/41	47/44/42
Dimension	H x W x D	mm	200 x 700 x 450	200 x 700 x 450	200 x 700 x 450	200 x 700 x 450	200 x 700 x 450	200 x 900 x 450	200 x 900 x 450
Net weight		kg	17	17	17	17	17	19	19
Piping diameter	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)
	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)

1) By DIP switches or by RC setting.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function

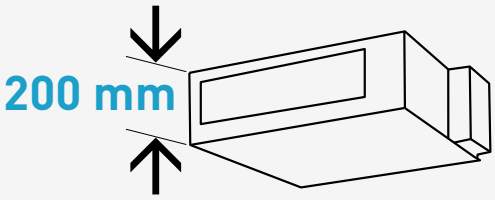
Accessories	
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor
CZ-CGLALC1	R32 refrigerant leak alarm

Technical focus

- Ultra-slim profile: 200 mm for all models
- DC fan motor greatly reduces power consumption
- Ideal for hotel application with very narrow false ceilings
- Easy maintenance and service by external electrical box
- Up to 40 Pa static pressure enables ductwork to be fitted
- Includes drain pump
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality

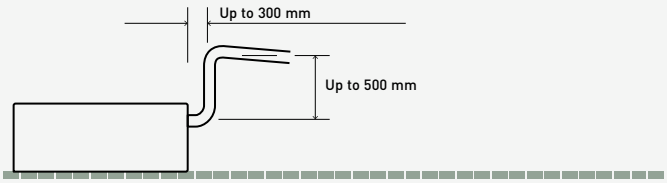
In addition, its high-efficiency and extremely quiet sound levels make it very popular with many users, including hotels and small offices.

Ultra-slim profile for all models



Drain pump with increased power!

By adoption of a high-lift drain pump, the drain piping can achieve up to 500 mm lift from the outlet port of the unit.



28% ECONAVI | FILTER INCLUDED | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | OPTIONAL WI-FI | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

E2 type high static pressure hide-away · R410A

High pressure duct and 100% fresh air duct function.
The E2 range of ducted units offers improved design flexibility for extended duct layouts as a result of their increased external static pressures whilst reducing energy consumption.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Type			100% fresh air duct function (by using kit for 100% fresh air)				High pressure duct			
Indoor unit			S-224ME2E5		S-280ME2E5		S-224ME2E5		S-280ME2E5	
			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity		kW	22,4	21,2	28,0	26,5	22,4	25,0	28,0	31,5
Input power		W	290,00	290,00	350,00	350,00	440,00	440,00	715,00	715,00
Current		A	1,85	1,85	2,20	2,20	2,45	2,45	3,95	3,95
Air flow	Hi/Med/Lo	m³/min	28,3/—/—		35,0/—/—		56,0/51,0/44,0		72,0/63,0/53,0	
External static pressure		Pa	200		200		140 (60 - 270) [1]		140 (72 - 270) [1]	
Sound pressure [2]	Hi/Med/Lo	dB(A)	43/—/—		44/—/—		45/43/41		49/47/43	
Sound power	Hi/Med/Lo	dB(A)	75/—/—		76/—/—		77/75/73		81/79/75	
Dimension	H x W x D	mm	479 x 1453 x 1205		479 x 1453 x 1205		479 x 1453 x 1205		479 x 1453 x 1205	
Net weight		kg	102		106		102		106	
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)		3/8 (9,52)		3/8 (9,52)		3/8 (9,52)	
	Gas	Inch (mm)	3/4 (19,05)		7/8 (22,22)		3/4 (19,05)		7/8 (22,22)	

Rating conditions for 100% fresh air duct function: Cooling outdoor 33 °C DB / 28 °C WB. Heating outdoor 0 °C DB / -2,9 °C WB.
1) Available to select the setting by initial setup. 2) Values with 140 Pa setting. *No filter included.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor

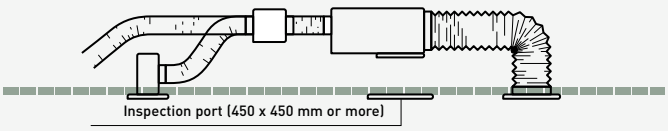
Technical focus

- No need of rap valves for standard operation
- 100% fresh air duct function*
- DC fan motor for more savings
- Complete flexibility for ductwork design
- Can be located within a weatherproof housing for external installation
- Air OFF sensor avoids cold air dumping
- Configurable air temperature control

*Rap valves required, see 100% fresh air duct function below.

System example

An inspection port (450 x 450 mm or more) is required at the lower side of the indoor unit body (field supply).



100% fresh air duct function

The E2 duct with 100% fresh air duct function have exceptional discharge temperature.

	Discharge Range		
	Min	**Max**	**Default**
Cooling	15 °C	24 °C	18 °C
Heating	17 °C	45 °C	40 °C

Plenums

Air outlet plenum (suitable for rigid + flexible duct)		
	Number of exits with diameters	Model
S-224ME2E5	1 x 500 mm	CZ-TREMIESPW705
S-280ME2E5	1 x 500 mm	CZ-TREMIESPW706

Kit for 100% fresh air function

Kit for 2 way systems	
2x CZ-P160RVK2	Rap valve kit
2x CZ-CAPE2	3 way control PCB
CZ-P680BK2BM	Distribution joint kit
	1x remote controller

Kit for 3 way systems	
2x CZ-P160HR3	3 way valve kit
2x CZ-CAPE2	3 way control PCB
CZ-P680BH2BM	Distribution joint kit
	1x remote controller

28% ECONAVI | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | OPTIONAL WI-FI | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

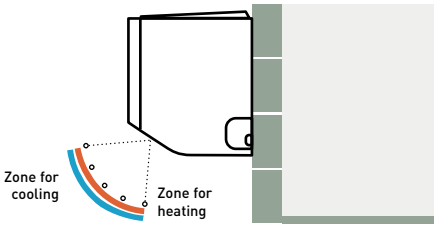
Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Wall-mounted with nanoe X Generator Mark 3

The K3 wall-mounted unit features the upgraded nanoe™ X (Generator Mark 3).

Modern design for any interior.
Its modern, flat design with a stylish matte white finish suits any interior, perfect for commercial projects.

Air distribution is automatically altered depending on the operational mode of the unit



Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making the installation work more flexible.

nanoe™ X as a standard.

K3 type wall-mounted · R32 / R410A

nanoe™ X (Generator Mark 3).
It's modern, flat design with a stylish matte white finish complements any interior, while improved fan serviceability ensures effortless maintenance.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-15MK3E	S-22MK3E	S-28MK3E	S-36MK3E	S-45MK3E	S-56MK3E	S-73MK3E	S-106MK3E
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6	7,3	10,6
Input power		W	15,00	18,00	19,00	20,00	25,00	40,00	55,00	80,00
Current		A	0,18	0,19	0,20	0,22	0,25	0,35	0,50	0,70
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3	8,0	10,6
Input power		W	15,00	18,00	19,00	20,00	25,00	40,00	55,00	80,00
Current		A	0,18	0,19	0,20	0,22	0,25	0,35	0,50	0,70
Fan type			Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Air flow	Cool (Hi/Med/Lo)	m³/min	6,8/6,3/5,5	9,0/8,0/7,0	9,5/8,5/7,0	10,5/9,0/7,5	11,5/10,0/7,5	15,0/14,0/13,0	19,0/17,0/14,0	22,0/18,0/14,0
	Heat (Hi/Med/Lo)	m³/min	6,8/6,3/5,5	9,0/8,0/7,0	10,0/8,5/7,0	10,5/9,0/7,5	11,5/10,0/7,5	15,0/14,0/13,0	19,0/17,0/14,0	22,0/18,0/14,0
Sound pressure	Hi/Med/Lo	dB(A)	31/29/28	32/30/29	33/31/29	35/32/29	38/33/29	40/38/35	47/44/40	50/45/40
Sound power	Hi/Med/Lo	dB(A)	46/44/43	47/45/44	48/46/44	50/47/44	53/48/44	55/53/50	62/59/55	65/60/55
Dimension	H x W x D	mm	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295x1060x249	295x1060x249	295x1060x249
Net weight		kg	12	12	12	12	12	14	14	14
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52) 1)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88) 1)	5/8 (15,88)

1) When the piping diameter is (liquid) Ø1/4 (6,35) - (gas) Ø1/2 (12,70), connect the liquid socket tube (Ø1/4 (6,35) - Ø3/8 (9,52)) to the liquid tubing side indoor unit and connect the gas socket tube (Ø1/2 (12,70) - Ø5/8 (15,88)) to the gas tubing side indoor unit.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3	Infrared remote controller

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor
CZ-P73SVK3	External valve for model sizes 15 to 73*
CZ-P106SVK3	External valve for model size 106
CZ-CGLSC2	Panasonic R32 refrigerant leak detector

*A 3/8" to 1/4" reducer is required when combining the S-73MK3E with ECOi EX R410A outdoor units (ME2 and MF3).

Technical focus

- Modern, flat design with a stylish matte white finish
- Quiet operation
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard
- Easy fan, front grill, and blow-off grill removal for easy maintenance
- Efficient installation with drain hose support holders and lock mechanism
- Piping outlet in six directions
- Air distribution is automatically altered depending on the operational mode

External valve (optional)

CZ-P73SVK3 (model sizes 15 to 73*).
CZ-P106SVK3 (model size 106).

*A 3/8" to 1/4" reducer is required when combining the S-73MK3E with ECOi EX R410A outdoor units (ME2 and MF3).

Efficient installation with drain hose support holders and lock mechanism

Easy connection and disconnection of the drain hose.
Locking mechanism between the drain tray and hose ensures a tight connection during installation and easy dismantling.

Built-in support holders for secure spacing.
Holds the indoor unit against the wall, providing clear access for setting up the drain hose and piping.

28% ECONAVI | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | OPTIONAL WI-FI | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

T2 type ceiling · R410A

The T2 type ceiling mounted units feature a DC fan motor for increased efficiency and reduced operating sound levels.
All the units are the same height and depth for a uniform appearance in mixed installations, and feature a fresh air knockout for improved air quality.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-36MT2E5A	S-45MT2E5A	S-56MT2E5A	S-73MT2E5A	S-106MT2E5A	S-140MT2E5A
Cooling capacity		kW	3,6	4,5	5,6	7,3	10,6	14,0
Input power		W	35,00	40,00	40,00	55,00	80,00	100,00
Current		A	0,36	0,38	0,38	0,44	0,67	0,79
Heating capacity		kW	4,2	5,0	6,3	8,0	11,4	16,0
Input power		W	35,00	40,00	40,00	55,00	80,00	100,00
Current		A	0,36	0,38	0,38	0,44	0,67	0,79
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi/Med/Lo	m³/min	14,0/12,0/10,5	15,0/12,5/10,5	15,0/12,5/10,5	21,0/18,0/15,5	30,0/25,0/23,0	32,0/28,0/24,0
Sound pressure	Hi/Med/Lo	dB(A)	36/32/30	37/33/30	37/33/30	39/35/33	42/37/36	46/40/37
Sound power	Hi/Med/Lo	dB(A)	54/50/48	55/51/48	55/51/48	57/53/51	60/55/54	62/58/55
Dimension	H x W x D	mm	235 x 960 x 690	235 x 960 x 690	235 x 960 x 690	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	27	27	27	33	40	40
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)

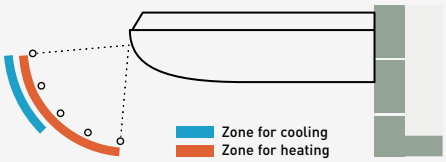
Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor

Technical focus

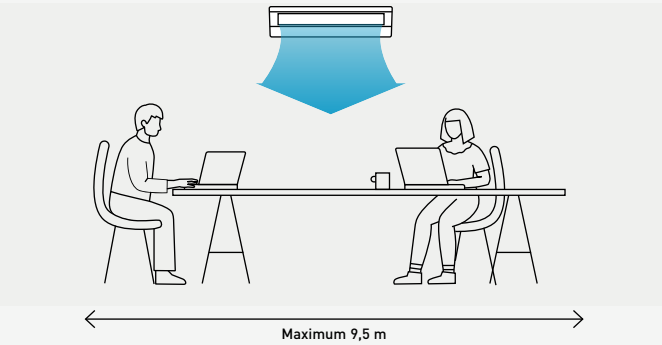
- Low sound levels
- All units just 235 mm high
- Large and wide air distribution
- Easy to install and maintain
- Fresh air knockout

Air distribution is altered depending on the operational mode



Further comfort improvement with air flow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.
The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, increasing the degree of comfort.



28% ECONAVI | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTO-FLAP CONTROL | AUTOMATIC RESTART | AIR SWEEP | OPTIONAL WI-FI | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

nanoe™ X as a standard.

G1 type floor console · R410A

The stylish and compact unit profile, also used for residential market range, is easy to integrate into any design of building.
Compact and versatile, this system is capable of being installed in an area with limited space. It is a perfect solution for retrofit, replacing existing radiator panels.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-22MG1E5N	S-28MG1E5N	S-36MG1E5N	S-45MG1E5N	S-56MG1E5N
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6
Input power		W	20,00	20,00	22,00	28,00	31,00
Current		A	0,20	0,20	0,23	0,25	0,28
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3
Input power		W	21,00	21,00	23,00	29,00	32,00
Current		A	0,20	0,20	0,24	0,26	0,28
Fan type			Cross flow	Cross flow	Cross flow	Cross flow	Cross flow
nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1	Mark 1
Air flow	Cool (Hi/Med/Lo)	m³/min	9,2/7,5/6,0	9,2/7,5/6,0	9,7/8,2/6,0	10,5/9,0/6,5	12,0/9,5/6,5
	Heat (Hi/Med/Lo)	m³/min	9,7/8,0/6,5	9,7/8,0/6,5	10,2/8,7/6,5	11,0/9,5/7,0	12,5/10,0/7,0
Sound pressure	Hi/Med/Lo	dB(A)	38/34/29	38/34/29	39/35/29	42/37/30	44/38/30
Dimension	H x W x D	mm	600 x 750 x 207	600 x 750 x 207	600 x 750 x 207	600 x 750 x 207	600 x 750 x 207
Net weight		kg	14	14	14	14	14
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)

*Infrared receiver is integrated with the unit as standard.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3*	Infrared remote controller

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotels rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor

1 nanoe™ X: Bringing nature's balance indoors

Panasonic's nanoe™ X technology brings nature's detergent – hydroxyl radicals – indoors to help improve protection 24/7 against several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen or hazardous substances.

2 Stylish and simple

· Clean and modern European design with slim depth
· Modern matt white color panel
· Washable air filter

The stylish and compact unit profile, also used for residential market range, is easy to integrate into any design of building.

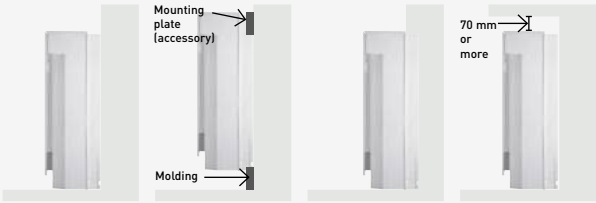
Dimension:
W x H x D = 750 x 600 x 207 mm

Weight:
14kg

3 Flexible easy installation

Four different mounting styles possible: exposed (floor or wall), semi-recessed and recessed.

Flexible installation with 4 different options.



Floor Installation | Wall Installation | Semi-recessed | Recessed

4 Functions for comfort

· Double Air Flow direction to maximize comfort
· Self-cleaning function
· Compatible with Commercial Wi-Fi Adaptor for cloud control

Self-cleaning function.

· Self cleaning function can be pre-scheduled with remote controller, up to a maximum of 90 minutes following cooling / dry operation
· Air flow will not blow directly at occupants during self-cleaning

28% ECONAVI | nanoeX | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | OPTIONAL WI-FI | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

NEW! P2 type floor-standing · R32 / R410A

NEW! R2 type concealed floor-standing · R32 / R410A

Optimised for efficiency and lower costs, with nanoe™ X for better air quality. Slim design (P1: 210 mm, R2: 200 mm) fits perimeter spaces, delivering powerful heating and cooling without compromising aesthetics.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

NEW

P2 indoor unit			S-22MP2E	S-28MP2E	S-36MP2E	S-45MP2E	S-56MP2E	S-71MP2E
R2 indoor unit			S-22MR2E	S-28MR2E	S-36MR2E	S-45MR2E	S-56MR2E	S-71MR2E
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6	7,1
Input power		W	24,00	24,00	40,00	44,00	49,00	57,00
Current		A	0,31	0,31	0,40	0,46	0,51	0,56
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3	8,0
Input power		W	26,00	26,00	42,00	51,00	56,00	64,00
Current		A	0,35	0,35	0,44	0,52	0,57	0,62
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Air flow	Hi/Med/Lo	m³/min	7,0/6,0/5,0	7,0/6,0/5,0	9,0/7,0/6,0	14,5/12,5/11,0	15,0/13,0/11,0	16,0/14,0/12,0
External static pressure		Pa	15	15	15	15	15	15
Sound pressure	Hi/Med/Lo	dB(A)	33/30/28	33/30/28	39/35/29	38/35/31	39/36/31	40/38/35
P2 dimension	H x W x D	mm	615 x 1060 x 210	615 x 1060 x 210	615 x 1060 x 210	615 x 1460 x 210	615 x 1460 x 210	615 x 1460 x 210
P2 net weight		kg	29	29	29	38	38	38
R2 dimension	H x W x D	mm	595 x 1060 x 200	595 x 1060 x 200	595 x 1060 x 200	595 x 1460 x 200	595 x 1460 x 200	595 x 1460 x 200
R2 net weight		kg	21	21	21	28	28	28
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function

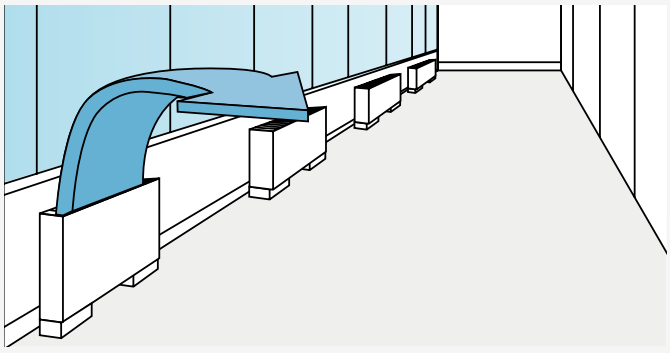
Accessories	
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black

P2/R2 Technical focus

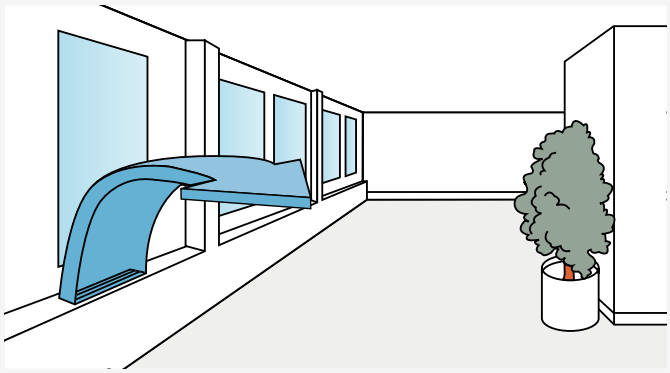
- nanoe™ X (Generator Mark 3) built-in
- Maximum 65%* improvement in cooling operation vs. conventional model with DC fan motor upgrade
- Pipes can be connected to either side of the unit from the bottom or rear
- Easy to install
- Removable air discharge grille gives flexible airflow (P2 only)
- Front panel opens fully for easy maintenance (P2 only)
- Room for condensate pump (P2 only)

*MP2 type 4,5 kW model.

Effective perimeter handling



Perimeter air conditioning with high interior quality



nanoeX · SELF-DIAGNOSING · AUTOMATIC FAN · HUMIDITY CONTROL DRY · AUTOMATIC RESTART · OPTIONAL WI-FI · BMS CONNECTIVITY

INTERNET CONTROL: Optional.

Hydrokit for ECOi, water at 45 °C · R410A

Connect the Hydrokit to your VRF system, together with other indoor units. Total system performs high energy efficiency through heat recovering operation, and it gives an advantage for sustainability related assessment methods, such as BREEAM in UK.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit				S-80MW1E5	S-125MW1E5
Power supply	Voltage		V	230	230
	Phase			Single phase	Single phase
	Frequency		Hz	50	50
Cooling capacity			kW	8,0	12,5
Heating capacity			kW	9,0	14,0
Maximum temperature			°C	~45/~65 [1]	~45/~65 [1]
Dimension	H x W x D		mm	892 x 502 x 353	892 x 502 x 353
Water pipe connector			Inch	R 1 ¼	R 1 ¼
Water pump (built-in)				DC motor (A class)	DC motor (A class)
Water flow rate	Cool		L/min	22,90	35,80
	Heat		L/min	25,80	40,10
Piping diameter	Liquid		Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Gas		Inch (mm)	5/8 (15,88)	5/8 (15,88)
	Drain		mm	15 ~ 17 (inner size)	15 ~ 17 (inner size)
Operation range	Cool	Ambient	°C	+10 ~ +43	+10 ~ +43
		Water	°C	+5 ~ +20	+5 ~ +20
	Heat	Ambient	°C	-20 ~ +43	-20 ~ +43
		Water	°C	+25 ~ +45	+25 ~ +45
Connectable system				3-Pipe ECOi EX MF3 Series (heat recovery type - system capable up to 48 HP)	
Maximum Indoor ratio (connectable hydrokit module capacity ratio)				Total indoor unit + Hydrokit capacity: up to 130% (**~ **% vs total outdoor unit capacity)	

1) Maximum 45 °C by refrigerant circuit (heat pump cycle), over 45 °C is provided by electric heater operation.

Accessories	
CZ-RTC5B	Wired remote controller with Econavi function

Basic principle and advantage.

Hydrokit module provides hot water by using waste heat that is recovered from standard air-conditioning indoor unit in cooling mode.

Technical focus

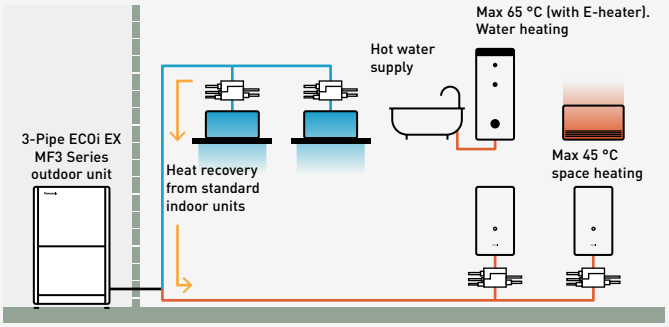
- Only with 3-Pipe ECOi EX MF3 Series outdoor units
- Remote controller CZ-RTC5B common use with DX coil indoor units PACi and ECOi

Hydrokit control function / CZ-RTC5B

- CZ-RTC5B can be used for hydrokit and also normal indoor unit. CZ-RTC5B checks the type of connected unit and switches between hydrokit and air conditioner display automatically
- Hydrokit mode (tank or air conditioning mode) is set during initial startup

Overview: hydromodule in VRF system

- Multiple hydromodule connection in same circuit is available
- The mode of each module can be individually set from either hot water or space heating / cooling (once set the units cannot operate in another mode, resetting will be required)
- 3-Pipe control solenoid valve kit is necessary for each indoor unit and hydromodule



*Cold water also available.

Water heat exchanger for hydronic applications

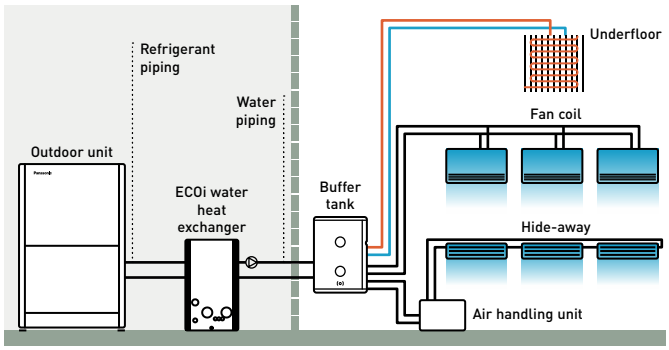
Panasonic water heat exchanger available with ECOi systems. Those are suitable not only for new projects but also for the old chiller systems to be replaced.

ECOi water heat exchanger

Electrical VRF with water heat exchanger

· With this easy to install water heat exchanger unit, you can now cover projects up to 51 kW hot water demand or 44 kW on chilled application in an efficient and cost effective way

System example.



A buffer tank of minimum 280 l for 28 kW and 500 l for 50 kW is always needed.

2-Pipe ECOi EX ME2 Series with water heat exchanger for chilled and hot water production · R410A

Water heat exchanger (WHE) for hydronic applications.
WHE for ECOi EX systems controlled by a CZ-RTC5B timer remote control.
Energy efficient capacity control with superior external static pressure is now ready.
Availability of easy vertical stacking allows installations in a limited space (up to 3 units)*.
Stainless steel plate heat exchanger with anti-freeze protection control.
Change over between heating and cooling operation.

*Stacking kit (PAW-3WSK) is necessary.

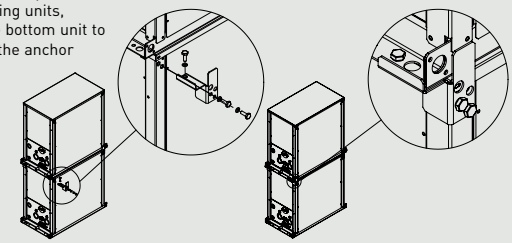
Hydrokit with A class water pump			PAW-250WP5G1	PAW-500WP5G1
Hydrokit without pump			PAW-250W5G1	PAW-500W5G1
Cooling capacity (A 35 °C, W 7 °C)		kW	25,0	50,0
Heating capacity		kW	28,0	56,0
Heating capacity (A +7 °C, W 45 °C)		kW	28,0	56,0
COP (A +7 °C, W 45 °C)		W/W	2,97	3,10
Energy efficiency class at 35 °C 1)			**A++**	**A++**
$\eta_{s,h}$ (LOT1) 2)			**152,0%**	**152,0%**
Dimension	H x W x D	mm	1000 x 575 x 1110	1000 x 575 x 1110
Net weight		kg	135 (140 with pump)	155 (165 with pump)
Water pipe connector			Rp2 Female thread (50A)	Rp2 Female thread (50A)
Heating water flow (ΔT=5 K. 35 °C)		m³/h	5,16	10,32
Electric backup heater		kW	Not equipped	Not equipped
Flow switch			Equipped	Equipped
Water filter			Equipped	Equipped
Input power with A class water pump / without pump		kW	0,329 / 0,024	0,574 / 0,024
Maximum current with A class water pump / without pump		A	1,43 / 0,10	2,50 / 0,10
Outdoor unit			**U-10ME2E8**	**U-20ME2E8**
Sound pressure		dB(A)	56	60
Dimension	H x W x D	mm	1842 x 770 x 1000	1842 x 1540 x 1000
Net weight		kg	210	375
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	5/8 (15,88)
	Gas	Inch (mm)	7/8 (22,22)	1-1/8 (28,58)
Pipe length range / Pipe length for nominal capacity		m	170 / 7,5	170 / 7,5
Elevation difference (in / out)		m	50 (OU above) 35 (OU below)	50 (OU above) 35 (OU below)
Pre-charged pipe length / Additional gas amount (R410A)		m / g/m	0 < / Refer to manual	0 < / Refer to manual
Refrigerant (R410A) / CO_2 Eq.		kg	5,6 (need additional gas amount at site)	9,5 (need additional gas amount at site)
Operating range	Heat Min ~ Max	°C	-11 ~ +15 3)	-11 ~ +15 3)
Water outlet temperature range	Cool Min ~ Max	°C	+5 ~ +15	+5 ~ +15
	Heat Min ~ Max	°C	+35 ~ +45	+35 ~ +45

1) Unit efficiency energy level: Scale from A+++ to D. 2) Seasonal space cooling / heating energy efficiency following COMMISSION REGULATION (EU) 813/2013. 3) With accessory low temperature kit -25 ~ +15 °C. Available only as a spare part.

Performance calculation in agreement with Eurovent. Sound pressure measured at 1 m from the outdoor unit and at 1,5 m height.

Accessories	
PAW-3WSK	Stacking kit for vertically stacking up to 3 WHE (4 pieces per Kit)

Stacking kit PAW-3WSK.
It is possible to stack up to 3 units. When stacking units, always anchor the bottom unit to the ground using the anchor holes.



Technical focus

- Heating, cooling and DHW
- A class water pump included (only in P model)
- Flexible modularity from 25 kW
- Better partial load vs standard chiller system
- Compatible with all centralized controllers
- Maximum distance between outdoor unit and WHE: 170 m
- Maximum hot water outlet temperature: 45 °C
- Minimum chilled water outlet temperature: 5 °C
- Outdoor temperature range in heating mode: -11 °C to +15 °C (with low temperature kit -25 °C*)

*Available as a spare part.

INVERTER+ | 5 YEARS COMPRESSOR WARRANTY

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

AHU connection kit MAH4M for ECOi 2-Pipe · R32

- Space-saving compact casing
- Direct Modbus communication without the need for an additional interface
- Accurate control with a pressure transducer
- PAW-P+100MAH4M (H x W x D): 300 x 400 x 150 mm, 11 kg

R32

Built-in controller.

ECO i EX ECO i

AHU kit PAW-P+100MAH4M			4 HP	5 HP	6 HP	8 HP LZ2	8 HP MZ1	10 HP LZ2	10 HP MZ1	12 HP
AHU connection kit			116EEVPACK	116EEVPACK	116EEVPACK	116EEVPACK	116EEVPACK	133EEVPACK	133EEVPACK	133EEVPACK
Outdoor unit			U-4LZ2E5(8)	U-5LZ2E5(8)	U-6LZ2E5(8)	U-8LZ2E8	U-8MZ1E8	U-10LZ2E8	U-8MZ1E8	U-10MZ1E8
Nominal cooling capacity		kW	12,0	14,0	16,0	22,4	22,4	28,0	28,0	33,5
Nominal heating capacity		kW	12,5	16,0	17,0	25,0	25,0	28,0	31,5	37,5
Minimum cooling continuous [1]		kW	6,6	6,6	6,6	6,6	6,6	10,7	10,7	10,7
Minimum heating continuous [2]		kW	7,4	7,4	7,4	7,4	7,4	12,1	12,1	12,1
Air flow volume	Min	m³/h	1100	1100	1100	1700	1700	2000	2000	2000
	Max	m³/h	4000	5000	5000	8000	10000	8600	10000	10000
AHU DX coil heat exchanger volume	Min	dm³	1,5	1,5	1,5	2,0	2,0	2,0	2,0	2,0
	Max	dm³	5,5	6,3	7,0	7,0	8,5	7,0	10,0	12,0
Piping length	Min / Max	m	10/60	10/60	10/60	10/70	10/100	10/70	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10	10	10
Piping connections EEV		mm	8	8	8	10	10	10	10	10
Piping diameter branch pipe	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)	3/4 (19,05)	7/8 (22,22)	3/4 (19,05)	7/8 (22,22)
On coil temperature	Cool Min ~ Max	°C DB	12/32	12/32	12/32	12/32	12/32	12/32	12/32	12/32
		°C WB	8~25	8~25	8~25	8~25	8~25	8~25	8~25	8~25
	Heat Min ~ Max	°C DB	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10~52	-10~52	-10~52	-10~52	-10~50	-10~52	-10~50	-10~50
	Heat Min ~ Max	°C WB	-20~18	-20~18	-20~18	-20~18	-25~24 [4]	-20~18	-25~24 [4]	-25~24 [4]

1) At rated condition with 35 °C DB outdoor and 27 °C DB / 19 °C WB on coil. 2) At rated condition with 7 °C DB / 6 °C WB outdoor and 20°C DB on coil. 3) In case of on coil temperature of 5 °C or below and of 31 °C and above air flow would be restricted. 4) In case of on coil temperature > +18 °C WB in heating mode, intermittent operation could happen.

Technical focus

- Maximum capacity / system: 48 HP (134 kW*)
- Selectable expansion valve packs depending on the capacity
- DC 12 V outlet available without optional interface
- Maximum elevation difference indoor/outdoor unit: 10 m
- Elevation difference (indoor unit / indoor unit): 4 m
- In / out connection capacity ratio: 50~100%
- Maximum number of AHU connection kits: 1 unit
- Outdoor temperature range in heating: -20~+15 °C
- Available temperature range for the suction air at AHU connection kit: cool: +18~+32 °C / heat: +16~+30 °C
- The system's set temperature can be selected either as the default setting discharge air temperature (supply room temperature) or the suction air set temperature (or room return air temperature)
- Accurate control with a pressure transducer
- Direct Modbus communication with a built-in Modbus S-Link interface
- Various technical parameters available with Modbus
- SG Ready fulfilled. Demand input can be set Thermostat OFF or 40~200% by the user
- Defrost operation signal, compressor status ON / OFF output
- Display an error message concerning drain water overflow
- Connectable with S-Link system. Special care for electrical noise may be necessary depending on the on-site system
- Fan control signal output to manage the air flow (ON / OFF)
- Alarm status monitoring output

*Nominal cooling capacity.

Accessories	
PAW-P+102SENSPACK	AHU connection kit sensor pack 1 (2 pcs of SENSOR PT1000 HT IP67 -50/250 CABLE 6 m PCK)
PAW-P+116EEVPACK	EEV pack 1 (1 pc of expansion valve ≤ 16,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+133EEVPACK	EEV pack 2 (1 pc of expansion valve ≤ 33,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+145EEVPACK	EEV pack 3 (1 pc of expansion valve ≤ 45,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)

Accessories	
PAW-P+156EEVPACK	EEV pack 4 (1 pc of expansion valve ≤ 61,5 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+174EEVPACK	EEV pack 5 (1 pc of expansion valve ≤ 96,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+100PGNEPACK	Remote control pack (1 pc of PGNE 132 x 64 mm, mounting panel and 1 pc of cable L= 1,5 m, telephone connectors)

R32

AHU connection kit MAH4M for ECOi 2-Pipe combination from 16 to 48 HP · R32

Built-in controller.

AHU kit PAW-P+100MAH4M			16 HP	18 HP	20 HP	22 HP	24 HP	26 HP	28 HP	30 HP
AHU connection kit			145EEVPACK	145EEVPACK	145EEVPACK	145EEVPACK	156EEVPACK	156EEVPACK	156EEVPACK	174EEVPACK
Outdoor unit			2×U-8MZ1E8	U-8MZ1E8 + U-10MZ1E8	2×U-10MZ1E8	U-10MZ1E8 + U-12MZ1E8	2×U-12MZ1E8	2×U-8MZ1E8 + U-10MZ1E8	U-8MZ1E8 + 2×U-10MZ1E8	3×U-10MZ1E8
Multi combination			8+8	8+10	10+10	10+12	12+12	8+8+10	8+10+10	10+10+10
Nominal cooling capacity		kW	44,8	50,4	56,0	61,5	67,0	72,8	78,4	84,0
Nominal heating capacity		kW	50,0	56,5	63,0	69,0	75,0	81,5	88,0	94,5
Minimum cooling continuous [1]		kW	15,9	15,9	15,9	15,9	23,3	23,3	23,3	32,8
Minimum heating continuous [2]		kW	18,0	18,0	18,0	18,0	26,3	26,3	26,3	37,1
Air flow volume	Min	m³/h	3400	3700	4000	4000	4000	5400	5700	6000
	Max	m³/h	16000	20000	20000	20000	20000	24000	26000	30000
AHU DX coil heat exchanger volume	Min	dm³	4,0	4,0	4,0	4,0	4,0	6,0	6,0	6,0
	Max	dm³	15,0	18,0	20,0	22,0	24,0	27,0	28,5	30,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10	10	10
Piping connections EEV		mm	10	10	10	10	16	16	16	7/8"
Piping diameter branch pipe	Liquid	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)
	Gas	Inch (mm)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 3/8 (34,98)
On coil temperature	Cool Min ~ Max	°C DB	12~32	12~32	12~32	12~32	12~32	12~32	12~32	12~32
		°C WB	8~25	8~25	8~25	8~25	8~25	8~25	8~25	8~25
	Heat Min ~ Max	°C DB	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50
	Heat Min ~ Max	°C WB	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]

AHU kit PAW-P+100MAH4M			32 HP	34 HP	36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
AHU connection kit			174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK
Outdoor unit			2×U-10MZ1E8 + U-12MZ1E8	U-10MZ1E8 + 2×U-12MZ1E8	3×U-12MZ1E8	U-8MZ1E8 + 3×U-10MZ1E8	4×U-10MZ1E8	3×U-10MZ1E8 + U-12MZ1E8	2×U-10MZ1E8 +2×U-12MZ1E8	U-10MZ1E8 + 3×U-12MZ1E8	4×U-12MZ1E8
Multi combination			10+10+12	10+12+12	12+12+12	8+10+10+10	10+10+10+10	10+10+10+12	10+10+12+12	10+12+12+12	12+12+12+12
Nominal cooling capacity		kW	89,5	95,0	100,0	106,0	112,0	117,0	123,0	128,0	134,0
Nominal heating capacity		kW	100,0	106,0	112,0	119,0	126,0	132,0	138,0	144,0	150,0
Minimum cooling continuous [1]		kW	32,8	32,8	32,8	32,8	32,8	32,8	32,8	32,8	32,8
Minimum heating continuous [2]		kW	37,1	37,1	37,1	37,1	37,1	37,1	37,1	37,1	37,1
Air flow volume	Min	m³/h	6000	6000	6000	7700	8000	8000	8000	8000	8000
	Max	m³/h	30000	30000	30000	34000	36000	38000	40000	40000	40000
AHU DX coil heat exchanger volume	Min	dm³	6,0	6,0	6,0	8,0	8,0	8,0	8,0	8,0	8,0
	Max	dm³	32,0	34,0	36,0	38,0	40,0	42,0	44,0	46,0	48,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10	10	10	10
Piping connections EEV		mm	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Piping diameter branch pipe	Liquid	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
	Gas	Inch (mm)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)
On coil temperature	Cool Min ~ Max	°C DB	12~32	12~32	12~32	12~32	12~32	12~32	12~32	12~32	12~32
		°C WB	8~25	8~25	8~25	8~25	8~25	8~25	8~25	8~25	8~25
	Heat Min ~ Max	°C DB	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50
	Heat Min ~ Max	°C WB	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]

1) At rated condition with 35 °C DB outdoor and 27 °C DB / 19 °C WB on coil. 2) At rated condition with 7 °C DB / 6 °C WB outdoor and 20°C DB on coil. 3) In case of on coil temperature of 5 °C or below and of 31 °C and above air flow would be restricted. 4) In case of on coil temperature > +18 °C WB in heating mode, intermittent operation could happen.

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

AHU connection kit MAH4M for ECOi 2-Pipe · R410A

- Space-saving compact casing
- Direct Modbus communication without the need for an additional interface
- Accurate control with a pressure transducer
- PAW-P+100MAH4M (H x W x D): 300 x 400 x 150 mm, 11 kg

Built-in controller.

ECO i EX ECO i

AHU kit PAW-P+100MAH4M			4 HP	5 HP	6 HP	8 HP LE1	8 HP ME2	10 HP LE1
AHU connection kit			116EEVPACK	116EEVPACK	116EEVPACK	133EEVPACK	133EEVPACK	133EEVPACK
Outdoor unit			U-4LE2E5(8)	U-5LE2E5(8)	U-6LE2E5(8)	U-8LE1E8	U-8ME2E8	U-10LE1E8
Nominal cooling capacity		kW	12,0	14,0	16,0	22,4	22,4	28,0
Nominal heating capacity		kW	12,5	16,0	17,0	25,0	25,0	31,5
Minimum cooling continuous [1]		kW	4,3	4,3	4,3	7,0	7,0	7,0
Minimum heating continuous [2]		kW	5,0	5,0	5,0	8,1	8,1	8,1
Air flow volume	Min	m³/h	1100	1100	1100	1700	1700	2000
	Max	m³/h	4000	5000	5000	8000	10000	8600
AHU DX coil heat exchanger volume	Min	dm³	1,5	1,5	1,5	2,0	2,0	2,0
	Max	dm³	5,5	6,3	7,0	7,0	10,0	7,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10
Piping connections EEV		mm	8	8	8	10	10	10
Piping diameter branch pipe	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)	3/4 (19,05)	7/8 (22,22)
On coil temperature	Cool Min ~ Max	°C DB	12/32	12/32	12/32	12/32	12/32	12/32
		°C WB	8/25	8/25	8/25	8/25	8/25	8/25
	Heat Min ~ Max	°C DB	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10/46	-10/46	-10/46	-10/46	-10/46	-10/46
	Heat Min ~ Max	°C WB	-20/18	-20/18	-20/18	-20/18	-25/18	-20/18

AHU kit PAW-P+100MAH4M			10 HP ME2	12 HP	14 HP	16 HP	18 HP	20 HP
AHU connection kit			133EEVPACK	133EEVPACK	145EEVPACK	145EEVPACK	145EEVPACK	156EEVPACK
Outdoor unit			U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-18ME2E8	2×U-10ME2E8
Nominal cooling capacity		kW	28,0	33,5	40,0	45,0	50,0	56,0
Nominal heating capacity		kW	31,5	37,5	45,0	50,0	56,0	63,0
Minimum cooling continuous [1]		kW	7,0	7,0	10,4	10,4	10,4	15,3
Minimum heating continuous [2]		kW	8,1	8,1	12,0	12,0	12,0	17,5
Air flow volume	Min	m³/h	2000	2000	3500	3500	5000	5000
	Max	m³/h	10000	10000	12000	12000	20000	20000
AHU DX coil heat exchanger volume	Min	dm³	2,0	3,0	3,0	4,0	4,0	4,0
	Max	dm³	10,0	17,0	17,0	17,0	19,0	19,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10
Piping connections EEV		mm	10	10	10	10	10	16
Piping diameter branch pipe	Liquid	Inch (mm)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)
	Gas	Inch (mm)	7/8 (22,22)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)
On coil temperature	Cool Min ~ Max	°C DB	12/32	12/32	12/32	12/32	12/32	12/32
		°C WB	8/25	8/25	8/25	8/25	8/25	8/25
	Heat Min ~ Max	°C DB	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10/46	-10/46	-10/46	-10/46	-10/46	-10/46
	Heat Min ~ Max	°C WB	-25/18	-25/18	-25/18	-25/18	-25/18	-25/18

1) At rated condition with 35 °C DB outdoor and 27 °C DB / 19 °C WB on coil. 2) At rated condition with 7 °C DB / 6 °C WB outdoor and 20°C DB on coil. 3) In case of on coil temperature of 5 °C or below and of 31 °C and above air flow would be restricted.

AHU connection kit MAH4M for ECOi 2-Pipe combination from 22 to 34 HP · R410A

Built-in controller.

AHU kit PAW-P+100MAH4M			22 HP	24 HP	26 HP	28 HP	30 HP	32 HP	34 HP
AHU connection kit			156EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK
Outdoor unit			U-10ME2E8 + U-12ME2E8	2×U-12ME2E8	U-10ME2E8 + U-16ME2E8	U-12ME2E8 + U-16ME2E8	U-14ME2E8 + U-16ME2E8	2×U-16ME2E8	U-14ME2E8 + U-20ME2E8
Multi combination			10+12	12+12	10+16	12+16	14+16	16+16	14+20
Nominal cooling capacity		kW	61,5	68,0	73,0	78,5	85,0	90,0	96,0
Nominal heating capacity		kW	69,0	76,5	81,5	87,5	95,0	100,0	108,0
Minimum cooling continuous 1)		kW	15,3	21,5	21,5	21,5	21,5	21,5	21,5
Minimum heating continuous 2)		kW	17,5	24,7	24,7	24,7	24,7	24,7	24,7
Air flow volume	Min	m³/h	6000	6000	6000	6000	7000	7000	8500
	Max	m³/h	24000	24000	24000	25000	25000	25000	30000
AHU DX coil heat exchanger volume	Min	dm³	5,0	6,0	6,0	6,0	6,0	6,0	7,0
	Max	dm³	27,0	34,0	27,0	34,0	34,0	34,0	36,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10	10
Piping connections EEV		mm	16	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Piping diameter branch pipe	Liquid	Inch (mm)	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)	3/4 (19,05)	3/4 (19,05)	3/4 (19,05)	3/4 (19,05)
	Gas	Inch (mm)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/4 (31,75)	1 1/4 (31,75)	1 1/4 (31,75)	1 1/4 (31,75)	1 1/4 (31,75)
On coil temperature	Cool Min ~ Max	°C DB	12/32	12/32	12/32	12/32	12/32	12/32	12/32
		°C WB	8/25	8/25	8/25	8/25	8/25	8/25	8/25
	Heat Min ~ Max	°C DB	0/32 3)	0/32 3)	0/32 3)	0/32 3)	0/32 3)	0/32 3)	0/32 3)
Outdoor temperature	Cool Min ~ Max	°C DB	-10/46	-10/46	-10/46	-10/46	-10/46	-10/46	-10/46
	Heat Min ~ Max	°C WB	-25/18	-25/18	-25/18	-25/18	-25/18	-25/18	-25/18

1) At rated condition with 35 °C DB outdoor and 27 °C DB / 19 °C WB on coil. 2) At rated condition with 7 °C DB / 6 °C WB outdoor and 20°C DB on coil. 3) In case of on coil temperature of 5 °C or below and of 31 °C and above air flow would be restricted.

Accessories	
PAW-P+102SENSPACK	AHU connection kit sensor pack 1 (2 pcs of SENSOR PT1000 HT IP67 -50/250 CABLE 6 m PCK)
PAW-P+116EEVPACK	EEV pack 1 (1 pc of expansion valve ≤ 16,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+133EEVPACK	EEV pack 2 (1 pc of expansion valve ≤ 33,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+145EEVPACK	EEV pack 3 (1 pc of expansion valve ≤ 45,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)

Accessories	
PAW-P+156EEVPACK	EEV pack 4 (1 pc of expansion valve ≤ 61,5 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+174EEVPACK	EEV pack 5 (1 pc of expansion valve ≤ 96,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+100PGNEPACK	Remote control pack (1 pc of PGNE 132 x 64 mm, mounting panel and 1 pc of cable L= 1,5 m, telephone connectors)

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Advanced energy recovery ventilation - ZY Series

- Extended 9 model line-up including 2000 m³/h model
- DC motors
- ESP up to 150 Pa
- F7 grade filter built-in as a standard
- Intuitive remote controller
- BMS integration with RS485

Rated flow rate			150 m³/h	250 m³/h	350 m³/h	500 m³/h	650 m³/h	800 m³/h	1000 m³/h	1500 m³/h	2000 m³/h
Indoor unit			**FV-15ZY1G**	**FV-25ZY1G**	**FV-35ZY1G**	**FV-50ZY1G**	**FV-65ZY1G**	**FV-80ZY1G**	**FV-1KZY1G**	**FV-1HZY1G**	**FV-2KZY1G**
Power supply	Voltage	V	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50
Motor type			DC	DC	DC	DC	DC	DC	DC	DC	DC
ERV											
Air flow	Max	m³/h	150	250	350	500	650	800	1000	1500	2000
External static pressure	Max	Pa	100	120	140	130	150	150	150	130	130
Sound pressure 2)	Max	dB(A)	37	38	39	43	45	45	46	49	51
Input power	Max	W	76 ~ 84	106 ~ 117	141 ~ 155,5	180 ~ 198	420 ~ 462	470 ~ 517	550 ~ 605	940 ~ 1034	1100 ~ 1210
Heat exchange efficiency 3)											
Cooling	Max	%	68,0	69,0	71,0	65,0	64,0	63,0	65,0	63,0	65,0
Heating	Max	%	83,0	82,0	83,0	81,0	82,0	83,0	82,0	83,0	82,0
Enthalpy exchange efficiency											
Cooling	Max	%	66,0	66,0	67,0	62,5	62,5	63,5	63,0	63,5	63,0
Heating	Max	%	76,0	74,0	75,0	73,0	72,0	73,0	74,0	73,0	74,0
Adapter diameter		mm	100	150	150	200	200	250	250	250	250
Dimension	H x W x D	mm	289 x 610 x 860	289 x 735 x 860	331 x 874 x 968	331 x 1016 x 968	404 x 954 x 1008	404 x 1004 x 1224	404 x 1231 x 1224	808 x 1004 x 1224	808 x 1231 x 1224
Net weight		kg	23	27	37	40	48	60	64	119	142

1) Different dimensions depending on models. 2) Measurement of noise 1,5 m below the center of the main unit (anechoic chamber). 3) Heat exchange efficiency measurement standard JIS B 8628 (2003).
*JIS B 8628 (2017) is used in the measurement environment. *A remote controller is included.

Accessories	
FV-FP15ZY1G	Replacement high-efficiency filter for FV-15ZY1G
FV-FP25ZY1G	Replacement high-efficiency filter for FV-25ZY1G
FV-FP35ZY1G	Replacement high-efficiency filter for FV-35ZY1G
FV-FP50ZY1G	Replacement high-efficiency filter for FV-50ZY1G

Accessories	
FV-FP65ZY1G	Replacement high-efficiency filter for FV-65ZY1G
FV-FP80ZY1G	Replacement high-efficiency filter for FV-80ZY1G and FV-1HZY1G 1)
FV-FP1KZY1G	Replacement high-efficiency filter for FV-1KZY1G and FV-2KZY1G 1)
PAW-ERV-IAQCT	IAQ Controller

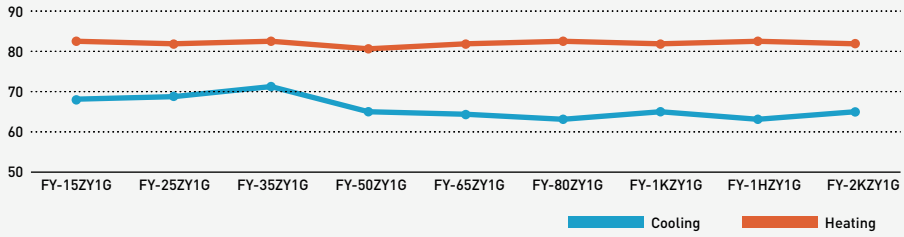
1) 2 sets of filters required for those models.

Recovers up to 83% of the heat in the outgoing air

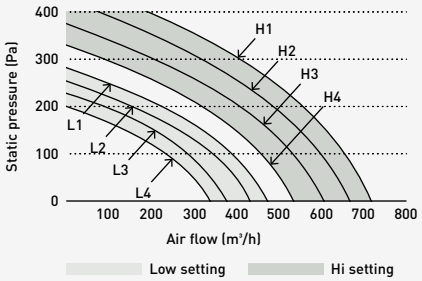
ZY Series achieves more than 80% of heat exchange efficiency in all the line-up 1). The high recovery rate optimizes operation cost and can be considered as a sustainable solution.

1) Heating operation, H1 speed setting.

Heat exchange efficiency (%).



Ventilation volume setting PQ curve example.

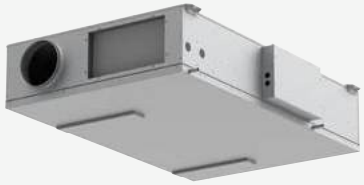


Easy adjust for air volume balance

DC motors are equipped with independent control settings for air supply and exhaust. Air volume balance can be easily adjusted with 4 speeds settings for each Hi / Low operation.

Intuitive remote controller with RS485 connection.

- Simple and clean screen with white back light panel
- RS485 terminal equipped to integrate with Building Management Systems
- Metal switch box is included in the package



Energy recovery ventilation with DX coil - HRPT Series · R32 / R410A

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit with high-efficiency heat exchanger			PAW-HRPT40HX		PAW-HRPT80HX		PAW-HRPT120HX		PAW-HRPT160HX		PAW-HRPT200HX	
Power supply	Voltage	V	230		230		230		230		380	
	Phase		Single phase		Single phase		Single phase		Single phase		Three phase	
	Frequency	Hz	50		50		50		50		50	
Heat recovery ventilation [1]			**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**
Temperature efficiency		%	63,4	76,7	60,0	73,5	61,4	75,0	62,2	76,0	59,4	73,2
Enthalpy efficiency		%	52,3	53,2	47,8	49,2	49,5	50,7	50,0	51,2	46,8	48,3
Weight		kg	70		114		150		184		194	

Indoor unit with sensible heat exchanger			PAW-HRPT40		PAW-HRPT80		PAW-HRPT120		PAW-HRPT160		PAW-HRPT200	
Power supply	Voltage	V	230		230		230		230		380	
	Phase		Single phase		Single phase		Single phase		Single phase		Three phase	
	Frequency	Hz	50		50		50		50		50	
Heat recovery ventilation [1]			**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**
Temperature efficiency		%	84,6	84,9	84,3	84,7	84,8	85,2	84,7	85,1	83,8	84,2
Weight		kg	66		110		145		180		190	

Common data												
DX coil [2]			**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**
Total / Sensible capacity		kW	3,0 / 2,4	3,2	6,0 / 4,1	6,2	8,0 / 5,5	8,3	10,0 / 7,1	11,0	12,5 / 8,6	12,8
Maximum input current		A	1,5		2,2		4,1		4,4		3,3	
Sound pressure @1 m / @3 m		dB(A)	41 / 35		51 / 43		42 / 36		49 / 41		57 / 49	
Air flow	Nominal	m³/h	400		800		1200		1600		2000	
External static pressure	High	Pa	150		150		150		150		150	
Dimension	H x W x D	mm	286 x 1003 x 1475		425 x 1226 x 1878		425 x 1628 x 1878		425 x 2030 x 1720		425 x 2030 x 1878	
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)		1/4 (6,35)		3/8 (9,52)		3/8 (9,52)		3/8 (9,52)	
	Gas	Inch (mm)	1/2 (12,70)		1/2 (12,70)		5/8 (15,88)		5/8 (15,88)		5/8 (15,88)	

1) Data refers to the following conditions (UNI EN 13141-7): nominal air flow, heating external air 5 °C with 72% r. / expelled air 25 °C with 28% r. - cooling 35 °C with 40% / expelled air 27 °C with 48%. 2) Data refers to the following conditions: nominal air flow, cooling inlet coil summer 27 °C with 48% / heating inlet coil winter 20 °C with 50% r. *Image is for PAW-HRPT40.

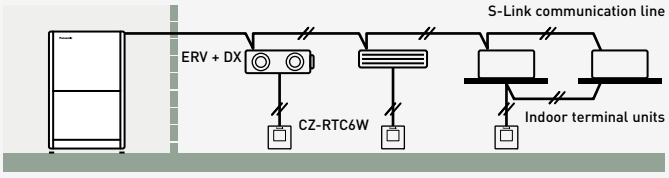
Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function

Accessories	
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black

Technical focus

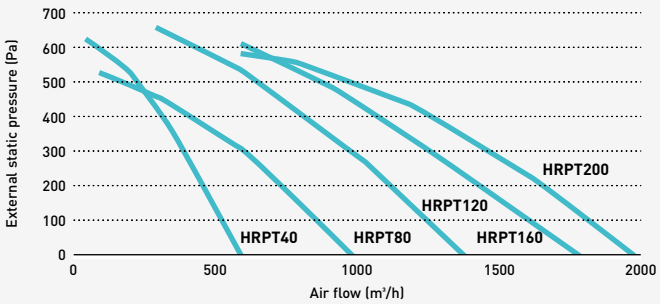
- Dual flow ventilation with EC fan, featuring high-efficiency heat recovery (>85% η)
- 5 model line-up is available with air flow rates of 400, 800, 1200, 1600 and 2000 m³/h
- 2 types of polystyrene heat exchanger (high-efficiency and sensible) with counter-current flows and integrated bypass as standard
- Automatic defrosting of the exchanger
- Low consumption and EC motors with electronic speed control ensure high useful static pressure for circular inlet connection to air ducts
- Wide ambient temperature range up to +50 °C and down to -15 °C
- Modbus connection available

Interconnection to outdoor / indoor units



Aeraulic performance

EC motors with electronic speed control ensure high values of effective static pressure for ducting.



AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | BMS CONNECTIVITY

Rating conditions: Cooling indoor 27 °C DB / 19 °C WB. Cooling outdoor 35 °C DB / 24 °C WB. Heating indoor 20 °C DB. Heating outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

NEW! Air curtain with DX coil, connected to ECOi 2-Pipe

- Advanced defrost control without disrupting the air curtain effect or causing cold drafts
- Three installation options: suspended, cassette, or built-in
- Quiet operation

*Includes two remote controllers: a touch screen remote controller and an intelligent built-in controller for setup.

Touch screen remote controller*.

Air outlet height 2,8 m			PAW-M2-100R	PAW-M2-150R	PAW-M2-200R	PAW-M2-250R
Outdoor unit minimum size			**4 HP**	**5 HP**	**8 HP**	**10 HP**
Cooling capacity [1]	Max	kW	7,6	12,0	16,3	20,5
Heating capacity [2]	Max	kW	9,4	15,0	20,7	25,6
Air flow	High	m³/h	1800	2700	3600	4500
Heat Exchanger	Volume	L	1,60	2,80	3,90	5,10
Electric consumption fan	230 V / 50 Hz	kW	0,33	0,50	0,66	0,83
Current	230 V / 50 Hz	A	2,40	3,60	4,80	6,00
Sound pressure [3]	Max	dB(A)	56	57	58	59
Dimension	H x W x D (x D [4])	mm	300 x 1000 x 750 (x 890)	300 x 1500 x 750 (x 890)	300 x 2000 x 750 (x 890)	300 x 2500 x 750 (x 890)
Net weight		kg	61	74	96	138
Fan type			EC	EC	EC	EC
Piping diameter [5]	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	1/2 (12,70) / 7/8 (22,22)
Door width		m	1,0	1,5	2,0	2,5
Refrigerant			R32 / R410A	R32 / R410A	R32 / R410A	R32 / R410A

Tentative data

Air outlet height 3,2 m			PAW-M3-100R	PAW-M3-150R	PAW-M3-200R	PAW-M3-250R
Outdoor unit minimum size			**4 HP**	**6 HP**	**10 HP**	**10 HP**
Cooling capacity [1]	Max	kW	10,0	13,8	21,7	25,2
Heating capacity [2]	Max	kW	11,4	17,0	25,7	30,2
Air flow	High	m³/h	2400	3200	4900	5700
Heat Exchanger	Volume	L	1,60	2,80	3,90	5,10
Electric consumption fan	230 V / 50 Hz	kW	0,50	0,66	0,99	1,16
Current	230 V / 50 Hz	A	3,60	4,80	7,20	8,40
Sound pressure [3]	Max	dB(A)	58	59	60	61
Dimension	H x W x D (x D [4])	mm	300 x 1000 x 750 (x 890)	300 x 1500 x 750 (x 890)	300 x 2000 x 750 (x 890)	300 x 2500 x 750 (x 890)
Net weight		kg	65	78	104	145
Fan type			EC	EC	EC	EC
Piping diameter [5]	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	1/2 (12,70) / 7/8 (22,22)	1/2 (12,70) / 7/8 (22,22)
Door width		m	1,0	1,5	2,0	2,5
Refrigerant			R32 / R410A	R32 / R410A	R32 / R410A	R32 / R410A

1) Minimum discharge temperature of 17 °C. With an air intake temperature of 27 °C RH 50%, evaporation temperature of 4,5 °C, SH 3 K, SC 20 K. 2) Air intake temperature of 20 °C, refrigerant R32, outside temperature –0 °C, condensation temperature 48 °C, SH 40 K and SC 3 K. 3) Measured in distance from 3,0 m. 4) Depth including brackets for cassette mounting and built-in models. For built-in model height changes + 100 mm for the channels. 5) Piping diameter to outdoor unit. Air curtain port connection for all sizes is 1/2" (12,7 mm) / 7/8" (22,00 mm). For smaller models, field-supplied adapters are required to ensure proper pipe connection.

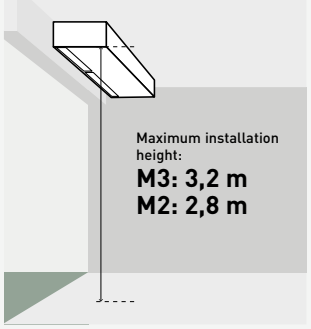
Accessories	
PAW-CDP1	Drain pump kit

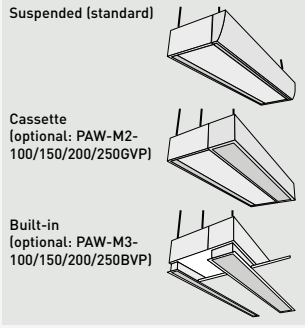
Technical focus

- Advanced defrost control maintains the air curtain effect without cold drafts
- Four air curtain lengths available: P2 and P3 – 1,0 m, 1,5 m, 2,0 m, and 2,5 m
- Installation height up to 3,2 m
- Flexible installation: suspended as standard, cassette or built-in optional*
- Includes one user-friendly touchscreen remote controller
- Effortless settings management via touchscreen control
- Optional smart temperature control automatically adjusts to outdoor conditions
- Integrated control with door sensor and BMS ON / OFF functionality
- Scalable setup: group up to 10 units for synchronized operation
- Drain pump optional

*Cassette type (PAW-M2-100/150/200/250GVP) or built-in type (PAW-M3-100/150/200/250BVP) available upon request.

Installation heights and three mounting possibilities





air-e™

+ nanoe™X

Ceiling mounted air-e nanoe X Generator

- nanoe™ X technology
  (Generator Mark 1: 4,8 trillion hydroxyl radicals/sec)
- Silent operation. Whisper quiet at 25,5 dB(A) (at 230 V)
- Low power consumption 4 W
- Easy installation
- Compact and modern design

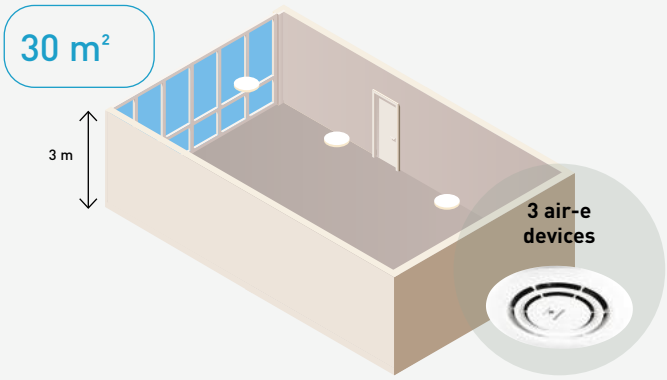
Model			FV-15CSD1G		
Power supply	Voltage	V	220	230	240
	Frequency	Hz	50	50	50
Air flow		m³/h	15	16	17
		CFM	8,8	9,4	10,0
Consumption		W	4	4	4
Sound pressure		dB(A)	23,5	25,5	27,0
Net weight		kg		1,1	

*The value of air volume, power consumption and noise are specified at static pressure 0 Pa. The value of air volume is the mean value and a tolerance of +-10% is allowed. The value of noise level is a weighted average sound pressure level, the mean value is measured by Panasonic. A tolerance of +3 dB/-7 dB is allowed. The noise is measure at 1 m apart from the left, the front and below of the tested product. Conditions of generating nanoe™ X: room temperature: about 5 °C ~ 40 °C (dew point temperature more than 2 °C), relative humidity: about 30% ~ 85%. nanoe™ X is generated using the air in the room, and its amount is subject to the temperature and humidity in the air.

One device is suitable for around 10 m² (with a ceiling height 3 m)

Ex. 3 air-e devices are required for the room size 30 m².

The air-e is a stand alone device which is an easy and simple choice to improve indoor air quality. It can be easily installed to various commercial projects including refurbishments.



Ceiling mounted air-e nanoe X Generator.

Bringing nature's balance indoors with Panasonic's unique nanoe™ X technology built into the air-e. Deodorises and inhibits certain bacteria, viruses, mould, pollens and allergens for better indoor air quality.

The tested effects of nanoe™ X

Bacteria and viruses.

SARS-CoV-2: 99,9% % inhibited [1].
Influenza virus H1N1 subtype: 99,9% inhibited [2].

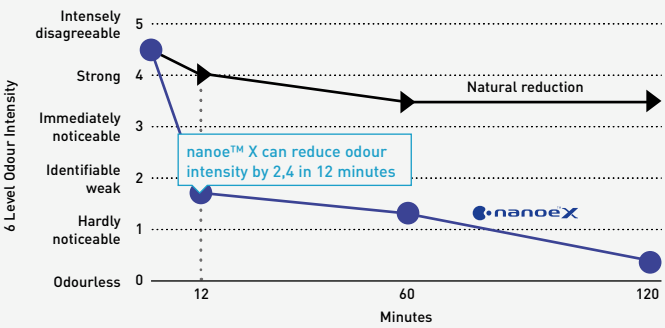
Odour.

nanoe X Generator can reduce cigarette smoke odour intensity by 2,4 levels in 12 minutes.

1) Novel coronavirus (SARS-CoV-2) > [Test organization] Texcell (France) [Test subject] Adhered novel coronavirus (SARS-CoV-2) [Test volume] 45 L enclosed box [Test result] Inhibited 99,9% in 2 hours [Test report] 1140-01 A1.
2) Adhered virus (Influenza virus H1N1 subtype) > [Test organization] Kitasato Research Center for Environmental Science [Test subject] Influenza virus (H1N1 subtype) [Test volume] 1000 L enclosed box [Test result] Inhibited 99,9% in 2 hours [Test report] 21_0084_1.
3) Deodorisation effect for adhering odour (cigarette smoke) > [Test organization] Panasonic Product Analysis Center [Test subject] Adhered cigarette smoke odour [Test volume] Approx. 24 m³ laboratory [Test result] Odour intensity reduced 2,4 levels in 0,2 hours [Test report] 4AA33-160615-N04.

Performance of nanoe™ X might differ in real life environment and is only expected in the same room as where the unit is placed. The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not a medical device.

Deodorisation effect for adhering odour (cigarette smoke) [3].



For further details and validation data, please refer to the following website.

ECOi compatible models

Indoor units			U2 type 4 way 90x90 cassette	Y3 type 4 way 60x60 cassette	L1 type 2 way cassette	D1 type 1 way cassette	F3 type adaptive duct	M2 type slim duct	E2 type high static pressure hide-away	K3 type wall-mounted	T2 type ceiling	G1 type floor console	P2 type floor standing	R2 type concealed floor standing	Hydrokit water at 45 °C	Water heat exchanger
			R32/ R410A	R32/ R410A	R410A	R410A	R32/ R410A	R32/ R410A	R410A	R32/ R410A	R410A	R410A	R32/ R410A	R32/ R410A	R410A	R410A
Outdoor units			S-**MU2E5C	S-**MY3EB	S-**ML1E5	S-**MD1E5	S-**MF3E5D	S-**MM2EB	S-**ME2E5	S-**MK3E	S-**MT2E5A	S-**MG1E5N	S-**MP2E	S-**MR2E	S-**MW1E5	PAW-**W(P)5G
R32	**LZ2**	U-*LZ2E5/8	✔	✔			✔	✔		✔			✔	✔		
	MZ1	U-*MZ1E8	✔	✔			✔	✔		✔			✔	✔		
	MF4	U-*MF4E8	✔	✔			✔	✔		✔			✔	✔		
R410A	**LE2**	U-*LE2E5/8	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		
	LE1	U-*LE1E8	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		
	ME2	U-*ME2E8	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔		✔
	MF3	U-*MF3E8	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	

Ventilation			HRPT Series Energy recovery ventilation with DX coil	AHU connection kit		Air curtain with DX coil
			R32/R410A	R32/R410A	R410A	R32/R410A
Outdoor units			PAW-HRPT** PAW-HRPT**HX	PAW-P+100MAH4M	PAW-**MAH3M	PAW-M2-***R PAW-M3-***R
R32	**LZ2**	**U-*LZ2E5/8**	✔	✔		✔
	MZ1	**U-*MZ1E8**		✔		✔
	MF4	**U-*MF4E8**				
R410A	**LE2**	**U-*LE2E5/8**	✔	✔		✔
	LE1	**U-*LE1E8**	✔	✔		✔
	ME2	**U-*ME2E8**	✔	✔		✔
	MF3	**U-*MF3E8**	✔		✔	

Accessories and control

R32 ECOi / ECOi EX: Safety measures and accessories

Leak detector for 4 way 90x90 cassette, 4 way 60x60 cassette, and wall-mounted units.

————
CZ-CGLSC2

R32 refrigerant leak alarm designed for adaptive duct, slim duct, floor standing and concealed floor standing.

————
CZ-CGLALC1

2-pipe safety valve kit.

————
CZ-P1160SVK

3-pipe heat recovery box with safety vale kit.

————
CZ-P1160SVHR

3-pipe heat recovery box.

————
CZ-P1160HR4

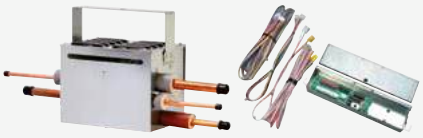
External 16 V power supply.

————
PAW-16DC-ALC1

Basic Pump Down system (2 way) for one R32 Mini ECOi outdoor unit.

————
PAW-PUD2WB-1 rentative code

R410A ECOi EX: Heat recovery box



3-Pipe control Solenoid valve kit (up to 5,6 kW).
CZ-P56HR3 + CZ-CAPE2.

————
KIT-P56HR3

Solenoid valve kit (up to 5,6 kW).

————
CZ-P56HR3

3-Pipe control PCB.

————
CZ-CAPE2

3-Pipe control Solenoid valve kit (from 5,6 to 16,0 kW).
CZ-P160HR3 + CZ-CAPE2.

————
KIT-P160HR3

Solenoid valve kit (from 5,6 kW to 16,0 kW).

————
CZ-P160HR3

3-Pipe control PCB for wall-mounted.

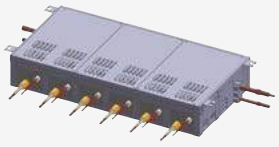
————
CZ-CAPEK2

4 ports 3 pipe box (up to 5,6 kW per port).

————
CZ-P456HR3

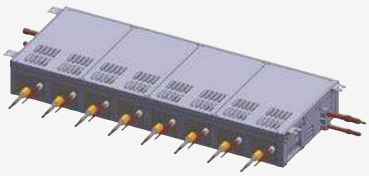
4 ports 3 pipe box (up to 16,0 kW per port).

————
CZ-P4160HR3



6 ports 3 pipe box (up to 5,6 kW per port).

————
CZ-P656HR3



8 ports 3 pipe box (up to 5,6 kW per port).

————
CZ-P856HR3

Leak detection and automatic Pump Down for R410A refrigerant

Pump Down system (2 way) for 1 outdoor unit. ———— PAW-PUD2W-1R	**Pump Down system (2 way) for 2 outdoor units.** ———— PAW-PUD2W-2R	**Pump Down system (2 way) for 3 outdoor units.** ———— PAW-PUD2W-3R [1]
Pump Down system (3 way) for 1 outdoor unit. ———— PAW-PUD3W-1R	**Pump Down system (3 way) for 2 outdoor units.** ———— PAW-PUD3W-2R	**Pump Down system (3 way) for 3 outdoor units.** ———— PAW-PUD3W-3R [1]

*Special order requiring the longer lead time than usual. For the detailed information, please contact an authorized Panasonic dealer.

Distribution joint kits

2-Pipe MZ1/ME2 for outdoor units (up to 68,0 kW). ———— CZ-P680PH2BM	**2-Pipe MZ1/ME2 for outdoor units (from 68,0 kW to 168,0 kW).** ———— CZ-P1350PH2BM	**2-Pipe MZ1/ME2 and Mini ECOi for indoor units (up to 22,4 kW[2]).** ———— CZ-P224BK2BM
2-Pipe MZ1/ME2 for indoor units (from 22,4 kW to 68,0 kW[2]). ———— CZ-P680BK2BM	**2-Pipe MZ1/ME2 for indoor units (from 68,0 kW to 168,0 kW[2]).** ———— CZ-P1350BK2BM	**3-Pipe MF4/MF3 for outdoor units (up to 68,0 kW).** ———— CZ-P680PJ2BM
3-Pipe MF4/MF3 for outdoor units (from 68,0 kW to 135,0 kW). ———— CZ-P1350PJ2BM	**3-Pipe MF4/MF3 for indoor units (up to 22,4 kW).** ———— CZ-P224BH2BM	**3-Pipe MF4/MF3 for indoor units (from 22,4 kW to 68,0 kW).** ———— CZ-P680BH2BM
3-Pipe MF4/MF3 for indoor units (up to 68,0 kW). ———— CZ-P1350BH2BM	**2-Pipe MZ1/ME2 header pipe.** ———— CZ-P4HP4C2BM	**3-Pipe MF4/MF3 header pipe.** ———— CZ-P4HP3C2BM

*In case the total capacity of indoor units connected after distribution exceeds the total capacity of the outdoor units, select the distribution piping size for the total capacity of the outdoor units.

Panels

Standard panel for 4 way 90x90 cassette, white (RAL9003).

————
CZ-KPU3

Econavi panel for 4 way 90x90 cassette, white (RAL9003).

————
CZ-KPU3A

Standard panel for 4 way 90x90 cassette, graphite black (RAL9011).

————
CZ-KPU3B

NEW! Panel for 4 way 60x60 cassette, white (RAL9003).

————
CZ-KPY4W

NEW! Panel for 4 way 60x60 cassette, graphite black (RAL9011).

*Available in Autumn 2026.

————
CZ-KPY4B

Panel for 2 way cassette (for S-22 to S-56 models).

————
CZ-02KPL2

Panel for 2 way cassette (for S-73 model).

————
CZ-03KPL2

Panel for 1 way cassette.

————
CZ-KPD2

Sensors

Econavi energy saving sensor.

————

CZ-CENSC1

Remote temperature sensor.

————

CZ-CSRC3

Cassette fresh air-intake kit.

————

CZ-FDU3+CZ-ATU2

IAQ filter for adaptive ducted unit

*Tentative image.

BION air pollutant filter for MF3 15, 22, 28, 36, 45 and 56.

————

PAW-APF800F

BION air pollutant filter for MF3 60 and 73.

————

PAW-APF1000F

BION air pollutant filter for MF3 90, 112, 140 and 160.

————

PAW-APF1400F

Plenums

Air outlet plenum for MF3 15, 22, 28, 36, 45 and 56.

————

CZ-56DAF2

Air outlet plenum for MF3 60, 73 and 90.

————

CZ-90DAF2

Air outlet plenum for MF3 106, 112, 140 and 160.

————

CZ-160DAF2

Air outlet plenum for S-224ME1E5.

————

CZ-TREMIESPW705

Air outlet plenum for S-280ME1E5.

————

CZ-TREMIESPW706

Valves

Wall-mounted external valve for model sizes 15 to 73.

————

CZ-P73SVK3 [3)]

Wall-mounted external valve for model size 106.

————

CZ-P106SVK3

Rap valve kit.

————

CZ-P160RVK2

*A 3/8" to 1/4" reducer is required when combining the S-73MK3E with ECOi EX R410A outdoor units (ME2 and MF3).

Individual controls

CONEX wired remote controller (non-wireless), white.

CZ-RTC6W

CONEX wired remote controller with Bluetooth®, white.

CZ-RTC6WBL

CONEX wired remote controller with Wi-Fi and Bluetooth®, white.

CZ-RTC6WBLW2*

CONEX wired remote controller (non-wireless), black.

CZ-RTC6

CONEX wired remote controller with Bluetooth®, black.

CZ-RTC6BL

CONEX wired remote controller with Wi-Fi and Bluetooth®, black.

CZ-RTC6BLW2*

Design wired remote controller with Econavi function.

CZ-RTC5B

Infrared remote controller and receiver for 4 way 60x60 cassette with panel.

CZ-RWS3 + CZ-RWRY3W

Infrared remote controller and receiver for 4 way 90x90 cassette.

CZ-RWS3 + CZ-RWRU3

Infrared remote controller and receiver for 2 way cassette.

CZ-RWS3 + CZ-RWRL3

Infrared remote controller and receiver for 1 way cassette.

CZ-RWS3 + CZ-RWRD3

Infrared remote controller and receiver for ceiling.

CZ-RWS3 + CZ-RWRT3

Infrared remote controller for wall-mounted and floor console.

CZ-RWS3

Infrared remote controller and receiver for all indoor units.

CZ-RWS3 + CZ-RWRC3

*Available for indoor unit types MY3, MF3, MM2, and MK3.

Controller and touch controllers for hotels with dry contacts

Modbus RS-485 touch room controller with I/O, white.

PAW-RE2C4-MOD-WH

Touch display control with 2 digital inputs, white.

PAW-RE2D4-WH

Modbus RS-485 touch room controller with I/O, black.

PAW-RE2C4-MOD-BK

Touch display control with 2 digital inputs, black.

PAW-RE2D4-BK

Hotel sensors for dry contacts

Wall silent motion sensor 24 V.

PAW-WMS-DC

Wall silent motion sensor 240 V AC.

PAW-WMS-AC

Ceiling silent motion sensor 24 V.

PAW-CMS-DC

Ceiling silent motion sensor 240 V AC.

PAW-CMS-AC

Power supply 24 V.

PAW-24DC

Door or window contact.

PAW-DWC

Centralised controls

System controller for 64 indoor units with weekly timer.

CZ-64ESMC3

Central ON / OFF controller, up to 16 groups, 64 indoor units.

CZ-ANC3

Intelligent controller (touch screen/web server) to control up to 256 indoors with included load distribution ratio (LDR).

CZ-256ESMC3

Commercial Smart Edge

Gateway for Commercial Smart Edge – supports up to 4 indoor unit connections.

PAW-CSE-1B

Gateway for Commercial Smart Edge – supports up to 10 indoor unit connections.

PAW-CSE-2B

Gateway for Commercial Smart Edge – supports up to 50 indoor unit connections.

PAW-CSE-10

Gateway for Commercial Smart Edge – supports up to 100 indoor unit connections.

PAW-CSE-20

*The final number of connected indoor units may vary depending on the range. **For the detail information, please contact an authorised Panasonic dealer.

BMS interface with S-Link

A unified interface supporting Modbus, BACnet, and KNX protocols for up to 16 indoor units.

————

PAW-AC2-BMS-16

A unified interface supporting Modbus, BACnet, and KNX protocols for up to 64 indoor units.

————

PAW-AC2-BMS-64

A unified interface supporting Modbus, BACnet, and KNX protocols for up to 128 indoor units.

————

PAW-AC2-BMS-128

Accessories interfaces

Commercial Wi-Fi Adaptor.

————

CZ-CAPWFC2

DIN rail-mounted KNX interface.

————

PAW-RC2-KNX-1i

DIN rail-mounted Modbus RTU interface.

————

PAW-RC2-MBS-1

Modbus RTU interface to control 4 indoor/ groups.

————

PAW-RC2-MBS-4

BACnet IP and MSTP.

————

PAW-RC2-BAC-1

KNX interface.

————

PAW-AZRC-KNX-1

Modbus RTU interface with 12 V DC power supply.

————

PAW-AZRC-MBS-1

BACnet IP and MSTP interface.

————

PAW-AZRC-BAC-1

RAC interface adapter for integration into S-Link, plus external input and alarm/ status output.

————

CZ-CAPRA1

Centralised controls. Connection with general equipment

Adaptor for ON / OFF control of external devices. Up to three digital outputs.

CZ-CAPC4

Demand control for Mini ECOi (LZ2, LE2).

CZ-CAPDC3

Mini series parallel device controlling indoor units, maximum 1 group and 8 indoor unit.

CZ-CAPBC2

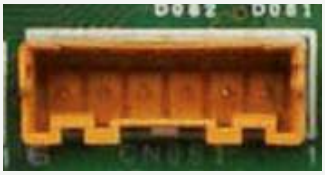
Communication Adaptor. Up to 128 groups. Controls 128 units.

CZ-CFUNC2

Accessories PCB and cables

T10 interface PCB with digital and relay connections.

PAW-T10



Cable for all the T10 functions.

CZ-T10

Cable to operate external fan.

PAW-FDC

Cable for all option monitoring signals.

PAW-OCT

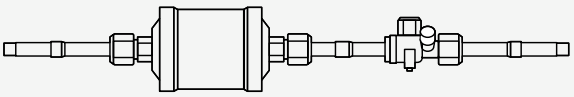
Cable with force thermo OFF/leakage detection.

PAW-EXCT

Option harness for PAW-OCT and PAW-FDC, providing option, fan drive, and EXCT functions. For VRF indoor units MM2, MK3, MP2, and MR2.

PAW-OPT-MZ

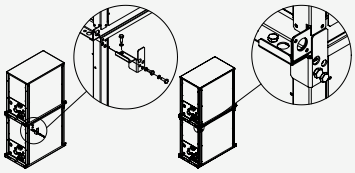
R-22 Replacement Kit



Replacement kit for R-22.

CZ-SLK2

Water heat exchanger accessories



Stacking kit for vertically stacking up to 3 WHE (4 pieces per Kit).

PAW-3WSK

Dimension and tube sizes of branches and headers for 2-Pipe ECOi EX ME2 and Mini ECOi Series

Optional distribution joint kits.

See the installation instructions packaged with the distribution joint kit for the installation procedure.

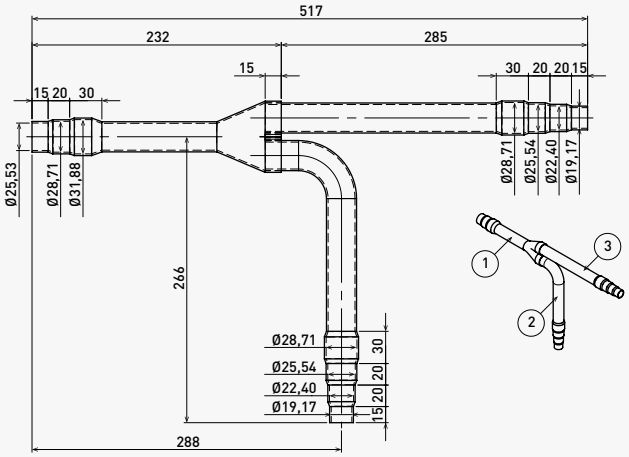
*In case the total capacity of indoor units connected after distribution exceeds the total capacity of the outdoor units, select the distribution piping size for the total capacity of the outdoor units.

Model name	Cooling capacity after distribution	Remarks
1. CZ-P680PH2BM	Up to 68,0 kW	For outdoor unit
2. CZ-P1350PH2BM	From 68,0 kW to 168,0 kW	For outdoor unit
3. CZ-P224BK2BM*	Up to 22,4 kW	For indoor unit
4. CZ-P680BK2BM*	From 22,4 kW to 68,0 kW	For indoor unit
5. CZ-P1350BK2BM*	From 68,0 kW to 168,0 kW	For indoor unit

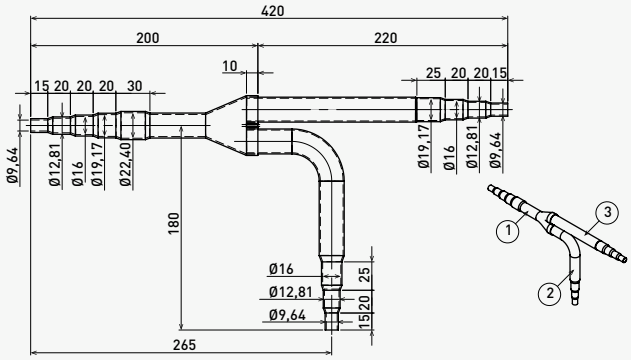
Tubing size (with thermal insulation)

1. CZ-P680PH2BM: For outdoor unit side (capacity after distribution joint up to 68,0 kW).

Gas piping



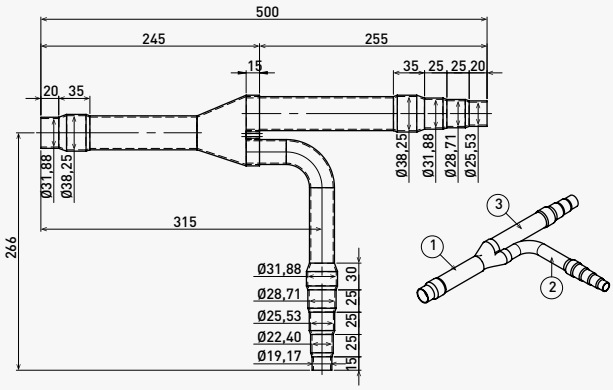
Liquid piping



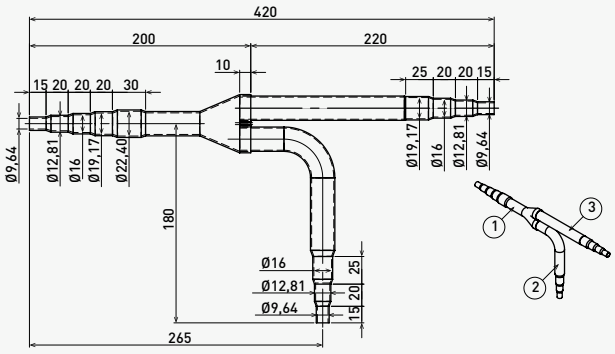
Unit: mm

2. CZ-P1350PH2BM: For outdoor unit side (capacity after distribution joint is from 68,0 kW to 168,0 kW).

Gas piping



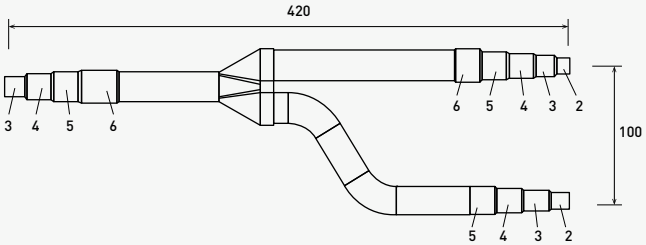
Liquid piping



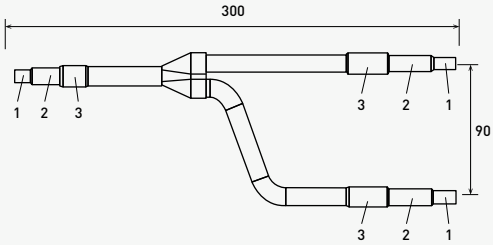
Unit: mm

3. CZ-P224BK2BM: For indoor unit side (capacity after distribution joint up to 22,4 kW).

Gas piping



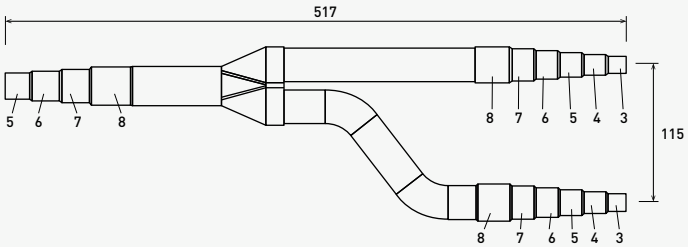
Liquid piping



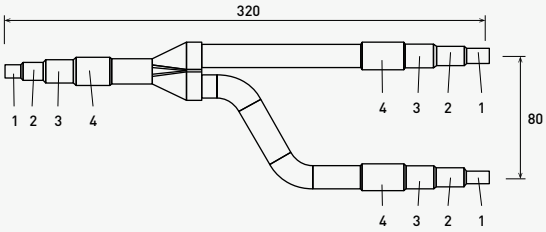
Unit: mm

4. CZ-P680BK2BM: For indoor unit side (capacity after distribution joint is from 22,4 kW to 68,0 kW).

Gas piping



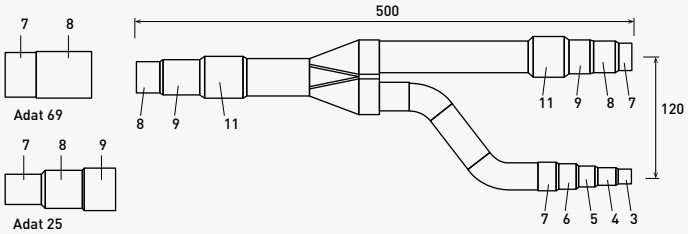
Liquid piping



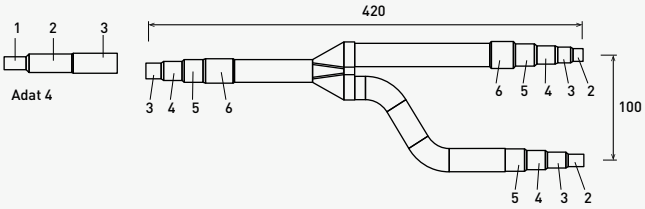
Unit: mm

5. CZ-P1350BK2BM: For indoor unit side (capacity after distribution joint is from 68,0 kW to 168,0 kW).

Gas piping



Liquid piping

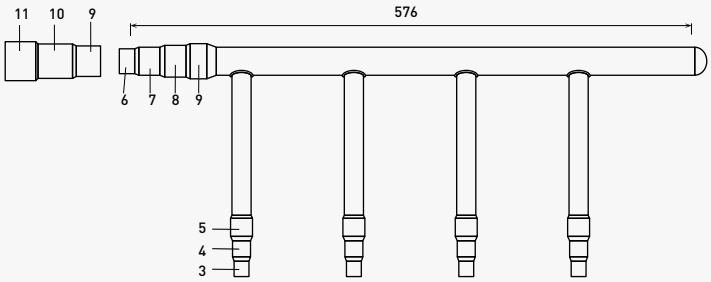


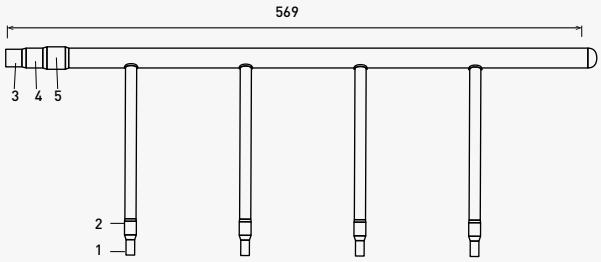
Unit: mm

Size of connection point on each part (shown are inside diameters of piping)														
Diameters		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Dimension	Inch	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2
	mm	6,35	9,52	12,70	15,88	19,05	22,40	25,40	28,57	31,75	34,92	38,10	41,28	44,45	50,80

Header pipe set

CZ-P4HP4C2BM



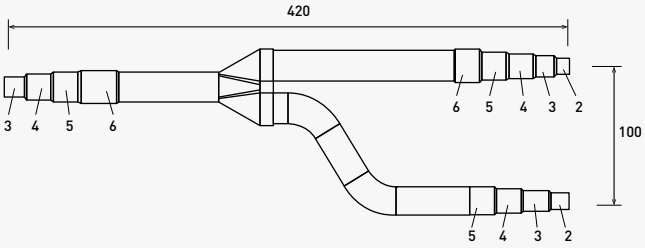


Size of connection point on each part (shown are inside diameters of piping)											
Diameters		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**
Dimension	Inch	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
	mm	6,35	9,52	12,70	15,88	19,05	22,40	25,40	28,57	31,75	34,92	38,10

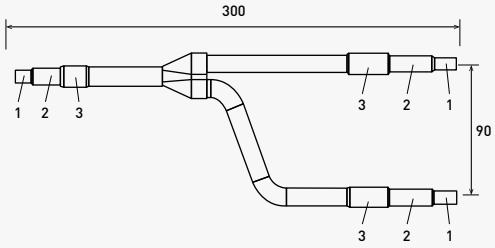
Distribution joint Kits for Mini ECOi LE/LZ Series

CZ-P224BK2BM: For indoor unit side (capacity after distribution joint up to 22,4 kW).

Gas piping



Liquid piping



Unit: mm

Size of connection point on each part (shown are inside diameters of piping)							
Diameters		**1**	**2**	**3**	**4**	**5**	**6**
Dimension	Inch	1/4	3/8	1/2	5/8	3/4	7/8
	mm	6,35	9,52	12,70	15,88	19,05	22,40

Dimension and tube sizes of branches and headers for 3-Pipe ECOi EX MF3 Series

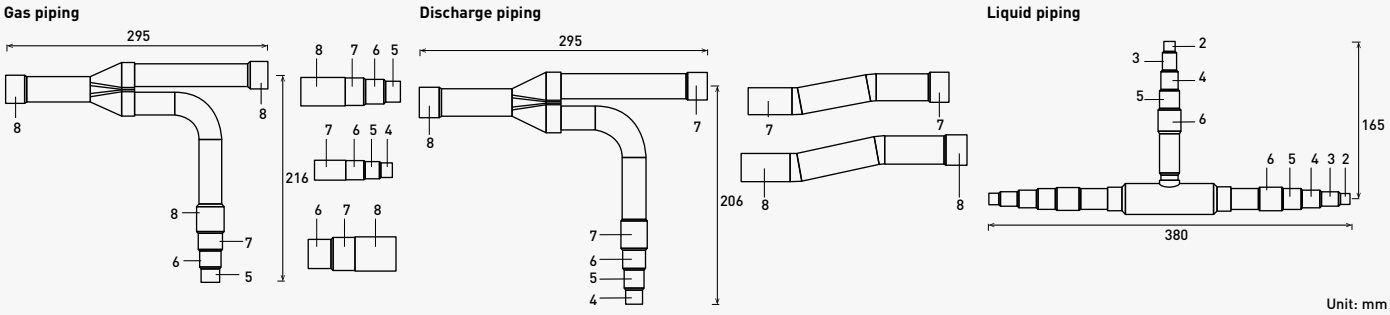
Optional distribution joint kits.

See the installation instructions packaged with the distribution joint kit for the installation procedure.

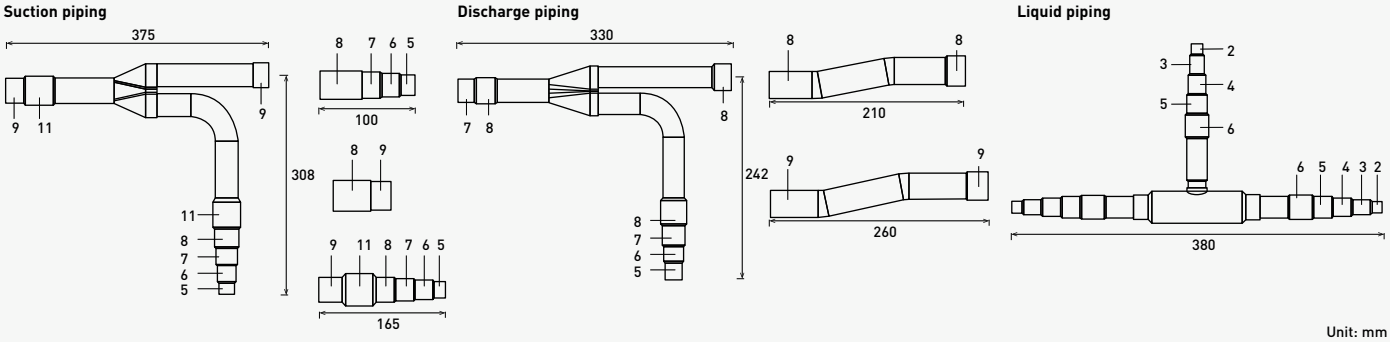
Model name	Cooling capacity after distribution	Remarks
1. CZ-P680PJ2BM	Up to 68,0 kW	For outdoor unit
2. CZ-P1350PJ2BM	From 68,0 kW to 135,0 kW	For outdoor unit
3. CZ-P224BH2BM	Up to 22,4 kW	For indoor unit
4. CZ-P680BH2BM	From 22,4 kW to 68,0 kW	For indoor unit
5. CZ-P1350BH2BM	From 68,0 kW to 135,0 kW	For indoor unit

Piping size

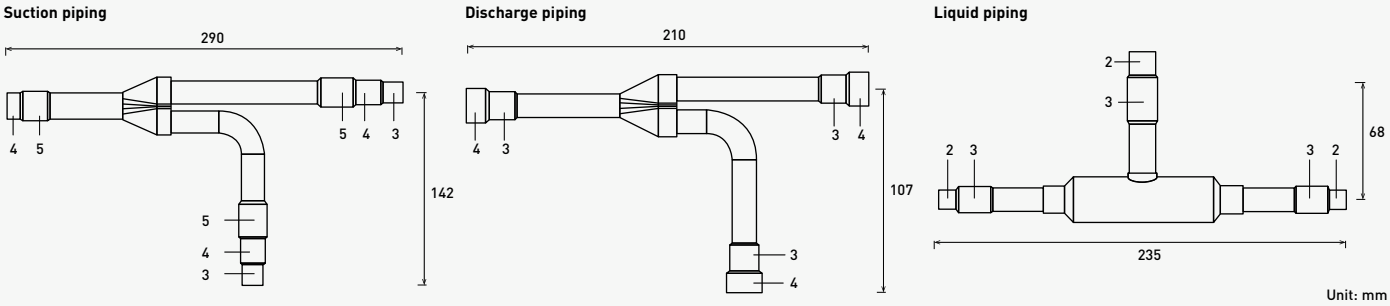
1. CZ-P680PJ2BM: For outdoor unit side (capacity after distribution joint up to 68,0 kW).



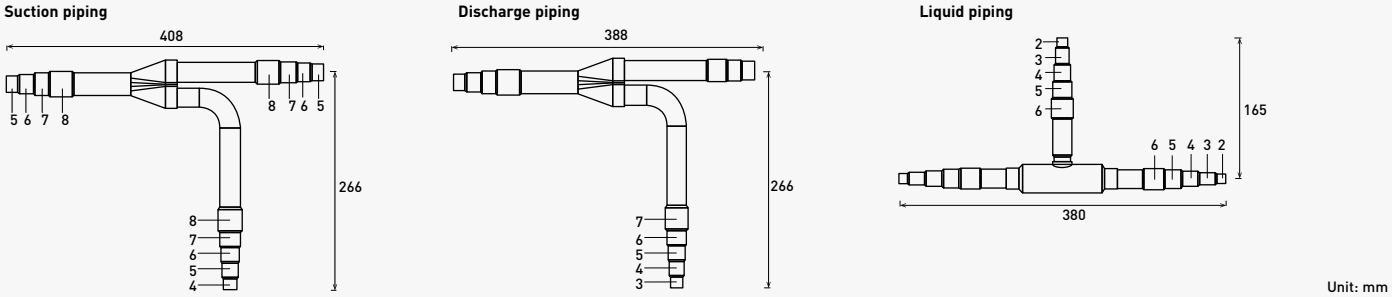
2. CZ-P1350PJ2BM: For outdoor unit side (capacity after distribution joint is from 68,0 kW to 135,0 kW).



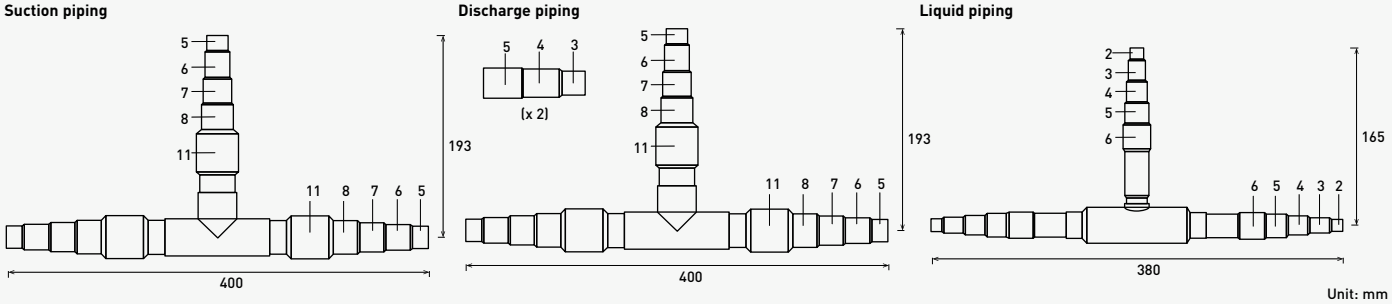
3. CZ-P224BH2BM: For indoor unit side (capacity after distribution joint up to 22,4 kW).



4. CZ-P680BH2BM: For indoor unit side (capacity after distribution joint is from 22,4 kW to 68,0 kW).



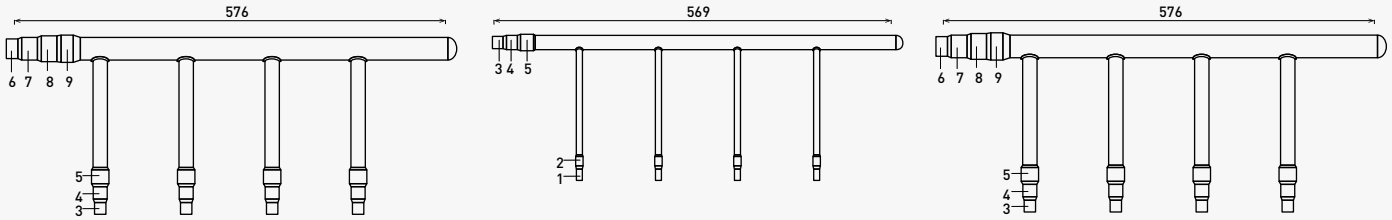
5. CZ-P1350BH2BM: For indoor unit side (capacity after distribution joint is from 68,0 kW to 135,0 kW).



Size of connection point on each part (shown are inside diameters of piping)															
Diameters		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Dimension	Inch	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2
	mm	6,35	9,52	12,70	15,88	19,05	22,40	25,40	28,57	31,75	34,92	38,10	41,28	44,45	50,80

Header pipe set

CZ-P4HP3C2BM



Size of connection point on each part (shown are inside diameters of piping)												
Diameters		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**
Dimension	Inch	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
	mm	6,35	9,52	12,70	15,88	19,05	22,40	25,40	28,57	31,75	34,92	38,10

Eurovent certified technical data

Panasonic's PACi and VRF systems are now certified by Eurovent*.

The Eurovent certification verifies the performance ratings of heating and cooling systems following European standards. Data provides products efficiency with full transparency, for the benefit of customers and professionals.

Eurovent VRF certified technical data: Mini ECOi LZ2 Series 4 to 10 HP · R32

HP			4 HP				5 HP				6 HP				8 HP		10 HP	
Outdoor unit			U-4LZ2E5		U-4LZ2E8		U-5LZ2E5		U-5LZ2E8		U-6LZ2E5		U-6LZ2E8		U-8LZ2E8		U-10LZ2E8	
Indoor units combination S-**MU2: S-**MU2E5C S-**MF3: S-**MF3E5D			2x S-60MU2	3x S-28MF3, 1x S-36MF3	2x S-60MU2	3x S-28MF3, 1x S-36MF3	4x S-36MU2	4x S-36MF3	4x S-36MU2	4x S-36MF3	2x S-36MU2, 2x S-45MU2	2x S-36MF3, 2x S-45MF3	2x S-36MU2, 2x S-45MU2	2x S-36MF3, 2x S-45MF3	4x S-56MU2	4x S-56MF3	4x S-73MU2	4x S-73MF3
Cooling	Pc out [1]	kW	12,1	12,1	12,1	12,1	14,0	14,0	14,0	14,0	15,5	15,5	15,5	15,5	22,4	19,0	28,0	23,8
	Pec out [2]	kW	3,0	3,6	3,0	3,6	3,7	4,5	3,7	4,5	4,4	5,2	4,4	5,2	6,8	6,8	9,7	9,5
	EERout		4,1	3,4	4,1	3,4	3,8	3,1	3,8	3,1	3,5	3,0	3,5	3,0	3,3	2,8	2,9	2,5
Seasonal Cooling	SEER		8,5	6,8	8,5	6,8	8,1	6,8	8,1	6,8	7,7	6,5	7,7	6,5	7,6	5,8	7,1	5,7
	$\eta_{s,c}$	%	337,0	270,6	337,0	270,6	321,8	267,4	321,8	267,4	305,4	258,2	305,4	258,2	299,4	228,6	280,2	225,8
Cooling PL Condition B	PcB	kW	8,9	8,9	8,9	8,9	10,3	10,3	10,3	10,3	11,4	11,4	11,4	11,4	16,5	14,0	20,6	17,5
	EERB		6,5	5,2	6,5	5,2	5,9	4,9	5,9	4,9	5,4	4,7	5,4	4,7	5,2	4,2	4,6	4,0
Cooling PL Condition C	PcC	kW	5,7	5,7	5,7	5,7	6,6	6,6	6,6	6,6	7,3	7,3	7,3	7,3	10,6	9,0	13,2	11,2
	EERC		11,3	8,8	11,3	8,8	10,8	9,0	10,8	9,0	10,2	8,8	10,2	8,8	9,6	7,0	8,7	6,7
Cooling PL Condition D	PcD	kW	5,4	5,4	5,4	5,4	5,6	5,4	5,6	5,4	5,8	5,4	5,8	5,4	9,0	7,1	9,5	8,0
	EERD		15,6	12,3	15,6	12,3	15,2	12,1	15,2	12,1	15,0	11,0	15,0	11,0	16,6	11,5	18,0	13,1
Seasonal Heating	Pdesign	kW	10,0	10,0	10,0	10,0	11,2	11,2	11,2	11,2	11,6	11,6	11,6	11,6	17,5	16,2	19,6	18,2
	SCOP		5,1	4,0	5,1	4,0	4,6	3,9	4,6	3,9	4,6	3,7	4,6	3,7	4,6	3,8	4,6	3,9
	$\eta_{s,h}$	%	199,0	155,8	199,0	155,8	181,4	151,0	181,4	151,0	180,6	146,6	180,6	146,6	180,6	147,4	181,0	151,4
Heating PL Condition A	PhA	kW	8,8	8,8	8,8	8,8	9,9	9,9	9,9	9,9	10,3	10,3	10,3	10,3	15,4	14,3	17,3	16,1
	COPA		3,1	2,5	3,1	2,5	2,9	2,4	2,9	2,4	2,9	2,3	2,9	2,3	2,9	2,4	2,8	2,3
Heating PL Condition B	PhB	kW	5,4	5,4	5,4	5,4	6,0	6,0	6,0	6,0	6,2	6,2	6,2	6,2	9,4	8,7	10,5	9,8
	COPB		4,8	3,6	4,8	3,6	4,1	3,4	4,1	3,4	4,1	3,3	4,1	3,3	4,2	3,5	4,2	3,6
Heating PL Condition C	PhC	kW	3,5	3,5	3,5	3,5	3,9	3,9	3,9	3,9	4,0	4,0	4,0	4,0	6,2	5,6	6,7	6,3
	COPC		7,2	6,1	7,2	6,1	7,2	6,2	7,2	6,2	7,1	6,1	7,1	6,1	6,9	5,4	7,1	5,8
Heating PL Condition D	PhD	kW	4,0	3,5	4,0	3,5	4,0	3,5	4,0	3,5	4,0	3,5	4,0	3,5	6,7	6,0	6,9	6,2
	COPD		9,1	7,4	9,1	7,4	9,3	7,3	9,3	7,3	9,3	7,3	9,3	7,3	8,7	6,8	9,2	7,2
T bivalent	Tbiv	°C	-10	-7	-10	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7	-7
	PhTbiv	kW	10,0	8,8	10,0	8,8	9,9	9,9	9,9	9,9	10,3	10,3	10,3	10,3	15,4	14,3	17,3	16,1
	COPTbiv		2,5	2,5	2,5	2,5	2,9	2,4	2,9	2,4	2,9	2,4	2,9	2,4	2,9	2,4	2,8	2,3
Psbc		W	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	18,0	18,0	18,0	18,0
Psbh		W	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	18,0	18,0	18,0	18,0
Poffc		W	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	18,0	18,0	18,0	18,0
Poffh		W	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	18,0	18,0	18,0	18,0
Ptoc		W	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	26,0	26,0	26,0	26,0
Ptoh		W	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	26,0	26,0	26,0	26,0
Pckc		W	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	26,0	26,0	26,0	26,0
Pckh		W	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	18,0	26,0	26,0	26,0	26,0
Sound power level / in heating		dB(A)	69 / 72	—	69 / 72	—	70 / 74	—	70 / 74	—	72 / 75	—	72/75	—	72/74	—	74/75	—

Eurovent VRF certified technical data: 2-Pipe ECOi EX MZ1 Series 8 to 12 HP · R32

HP			8 HP		10 HP		12 HP	
Outdoor unit			U-8MZ1E8	U-8MZ1E8	U-10MZ1E8	U-10MZ1E8	U-12MZ1E8	U-12MZ1E8
Indoor units combination S-**MU2: S-**MU2E5C S-**MF3: S-**MF3E5D			4x S-56MU2	4x S-56MF3	4x S-73MU2	4x S-73MF3	6x S-56MU2	6x S-56MF3
Cooling	Pc out [1]	kW	22,40	18,10	28,00	22,70	33,50	27,20
	Pec out [2]	kW	6,78	6,70	8,00	8,11	11,17	11,33
	EERout		3,30	2,70	3,50	2,80	3,00	2,40
Seasonal Cooling	SEER		7,27	5,20	7,82	5,62	7,37	5,30
	$\eta_{s,c}$	%	288,00	205,10	310,10	221,80	292,10	209,20
Cooling PL Condition B	PcB	kW	16,50	13,80	20,60	17,20	24,70	20,70
	EERB		5,10	3,90	5,30	4,10	4,80	3,70
Cooling PL Condition C	PcC	kW	10,60	8,60	13,30	10,80	15,90	13,00
	EERC		9,10	6,10	9,60	6,50	8,90	6,00
Cooling PL Condition D	PcD	kW	9,30	8,00	9,80	8,40	10,10	8,70
	EERD		16,30	10,50	18,40	11,80	19,60	12,70
Seasonal Heating	Pdesign	kW	16,30	13,20	20,50	16,50	24,40	19,80
	SCOP		4,35	3,57	4,38	3,57	4,33	3,61
	$\eta_{s,h}$	%	171,00	140,10	172,40	139,80	170,30	141,60
Heating PL Condition A	PhA	kW	14,40	13,20	18,10	16,50	21,60	19,80
	COPA		2,80	2,30	2,70	2,30	2,40	2,10
Heating PL Condition B	PhB	kW	8,70	7,90	11,00	9,90	13,10	11,90
	COPB		4,10	3,50	4,00	3,30	4,00	3,40
Heating PL Condition C	PhC	kW	5,90	5,40	7,10	6,50	8,40	7,80
	COPC		6,10	5,00	6,60	5,40	7,00	5,80
Heating PL Condition D	PhD	kW	6,90	6,90	7,40	7,40	6,80	6,80
	COPD		7,50	6,80	8,50	7,70	8,20	7,50
T bivalent	Tbiv	°C	-10	-7	-10	-7	-10	-7
	PhTbiv	kW	16,30	13,20	20,50	16,50	24,40	19,80
	COPTbiv		2,40	2,30	2,40	2,30	2,10	2,10
Psbc		W	15,00	15,00	15,00	15,00	15,00	15,00
Psbh		W	15,00	15,00	15,00	15,00	15,00	15,00
Poffc		W	1,00	1,00	1,00	1,00	1,00	1,00
Poffh		W	34,00	34,00	34,00	34,00	34,00	34,00
Ptoc		W	24,00	24,00	24,00	24,00	24,00	24,00
Ptoh		W	23,00	23,00	23,00	23,00	23,00	23,00
Pckc		W	23,00	23,00	23,00	23,00	23,00	23,00
Pckh		W	37,00	37,00	37,00	37,00	37,00	37,00
Sound power level / in heating		dB(A)	75 / 75	75 / 75	77 / 77	77 / 77	81 / 84	81 / 84

1) Pc out= Capacity. 2) Pec out= Input power. *Please refer an official website (https://www.eurovent-certification.com/en) for each test condition.

Eurovent VRF certified technical data

Eurovent VRF certified technical data: Mini ECOi LE Series 4 to 10 HP · R410A

HP			4 HP				5 HP				6 HP				8 HP		10 HP	
Outdoor unit			U-4LE2E5		U-4LE2E8		U-5LE2E5		U-5LE2E8		U-6LE2E5		U-6LE2E8		U-8LE1E8		U-10LE1E8	
Indoor units combination S-**MU2: S-**MU2E5C S-**MF2: S-**MF2E5A			3x S-28MU2, 1x S-36MU2	3x S-28MF2, 1x S-36MF2	3x S-28MU2, 1x S-36MU2	3x S-28MF2, 1x S-36MF2	4x S-36MU2	4x S-36MF2	4x S-36MU2	4x S-36MF2	2x S-36MU2, 2x S-45MU2	2x S-36MF2, 2x S-45MF2	2x S-36MU2, 2x S-45MU2	2x S-36MF2, 2x S-45MF2	4x S-56MU2	4x S-56MF2	4x S-73MU2	4x S-73MF2
Cooling	Pc out [1]	kW	12,1	12,1	12,1	12,1	14,0	14,0	14,0	14,0	15,5	15,5	15,5	15,5	22,4	22,4	28,0	28,0
	Pec out [2]	kW	2,9	2,9	2,9	2,9	3,7	3,7	3,7	3,7	4,6	4,6	4,6	4,6	7,2	7,2	10,8	10,8
	EERout		4,2	4,2	4,2	4,2	3,8	3,8	3,8	3,8	3,4	3,4	3,4	3,4	3,1	3,1	2,6	2,6
Seasonal Cooling	SEER		7,8	7,8	7,8	7,8	7,5	7,5	7,5	7,5	7,2	7,2	7,2	7,2	6,3	6,3	6,4	6,4
	$\eta_{s,c}$	%	311,0	309,0	311,0	309,0	296,2	297,0	296,2	297,0	286,8	285,0	286,8	285,0	247,9	249,0	251,8	253,0
Cooling PL Condition B	PcB	kW	8,9	8,9	8,9	8,9	10,3	10,3	10,3	10,3	11,4	11,4	11,4	11,4	16,5	16,5	20,6	20,6
	EERB		6,7	6,7	6,7	6,7	6,0	6,0	6,0	6,0	5,5	5,5	5,5	5,5	4,8	4,8	4,4	4,4
Cooling PL Condition C	PcC	kW	5,7	5,7	5,7	5,7	6,6	6,6	6,6	6,6	7,3	7,3	7,3	7,3	10,6	10,6	13,2	13,2
	EERC		12,2	12,2	12,2	12,2	11,2	11,2	11,2	11,2	10,1	10,1	10,1	10,1	7,8	7,8	8,2	8,2
Cooling PL Condition D	PcD	kW	2,6	2,6	2,6	2,6	2,9	2,9	2,9	2,9	3,4	3,4	3,4	3,4	8,0	8,0	9,0	9,0
	EERD		10,0	10,0	10,0	10,0	10,2	10,2	10,2	10,2	12,1	12,1	12,1	12,1	12,8	12,8	15,4	15,4
Seasonal Heating	Pdesign	kW	10,0	10,0	10,0	10,0	12,5	12,5	12,5	12,5	13,0	13,0	13,0	13,0	17,5	17,5	19,6	19,6
	SCOP		4,9	4,9	4,9	4,9	4,4	4,4	4,4	4,4	4,2	4,2	4,2	4,2	4,2	4,2	4,3	4,3
	$\eta_{s,h}$	%	191,8	193,0	191,8	193,0	172,9	173,0	172,9	173,0	166,7	165,0	166,7	165,0	166,4	165,0	169,5	169,0
Heating PL Condition A	PhA	kW	8,8	8,8	8,8	8,8	11,0	11,0	11,0	11,0	11,5	11,5	11,5	11,5	15,4	15,4	17,3	17,3
	COPA		3,5	3,5	3,5	3,5	2,8	2,8	2,8	2,8	2,6	2,6	2,6	2,6	2,7	2,7	2,6	2,6
Heating PL Condition B	PhB	kW	5,3	5,3	5,3	5,3	6,7	6,7	6,7	6,7	7,0	7,0	7,0	7,0	9,4	9,4	10,5	10,5
	COPB		4,1	4,1	4,1	4,1	3,7	3,7	3,7	3,7	3,6	3,6	3,6	3,6	3,8	3,8	3,9	3,9
Heating PL Condition C	PhC	kW	3,4	3,4	3,4	3,4	4,3	4,3	4,3	4,3	4,5	4,5	4,5	4,5	6,0	6,0	6,7	6,7
	COPC		7,7	7,7	7,7	7,7	7,5	7,5	7,5	7,5	7,4	7,4	7,4	7,4	6,6	6,6	6,8	6,8
Heating PL Condition D	PhD	kW	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	4,0	6,4	6,4	6,6	6,6
	COPD		9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	8,1	8,1	8,9	8,9
T bivalent	Tbiv	°C	-10	-10	-10	-10	-9	-9	-9	-9	-7	-7	-7	-7	-7	-7	-7	-7
	PhTbiv	kW	10,0	10,0	10,0	10,0	12,0	12,0	12,0	12,0	11,5	11,5	11,5	11,5	15,4	15,4	17,3	17,3
	COPTbiv		2,9	2,9	2,9	2,9	2,6	2,6	2,6	2,6	2,6	2,6	2,6	2,6	2,7	2,7	2,6	2,6
Psbc		W	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	18,0	18,0	18,0	18,0
Poffc		W	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	14,0	18,0	18,0	18,0	18,0
Ptoc		W	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	48,0	48,0	48,0	48,0
Pckc		W	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	34,0	48,0	48,0	48,0	48,0
Psbh		W	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	48,0	48,0	48,0	48,0
Poffh		W	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	48,0	48,0	48,0	48,0
Ptoh		W	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	48,0	48,0	48,0	48,0
Pckh		W	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	38,0	48,0	48,0	48,0	48,0
Sound power level / in heating		dB(A)	69 / 72	—	69 / 72	—	71 / 75	—	71 / 75	—	73 / 75	—	73 / 75	—	79 / 83	—	83 / 84	—

Eurovent VRF certified technical data: 2-Pipe ECOi EX ME2 Series 8 to 20 HP · R410A

HP			8 HP		10 HP		12 HP		14 HP		16 HP		18 HP		20 HP	
Outdoor unit			U-8ME2E8		U-10ME2E8		U-12ME2E8		U-14ME2E8		U-16ME2E8		U-18ME2E8		U-20ME2E8	
Indoor units combination S-**MU2: S-**MU2E5C S-**MF2: S-**MF2E5A			4x S-56MU2	4x S-56MF2	4x S-73MU2	4x S-73MF2	6x S-56MU2	6x S-56MF2	2x S-60MU2, 4x S-73MU2	2x S-60MF2, 4x S-73MF2	6x S-73MU2	6x S-73MF2	6x S-60MU2, 2x S-73MU2	6x S-60MF2, 2x S-73MF2	8x S-73MU2	8x S-73MF2
Cooling	Pc out [1]	kW	19,7	19,7	24,6	24,6	33,5	33,5	40,0	40,0	45,0	45,0	50,0	50,0	56,0	56,0
	Pec out [2]	kW	5,8	5,8	8,8	8,8	11,6	11,6	13,3	13,3	18,8	18,8	17,9	17,9	23,3	23,3
	EERout		3,4	3,4	2,8	2,8	2,9	2,9	3,0	3,0	2,4	2,4	2,8	2,8	2,4	2,4
Seasonal Cooling	SEER		7,4	7,4	7,0	7,0	6,7	6,7	7,2	7,2	6,4	6,4	7,6	7,6	7,0	7,0
	$\eta_{s,c}$	%	294,3	293,0	275,4	277,0	266,6	265,0	286,0	285,0	254,3	253,0	299,2	301,0	278,2	277,0
Cooling PL Condition B	PcB	kW	14,5	14,5	18,1	18,1	24,6	24,6	29,4	29,4	33,1	33,1	36,8	36,8	41,2	41,2
	EERB		5,7	5,7	4,8	4,8	4,6	4,6	4,9	4,9	4,2	4,2	5,0	5,0	4,6	4,6
Cooling PL Condition C	PcC	kW	9,3	9,3	11,6	11,6	15,8	15,8	18,9	18,9	21,3	21,3	23,6	23,6	26,5	26,5
	EERC		11,8	11,8	9,6	9,6	8,1	8,1	9,4	9,4	8,2	8,2	9,8	9,8	9,0	9,0
Cooling PL Condition D	PcD	kW	8,2	8,2	9,3	9,3	8,2	8,2	8,4	8,4	9,4	9,4	10,5	10,5	11,7	11,7
	EERD		13,7	13,7	18,9	18,9	18,4	18,4	22,6	22,6	22,1	22,1	25,2	25,2	24,6	24,6
Seasonal Heating	Pdesign	kW	17,5	17,5	22,0	22,0	26,2	26,2	31,5	31,5	35,0	35,0	39,2	39,2	44,1	44,1
	SCOP		4,8	4,8	4,3	4,3	4,7	4,7	4,3	4,3	4,1	4,1	4,3	4,3	4,1	4,1
	$\eta_{s,h}$	%	188,4	189,0	167,6	169,0	185,8	185,0	168,2	169,0	159,0	161,0	168,7	169,0	160,4	161,0
Heating PL Condition A	PhA	kW	15,4	15,4	19,4	19,4	23,1	23,1	27,8	27,8	30,9	30,9	34,6	34,6	39,0	39,0
	COPA		2,8	2,8	2,6	2,6	2,8	2,8	2,5	2,5	2,3	2,3	2,6	2,6	2,4	2,4
Heating PL Condition B	PhB	kW	9,4	9,4	11,8	11,8	14,1	14,1	16,9	16,9	18,8	18,8	21,1	21,1	23,7	23,7
	COPB		4,5	4,5	3,6	3,6	4,2	4,2	3,7	3,7	3,6	3,6	3,7	3,7	3,5	3,5
Heating PL Condition C	PhC	kW	6,0	6,0	7,6	7,6	9,0	9,0	10,9	10,9	12,1	12,1	13,5	13,5	15,2	15,2
	COPC		7,2	7,2	7,7	7,7	7,7	7,7	7,4	7,4	6,6	6,6	7,1	7,1	6,9	6,9
Heating PL Condition D	PhD	kW	7,1	7,1	7,0	7,0	7,2	7,2	6,7	6,7	6,6	6,6	7,4	7,4	7,4	7,4
	COPD		8,9	8,9	9,6	9,6	9,3	9,3	10,2	10,2	10,0	10,0	10,3	10,3	10,3	10,3
T bivalent	Tbiv	°C	-9	-9	-7	-7	-9	-9	-7	-7	-7	-7	-7	-7	-7	-7
	PhTbiv	kW	16,8	16,8	19,4	19,4	25,1	25,1	27,8	27,8	30,9	30,9	34,6	34,6	39,0	39,0
	COPTbiv		2,6	2,6	2,6	2,6	2,6	2,6	2,5	2,5	2,3	2,3	2,6	2,6	2,4	2,4
Psbc		W	48,0	48,0	48,0	48,0	48,0	48,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0
Psbh		W	48,0	48,0	48,0	48,0	48,0	48,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0
Poffc		W	48,0	48,0	48,0	48,0	48,0	48,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0
Poffh		W	48,0	48,0	48,0	48,0	48,0	48,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0
Ptoc		W	48,0	48,0	48,0	48,0	48,0	48,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0
Ptoh		W	48,0	48,0	48,0	48,0	48,0	48,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0
Pckc		W	48,0	48,0	48,0	48,0	48,0	48,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0
Pckh		W	48,0	48,0	48,0	48,0	48,0	48,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0	88,0
Sound power level / in heating		dB(A)	80 / 81	—	81 / 84	—	85 / 85	—	86 / 85	—	87 / 89	—	86 / 89	—	86 / 89	—

Eurovent VRF certified technical data: 3-Pipe ECOi EX MF3 Series 8 to 16 HP · R410A

HP			8 HP		10 HP		12 HP		14 HP		16 HP	
Outdoor unit			U-8MF3E8		U-10MF3E8		U-12MF3E8		U-14MF3E8		U-16MF3E8	
Indoor units combination S-**MU2: S-**MU2E5C S-**MF2: S-**MF2E5A			4x S-56MU2	4x S-56MF2	4x S-73MU2	4x S-73MF2	6x S-56MU2	6x S-56MF2E	2x S-60MU2, 4x S-73MU2	2x S-60MF2, 4x S-73MF2	6x S-73MU2	6x S-73MF2
Cooling	Pc out [1]	kW	22,4	22,4	28,0	28,0	33,5	33,5	40,0	40,0	45,0	45,0
	Pec out [2]	kW	7,2	7,2	10,8	10,8	12,9	12,9	15,4	15,4	19,6	19,6
	EERout		3,1	3,1	2,6	2,6	2,6	2,6	2,6	2,6	2,3	2,3
Seasonal Cooling	SEER		7,0	7,0	7,0	7,0	6,4	6,4	6,7	6,7	6,0	6,0
	$\eta_{s,c}$	%	277,7	277,0	278,9	277,0	252,7	253,0	264,4	265,0	237,7	237,0
Cooling PL Condition B	PcB	kW	16,5	16,5	20,6	20,6	24,6	24,6	29,4	29,4	33,1	33,1
	EERB		4,9	4,9	4,6	4,6	4,3	4,3	4,4	4,4	3,9	3,9
Cooling PL Condition C	PcC	kW	10,6	10,6	13,2	13,2	15,8	15,8	18,9	18,9	21,3	21,3
	EERC		9,1	9,1	9,3	9,3	7,7	7,7	8,3	8,3	7,4	7,4
Cooling PL Condition D	PcD	kW	7,2	7,2	8,5	8,5	7,1	7,1	8,5	8,5	9,4	9,4
	EERD		16,5	16,5	19,7	19,7	15,7	15,7	19,7	19,7	17,4	17,4
Seasonal Heating	Pdesign	kW	17,5	17,5	22,0	22,0	26,2	26,2	31,5	31,5	35,0	35,0
	SCOP		4,8	4,8	4,2	4,2	4,3	4,3	4,1	4,1	3,8	3,8
	$\eta_{s,h}$	%	190,9	189,0	166,8	165,0	167,8	169,0	162,1	161,0	149,3	149,0
Heating PL Condition A	PhA	kW	15,4	15,4	19,4	19,4	23,1	23,1	27,8	27,8	30,9	30,9
	COPA		2,9	2,9	2,5	2,5	2,7	2,7	2,4	2,4	2,2	2,2
Heating PL Condition B	PhB	kW	9,4	9,4	11,8	11,8	14,1	14,1	16,9	16,9	18,8	18,8
	COPB		4,6	4,6	3,7	3,7	3,7	3,7	3,6	3,6	3,3	3,3
Heating PL Condition C	PhC	kW	6,0	6,0	7,6	7,6	9,0	9,0	10,9	10,9	12,1	12,1
	COPC		7,1	7,1	7,4	7,4	6,9	6,9	7,1	7,1	6,5	6,5
Heating PL Condition D	PhD	kW	6,7	6,7	6,9	6,9	6,5	6,5	6,6	6,6	6,6	6,6
	COPD		8,7	8,7	9,4	9,4	9,0	9,0	9,6	9,6	9,6	9,6
T bivalent	Tbiv	°C	-9	-9	-7	-7	-9	-9	-7	-7	-7	-7
	PhTbiv	kW	16,8	16,8	19,4	19,4	25,1	25,1	27,8	27,8	30,9	30,9
	COPTbiv		2,6	2,6	2,5	2,5	2,3	2,3	2,4	2,4	2,2	2,2
Psbc		W	17,0	17,0	17,0	17,0	17,0	17,0	25,0	25,0	25,0	25,0
Poffc		W	17,0	17,0	17,0	17,0	17,0	17,0	25,0	25,0	25,0	25,0
Ptoc		W	17,0	17,0	17,0	17,0	17,0	17,0	25,0	25,0	25,0	25,0
Pckc		W	50,0	50,0	50,0	50,0	50,0	50,0	91,0	91,0	91,0	91,0
Psbh		W	50,0	50,0	50,0	50,0	50,0	50,0	91,0	91,0	91,0	91,0
Poffh		W	50,0	50,0	50,0	50,0	50,0	50,0	91,0	91,0	91,0	91,0
Ptoh		W	50,0	50,0	50,0	50,0	50,0	50,0	91,0	91,0	91,0	91,0
Pckh		W	50,0	50,0	50,0	50,0	50,0	50,0	91,0	91,0	91,0	91,0
Sound power level / in heating		dB(A)	79 / 77	—	80 / 82	—	84 / 86	—	86 / 86	—	86 / 88	—

1) Pc out= Capacity. 2) Pec out= Input power. *Please refer an official website (https://www.eurovent-certification.com/en) for each test condition.

Features explained

Energy saving.

REFRIGERANT R32. Our heat pumps using R32 refrigerant feature a low Global Warming Potential (GWP) of 675.

INVERTER PLUS SYSTEM. Inverter Plus system classification highlights Panasonic's highest performing systems.

PANASONIC R2 ROTARY COMPRESSOR. Designed to withstand extreme conditions, it delivers high performance and efficiency.

ALL INVERTER COMPRESSORS. Multiple large-capacity all Inverter compressors (more than 14 HP).Two independently controlled Inverter compressors achieve high-efficiency. Redesigned components in the body provide performance improvement especially in the rated cooling condition and EER performance.

HIGH COP. High-efficiency models performs higher COP than standard units and standard combinations.

ECONAVI. Intelligent human activity sensor and sunlight sensor technologies that can detect and reduces the waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

ERP 2018. Compliant following COMMISSION REGULATION (EU) No2016/2281.

High performance and indoor air quality.

BLUEFIN. Panasonic has extended the life of its condensers with an original anti-rust coating.

DOWN TO -10 °C IN COOLING MODE. The air conditioner works in cooling mode when the outdoor temperature of -10 °C.

DOWN TO -25 °C IN HEATING MODE. The air conditioner works in heat pump mode when the outdoor temperature is as low as -25 °C.

COOLING WITH OUTDOOR TEMPERATURE UP TO 52 °C. The ECOi EX system works in cooling mode with performance data at outdoor temperature up to 52 °C.

AUTOMATIC RESTART. Automatic restart function for power failure. Even when power failure occurs, preset programmed operation can be reactivated once power is resumed.

R22 RENEWAL. The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing high-efficiency R410A systems.

NANOE™ X. Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise.

SELF-DIAGNOSING FUNCTION. By using electronic control valves past warnings are stored. This makes it easier to diagnose malfunctions, reducing service labour and therefore costs.

AUTOMATIC FAN OPERATION. Convenient microprocessor control automatically adjusts fan speed to High, Medium or Low, corresponding to room sensor and maintains comfortable air flow throughout the room.

MILD DRY. By intermittent control of compressor and indoor unit's fan, "Mild Dry" gives you comfort. It realizes efficient dehumidification according to room temperature.

COMFORTABLE AUTO-FLAP CONTROL. When the unit is first turned on, flap position is automatically adjusted in accordance with the cooling or heating operation.

AIR SWEEP. The air sweep function moves the flap up and down in the air outlet, directing air in a "sweeping" motion around the room and providing comfort in every corner.

High performance and indoor air quality (cont.).

BUILT-IN DRAIN PUMP. Maximum head 50 cm (or 75 cm for U type) from the bottom of the unit.

FILTER INCLUDED. Hide-away with filter included.

5 YEARS COMPRESSOR WARRANTY. We guarantee the outdoor unit compressors in the entire range for five years.

High connectivity.

DOMESTIC INTEGRATION TO S-LINK - CZ-CAPRA1. Can connect RAC range to S-Link. Full control is now possible.

INTERNET CONTROL. A next generation system providing user-friendly control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone or tablet via Wi-Fi.

BMS CONNECTIVITY. The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic air conditioner to your home or Building Management System.

Panasonic ECOi is Eurovent certified*.

The Eurovent certification verifies the performance ratings of heating and cooling systems following European standards. Those data provides products efficiency with full transparency for the benefit of customers and professionals.

*Reference website: https://www.eurovent-certification.com/en.

Commercial ventilation

Panasonic ventilation solutions for better air quality, maximum savings, easy integration.

ABOUT

Air handling unit kit → 398

AHU connection kit PAH3M-1 for PACi NX → 400

AHU connection kit MAH4M for ECOi 2-Pipe → 402

AHU connection kit MAH3M for 3-Pipe ECOi EX MF3 Series → 408

Advanced energy recovery ventilation - ZY Series → 410

Energy recovery ventilation with DX coil - HRPT Series for VRF → 412

Electric air curtains → 414

Ceiling mounted air-e nanoe X Generator → 417

High pressure duct and 100% fresh air duct function → 418

Residential ventilation

Heat recovery ventilation unit → 420

Aquarea Vent - Counter flow ventilation → 422

PRODUCT SPECIFICATIONS

AHU connection kit MAH4M for ECOi 2-Pipe · R32 → 404

AHU connection kit MAH4M for ECOi 2-Pipe · R410A → 406

AHU connection kit MAH3M for 3-Pipe ECOi EX MF3 Series · R410A → 409

Advanced energy recovery ventilation - ZY Series → 411

Energy recovery ventilation with DX coil - HRPT Series · R32 / R410A → 413

Air curtain with DX coil, connected to PACi NX → 414

Air curtain with DX coil, connected to ECOi 2-Pipe → 415

Electric air curtain → 416

Ceiling mounted air-e nanoe X Generator → 417

E2 type high static pressure hide-away · R410A → 419

Heat recovery ventilation unit → 421

Aquarea Vent - Counter flow ventilation units → 423

Air handling unit kit

AHU connection kits connect outdoor units to air handling systems.

Combines air conditioning and fresh air in just one solution. Application: Hotels, offices, server rooms or all large buildings where air quality control, such as humidity control and fresh air, is needed.

AHU connection kit PAH3M-1 for PACi NX (2,5 - 22,0 kW*).

· Durable metal casing (IP 65) allows external installation
· 0-10 V demand control
· CONEX Bluetooth® control built-in (CZ-RTC6BL)
· Panasonic H&C Control App via Bluetooth®
· Easy integration to BMS

*Nominal cooling capacity.

CONEX Bluetooth® control built-in.

PACi

AHU connection kit MAH4M for ECOi 2-Pipe (12,0 - 134,0 kW*).

· Space-saving compact casing
· 0-10 V demand control
· Built-in controller for daily functions and service levels
· Direct Modbus communication without an additional interface
· Easy integration to BMS
· Accurate control with a pressure transducer

*Nominal cooling capacity.

Built-in controller.

ECOi EX / ECOi

AHU connection kit MAH3M for 3-Pipe ECOi EX MF3 Series (14,0 - 28,0 kW*).

· Durable metal casing (IP 65) allows external installation
· 0-10 V demand control
· CONEX Bluetooth® control built-in (CZ-RTC6BL)
· Panasonic H&C Control App via Bluetooth®
· Easy integration to BMS

*Nominal cooling capacity.

CONEX Bluetooth® control built-in.

ECOi EX

AHU connection kit line-up.

AHU connection kit	Reference	Casing	Controller	0–10 V demand control	Compatible outdoor units
PAH3M-1	PAW-280PAH3M-1	Durable metal casing (IP 65)	CONEX Bluetooth® control (CZ-RTC6BL)	Yes	PACi NX
MAH4M	PAW-P+100MAH4M	Durable metal casing (IP 65)	Built-in c.pCO controller	Yes	Mini ECOi and ECOi EX 2-Pipe
MAH3M	PAW-160MAH3M PAW-280MAH3M	Durable metal casing (IP 65)	CONEX Bluetooth® control (CZ-RTC6BL)	Yes	ECOi EX 3-Pipe MF3

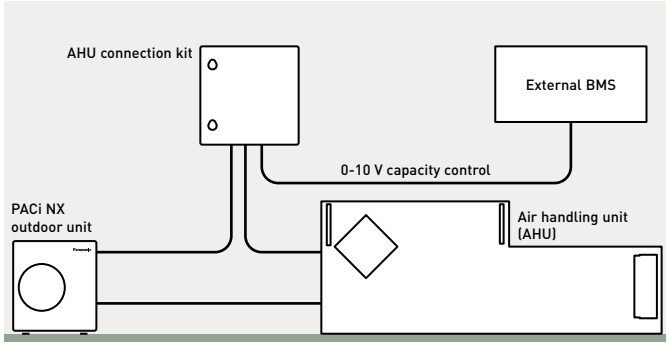
AHU connection kit PAH3M-1 for PACi NX

Compatible with R32 or R410A outdoor units.

The Panasonic AHU connection kits offer a wealth of connectivity possibilities, integrating easily into many systems.

Besides the advantages in terms of indoor air quality, air conditioning offers also an energy saving potential. For example, uncontrolled ventilation through open windows leads to large amounts of heat being lost to the outside during the heating season or gained from the outside during the cooling season. Whereas, combining heat recovery with air conditioning can allow for a high level of comfort whilst reducing the overall operating costs of running air conditioning alone.
The larger area of the comfort range, the better the energy saving opportunities.

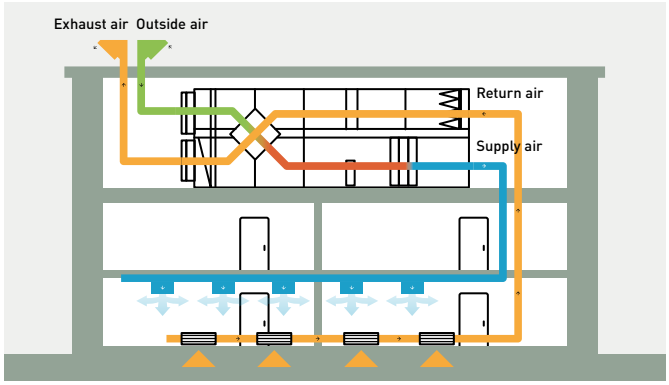
System example with AHU connection kit PAH3M-1 and PACi NX outdoor unit



Demand control on the outdoor unit managed by external 0-10 V signal.

- AHU connection kit contains: IP 65 box with PCBs and terminal connections mounted inside, expansion valve and sensors
- Heat exchanger, fan and fan motor to be mounted in the AHU itself are field supplied

Main components of mechanical ventilation systems



- Air handling unit (AHU)
- Air ducts
- Air distribution elements

Control options

Control option 1.
- The system's control is simple: control of actual suction temperature vs. set point
- Control works in the same way as that of any indoor unit
- Fan signal issued by the PCB (OFF while defrosting, for instance)

Control option 2.
- System control by a 0-10 V control working from an external BMS that manages the set point for temperature or capacity. Enhances efficiency by adjusting capacity and enhances comfort as well
- All signals as standard

0-10 V control

With the 0-10 V demand control the capacity of the outdoor unit can be controlled by 20 steps.

Input voltage* (V)	0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5	9,0	9,5
Demand (% of nominal current)	No cut [1]	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	No limit / Full capacity [2]
Indoor unit start / stop	Stop [1]											Start							

1) No cut / stop: AHU system / indoor unit is completely switched OFF.
2) No limit: No restrictions applied by BMS to AHU system / indoor unit performance (equivalent to "full-load operation" of AHU system / indoor unit).

AHU connection kit.

PCB, power trans, terminal block.

Thermistor x2 (refrigerant: E1, E2).

Thermistor (air: TA; 1 sensor).

Wired remote controller.
CZ-RTC6BL.

Optional controller.

Timer remote controller.
CZ-RTC5B.

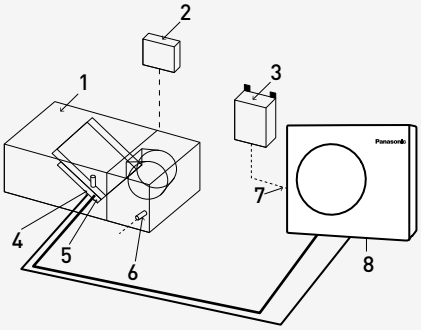
PACi

AHU connection kit PAH3M-1 for PACi NX

CONEX Bluetooth® control built-in.
CZ-RTC6BL

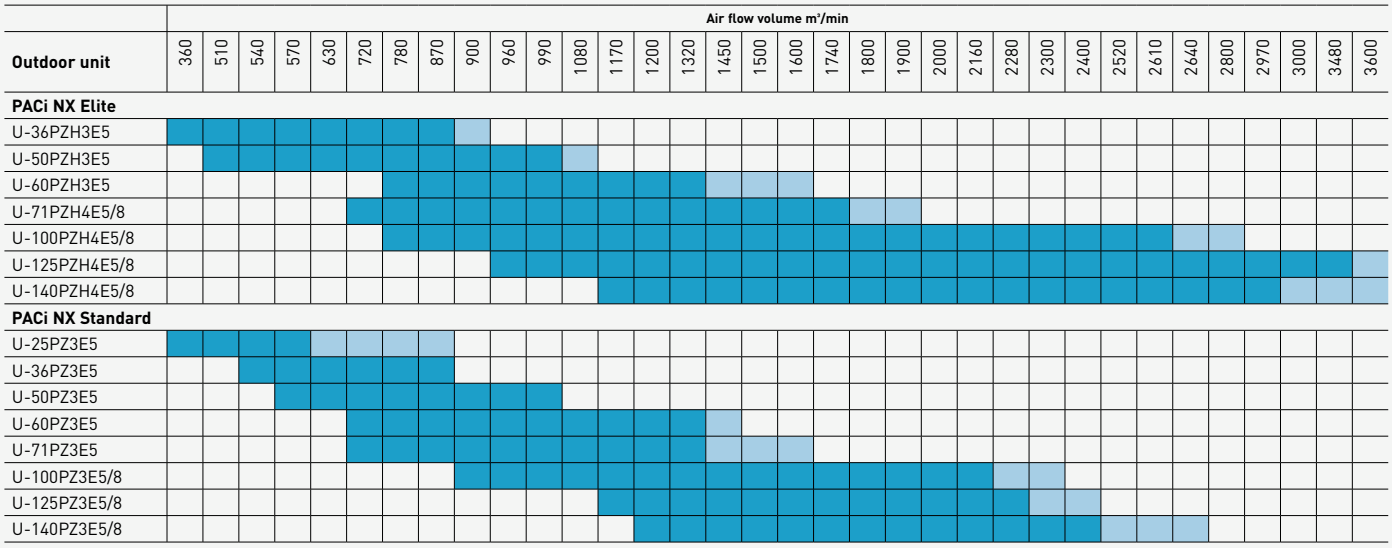
Panasonic

PAW-280PAH3M-1			2,5 kW	3,6 kW	5,0 kW	6,0 kW	7,5 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
Dimension	H x W x D	mm	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150	500 x 400 x 150
Net weight		kg	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,5
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)
	Gas	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	7/8 (22,22)	7/8 (22,22)	7/8 (22,22)
Intake temperature of AHU connection kit	Cool Min ~ Max	°C DB	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32	18 ~ 32
	Cool Min ~ Max	°C WB	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	14 ~ 25	—	—
	Heat Min ~ Max	°C	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30	16 ~ 30
With PACi NX Elite												
Cooling capacity		kW	—	3,6	5,0	6,0	7,1	10,0	12,5	14,0	19,0	22,0
Heating capacity		kW	—	4,0	5,6	7,0	8,0	11,2	14,0	16,0	22,4	24,0
Air flow	Min / Max	m³/h	—	540/870	630/990	780/1320	780/1320	900/2160	1140/2280	1200/2400	2160/8000	2160/9000
Pipe length range		m	—	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 60	5 ~ 100	5 ~ 100	5 ~ 100	5 ~ 100	5 ~ 100
Elevation difference (in / out)	Max	m	—	30	30	30	30	30	30	30	30	30
Ambient temperature of outdoor unit	Cool Min ~ Max	°C	—	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-20 ~ +48	-20 ~ +48	-20 ~ +48	-15 ~ +52	-15 ~ +52
	Heat Min ~ Max	°C	—	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +35	-20 ~ +35
With PACi NX Standard												
Cooling capacity		kW	2,5	3,6	5,0	6,0	7,1	10,0	12,5	14,0	—	—
Heating capacity		kW	3,2	4,0	5,0	6,0	7,1	10,0	12,5	14,0	—	—
Air flow	Min / Max	m³/h	360 / 570	540/870	630/990	780/1320	780/1320	900/2160	1140/2280	1200/2400	—	—
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 20	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 50	5 ~ 50	—	—
Elevation difference (in / out)	Max	m	15	30	30	30	30	30	30	30	—	—
Ambient temperature of outdoor unit	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	—	—
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	—	—



System and regulations. System overview.

1 | AHU equipment (field supplied)
2 | AHU system controller (field supplied)
3 | AHU connection kit controller box (with control PCB)
4 | Thermistor for gas pipe (E2)
5 | Thermistor for liquid pipe (E1)
6 | Thermistor for suction air
7 | Inter-unit wiring
8 | Outdoor unit



Maximum allowed air volume flow under "Standard conditions".

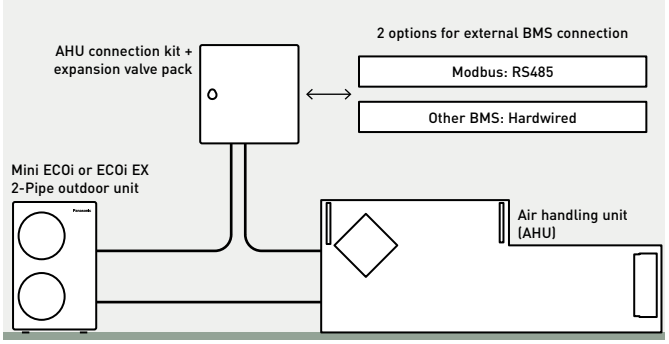
Higher maximum allowed air volume flow under "Special conditions" [1]: Maximum allowed air intake temperature at AHU DX coil heat exchanger in cooling mode is restricted to 30 °C DB.

1) Using an AHU unit with a higher maximum allowed air volume flow is subject to a restriction of the "Air intake temperature" to 30 °C DB (instead of 32 °C WB under standard conditions).

AHU connection kit MAH4M for ECOi 2-Pipe

System example with AHU connection kit MAH4M and Mini ECOi outdoor unit.

- AHU connection kit in an IP 65 casing, contains PCBs and terminal connections mounted inside
- Select the size of the expansion valve pack based on the capacity
- Direct Modbus communication with a built-in Modbus S-Link interface
- The heat exchanger, fan, and fan motor to be mounted in the AHU are field-supplied



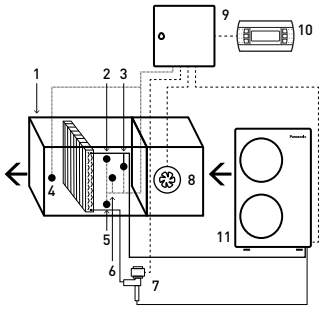
Demand control on the outdoor unit managed by external 0-10 V signal.

0-10 V control

With 0-10 V demand control, the outdoor unit capacity can be adjusted in each 5% demand step. Temperature set control (default discharge temperature control) is also available in each 0,5 K step.

Input voltage* (V)	0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5	9,0	9,5
Demand (% of nominal current)	No cut [1]	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	No limit / Full capacity [2]
Indoor unit start / stop	Stop [1]											Start							

1) No cut / stop: AHU system / indoor unit is completely switched OFF.
2) No limit: No restrictions applied by BMS to AHU system / indoor unit performance (equivalent to "full-load operation" of AHU system / indoor unit).



System and regulations. System overview.

1 | AHU Unit equipment (field supplied)
2 | Thermistor for gas pipe (E3)
3 | Pressure transductor
4 | Thermistor for discharge air (BL)
5 | Thermistor for liquid pipe (E1)
6 | Thermistor for suction air (TA)
7 | Expansion valve (accessorie part)
8 | Fan (field supplied)
9 | AHU connection kit controller box
10 | Optional remote controller
11 | Outdoor unit Mini ECOi and 2-Pipe ECOi EX

Optional parts for AHU connection kit MAH4M.

EEV (Electric expansion valve) pack.
EEV controls refrigerant circuit superheat (or subcooling), directly managed by the c.pCO mini controller. Different sizes based on capacity.

EEV pack 1: includes one expansion valve (≤ 16,0 kW (R32 / R410A) , one unipolar stator, and two bidirectional filters	PAW-P+116EEVPACK
EEV pack 2: includes one expansion valve (≤ 33,0 kW (R32 / R410A) , one unipolar stator, and two bidirectional filters	PAW-P+133EEVPACK
EEV pack 3: includes one expansion valve (≤ 45,0 kW (R32 / R410A) , one unipolar stator, and two bidirectional filters	PAW-P+145EEVPACK
EEV pack 4: includes one expansion valve (≤ 61,5 kW (R32 / R410A) , one unipolar stator, and two bidirectional filters	PAW-P+156EEVPACK
EEV pack 5: includes one expansion valve (≤ 96,0 kW (R32 / R410A) , one unipolar stator, and two bidirectional filters	PAW-P+174EEVPACK

*Example image.

Remote control pack.
PAW-P+100PGNEPACK.
Graphic display remote control, managing both icons and international fonts.

AHU connection kit sensor pack.
PAW-P+102SENSPACK.
AHU connection kit sensor pack 1 (2 pcs of SENSOR PT1000 HT IP67 -50/250 CABLE 6 m PCK).

AHU connection kit MAH4M for ECOi 2-Pipe · R32

- Space-saving compact casing
- Direct Modbus communication without the need for an additional interface
- Accurate control with a pressure transducer
- PAW-P+100MAH4M (H x W x D): 300 x 400 x 150 mm, 11 kg

R32

Built-in controller.

ECO i EX ECO i

AHU kit PAW-P+100MAH4M			4 HP	5 HP	6 HP	8 HP LZ2	8 HP MZ1	10 HP LZ2	10 HP MZ1	12 HP
AHU connection kit			116EEVPACK	116EEVPACK	116EEVPACK	116EEVPACK	116EEVPACK	133EEVPACK	133EEVPACK	133EEVPACK
Outdoor unit			U-4LZ2E5(8)	U-5LZ2E5(8)	U-6LZ2E5(8)	U-8LZ2E8	U-8MZ1E8	U-10LZ2E8	U-8MZ1E8	U-10MZ1E8
Nominal cooling capacity		kW	12,0	14,0	16,0	22,4	22,4	28,0	28,0	33,5
Nominal heating capacity		kW	12,5	16,0	17,0	25,0	25,0	28,0	31,5	37,5
Minimum cooling continuous [1]		kW	6,6	6,6	6,6	6,6	6,6	10,7	10,7	10,7
Minimum heating continuous [2]		kW	7,4	7,4	7,4	7,4	7,4	12,1	12,1	12,1
Air flow volume	Min	m³/h	1100	1100	1100	1700	1700	2000	2000	2000
	Max	m³/h	4000	5000	5000	8000	10000	8600	10000	10000
AHU DX coil heat exchanger volume	Min	dm³	1,5	1,5	1,5	2,0	2,0	2,0	2,0	2,0
	Max	dm³	5,5	6,3	7,0	7,0	8,5	7,0	10,0	12,0
Piping length	Min / Max	m	10/60	10/60	10/60	10/70	10/100	10/70	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10	10	10
Piping connections EEV		mm	8	8	8	10	10	10	10	10
Piping diameter branch pipe	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)	3/4 (19,05)	7/8 (22,22)	3/4 (19,05)	7/8 (22,22)
On coil temperature	Cool Min ~ Max	°C DB	12/32	12/32	12/32	12/32	12/32	12/32	12/32	12/32
		°C WB	8~25	8~25	8~25	8~25	8~25	8~25	8~25	8~25
	Heat Min ~ Max	°C DB	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10~52	-10~52	-10~52	-10~52	-10~50	-10~52	-10~50	-10~50
	Heat Min ~ Max	°C WB	-20~18	-20~18	-20~18	-20~18	-25~24 [4]	-20~18	-25~24 [4]	-25~24 [4]

1) At rated condition with 35 °C DB outdoor and 27 °C DB / 19 °C WB on coil. 2) At rated condition with 7 °C DB / 6 °C WB outdoor and 20°C DB on coil. 3) In case of on coil temperature of 5 °C or below and of 31 °C and above air flow would be restricted. 4) In case of on coil temperature > +18 °C WB in heating mode, intermittent operation could happen.

Technical focus

- Maximum capacity / system: 48 HP (134 kW*)
- Selectable expansion valve packs depending on the capacity
- DC 12 V outlet available without optional interface
- Maximum elevation difference indoor/outdoor unit: 10 m
- Elevation difference (indoor unit / indoor unit): 4 m
- In / out connection capacity ratio: 50~100%
- Maximum number of AHU connection kits: 1 unit
- Outdoor temperature range in heating: -20~+15 °C
- Available temperature range for the suction air at AHU connection kit: cool: +18~+32 °C / heat: +16~+30 °C
- The system's set temperature can be selected either as the default setting discharge air temperature (supply room temperature) or the suction air set temperature (or room return air temperature)
- Accurate control with a pressure transducer
- Direct Modbus communication with a built-in Modbus S-Link interface
- Various technical parameters available with Modbus
- SG Ready fulfilled. Demand input can be set Thermostat OFF or 40~200% by the user
- Defrost operation signal, compressor status ON / OFF output
- Display an error message concerning drain water overflow
- Connectable with S-Link system. Special care for electrical noise may be necessary depending on the on-site system
- Fan control signal output to manage the air flow (ON / OFF)
- Alarm status monitoring output

*Nominal cooling capacity.

Accessories	
PAW-P+102SENSPACK	AHU connection kit sensor pack 1 (2 pcs of SENSOR PT1000 HT IP67 -50/250 CABLE 6 m PCK)
PAW-P+116EEVPACK	EEV pack 1 (1 pc of expansion valve ≤ 16,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+133EEVPACK	EEV pack 2 (1 pc of expansion valve ≤ 33,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+145EEVPACK	EEV pack 3 (1 pc of expansion valve ≤ 45,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)

Accessories	
PAW-P+156EEVPACK	EEV pack 4 (1 pc of expansion valve ≤ 61,5 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+174EEVPACK	EEV pack 5 (1 pc of expansion valve ≤ 96,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+100PGNEPACK	Remote control pack (1 pc of PGNE 132 x 64 mm, mounting panel and 1 pc of cable L= 1,5 m, telephone connectors)

R32

AHU connection kit MAH4M for ECOi 2-Pipe combination from 16 to 48 HP · R32

Built-in controller.

AHU kit PAW-P+100MAH4M			16 HP	18 HP	20 HP	22 HP	24 HP	26 HP	28 HP	30 HP
AHU connection kit			145EEVPACK	145EEVPACK	145EEVPACK	145EEVPACK	156EEVPACK	156EEVPACK	156EEVPACK	174EEVPACK
Outdoor unit			2×U-8MZ1E8	U-8MZ1E8 + U-10MZ1E8	2×U-10MZ1E8	U-10MZ1E8 + U-12MZ1E8	2×U-12MZ1E8	2×U-8MZ1E8 + U-10MZ1E8	U-8MZ1E8 + 2×U-10MZ1E8	3×U-10MZ1E8
Multi combination			8+8	8+10	10+10	10+12	12+12	8+8+10	8+10+10	10+10+10
Nominal cooling capacity		kW	44,8	50,4	56,0	61,5	67,0	72,8	78,4	84,0
Nominal heating capacity		kW	50,0	56,5	63,0	69,0	75,0	81,5	88,0	94,5
Minimum cooling continuous [1]		kW	15,9	15,9	15,9	15,9	23,3	23,3	23,3	32,8
Minimum heating continuous [2]		kW	18,0	18,0	18,0	18,0	26,3	26,3	26,3	37,1
Air flow volume	Min	m³/h	3400	3700	4000	4000	4000	5400	5700	6000
	Max	m³/h	16000	20000	20000	20000	20000	24000	26000	30000
AHU DX coil heat exchanger volume	Min	dm³	4,0	4,0	4,0	4,0	4,0	6,0	6,0	6,0
	Max	dm³	15,0	18,0	20,0	22,0	24,0	27,0	28,5	30,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10	10	10
Piping connections EEV		mm	10	10	10	10	16	16	16	7/8"
Piping diameter branch pipe	Liquid	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)
	Gas	Inch (mm)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 3/8 (34,98)
On coil temperature	Cool Min ~ Max	°C DB	12~32	12~32	12~32	12~32	12~32	12~32	12~32	12~32
		°C WB	8~25	8~25	8~25	8~25	8~25	8~25	8~25	8~25
	Heat Min ~ Max	°C DB	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50
	Heat Min ~ Max	°C WB	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]

AHU kit PAW-P+100MAH4M			32 HP	34 HP	36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
AHU connection kit			174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK
Outdoor unit			2×U-10MZ1E8 + U-12MZ1E8	U-10MZ1E8 + 2×U-12MZ1E8	3×U-12MZ1E8	U-8MZ1E8 + 3×U-10MZ1E8	4×U-10MZ1E8	3×U-10MZ1E8 + U-12MZ1E8	2×U-10MZ1E8 +2×U-12MZ1E8	U-10MZ1E8 + 3×U-12MZ1E8	4×U-12MZ1E8
Multi combination			10+10+12	10+12+12	12+12+12	8+10+10+10	10+10+10+10	10+10+10+12	10+10+12+12	10+12+12+12	12+12+12+12
Nominal cooling capacity		kW	89,5	95,0	100,0	106,0	112,0	117,0	123,0	128,0	134,0
Nominal heating capacity		kW	100,0	106,0	112,0	119,0	126,0	132,0	138,0	144,0	150,0
Minimum cooling continuous [1]		kW	32,8	32,8	32,8	32,8	32,8	32,8	32,8	32,8	32,8
Minimum heating continuous [2]		kW	37,1	37,1	37,1	37,1	37,1	37,1	37,1	37,1	37,1
Air flow volume	Min	m³/h	6000	6000	6000	7700	8000	8000	8000	8000	8000
	Max	m³/h	30000	30000	30000	34000	36000	38000	40000	40000	40000
AHU DX coil heat exchanger volume	Min	dm³	6,0	6,0	6,0	8,0	8,0	8,0	8,0	8,0	8,0
	Max	dm³	32,0	34,0	36,0	38,0	40,0	42,0	44,0	46,0	48,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10	10	10	10
Piping connections EEV		mm	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Piping diameter branch pipe	Liquid	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
	Gas	Inch (mm)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)	1 3/8 (34,98)
On coil temperature	Cool Min ~ Max	°C DB	12~32	12~32	12~32	12~32	12~32	12~32	12~32	12~32	12~32
		°C WB	8~25	8~25	8~25	8~25	8~25	8~25	8~25	8~25	8~25
	Heat Min ~ Max	°C DB	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]	0~32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50	-10~50
	Heat Min ~ Max	°C WB	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]	-25~24 [4]

1) At rated condition with 35 °C DB outdoor and 27 °C DB / 19 °C WB on coil. 2) At rated condition with 7 °C DB / 6 °C WB outdoor and 20°C DB on coil. 3) In case of on coil temperature of 5 °C or below and of 31 °C and above air flow would be restricted. 4) In case of on coil temperature > +18 °C WB in heating mode, intermittent operation could happen.

AHU connection kit MAH4M for ECOi 2-Pipe · R410A

- Space-saving compact casing
- Direct Modbus communication without the need for an additional interface
- Accurate control with a pressure transducer
- PAW-P+100MAH4M (H x W x D): 300 x 400 x 150 mm, 11 kg

Built-in controller.

ECO i EX ECO i

AHU kit PAW-P+100MAH4M			4 HP	5 HP	6 HP	8 HP LE1	8 HP ME2	10 HP LE1
AHU connection kit			116EEVPACK	116EEVPACK	116EEVPACK	133EEVPACK	133EEVPACK	133EEVPACK
Outdoor unit			U-4LE2E5(8)	U-5LE2E5(8)	U-6LE2E5(8)	U-8LE1E8	U-8ME2E8	U-10LE1E8
Nominal cooling capacity		kW	12,0	14,0	16,0	22,4	22,4	28,0
Nominal heating capacity		kW	12,5	16,0	17,0	25,0	25,0	31,5
Minimum cooling continuous [1]		kW	4,3	4,3	4,3	7,0	7,0	7,0
Minimum heating continuous [2]		kW	5,0	5,0	5,0	8,1	8,1	8,1
Air flow volume	Min	m³/h	1100	1100	1100	1700	1700	2000
	Max	m³/h	4000	5000	5000	8000	10000	8600
AHU DX coil heat exchanger volume	Min	dm³	1,5	1,5	1,5	2,0	2,0	2,0
	Max	dm³	5,5	6,3	7,0	7,0	10,0	7,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10
Piping connections EEV		mm	8	8	8	10	10	10
Piping diameter branch pipe	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)	3/4 (19,05)	7/8 (22,22)
On coil temperature	Cool Min ~ Max	°C DB	12/32	12/32	12/32	12/32	12/32	12/32
		°C WB	8/25	8/25	8/25	8/25	8/25	8/25
	Heat Min ~ Max	°C DB	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10/46	-10/46	-10/46	-10/46	-10/46	-10/46
	Heat Min ~ Max	°C WB	-20/18	-20/18	-20/18	-20/18	-25/18	-20/18

AHU kit PAW-P+100MAH4M			10 HP ME2	12 HP	14 HP	16 HP	18 HP	20 HP
AHU connection kit			133EEVPACK	133EEVPACK	145EEVPACK	145EEVPACK	145EEVPACK	156EEVPACK
Outdoor unit			U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-18ME2E8	2×U-10ME2E8
Nominal cooling capacity		kW	28,0	33,5	40,0	45,0	50,0	56,0
Nominal heating capacity		kW	31,5	37,5	45,0	50,0	56,0	63,0
Minimum cooling continuous [1]		kW	7,0	7,0	10,4	10,4	10,4	15,3
Minimum heating continuous [2]		kW	8,1	8,1	12,0	12,0	12,0	17,5
Air flow volume	Min	m³/h	2000	2000	3500	3500	5000	5000
	Max	m³/h	10000	10000	12000	12000	20000	20000
AHU DX coil heat exchanger volume	Min	dm³	2,0	3,0	3,0	4,0	4,0	4,0
	Max	dm³	10,0	17,0	17,0	17,0	19,0	19,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10
Piping connections EEV		mm	10	10	10	10	10	16
Piping diameter branch pipe	Liquid	Inch (mm)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)
	Gas	Inch (mm)	7/8 (22,22)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)
On coil temperature	Cool Min ~ Max	°C DB	12/32	12/32	12/32	12/32	12/32	12/32
		°C WB	8/25	8/25	8/25	8/25	8/25	8/25
	Heat Min ~ Max	°C DB	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10/46	-10/46	-10/46	-10/46	-10/46	-10/46
	Heat Min ~ Max	°C WB	-25/18	-25/18	-25/18	-25/18	-25/18	-25/18

1) At rated condition with 35 °C DB outdoor and 27 °C DB / 19 °C WB on coil. 2) At rated condition with 7 °C DB / 6 °C WB outdoor and 20°C DB on coil. 3) In case of on coil temperature of 5 °C or below and of 31 °C and above air flow would be restricted.

AHU connection kit MAH4M for ECOi 2-Pipe combination from 22 to 34 HP · R410A

Built-in controller.

AHU kit PAW-P+100MAH4M			22 HP	24 HP	26 HP	28 HP	30 HP	32 HP	34 HP
AHU connection kit			156EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK	174EEVPACK
Outdoor unit			U-10ME2E8 + U-12ME2E8	2×U-12ME2E8	U-10ME2E8 + U-16ME2E8	U-12ME2E8 + U-16ME2E8	U-14ME2E8 + U-16ME2E8	2×U-16ME2E8	U-14ME2E8 + U-20ME2E8
Multi combination			10+12	12+12	10+16	12+16	14+16	16+16	14+20
Nominal cooling capacity		kW	61,5	68,0	73,0	78,5	85,0	90,0	96,0
Nominal heating capacity		kW	69,0	76,5	81,5	87,5	95,0	100,0	108,0
Minimum cooling continuous [1]		kW	15,3	21,5	21,5	21,5	21,5	21,5	21,5
Minimum heating continuous [2]		kW	17,5	24,7	24,7	24,7	24,7	24,7	24,7
Air flow volume	Min	m³/h	6000	6000	6000	6000	7000	7000	8500
	Max	m³/h	24000	24000	24000	25000	25000	25000	30000
AHU DX coil heat exchanger volume	Min	dm³	5,0	6,0	6,0	6,0	6,0	6,0	7,0
	Max	dm³	27,0	34,0	27,0	34,0	34,0	34,0	36,0
Piping length	Min / Max	m	10/100	10/100	10/100	10/100	10/100	10/100	10/100
Maximum branch pipe length		m	12	12	12	12	12	12	12
Maximum pipe length difference after 1st joint		m	10	10	10	10	10	10	10
Maximum elevation difference (in / out)		m	10	10	10	10	10	10	10
Piping connections EEV		mm	16	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Piping diameter branch pipe	Liquid	Inch (mm)	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)	3/4 (19,05)	3/4 (19,05)	3/4 (19,05)	3/4 (19,05)
	Gas	Inch (mm)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/4 (31,75)	1 1/4 (31,75)	1 1/4 (31,75)	1 1/4 (31,75)	1 1/4 (31,75)
On coil temperature	Cool Min ~ Max	°C DB	12/32	12/32	12/32	12/32	12/32	12/32	12/32
		°C WB	8/25	8/25	8/25	8/25	8/25	8/25	8/25
	Heat Min ~ Max	°C DB	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]	0/32 [3]
Outdoor temperature	Cool Min ~ Max	°C DB	-10/46	-10/46	-10/46	-10/46	-10/46	-10/46	-10/46
	Heat Min ~ Max	°C WB	-25/18	-25/18	-25/18	-25/18	-25/18	-25/18	-25/18

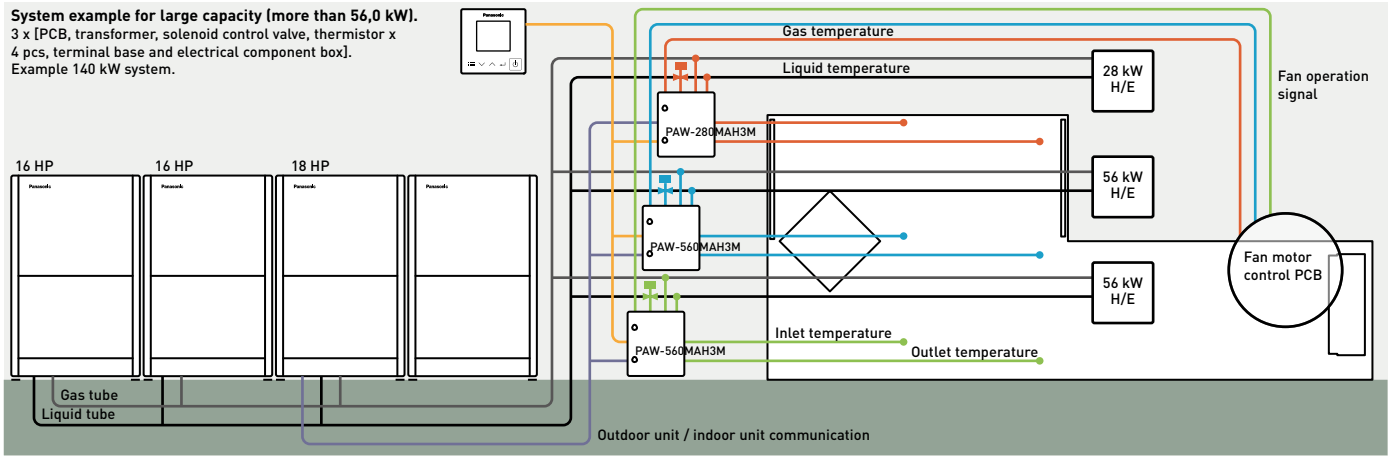
1) At rated condition with 35 °C DB outdoor and 27 °C DB / 19 °C WB on coil. 2) At rated condition with 7 °C DB / 6 °C WB outdoor and 20°C DB on coil. 3) In case of on coil temperature of 5 °C or below and of 31 °C and above air flow would be restricted.

Accessories	
PAW-P+102SENSPACK	AHU connection kit sensor pack 1 (2 pcs of SENSOR PT1000 HT IP67 -50/250 CABLE 6 m PCK)
PAW-P+116EEVPACK	EEV pack 1 (1 pc of expansion valve ≤ 16,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+133EEVPACK	EEV pack 2 (1 pc of expansion valve ≤ 33,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+145EEVPACK	EEV pack 3 (1 pc of expansion valve ≤ 45,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)

Accessories	
PAW-P+156EEVPACK	EEV pack 4 (1 pc of expansion valve ≤ 61,5 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+174EEVPACK	EEV pack 5 (1 pc of expansion valve ≤ 96,0 kW (R32 / R410A) and 1 pc of UNIPOLAR stator and filter strainers)
PAW-P+100PGNEPACK	Remote control pack (1 pc of PGNE 132 x 64 mm, mounting panel and 1 pc of cable L= 1,5 m, telephone connectors)

AHU connection kit MAH3M for 3-Pipe ECOi EX MF3 Series

ECOi outdoor units shall be used for AHU connection kit. 2 models for VRF system: 5 HP (PAW-160MAH3M) and 10 HP (PAW-280MAH3M).



AHU connection kit MAH3M for 3-Pipe ECOi EX MF3 Series · R410A

CONEX

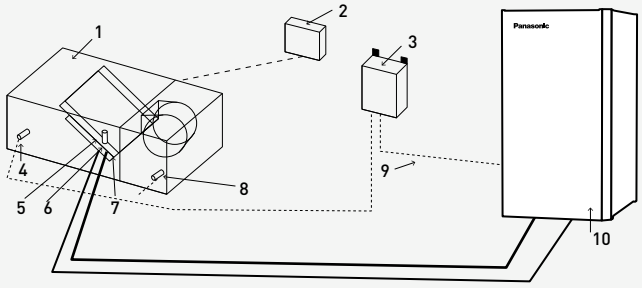
CONEX Bluetooth® control built-in.
CZ-RTC6BL

			5 HP	10 HP
Model			**PAW-160MAH3M**	**PAW-280MAH3M**
Cooling capacity		kW	14,0	28,0
Heating capacity		kW	16,0	31,5
Air flow	Cool Min / Max	m³/h	1140 / 2600	3500/ 5000
Bypass factor recommended			0,9	0,9
Dimension	H x W x D	mm	500 x 400 x 150	500 x 400 x 150
Net weight		kg	11,5	11,5
Pipe length range		m	10 ~ 100	10 ~ 100
Elevation difference (in / out)	Max	m	10	10
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Gas	Inch (mm)	5/8 (15,88)	7/8 (22,22)
Intake temperature of AHU connection kit	Cool Min ~ Max	°C DB	+18 ~ +32	+18 ~ +32
	Cool Min ~ Max	°C WB	+13 ~ +23	+13 ~ +23
	Heat Min ~ Max	°C	+16 ~ +30	+16 ~ +30
Ambient temperature of outdoor unit	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-20 ~ +15	-20 ~ +15

Technical focus

- Maximum capacity / system: 10 HP (28 kW)
- Maximum piping length: 100 m (120 m equivalent)
- Elevation difference (indoor unit / indoor unit): 4 m
- In / out capacity ratio: 50~100%
- Maximum number of AHU connection kits: 4 units*
- Outdoor temperature range in heating: -20 ~ +15 °C
- Available temperature range for the suction air at AHU connection kit: cool: +18 ~ +32 °C / heat: +16 ~ +30 °C
- The systems is controlled by the suction air (or room return air) temperature (same as standard indoor unit)
- The discharge air temperature is also controlled to prevent too-low air discharge in cooling or too-high air discharge in heating (in case of VRF)
- Demand control (forcible thermostat-OFF control by operating current)
- Defrost operation signal, Thermo-ON / OFF states output
- Drain pump control (drain pump and the float switch to be supplied in local)
- External target temperature setting via indoor / outdoor signal interface is available with CZ-CAPBC2 (Ex. 0-10 V)
- Demand control 40% to 120% (5% steps) by 0-10 V input signal
- Connectable with S-Link system. Special care for electrical noise may be necessary depending on the on-site system
- Fan control signal from the PCB can be used to control the air flow (high / mid / low and LL for Th-OFF). Need to change the fan control circuit wiring at field

*To be simultaneous operation controlled by one remote controller sensor.



System and regulations. System overview.

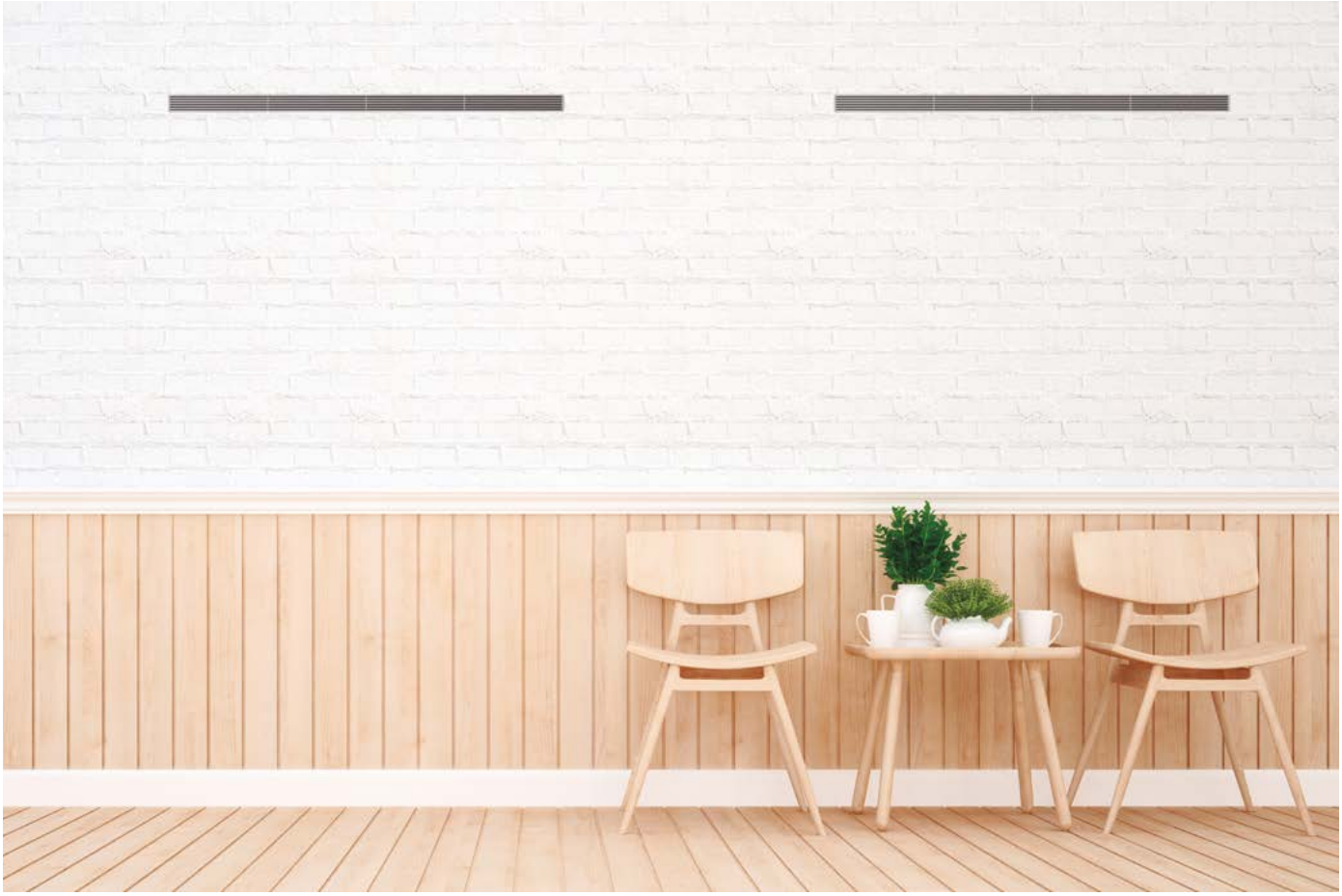
1 | AHU Unit equipment (field supplied)
2 | AHU Unit system controller (field supplied)
3 | AHU connection kit controller box (with control PCB)
4 | Thermistor for discharge air
5 | Electronic expansion valve
6 | Thermistor for gas pipe (E3)
7 | Thermistor for liquid pipe (E1)
8 | Thermistor for suction air
9 | Inter-unit wiring
10 | ECOi or ECOi G outdoor unit

Optional controller.

Timer remote controller.
CZ-RTC5B.

Advanced energy recovery ventilation - ZY Series

Indoor air quality (IAQ) is a key consideration for any business owner looking to create a healthy and comfortable environment.

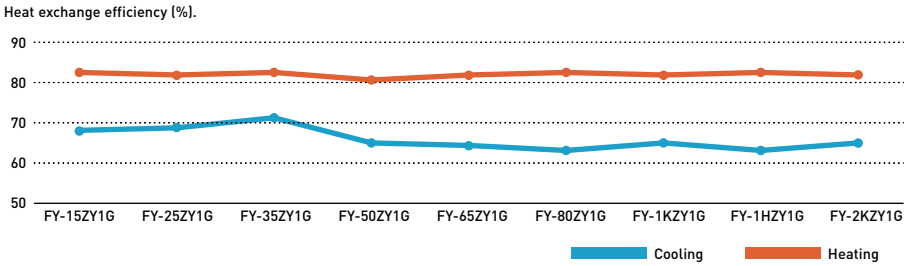


An energy recovery ventilator (ERV) provides balanced, energy efficient ventilation by transferring heat and moisture between incoming fresh filtered air and outgoing stale air. In the winter, an ERV keeps heat and moisture inside the building. During hot, humid summer months, it maintains cool, dry indoor air.

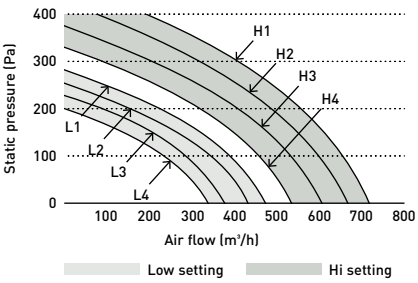
Recovers up to 83% of the heat in the outgoing air

ZY Series achieves more than 80% of heat exchange efficiency in all the line-up [1]. The high recovery rate optimizes operation cost and can be considered as a sustainable solution.

1) Heating operation, H1 speed setting.



Ventilation volume setting PQ curve example.



Easy adjust for air volume balance

DC motors are equipped with independent control settings for air supply and exhaust. Air volume balance can be easily adjusted with 4 speeds settings for each Hi / Low operation.

Advanced energy recovery ventilation - ZY Series

- Extended 9 model line-up including 2000 m³/h model
- DC motors
- ESP up to 150 Pa
- F7 grade filter built-in as a standard
- Intuitive remote controller
- BMS integration with RS485

Rated flow rate			150 m³/h	250 m³/h	350 m³/h	500 m³/h	650 m³/h	800 m³/h	1000 m³/h	1500 m³/h	2000 m³/h
Indoor unit			FV-15ZY1G	FV-25ZY1G	FV-35ZY1G	FV-50ZY1G	FV-65ZY1G	FV-80ZY1G	FV-1KZY1G	FV-1HZY1G	FV-2KZY1G
Power supply	Voltage	V	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240	220 - 240
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50
Motor type			DC	DC	DC	DC	DC	DC	DC	DC	DC
ERV											
Air flow	Max	m³/h	150	250	350	500	650	800	1000	1500	2000
External static pressure	Max	Pa	100	120	140	130	150	150	150	130	130
Sound pressure 2)	Max	dB(A)	37	38	39	43	45	45	46	49	51
Input power	Max	W	76 ~ 84	106 ~ 117	141 ~ 155,5	180 ~ 198	420 ~ 462	470 ~ 517	550 ~ 605	940 ~ 1034	1100 ~ 1210
Heat exchange efficiency 3)											
Cooling	Max	%	68,0	69,0	71,0	65,0	64,0	63,0	65,0	63,0	65,0
Heating	Max	%	83,0	82,0	83,0	81,0	82,0	83,0	82,0	83,0	82,0
Enthalpy exchange efficiency											
Cooling	Max	%	66,0	66,0	67,0	62,5	62,5	63,5	63,0	63,5	63,0
Heating	Max	%	76,0	74,0	75,0	73,0	72,0	73,0	74,0	73,0	74,0
Adapter diameter		mm	100	150	150	200	200	250	250	250	250
Dimension	H x W x D	mm	289 x 610 x 860	289 x 735 x 860	331 x 874 x 968	331 x 1016 x 968	404 x 954 x 1008	404 x 1004 x 1224	404 x 1231 x 1224	808 x 1004 x 1224	808 x 1231 x 1224
Net weight		kg	23	27	37	40	48	60	64	119	142

1) Different dimensions depending on models. 2) Measurement of noise 1,5 m below the center of the main unit (anechoic chamber). 3) Heat exchange efficiency measurement standard JIS B 8628 (2003).
*JIS B 8628 (2017) is used in the measurement environment. *A remote controller is included.

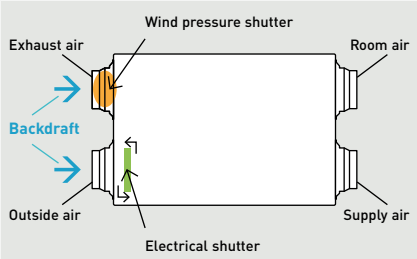
Accessories	
FV-FP15ZY1G	Replacement high-efficiency filter for FV-15ZY1G
FV-FP25ZY1G	Replacement high-efficiency filter for FV-25ZY1G
FV-FP35ZY1G	Replacement high-efficiency filter for FV-35ZY1G
FV-FP50ZY1G	Replacement high-efficiency filter for FV-50ZY1G

Accessories	
FV-FP65ZY1G	Replacement high-efficiency filter for FV-65ZY1G
FV-FP80ZY1G	Replacement high-efficiency filter for FV-80ZY1G and FV-1HZY1G 1)
FV-FP1KZY1G	Replacement high-efficiency filter for FV-1KZY1G and FV-2KZY1G 1)

1) 2 sets of filters required for those models.

Highly efficient filter for better air supply

An effective EN F7 grade filter is built-in as a standard. Expected cleaning maintenance cycle is once per month, with an average of 4-6 months for replacement in high demand environments.



Backdraft shutters equipped as standard

A backdraft shutter prevents air flowing in the wrong direction when the ERV system is not in operation.
The shutter at OA (outside air intake) side is inter-locked with ON / OFF switch.
The shutter at EA (exhaust air outlet) side opens with the pressure generated by air stream then closes automatically.

Intuitive remote controller with RS485 connection.

- Simple and clean screen with white back light panel
- RS485 terminal equipped to integrate with Building Management Systems
- Metal switch box is included in the package

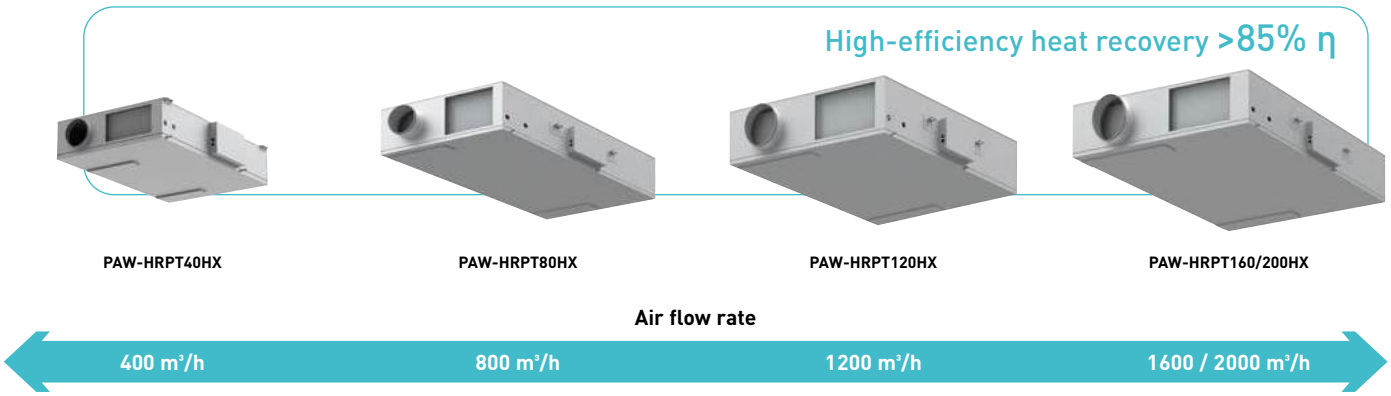
Energy recovery ventilation with DX coil - HRPT Series for VRF

The HRPT Series is specifically designed for commercial applications or collective residential buildings, offering highly efficient heat recovery of up to 85,2%. It's an ideal solution to achieve the highest energy certification for buildings in the tertiary, industrial and collective residential sectors including centralized condominium systems.

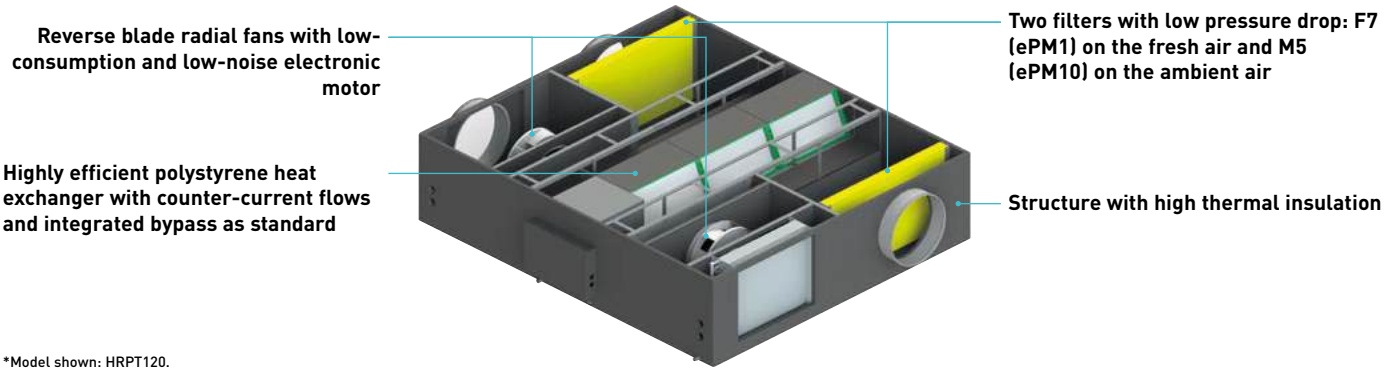
Highly efficient and flexible

The HRPT Series is a dual flow ventilation with an EC fan, ensuring high-efficiency heat recovery (>85% η). The series includes five models with air flow rates from 400 to 2000 m³/h. Two types of polystyrene heat exchangers (high-efficiency and sensible) are provided to meet a range of requirements.

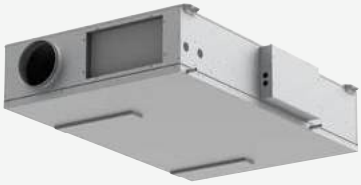
HRPT Series line-up



Quality meets efficiency. Explore the HRPT Series



*Model shown: HRPT120.



Energy recovery ventilation with DX coil - HRPT Series · R32 / R410A

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit with high-efficiency heat exchanger			PAW-HRPT40HX		PAW-HRPT80HX		PAW-HRPT120HX		PAW-HRPT160HX		PAW-HRPT200HX	
Power supply	Voltage	V	230		230		230		230		380	
	Phase		Single phase		Single phase		Single phase		Single phase		Three phase	
	Frequency	Hz	50		50		50		50		50	
Heat recovery ventilation [1]			**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**
Temperature efficiency		%	63,4	76,7	60,0	73,5	61,4	75,0	62,2	76,0	59,4	73,2
Enthalpy efficiency		%	52,3	53,2	47,8	49,2	49,5	50,7	50,0	51,2	46,8	48,3
Weight		kg	70		114		150		184		194	

Indoor unit with sensible heat exchanger			PAW-HRPT40		PAW-HRPT80		PAW-HRPT120		PAW-HRPT160		PAW-HRPT200	
Power supply	Voltage	V	230		230		230		230		380	
	Phase		Single phase		Single phase		Single phase		Single phase		Three phase	
	Frequency	Hz	50		50		50		50		50	
Heat recovery ventilation [1]			**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**
Temperature efficiency		%	84,6	84,9	84,3	84,7	84,8	85,2	84,7	85,1	83,8	84,2
Weight		kg	66		110		145		180		190	

Common data												
DX coil [2]			**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**	**Cooling**	**Heating**
Total / Sensible capacity		kW	3,0 / 2,4	3,2	6,0 / 4,1	6,2	8,0 / 5,5	8,3	10,0 / 7,1	11,0	12,5 / 8,6	12,8
Maximum input current		A	1,5		2,2		4,1		4,4		3,3	
Sound pressure @1 m / @3 m		dB(A)	41 / 35		51 / 43		42 / 36		49 / 41		57 / 49	
Air flow	Nominal	m³/h	400		800		1200		1600		2000	
External static pressure	High	Pa	150		150		150		150		150	
Dimension	H x W x D	mm	286 x 1003 x 1475		425 x 1226 x 1878		425 x 1628 x 1878		425 x 2030 x 1720		425 x 2030 x 1878	
Piping diameter	Liquid	Inch (mm)	1/4 (6,35)		1/4 (6,35)		3/8 (9,52)		3/8 (9,52)		3/8 (9,52)	
	Gas	Inch (mm)	1/2 (12,70)		1/2 (12,70)		5/8 (15,88)		5/8 (15,88)		5/8 (15,88)	

1) Data refers to the following conditions (UNI EN 13141-7): nominal air flow, heating external air 5 °C with 72% r. / expelled air 25 °C with 28% r. - cooling 35 °C with 40% / expelled air 27 °C with 48%. 2) Data refers to the following conditions: nominal air flow, cooling inlet coil summer 27 °C with 48% / heating inlet coil winter 20 °C with 50% r. *Image is for PAW-HRPT40.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function

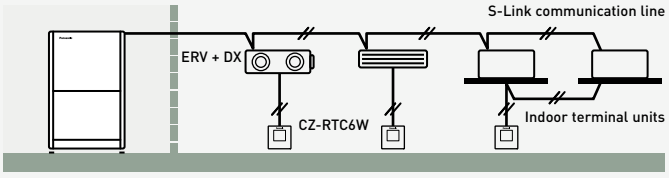
Accessories	
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black

Technical focus

- Dual flow ventilation with EC fan, featuring high-efficiency heat recovery (>85% η)
- 5 model line-up is available with air flow rates of 400, 800, 1200, 1600 and 2000 m³/h
- 2 types of polystyrene heat exchanger (high-efficiency and sensible) with counter-current flows and integrated bypass as standard
- Automatic defrosting of the exchanger
- Low consumption and EC motors with electronic speed control ensure high useful static pressure for circular inlet connection to air ducts
- Wide ambient temperature range up to +50 °C and down to -15 °C
- Modbus connection available

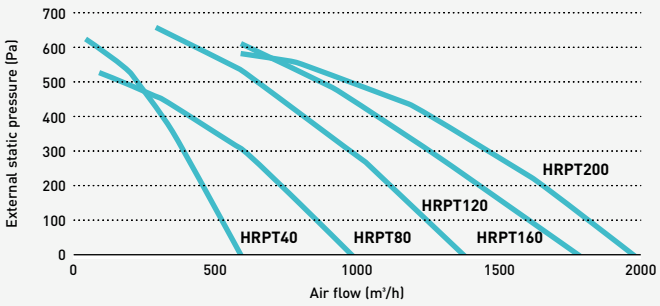
AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | BMS CONNECTIVITY

Interconnection to outdoor / indoor units



Aeraulic performance

EC motors with electronic speed control ensure high values of effective static pressure for ducting.



NEW! Air curtain with DX coil, connected to PACi NX systems

- Advanced defrost control without disrupting the air curtain effect or causing cold drafts
- Flexible installation: suspended as standard, cassette or built-in optional
- Quiet operation

*Includes two remote controllers: a touch screen remote controller and CZ-RTC6 installed inside of the unit for setup.

Air outlet height 2,8 m			PAW-P2-100R			PAW-P2-150R			PAW-P2-200R					PAW-P2-250R	
Outdoor unit			U-50PZH3E5	U-60PZH3E5	U-71PZH4E5/8	U-100PZH4E5/8 U-100PZ3E5/8	U-125PZH4E5/8 U-125PZ3E5/8	U-140PZH4E5/8	U-100PZH4E5/8 U-100PZ3E5/8	U-125PZH4E5/8 U-125PZ3E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8	U-200PZH4E8	U-250PZH4E8
Cooling capacity [1]	Max	kW	5,6	6,3	7,8	11,4	12,0	12,0	11,4	13,6	15,3	16,3	16,3	20,0	20,5
Heating capacity [2]	Max	kW	6,5	7,0	8,0	12,0	13,0	15,0	12,1	15,0	17,4	20,9	20,9	22,0	25,0
Air flow	High	m³/h	1800			2700			3600					4500	
Heat exchanger	Volume	L	1,60			2,80			3,90					5,10	
Electric consumption fan	230 V/50 Hz	kW	0,33			0,50			0,66					0,83	
Current	230 V/50 Hz	A	2,40			3,60			4,80					6,00	
Sound pressure [3]	Max	dB(A)	56			57			58					59	
Dimension	H x W x D (x D [4])	mm	300 x 1000 x 750 (x 890)			300 x 1500 x 750 (x 890)			300 x 2000 x 750 (x 890)					300 x 2500 x 750 (x 890)	
Net weight		kg	61			74			96					138	
Fan type			EC			EC			EC					EC	
Piping diameter [5]	Liquid/Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,7)	1/4 (6,35) / 1/2 (12,7)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	1/2 (12,70) / 7/8 (22,22)	1/2 (12,70) / 7/8 (22,22)	1/2 (12,70) / 7/8 (22,22)	1/2 (12,70) / 7/8 (22,22)
Maximum pipe length		m	40	40	60	PZH: 60, PZ: 50	PZH: 100, PZ: 50	100	PZH: 60, PZ: 50	PZH: 100, PZ: 50	100	100	100	100	100
Door width		m	1,0			1,5			2,0					2,5	
Refrigerant			R32			R32			R32					R32	

Air outlet height 3,2 m			PAW-P3-100R			PAW-P3-150R			PAW-P3-200R		PAW-P3-250R	
Outdoor unit			U-100PZH4E5/8 U-100PZ3E5/8	U-125PZH4E5/8 U-125PZ3E5/8	U-140PZH4E5/8	U-100PZH4E5/8 U-100PZ3E5/8	U-125PZH4E5/8 U-125PZ3E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8	U-200PZH4E8	U-250PZH4E8
Cooling capacity [1]	Max	kW	10,0			11,4	13,6	13,8	20,0	21,7	20,0	25,2
Heating capacity [2]	Max	kW	12,0			12,0	13,0	15,0	22,0	25,0	22,0	25,0
Air flow	High	m³/h	2400			3200			4900		5700	
Heat exchanger	Volume	L	1,60			2,80			3,90		5,10	
Electric consumption fan	230 V/50 Hz	kW	0,50			0,66			0,99		1,16	
Current	230 V/50 Hz	A	3,60			4,80			7,20		8,40	
Sound pressure [3]	Max	dB(A)	58			59			60		61	
Dimension	H x W x D (x D [4])	mm	300 x 1000 x 750 (x 890)			300 x 1500 x 750 (x 890)			300 x 2000 x 750 (x 890)		300 x 2500 x 750 (x 890)	
Net weight		kg	65			78			104		145	
Fan type			EC			EC			EC		EC	
Piping diameter [5]	Liquid/Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)			3/8 (9,52) / 5/8 (15,88)			1/2 (12,70) / 7/8 (22,22)		1/2 (12,70) / 7/8 (22,22)	
Maximum pipe length		m	PZH: 60, PZ: 50	PZH: 100, PZ: 50	100	PZH: 60, PZ: 50	PZH: 100, PZ: 50	100	100	100	100	100
Door width		m	1,0			1,5			2,0		2,5	
Refrigerant			R32			R32			R32		R32	

1) Minimum discharge temperature of 17 °C, with an air intake temperature of 27 °C, evaporation temperature of 6 °C, compressed gas temperature of 48 °C, SH 5 K, SC 15 K. 2) Air intake temperature of 20 °C, refrigerant R32, outside temperature ~ 0 °C, compressed gas temperature 70 °C, condensation temperature 49 °C (for U50/U60/U71 55 °C, for U200/U250 48 °C), SC 3 K. 3) Measured in distance from 3,0 m. 4) Depth including brackets for cassette mounting and built-in models. For built-in model height changes + 100 mm for the channels. 5) Piping diameter to outdoor unit. Air curtain port connection for all sizes is 1/2 (12,7 mm) / 7/8 (22,00 mm). For smaller models, field-supplied adapters are required to ensure proper pipe connection.

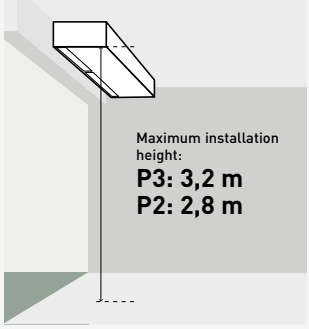
Accessories	
PAW-CDP1	Drain pump kit

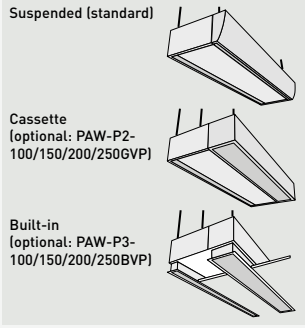
Technical focus

- Advanced defrost control maintains the air curtain effect without cold drafts
- Four air curtain lengths available: P2 and P3 – 1,0 m, 1,5 m, 2,0 m, and 2,5 m
- Installation height up to 3,2 m
- Flexible installation: suspended as standard, cassette or built-in optional*
- Includes one user-friendly touchscreen remote controller
- Effortless settings management via touchscreen control
- Optional smart temperature control automatically adjusts to outdoor conditions
- Integrated control with door sensor and BMS ON / OFF functionality
- Scalable setup: group up to 10 units for synchronized operation
- Drain pump optional

*Cassette type (PAW-P2-100/150/200/250GVP) or built-in type (PAW-P3-100/150/200/250BVP) available upon request.

Installation heights and three mounting possibilities





Touch screen remote controller*.

NEW! Air curtain with DX coil, connected to ECOi 2-Pipe

- Advanced defrost control without disrupting the air curtain effect or causing cold drafts
- Flexible installation: suspended as standard, cassette or built-in optional
- Quiet operation

*Includes two remote controllers: a touch screen remote controller and an intelligent built-in controller for setup.

Air outlet height 2,8 m			PAW-M2-100R	PAW-M2-150R	PAW-M2-200R	PAW-M2-250R
Outdoor unit minimum size			**4 HP**	**5 HP**	**8 HP**	**10 HP**
Cooling capacity [1]	Max	kW	7,6	12,0	16,3	20,5
Heating capacity [2]	Max	kW	9,4	15,0	20,7	25,6
Air flow	High	m³/h	1800	2700	3600	4500
Heat Exchanger	Volume	L	1,60	2,80	3,90	5,10
Electric consumption fan	230 V / 50 Hz	kW	0,33	0,50	0,66	0,83
Current	230 V / 50 Hz	A	2,40	3,60	4,80	6,00
Sound pressure [3]	Max	dB(A)	56	57	58	59
Dimension	H x W x D (x D [4])	mm	300 x 1000 x 750 (x 890)	300 x 1500 x 750 (x 890)	300 x 2000 x 750 (x 890)	300 x 2500 x 750 (x 890)
Net weight		kg	61	74	96	138
Fan type			EC	EC	EC	EC
Piping diameter [5]	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	1/2 (12,70) / 7/8 (22,22)
Door width		m	1,0	1,5	2,0	2,5
Refrigerant			R32 / R410A	R32 / R410A	R32 / R410A	R32 / R410A

Tentative data

Air outlet height 3,2 m			PAW-M3-100R	PAW-M3-150R	PAW-M3-200R	PAW-M3-250R
Outdoor unit minimum size			**4 HP**	**6 HP**	**10 HP**	**10 HP**
Cooling capacity [1]	Max	kW	10,0	13,8	21,7	25,2
Heating capacity [2]	Max	kW	11,4	17,0	25,7	30,2
Air flow	High	m³/h	2400	3200	4900	5700
Heat Exchanger	Volume	L	1,60	2,80	3,90	5,10
Electric consumption fan	230 V / 50 Hz	kW	0,50	0,66	0,99	1,16
Current	230 V / 50 Hz	A	3,60	4,80	7,20	8,40
Sound pressure [3]	Max	dB(A)	58	59	60	61
Dimension	H x W x D (x D [4])	mm	300 x 1000 x 750 (x 890)	300 x 1500 x 750 (x 890)	300 x 2000 x 750 (x 890)	300 x 2500 x 750 (x 890)
Net weight		kg	65	78	104	145
Fan type			EC	EC	EC	EC
Piping diameter [5]	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	1/2 (12,70) / 7/8 (22,22)	1/2 (12,70) / 7/8 (22,22)
Door width		m	1,0	1,5	2,0	2,5
Refrigerant			R32 / R410A	R32 / R410A	R32 / R410A	R32 / R410A

1) Minimum discharge temperature of 17 °C. With an air intake temperature of 27 °C RH 50%, evaporation temperature of 4,5 °C, SH 3 K, SC 20 K. 2) Air intake temperature of 20 °C, refrigerant R32, outside temperature ~0 °C, condensation temperature 48 °C, SH 40 K and SC 3 K. 3) Measured in distance from 3,0 m. 4) Depth including brackets for cassette mounting and built-in models. For built-in model height changes + 100 mm for the channels. 5) Piping diameter to outdoor unit. Air curtain port connection for all sizes is 1/2" (12,7 mm) / 7/8" (22,00 mm). For smaller models, field-supplied adapters are required to ensure proper pipe connection.

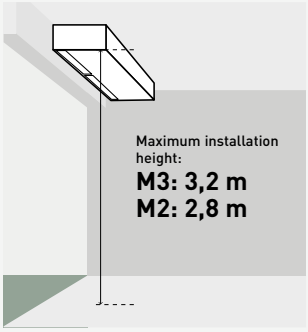
Accessories	
PAW-CDP1	Drain pump kit

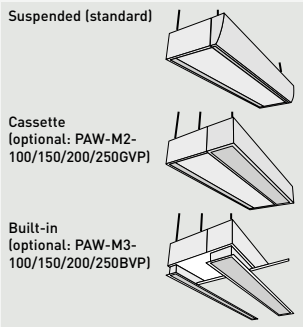
Technical focus

- Advanced defrost control maintains the air curtain effect without cold drafts
- Four air curtain lengths available: P2 and P3 – 1,0 m, 1,5 m, 2,0 m, and 2,5 m
- Installation height up to 3,2 m
- Flexible installation: suspended as standard, cassette or built-in optional*
- Includes one user-friendly touchscreen remote controller
- Effortless settings management via touchscreen control
- Optional smart temperature control automatically adjusts to outdoor conditions
- Integrated control with door sensor and BMS ON / OFF functionality
- Scalable setup: group up to 10 units for synchronized operation
- Drain pump optional

*Cassette type (PAW-M2-100/150/200/250GVP) or built-in type (PAW-M3-100/150/200/250BVP) available upon request.

Installation heights and three mounting possibilities





Electric air curtain

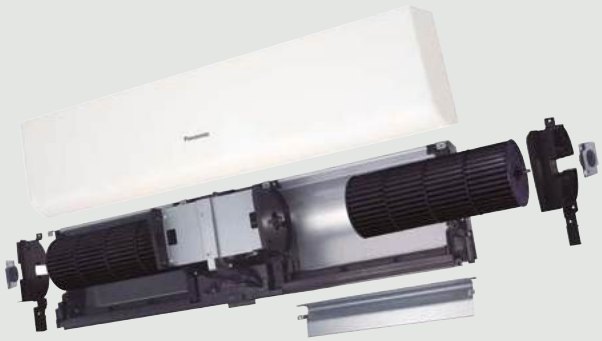
Designed to maximize performance: High air flow upgraded 145% compared to conventional model (in the case of FY-3009U1).

Comprehensive product line up: 1,5 m wide model added in the line up.

			FY-3009U1	FY-3012U1	FY-3015U1
Width		mm	900	1200	1500
Voltage		V	220	220	220
Air flow	Hi / Lo	m³/h	1100/920	1400/1270	2000/1800
Consumption	Hi / Lo	W	76/70	94/85	131/110
Current	Hi / Lo	A	0,35/0,32	0,43/0,40	0,59/0,50
Air speed	Hi / Lo	m/s	10,50/8,50	9,50/8,00	10,50/9,50
Sound pressure	Hi / Lo	dB(A)	48,5/45,0	48,5/44,5	51,5/48,0
Dimension	H x W x D	mm	900 x 231,5 x 212	1200 x 231,5 x 212	1500 x 231,5 x 212
Net weight		kg	12,0	14,5	18,0

Easier installation and maintenance.

Simple structure for easy installation and maintenance.



air-e™

+ nanoe™

Ceiling mounted air-e nanoe X Generator

- nanoe™ X technology
  (Generator Mark 1: 4,8 trillion hydroxyl radicals/sec)
- Silent operation. Whisper quiet at 25,5 dB(A) (at 230 V)
- Low power consumption 4 W
- Easy installation
- Compact and modern design

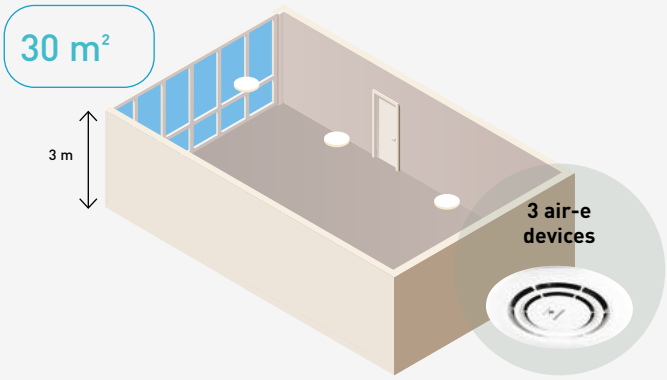
Model			FV-15CSD1G		
Power supply	Voltage	V	220	230	240
	Frequency	Hz	50	50	50
Air flow		m³/h	15	16	17
		CFM	8,8	9,4	10,0
Consumption		W	4	4	4
Sound pressure		dB(A)	23,5	25,5	27,0
Net weight		kg		1,1	

*The value of air volume, power consumption and noise are specified at static pressure 0 Pa. The value of air volume is the mean value and a tolerance of +-10% is allowed. The value of noise level is a weighted average sound pressure level, the mean value is measured by Panasonic. A tolerance of +3 dB/-7 dB is allowed. The noise is measure at 1 m apart from the left, the front and below of the tested product. Conditions of generating nanoe™ X: room temperature: about 5 °C ~ 40 °C (dew point temperature more than 2 °C), relative humidity: about 30% ~ 85%. nanoe™ X is generated using the air in the room, and its amount is subject to the temperature and humidity in the air.

One device is suitable for around 10 m² (with a ceiling height 3 m)

Ex. 3 air-e devices are required for the room size 30 m².

The air-e is a stand alone device which is an easy and simple choice to improve indoor air quality. It can be easily installed to various commercial projects including refurbishments.



Ceiling mounted air-e nanoe X Generator.

Bringing nature's balance indoors with Panasonic's unique nanoe™ X technology built into the air-e. Deodorises and inhibits certain bacteria, viruses, mould, pollens and allergens for better indoor air quality.

The tested effects of nanoe™ X

Bacteria and viruses.

SARS-CoV-2: 99,9% % inhibited [1].
Influenza virus H1N1 subtype: 99,9 % inhibited [2].

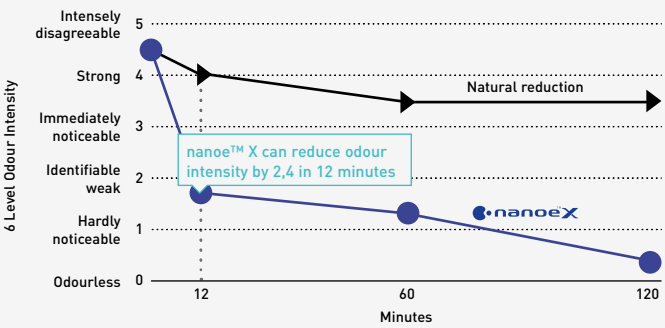
Odour.

nanoe X Generator can reduce cigarette smoke odour intensity by 2,4 levels in 12 minutes.

1) Novel coronavirus (SARS-CoV-2) > [Test organization] Texcell (France) [Test subject] Adhered novel coronavirus (SARS-CoV-2) [Test volume] 45 L enclosed box [Test result] Inhibited 99,9% in 2 hours [Test report] 1140-01 A1.
2) Adhered virus (Influenza virus H1N1 subtype) > [Test organization] Kitasato Research Center for Environmental Science [Test subject] Influenza virus (H1N1 subtype) [Test volume] 1000 L enclosed box [Test result] Inhibited 99,9% in 2 hours [Test report] 21_0084_1.
3) Deodorisation effect for adhering odour (cigarette smoke) > [Test organization] Panasonic Product Analysis Center [Test subject] Adhered cigarette smoke odour [Test volume] Approx. 24 m³ laboratory [Test result] Odour intensity reduced 2,4 levels in 0,2 hours [Test report] 4AA33-160615-N04.

Performance of nanoe™ X might differ in real life environment and is only expected in the same room as where the unit is placed. The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not a medical device.

Deodorisation effect for adhering odour (cigarette smoke) [3].



For further details and validation data, please refer to the following website.

High pressure duct and 100% fresh air duct function for all ECOi systems

The E2 range of ducted units offers improved design flexibility for extended duct layouts as a result of their increased external static pressures whilst reducing energy consumption, while providing fresh air to larger spaces.

E2 type high static pressure hide-away · R410A

High pressure duct and 100% fresh air duct function.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Type			100% fresh air duct function (by using kit for 100% fresh air)				High pressure duct			
Indoor unit			S-224ME2E5		S-280ME2E5		S-224ME2E5		S-280ME2E5	
			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity		kW	22,4	21,2	28,0	26,5	22,4	25,0	28,0	31,5
Input power		W	290,00	290,00	350,00	350,00	440,00	440,00	715,00	715,00
Current		A	1,85	1,85	2,20	2,20	2,45	2,45	3,95	3,95
Air flow	Hi/Med/Lo	m³/min	28,3/—/—		35,0/—/—		56,0/51,0/44,0		72,0/63,0/53,0	
External static pressure		Pa	200		200		140 (60 - 270) [1]		140 (72 - 270) [1]	
Sound pressure [2]	Hi/Med/Lo	dB(A)	43/—/—		44/—/—		45/43/41		49/47/43	
Sound power	Hi/Med/Lo	dB(A)	75/—/—		76/—/—		77/75/73		81/79/75	
Dimension	H x W x D	mm	479 x 1453 x 1205		479 x 1453 x 1205		479 x 1453 x 1205		479 x 1453 x 1205	
Net weight		kg	102		106		102		106	
Piping diameter	Liquid	Inch (mm)	3/8 (9,52)		3/8 (9,52)		3/8 (9,52)		3/8 (9,52)	
	Gas	Inch (mm)	3/4 (19,05)		7/8 (22,22)		3/4 (19,05)		7/8 (22,22)	

Rating conditions for 100% fresh air duct function: Cooling outdoor 33 °C DB / 28 °C WB. Heating outdoor 0 °C DB / -2,9 °C WB.
1) Available to select the setting by initial setup. 2) Values with 140 Pa setting. *No filter included.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver

Accessories	
PAW-RE2C4-MOD-WH	Room controller for hotel rooms, white
PAW-RE2C4-MOD-BK	Room controller for hotel rooms, black
PAW-RE2D4-WH	Display control for hotel rooms, white
PAW-RE2D4-BK	Display control for hotel rooms, black
CZ-CENSC1	Econavi energy saving sensor

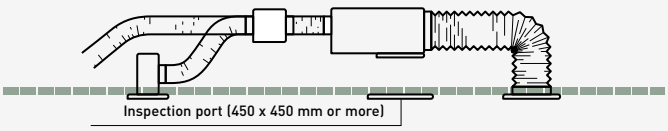
Technical focus

- No need of rap valves for standard operation
- 100% fresh air duct function*
- DC fan motor for more savings
- Complete flexibility for ductwork design
- Can be located wihtin a weatherproof housing for external installation
- Air OFF sensor avoids cold air dumping
- Configurable air temperature control

*Rap valves required, see 100% fresh air duct function below.

System example

An inspection port (450 x 450 mm or more) is required at the lower side of the indoor unit body (field supply).



100% fresh air duct function

The E2 duct with 100% fresh air duct function have exceptional discharge temperature.

	Discharge Range		
	Min	**Max**	**Default**
Cooling	15 °C	24 °C	18 °C
Heating	17 °C	45 °C	40 °C

Plenums

Air outlet plenum (suitable for rigid + flexible duct)		
	Number of exits with diameters	Model
S-224ME2E5	1 x 500 mm	CZ-TREMIESPW705
S-280ME2E5	1 x 500 mm	CZ-TREMIESPW706

Kit for 100% fresh air function

Kit for 2 way systems	
2x CZ-P160RVK2	Rap valve kit
2x CZ-CAPE2	3 way control PCB
CZ-P680BK2BM	Distribution joint kit
	1x remote controller

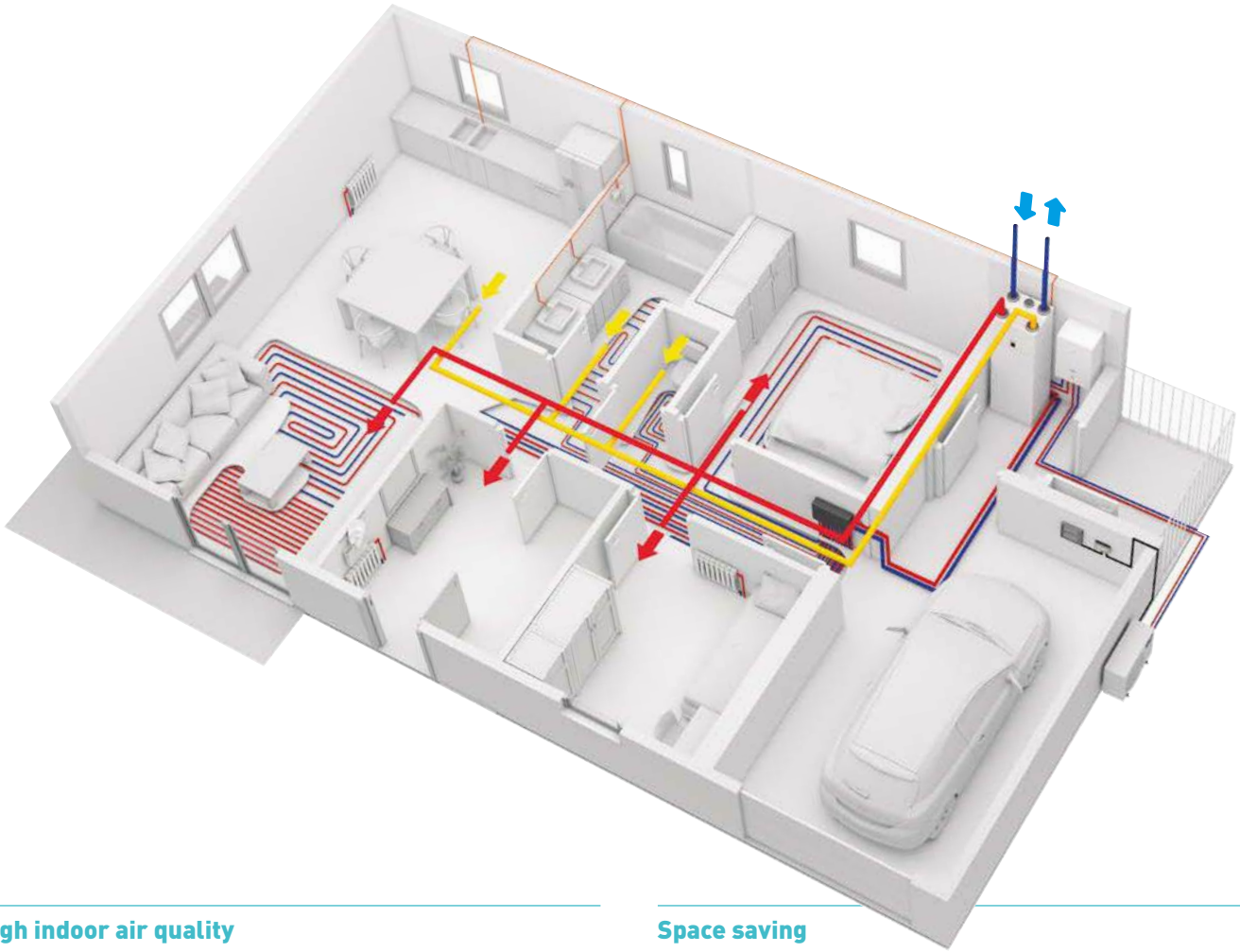
Kit for 3 way systems	
2x CZ-P160HR3	3 way valve kit
2x CZ-CAPE2	3 way control PCB
CZ-P680BH2BM	Distribution joint kit
	1x remote controller

28% ECONAVI | SELF-DIAGNOSING | AUTOMATIC FAN | HUMIDITY CONTROL DRY | AUTOMATIC RESTART | BUILT-IN DRAIN PUMP | OPTIONAL WI-FI | BMS CONNECTIVITY

ECONAVI and INTERNET CONTROL: Optional.

Heat recovery ventilation unit

The heat recovery ventilation unit is design not only to provide a good indoor air quality, but it is also designed to recover heat that would otherwise be lost throughout ventilation. These heat recovery ventilation systems are used to assist in the retention of heat.



High indoor air quality

The unit is designed to provide fresh filtered air into the home, while keeping a high thermal comfort.

Energy saving

Most of the energy from the exhausted air is used to precondition the incoming air, leading to lower heating requirements in the building.

Space saving

The compact ventilation unit can be installed over the DHW square tank or the Aquarea All in One Compact indoor unit for an space saving solution.

Better user interface

The Residential ventilation unit and the Aquarea Heat Pumps can be controlled with one single user-friendly controller.

AQUAREA

Combine the Residential ventilation unit with Panasonic Aquarea for an space saving and highly efficient solution for heating, cooling, ventilation and DHW.

Heat Recovery Ventilation + Aquarea All in One Compact.

*The unit can be mounted on a All in One indoor unit (K, L or M Series) or installed on the wall (PAW-VEN-WBRK is needed).

PAW-A2W-VENTA-R

PAW-A2W-VENTA-L

Heat recovery ventilation unit

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

Model		PAW-A2W-VENTA-R	PAW-A2W-VENTA-L
Nominal air flow rate	m³/h	204 @ 50 Pa	
Maximum air flow rate	m³/h	292 @ 100 Pa	
SPF		1,24 @ 204 m³/h	
Heat exchanger rotor drive type		Variable speed	
Exchanger type		Rotating	
Heat recovery efficiency		84%	
Power supply	V / Hz	230 / 50 / Singe phase	
Power consumption	W	176	
Energy class, basic unit		**A**	
Energy class, unit with local control on demand		**A**	
Noise level	dB(A)	40	
Dimension (H x W x D)	mm	450 x 598 x 500	
Weight	kg	46	
Mounting position		Vertical	
Supply side		Right	Left
Duct connections	mm	DN125	
Filter class, supply air		F7/ePM1 60%	
Filter class, extract air		M5/ePM10 50%	
Minimum outdoor temperature	°C	-20	

*Heat recovery efficiency according to EN 13141-7. **Heat recovery ventilation unit is produced by Systemair.

Accessories	
PAW-VEN-FLTKIT	Supply and extract filters kit
PAW-VEN-ACCPCB	Optional PCB for additional functions
PAW-VEN-DPL	HRV touch control panel. White frame (cable must be ordered separately)
PAW-VEN-CBLEXT12	Cable with plug for electrical connection between unit and control panel, type CE and CD (12 m)
PAW-VEN-DIVPLG	Twin plugs for installation of several control panels type CD or CE for one unit

Accessories	
PAW-VEN-DPLBOX	HRV touch control panel wall-mounted kit
PAW-VEN-S-CO2RH-W	CO_2 RH wall-mounted sensor
PAW-VEN-S-CO2-W	CO_2 wall-mounted sensor
PAW-VEN-S-CO2-D	CO_2 duct sensor
PAW-VEN-WBRK	Wall bracket kit for stand-alone installation on the wall
PAW-VEN-HTR06	Electrical duct heater 0,6 kW (includes relay)
PAW-VEN-HTR12	Electrical duct heater 1,2 kW (includes relay)

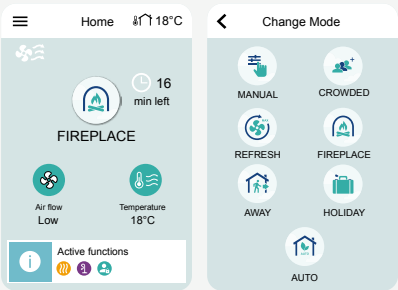
Main features of the residential ventilation unit

- Designed for areas up to approximately 140 m²
- High energy efficiency rotary heat exchanger with EC - technology fans
- Moisture transfer function to minimize condensation in supply air during wintertime
- The built in humidity sensor in extract air can be used for demand control
- Control via touch display and Startup Wizard for easy commissioning
- Modbus communication via RS-485
- Option to control an Aquarea H Series onwards heat pump from PAW-A2W-VENTA control panel Modbus gateway (PAW-AZAW-MBS-M, PAW-AW-MBS-M, CZ-NSMB-C or CZ-NSMB) and PAW-VEN-ACCPCB required

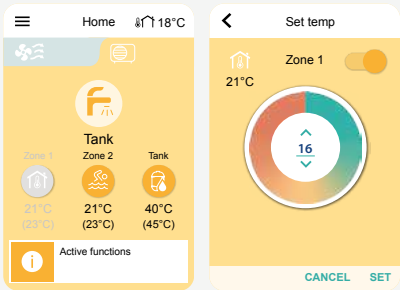
Control user-friendly interface

All settings and features accessible via a control panel, integrated into the front cover. The option for connecting one or more external control panels is available.

- Color touch screen with a user-friendly interface
- MANUAL and AUTO mode or choose preferred settings from the pre-configured user modes



- If Aquarea H and J Series heat pumps are connected with PAW-A2W-VENTA, the heat pump control options appear on the home screen in a separate tab



Aquarea Vent - Counter flow ventilation

Aquarea Vent systems provide a continuous supply of fresh air, ensuring optimal indoor air quality and comfort. Ideal for single-family homes or apartments with low energy requirements, Panasonic's HRV systems combine high-efficiency heat recovery, quiet operation, and advanced air filtration with flexible installation options.

Vent PRO.

Access the tool via the 'Tools' section in the Panasonic Pro Club (www.panasonicproclub.com).

From selecting the right ventilation unit to planning the air distribution system and choosing the appropriate components, the Vent PRO guides you through every step to ensure the optimal solution for your project.

Universal mounting.

Horizontal mounting.

Vertical mounting.

Aquarea Vent - Counter flow ventilation units

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

REFER TO PAGE 143 FOR THE COMPLETE LIST OF FILTERS AND ACCESSORIES FOR AIR DISTRIBUTION AND DIFFUSION SYSTEMS

			Universal mounting			Horizontal mounting				Vertical mounting			
P-VEN			15XQAZE5	20XQAZE5	30XQAZE5	15XQAHE5	30XQAHE5	35XQAHE5	45XQAHE5	15XQAVE5	30XQAVE5	40XQAVE5	45XQAVE5
Air flow	Nominal / Max	m³/h	91/130	147/210	224/320	109/155	210/300	238/340	288/455	112/170	210/300	266/380	315/450
Static pressure	Nominal / Max	Pa	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100	50/100
Recovery efficiency		%	87	85	85	86	85	89	88	86	86	87	86
Energy class			A	A	A	A	A	A	A	A	A	A	A
Power supply	Voltage	V	230	230	230	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50
Power consumption	Nominal	W	80	140	180	110	180	350	420	110	180	350	420
Sound power LWA		dB(A)	48	51	52	49	50	52	56	48	50	51	54
Dimension	H x W x D	mm	255 x 580 x 580	255 x 580 x 580	255 x 580 x 580	260 x 480 x 800	295 x 600 x 795	290 x 650 x 1150	290 x 1150 x 1150	510 x 430 x 625	590 x 575 x 785	590 x 735 x 785	590 x 785 x 735
Net weight		kg	19	19	19	25	30	38	40	32	38	42	43
Filter class			ePM1 80%	ePM1 80%	ePM1 80%	ePM1 80%	ePM1 70%	ePM1 70%	ePM1 70%	ePM1 80%	ePM1 70%	ePM1 70%	ePM1 70%
Duct connection		mm	160	160	160	160	160	160	160	160	160	160	160

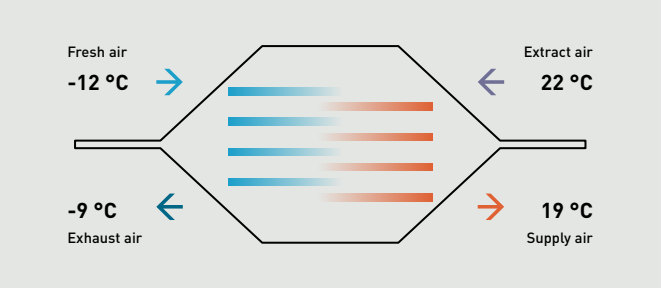
HIGH-EFFICIENCY SENSIBLE HEAT RECOVERY

HIGHLY EFFICIENT AIR RENEWAL AND FILTRATION, WITH 80% EPM1 FILTERS

INTEGRATED AIR QUALITY, HUMIDITY AND TEMPERATURE SENSORS

REMOTE CONTROL VIA WI-FI (OPTIONAL)

Balanced ventilation



Counter flow ventilation units are equipped with two fans to supply and extract air. A cross-flow heat exchanger recovers the energy contained in the extracted air and transfers it to the supplied air. This significantly reduces the building's energy consumption, while at the same time keeping a good quality of the indoor air.

Control options (required, to be ordered separately).

Wall-mounted control with Modbus.
PCZ-AHRP0025

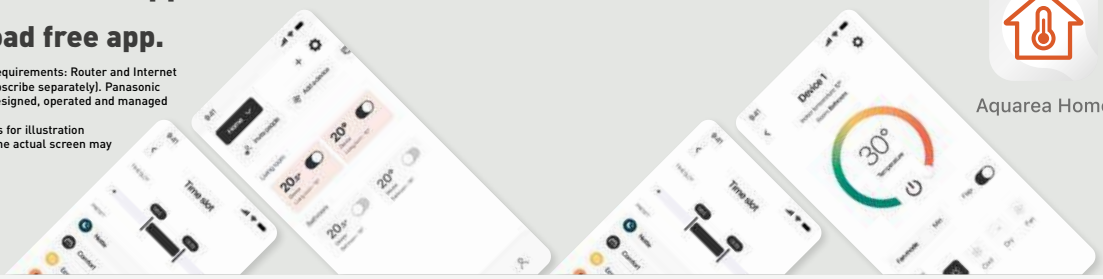
Wall-mounted control with integrated Wi-Fi for remote control via the Aquarea Home App.
PCZ-AHRP0026

- Integrated VOC - CO_2 air quality sensors
- Integrated humidity sensors
- Integrated temperature sensors
- Unit control and settings: Seasonal modes, temperature and fan speed ventilation settings
- Connectivity: Wi-Fi or Modbus

Aquarea Home App

Download free app.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Panasonic Cloud Server is designed, operated and managed by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Aquarea Home

Download on the App Store

GET IT ON Google Play

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Control and connectivity

Panasonic has developed a wide range of control systems to offer the best options for commercial and residential needs, from the individual remote controllers, to the newest technology capable of controlling your building anywhere in the world. The simple to use cloud software can even be used from a portable device.

ABOUT

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Communication adaptor for VRF connectivity → 455

PACi NX and ECOi connectivity indoor units

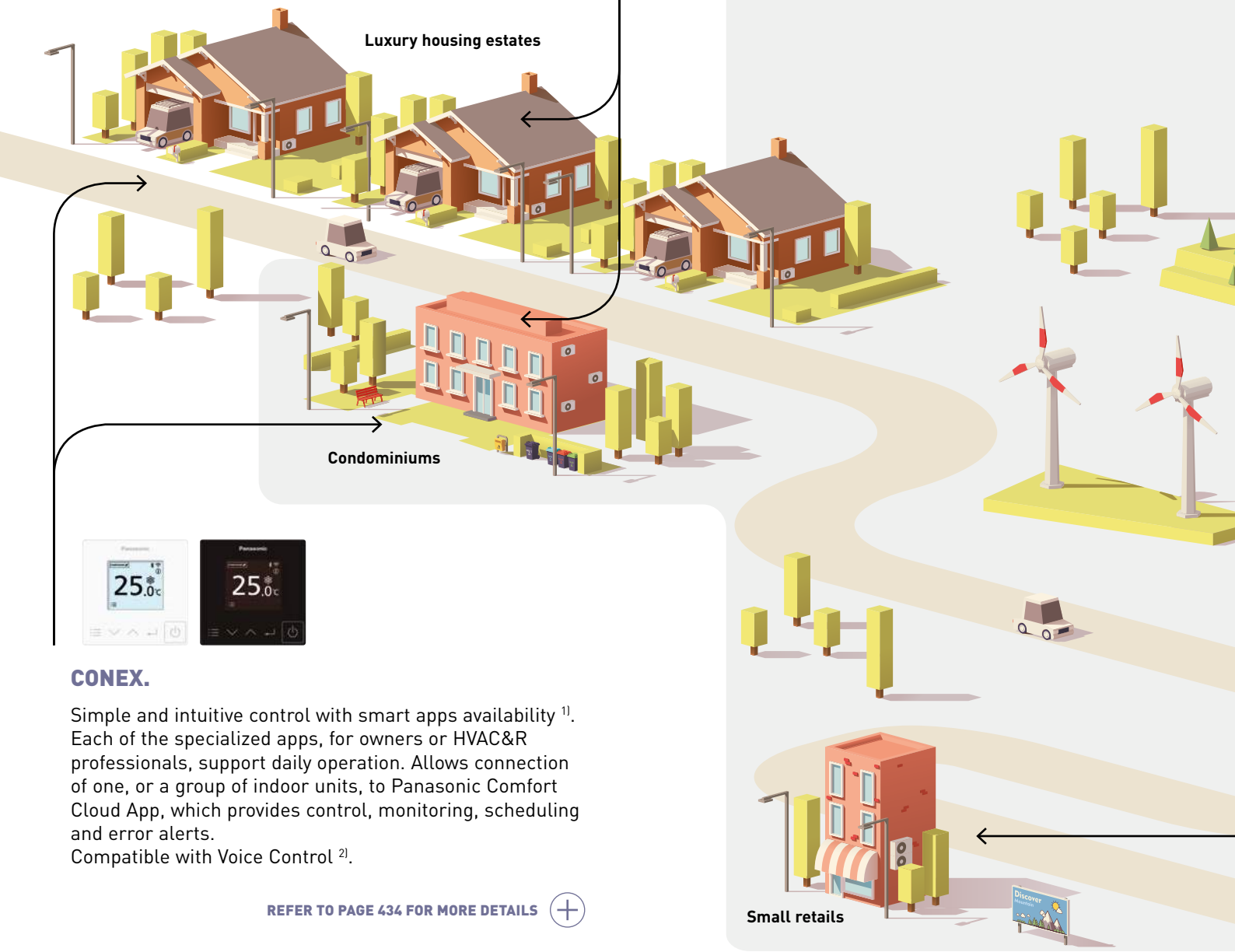
T10 connector (CN061) → 458
Fan drive connector (CN032) → 459
Option connector (CN060) output external signals → 459
EXCT connector (CN073) → 459
Option harness → 459

Control and connectivity map for Panasonic business areas

A wide range of control and connectivity solutions to suit a variety of applications. Integration capability, scalable solutions and smart connectivity offer a unique portfolio to meet every customer's needs.

Integration with Home Automation or KNX.

Simple and flexible solution to integrate Panasonic heating and cooling systems into smart home energy solutions.



CONEX.

Simple and intuitive control with smart apps availability [1].
Each of the specialized apps, for owners or HVAC&R professionals, support daily operation. Allows connection of one, or a group of indoor units, to Panasonic Comfort Cloud App, which provides control, monitoring, scheduling and error alerts.
Compatible with Voice Control [2].

REFER TO PAGE 434 FOR MORE DETAILS

1) App connectivity available with CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW2 and CZ-RTC6BLW2.
2) Alexa, Google Home.... Giving indication of compatible options.
3) Edge controller box (PAW-CSE**) is required.
4) 2 DI on standard version and 4 DI/DO available on Modbus version.
5) 128 indoor units as standard, additional communication adaptor required for 256 units.

Commercial Smart Edge.

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.

P-SMART EDGE

P-Smart Edge [3].
A powerful smart control platform designed for single-site installations, giving you seamless management of the complete Panasonic HVAC range.

P-Smart Nexus

P-Smart Nexus [3].
An online multi-site control solution that provides remote, centralised supervision of all your locations worldwide.

REFER TO PAGE 428 FOR MORE DETAILS

Controller for hotel application.

Intuitive controller allowing up to 4 digital inputs and outputs [4]. Perform the most common operations in hotel rooms, such as key cards and window contacts.

REFER TO PAGE 444 FOR MORE DETAILS

Intelligent controller.

Centralized controller with large LCD touch screen display. Maximum 256 [5] indoor units connectable, ideal for larger buildings.

REFER TO PAGE 440 FOR MORE DETAILS

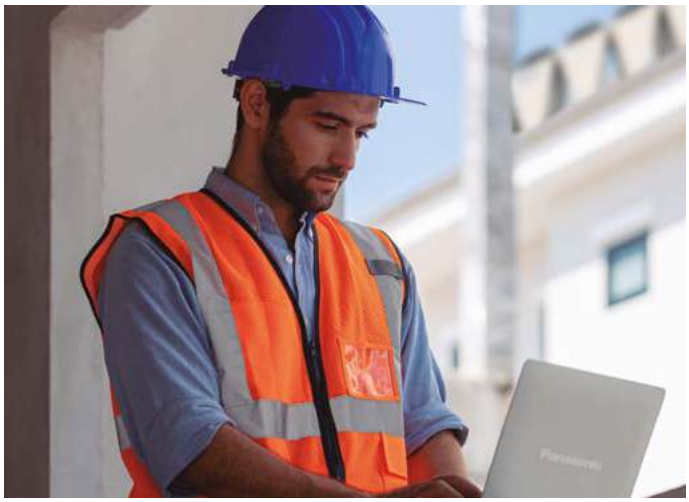
Integration with BACnet or Modbus.

Easy and reliable solution to integrate Panasonic heating and cooling systems into the building management systems in your business.

Commercial Smart Edge

Step into the future of HVAC management with Commercial Smart Edge by Panasonic.

This solution brings flexible, scalable and intelligent control to commercial buildings of any size. Manage operations locally or remotely from any device, whether you oversee a single site or multiple locations.



The system improves comfort, enhances energy efficiency and supports proactive maintenance.

Designed also for professionals such as installers and service/maintenance companies, Commercial Smart Edge provides essential tools for simplified commissioning, remote configuration and streamlined service operations.

Flexible and reliable solution for your business

- Anytime
- Anywhere
- Multiplatform
- Data ownership guaranteed

Scalable solution for your business

- Small to large
- 1 to multi-sites
- Upgrade features [1]
- ECOi-W, ECOi, PACi NX, Aquarea, RAC [2]

1) Customised to meet user demand / Continuous upgrades: new functions and product introductions / IT smart management. 2) RAC: Residential air to air heat pumps.

Commercial Smart Edge consists of two complementary platforms

P-SMART EDGE

One screen. Complete control for single sites.
P-Smart Edge centralises the management of your Panasonic HVAC system locally or remotely on a single platform, providing real-time visibility, intuitive control and improved energy performance for single-site installations.

P-Smart Nexus

Smart Multi-Site Control Solution.
P-Smart Nexus enables 24/7 monitoring and management of HVAC units across multiple locations, improving energy efficiency, preventing breakdowns and reducing operational costs through scalable, centralised control.

A powerful smart control platform designed for the seamless management of the complete Panasonic HVAC range.

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.

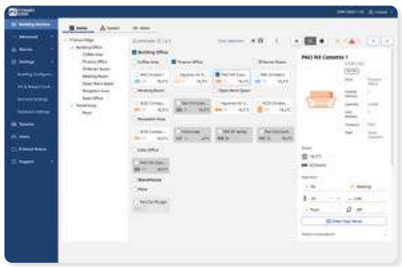
COMPATIBLE WITH ENTIRE HVAC RANGE

SIMPLIFIED COMMISSIONING

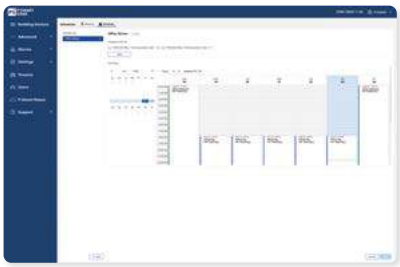
OPTIMISED PLANT MANAGEMENT

ADVANCED ANALYTICS

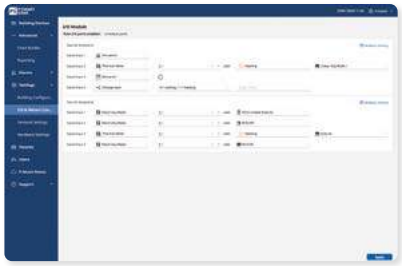
Key functions and uniqueness



Optimised plant managements.
- Complete overview of the building's HVAC system
- Products organized by building zones or system groups for fast diagnostics and efficient system monitoring
- 3 different user profiles: facility manager, installer and maintenance



Weekly scheduled operations.
- Customize daily or grouped schedules
- Set operating modes and setpoints
- Include special modes for energy savings
- Define seasonal logic for summer/winter schedules



Energy consumption monitoring.
- Configure digital I/O signals to manage peak power consumption
- Connect electricity meters for electrical energy calculations

P-Smart Nexus: smart multi-site remote management.
- Remote global supervision of all your sites in one place
- 24/7 control of all the installations
- Easy connection to Commercial Cascade Edge without special on-site network setup
- 3-year subscription from the start-up included
- Online visualization, no installation of any specific software is required

Note: User interface design may vary.

Commercial Smart Edge – System overview example

System overview example.

1 P-Smart Nexus

Data ownership guaranteed.
All data stored locally, not in the cloud.

2 P-SMART EDGE

Multi-site control

3 P-SMART EDGE

Edge controller box (PAW-CSE**)

P-SMART EDGE

Edge controller box (PAW-CSE**)

P-SMART EDGE

Edge controller box (PAW-CSE**)

4 Modbus RTU*

Modbus RTU*

5

Site A:
ECOi, PACi NX, Ventilation

Site B:
ECOi-W, Flex Air fan coils, external device* (electric/thermal meters)

Site C:
Big Aquarea, Aquarea Air Smart fan coils

*A BMS interface may be required depending on the product. For detailed information, please refer to page 431.

1

P-Smart Nexus.
Smart multi-site control which allows a remote global supervision of all your sites. Control your different installations wherever you are, with easy on-site network setup.

2

P-Smart Edge.
Control and monitoring solution for HVAC projects – designed for single-site management, even remotely from outside your installation location.

3

Edge controller box – (PAW-CSE-).**
Choose the model based on the number of control points required.

4

Modbus interface.
A BMS interface may be required depending on the product. For detailed information, please refer to page 431.

*The image of the interface is an example.

5

Panasonic HVAC system.
Smartly manage the entire project, even when combining different Panasonic HVAC ranges. The Edge controller box is compatible with ECOi-W, ECOi EX, PACi NX, Aquarea, and RAC* ranges.

*RAC: Residential air to air heat pumps.

Commercial Smart Edge – Packages

Steps

Step 1 | Verify the type and number of indoor and outdoor units
Step 2 | Determine the required control points for the project
Step 3 | Select the appropriate gateway based on your project specifications

Basic package

Package size = Control points [1]	Commercial Smart Edge	Model reference	Product description
100	Edge controller box	PAW-CSE-1B [2]	Edge controller box for Commercial Smart Edge [3]. Control points: 100
	Start up and configuration fee [4]	SR-CSE-SETUP	Commercial Smart Edge start up and configuration
	P-Smart Nexus access fee	SR-CSE-1SUB	P-Smart Nexus access fee for **1 year** [5]
200	Edge controller box	PAW-CSE-2B [2]	Edge controller box for Commercial Smart Edge [3]. Control points: 200
	Start up and configuration fee [4]	SR-CSE-SETUP	Commercial Smart Edge start up and configuration
	P-Smart Nexus access fee	SR-CSE-2SUB	P-Smart Nexus access fee for **1 year** [5]
1000	Edge controller box	PAW-CSE-10	Edge controller box for Commercial Smart Edge [3]. Control points: 1000
	Start up and configuration fee [4]	SR-CSE-SETUP	Commercial Smart Edge start up and configuration
	P-Smart Nexus access fee	SR-CSE-10SUB	P-Smart Nexus access fee for **1 year** [5]
2000	Edge controller box	PAW-CSE-20	Edge controller box for Commercial Smart Edge [3]. Control points: 2000
	Start up and configuration fee [4]	SR-CSE-SETUP	Commercial Smart Edge start up and configuration
	P-Smart Nexus access fee	PAW-CSE-20SUB	P-Smart Nexus access fee for **1 year** [5]

Required BMS interface [6]		
Main system	**Model reference**	**Product description**
PACi NX/ECOi indoor units	PAW-RC2-MBS-1	DIN rail-mounted Modbus RTU interface for 1 indoor unit
	PAW-AC2-EDGE64	PACi NX and ECOi interface for Commercial Smart Edge, for 64 Indoor units
Ventilation	Not required [7]	
RAC indoor units	PAW-AC-MBS-1	DIN rail-mounted Modbus gateway for 1 indoor unit. Powered via CN-CNT. For RAC models with CN-CNT connector
ECOi-W outdoor units	Not required [7]	
ECOi-Loop	Not required [7]	
Aquarea outdoor units	CZ-NSMB-C	Modbus RTU gateway, compatible with Aquarea H Series onwards
Aquarea Air	Not required [7]	
Flex Air	Not required [8]	
ECOi-RT Rooftop	Not required [7]	
Electricity meters	PAW-CSE-4I4O [9]	Inputs device to connect electrical meters and fire alarm input on PAW-CSE-1B and PAW-CSE-2B

1) Please refer to the technical manual for the required control points for each product range. 2) Doesn't include digital input. 3) 3 years access fee is included. 4) Not mandatory. Startup and configuration can be managed by the customer. 5) The first 3 years of access are included in the gateway cost. After the 3rd year, an access subscription is required for continued service. 6) Follows category commercial policy. 7) Modbus RTU is available without an additional interface. 8) Plogic or PAW-FC-*** controls are required. 9) Required only for PAW-CSE-1B, 2B. PAW-CSE-10, 20 include this function by default.

Licence upgrade

Extend the number of control points required for your projects by purchasing a package extension.

Control points upgrade	Model reference
100 --> 200	SR-CSE-1T2
100 --> 1000	SR-CSE-1T10
100 --> 2000	SR-CSE-1T20
200 --> 1000	SR-CSE-2T10
200 --> 2000	SR-CSE-2T20
1000 --> 2000	SR-CSE-10T20

Commercial Wi-Fi Adaptor

Panasonic CZ-CAPWFC2 interface adaptor, allows connection of one or a group of indoor units to Panasonic Comfort Cloud App, which provides control, monitoring, scheduling, and error alerts.

Comfort Cloud

1 From 1 to 200 units

User can control up to 10 different sites, with up to 20 units / groups per site.
Additionally, one adaptor can be connected to 1 indoor or to a group of up to 8 indoors.

2 Voice control compatible

Registering the unit to Panasonic Comfort Cloud App makes it compatible with the most popular voice assistants.

3 Multi user

The Panasonic Comfort Cloud App allows multi-user access control, whilst allowing user restriction to specific units.

4 Easy scheduling

Complex weekly scheduling made simple. Not only for one unit, but across multiple sites, and from a smartphone.

5 Energy monitor

See the estimated power consumption and compare with other periods, to see how energy consumption can be further reduced. Check list of units that provides consumption*.

*Function available depending on the model.

6 Error codes

Error code notification through the App, provides early notification and allows for faster repair.

Control PACi NX and ECOi indoor units with your smartphone whenever and wherever you are, by using Panasonic Comfort Cloud App and Commercial Wi-Fi Adaptor.

Advanced smartphone control.

This scalable solution is ideal for one system, one site or multiple locations. Coupling the adapter with the already feature rich systems, makes it an ideal solution for residential and commercial applications.

Home screen

Basic settings

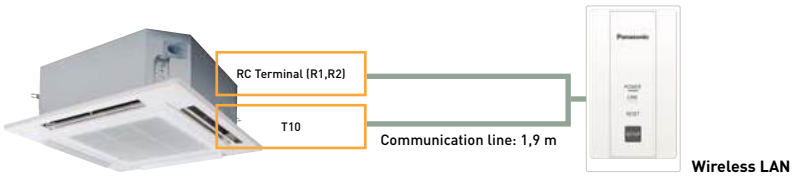
Statistics

Weekly timer

nanoe™ X simulation

Connection diagram

Commercial Wi-Fi Adaptor wiring length is 1,9 m and connects to indoor unit via T10 connector and R1/R2 terminal connectors.



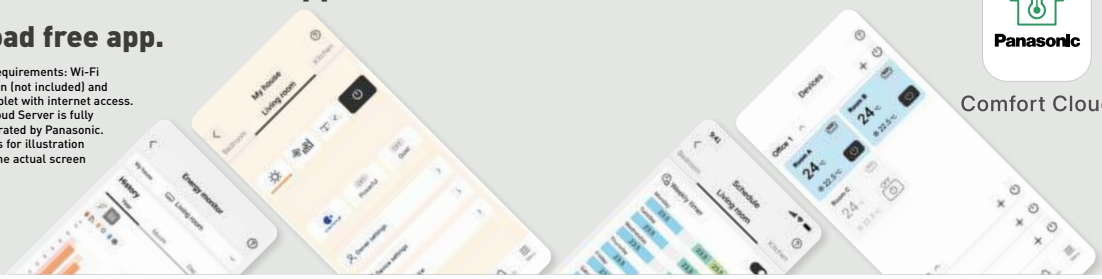
Input Voltage	12 V DC (supplied from T10 connector)
Power Consumption	Maximum 2,4 W
Size (H x W x D)	120 x 70 x 25 mm
Weight	190 g (including communications lines)
Interface	1 x Wireless LAN
Wireless LAN Standard	IEEE 802,11 b/g/n

Frequency Range	2,4 GHz band
Operating range	0 ~ 55 °C, 20 ~ 80 RH%
Connectable indoor unit	1 unit
Length of communication line	1,9 m (included)

Panasonic Comfort Cloud App

Download free app.

Other hardware requirements: Wi-Fi internet connection (not included) and Smartphone or tablet with internet access. The Panasonic Cloud Server is fully managed and operated by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Panasonic
Comfort Cloud

Download Now! on the App Store

GET IT ON Google Play

CONEX. Devices and apps

CONEX provides comfort and control for varying user needs.

Comfort Cloud

Intuitive operation with simple and modern design panel.

REFER TO PAGE 450 FOR MORE DETAILS

Sophisticated design with white or black flat panel and compact body. From residential to commercial, the wired remote controller series perfectly matches with all kinds of modern building.
It enables user to recognize each function with a simple glance.

Accessible, flexible, and scalable with different controllers and apps. Perfectly meeting requirements of modern controls for end user, installer, and service.

1 Intuitive control with stylish design

- Simple operation at a glance
- Clean face with full flat and LCD display
- Compact body, only 86x86 mm

2 Control comfort with your smartphone

- Flexible control options with IoT integration
- Panasonic H&C Control App for daily remote control operation
- Panasonic Comfort Cloud App for remote operation 24/7/365

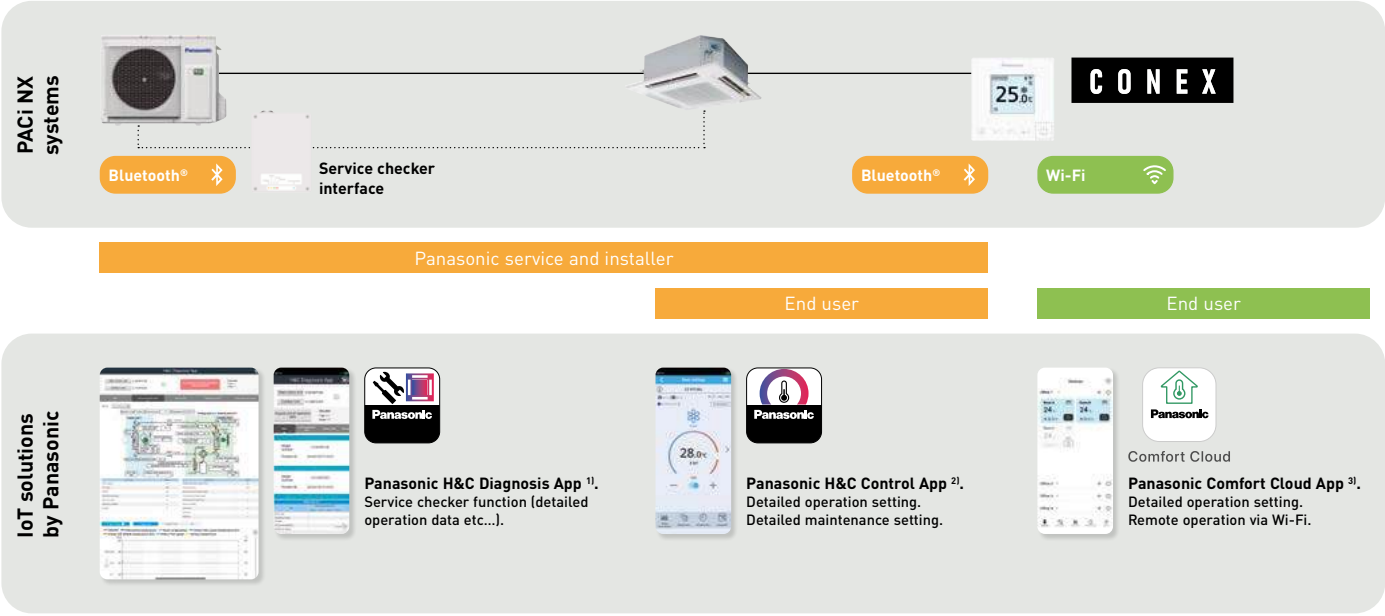
3 Easy maintenance with service support app

- Quick and easy app set-up for system setting
- Panasonic H&C Diagnosis App enables the user to obtain detailed system operation data

*The use of apps depends on the remote controller model.

CONEX with IoT integration

The wired remote controller CONEX is fully integrated with IoT solutions developed by Panasonic.
Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.



1) A service checker interface is required when this app is used from outdoor location. Wired remote controller (CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW2 or CZ-RTC6BLW2) is required when this app is used from indoor location. Compatible with PZ3 and PZH3 outdoor units. 2) CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW2 or CZ-RTC6BLW2 required. 3) CZ-RTC6WBLW2 or CZ-RTC6BLW2 required.

Service checker interface.

The service checker interface provides easy access to service parameters and service checker data via Bluetooth®.

- A Service checker interface for PACi NX Series*
- Bluetooth® connection
- Panasonic H&C Diagnosis App

*Available as a spare part, compatible with PACi NX Series.

Input voltage	220-240 V ~ 50-60 Hz (supplied from outdoor unit)
Power consumption	Maximum 2,4 W (including outdoor units)
Size (H x W x D)	175 x 125 x 50 mm
Weight	—
Interface	Bluetooth® 4.2 or later
Frequency range	2,4 GHz band*
Operating range - Temperature / Humidity	0 ~ 40 °C / 20 ~ 80% (no condensation)

*Frequency band in which the radio equipment operates; 2402 - 2480 MHz.
*Maximum radio-frequency power transmitted in the frequency bands in which the radio equipment operates; +0 dBm.

CONEX. Devices and apps

Flexible control options with IoT integration. 3 different apps for individual usage.

Panasonic H&C Diagnosis App for service and installer

Tool for diagnosis and troubleshooting.

Available functions:
- AC control
  - System view
  - Refrigerant circuit view
- Real-time data
  - Indoor unit
  - Outdoor unit
- Refrigerant cycle diagram and graph
- Data recording
- History data
- Error code tables

Main | Operation data | History data | Equipment control

Panasonic H&C Control App for end user, service and installer

Detailed operation setting. Detailed maintenance setting.

Available functions:
- ON / OFF, mode, temperature, air flow volume, air flow direction
- Weekly timer
- All energy saving functions
- Alarm display and history
- Filter sign
- Test run
- Sensor value monitor
- Simple setting mode
- Detailed setting mode
- Key lock
- Ventilation fan control
- Display contrast adjustment
- Rotation, redundancy
- Quiet mode
- nanoe™ X
- Power consumption
- Unit naming

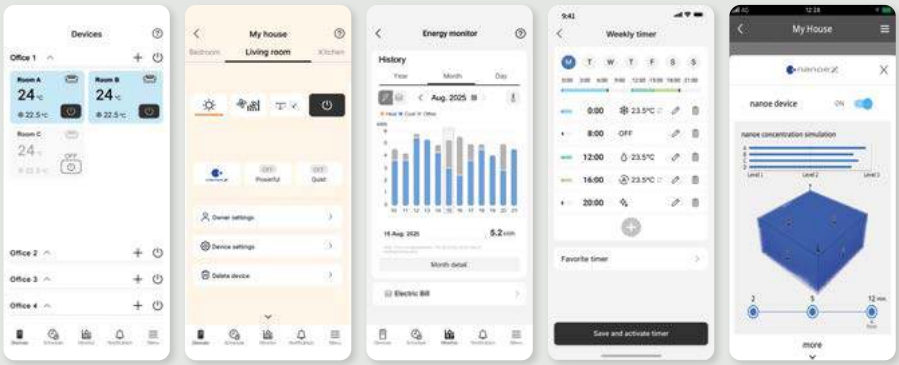
Home screen | Basic settings | Statistics | Weekly timer | Advanced settings

Panasonic Comfort Cloud App for end user

Remote operation via Wi-Fi.

Comfort Cloud

Available functions:
- ON / OFF
- Mode
- Temperature
- Air flow volume
- Air flow direction
- Weekly timer
- Temperature setting range limitation
- Energy monitoring
- Alarm display
- nanoe™ X



Home screen | Basic settings | Statistics | Weekly timer | nanoe™ X simulation

Connectivity matrix.

White model	CZ-RTC6W	CZ-RTC6WBL	CZ-RTC6WBLW2
Black model	**CZ-RTC6**	**CZ-RTC6BL**	**CZ-RTC6BLW2**
Wired connection compatible with	PACi NX and ECOi	PACi NX and ECOi	PACi NX and ECOi [1]
Wireless functions	No wireless capability	Bluetooth®	Bluetooth® + Wi-Fi
App compatibility			
Panasonic Comfort Cloud App	—	—	✔
Panasonic H&C Control App	—	✔ PACi NX and ECOi	✔ PACi NX only
Panasonic H&C Diagnosis App [2]	—	✔ PACi NX only [3]	✔ PACi NX only [3]
Outdoor unit settings (remote controller connected to indoor unit)	✔ PACi NX only [3]	✔ PACi NX only [3]	✔ PACi NX only [3]

1) Available with ECOi indoor unit types MY3, MF3, MM2, and MK3. 2) Compatible with U-71/100/125/140PZH3E5/8 and U-100/125/140PZ3E5/8. 3) When connected to PACi NX indoor and outdoor unit combination.

Function comparison

This shows the functions provided: a) by the remote controllers b) by the apps		**Remote controller functionalities**		**Panasonic H&C Control App**	**Panasonic Comfort Cloud App**	
			CONEX	CONEX		
		CZ-RTC5B	**CZ-RTC6W / CZ-RTC6**	**CZ-RTC6WBL(W) / CZ-RTC6BL(W) + app**	**CZ-CAPWFC2 + app**	**CZ-RTC6WBLW2 / CZ-RTC6BLW2 + app**
Basic operation	ON / OFF, mode, temperature, air flow volume, air flow direction	✔	✔	✔	✔	✔
Timer functions	Time display	✔	—	✔	✔	✔
	Easy ON / OFF timer	✔	—	✔	—	—
	Weekly program timer	✔	—	✔	✔	✔
Energy saving	Outing function	✔	✔	✔	—	—
	Temperature auto return	✔	—	✔	—	—
	Temperature setting range limitation	✔	—	✔	✔	✔
	OFF reminder	✔	—	✔	—	—
	Energy saving mode	✔	—	✔	—	—
	Schedule demand control	✔	—	✔	—	—
	Energy monitoring	✔	—	✔	✔	✔
	Econavi	✔	✔	✔	✔	✔
Maintenance	System failure information (alarm history)	✔	✔	✔	—	—
	Alarm display	✔	✔	✔	✔	✔
	Service contact registration	✔	—	✔	—	—
	Filter sign	✔	✔	✔	—	—
	Test run	✔	✔	✔	—	—
	Sensor value monitor	✔	✔	✔	—	—
	Simple setting mode	✔	✔	✔	—	—
	Detailed setting mode	✔	✔	✔	—	—
Others	Key lock	✔	✔	✔	—	—
	Ventilation fan control	✔	—	✔	—	—
	Display contrast adjustment	✔	✔	✔	—	—
	Rotation	✔	—	✔	—	—
	Quiet operation mode	✔	—	✔	—	—
	nanoe™ X	✔	✔	✔	✔	✔

Remote controller with Econavi

Easy to use, attractive, clear design, with demand control functions and energy consumption display! This useful feature makes this remote controller unique!

1 Design

The CZ-RTC5B wired remote controller is ideal for integration into the most demanding interior architectures.
The touch panel features a very sleek and easy to use display, which with its compact display is only 120 x 120 x 16 mm.

2 Key functions

- Easy setup of the timer and settings of the indoor unit
- Energy consumption display (for all PACi NX)
- Limitation of the energy consumption (Demand control) by timer.

3 Display of information

The information is mainly based on pictograms to ensure easy understanding. The minimal amount of text is available in 6 languages (English / German / French / Spanish / Italian / Polish).
The screen is back lit to enable reading even during the night.

4 Easy access to the menus

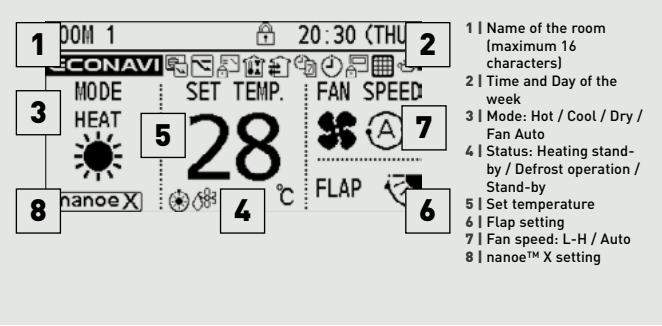
With the pictograms, the navigation, the selection and the settings are simple and easy to follow.

Basic function (operation display and indication).

REFER TO PAGE 450 FOR MORE DETAILS

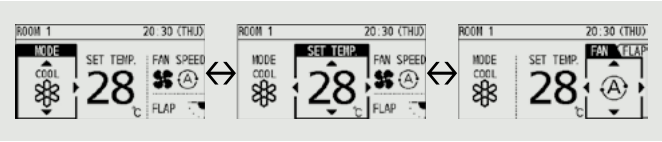
All functions are easily available on the remote controller.

- ON / OFF timer
- Weekly timer
- Quiet operation
- Remote controller sensor
- Operation prohibit
- Filter sign
- Energy saving
- Centralized control indication
- Mode change prohibit
- Automatic temperature return
- Temperature range limitation
- OFF remind
- Schedule demand control
- Ventilation
- Out Function



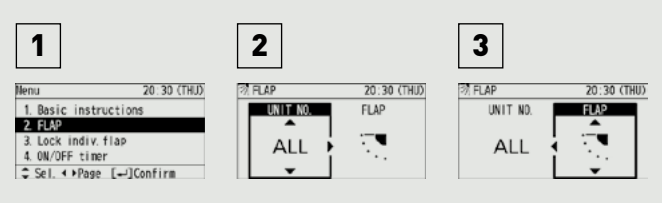
Easy operation and quick access to all menus

1 | Set temperature will be selected, when any arrow button is touched
2 | Select the item (Mode or Fan speed) by left/right ◂▸ key
3 | Change the setting by up/down ▴▾ key



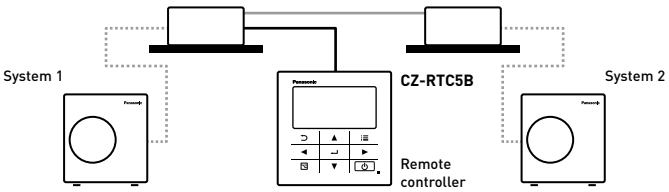
Example of easy access to the functions: air direction setting

1 | Select "Air direction" and press "Enter" key
2 | Select the unit number by up/down ▴▾ key
3 | Select the flap position by up/down ▴▾ key
4 | Press "Return" key to go back the Menu display



Backup control by using CZ-RTC5B

Group wiring of 2 systems of PACi NX can do auto individual control: Rotation operation, backup operation and support operation.



Functions available on the CZ-RTC5B

Control item	Controllability	Indoor units	
		PACi NX	VRF
Basic operation	Operation, Mode, Temperature setting, Air flow volume, Air flow direction	✔	✔
Timer function	Time display	✔	✔
	Easy ON / OFF timer	✔	✔
	Weekly program timer	✔	✔
Energy saving	Outing function	✔	✔
	Temperature auto return	✔	✔
	Temperature setting range limitation	✔	✔
	OFF remind	✔	✔
	Energy saving mode	✔	✔
	Schedule demand control	✔	✔
	Energy monitoring - R32	✔	—

Control item	Controllability	Indoor units	
		PACi NX	VRF
Maintenance	System failure information	✔	✔
	Service contact registration	✔	✔
	Filter sign (rest time display) and reset	✔	✔
	Auto-address, Test run	✔	✔
	Sensor value monitor	✔	✔
	Simple / Detail setting mode	✔	✔
Others	Key lock	✔	✔
	Ventilation fan control	✔	✔
	Display contrast adjustment	✔	✔
	Remote controller sensor	✔	✔
	Quiet operation mode	✔	—
	Prohibit setting control from central controller	✔	✔

*All specifications subject to change without notice.

Intelligent controller

This controller is the smart solution for your advanced requirement in buildings.

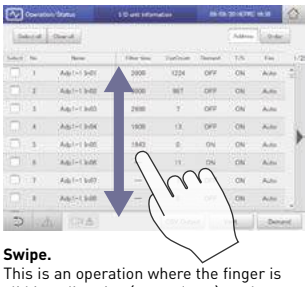
Intuitive operation.

REFER TO PAGE 454 FOR MORE DETAILS

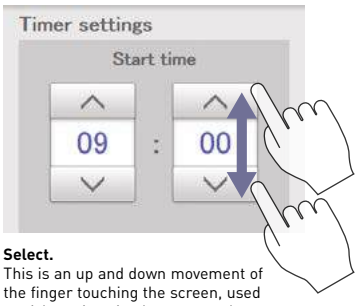
The screens used for operations all follow a common pattern, with the screens being easy to read and easy to use.
· Enlarged screen (10,4 inch) with colour LCD
· Smartphone-like gestures (flick, swipe, touch)

Large screen display. Enlarged by 60%.

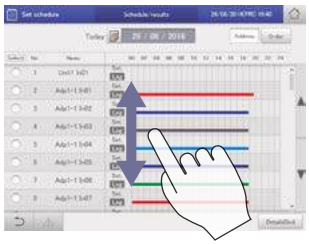
Easy swipe or flick operation.



Swipe.
This is an operation where the finger is slid in a direction (up or down) on the touch panel. This is used to scroll slowly.



Select.
This is an up and down movement of the finger touching the screen, used to pick settings in elements such as spin boxes.

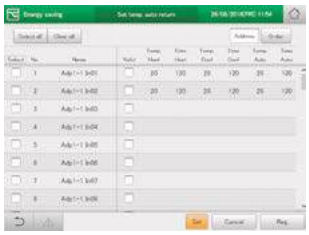


Pull out.
This is an operation where the finger on the touch panel is flicked in a direction (up or down). This is used to scroll quickly.

Enhanced functions for energy saving as standards

· Set temperature auto return settings, Auto shut OFF, set temperature range limit settings
· Demand control function

Screen of set temperature auto return setting.



Auto shut OFF.

Screen of outdoor demand control.

· Outdoor demand input and timer settings possible
· Indoor can be set at ±1 °C/ ±2 °C or thermostat OFF
· Indoor units controlled in sequence at 10-minute intervals

Energy visualization

· Energy saving plans are supported with graph display function
· Displays electricity and gas usage distribution

Screen of graph display.

Useful parameters are shown for your better energy saving.
Ex.) Bar graph:

Indoor unit:	Total operating time, thermostat ON operation time (Min.) Amount used (electricity, gas) Electricity or gas charges
Outdoor unit:	Outdoor unit operation cycles (# cycles) Engine time in operation (Hrs.) Cumulative Inverter power output Cumulative PV power output

Pulse value selection per different data intervals 1 hour/1 day/ 1 month compared with last year.

Main function

Gesture function (flick, swipe, touch)	✔
Graph display (trends, comparisons)	✔
Web functions (maximum 64 users)	✔
Recipient setting for warning email	✔ (Maximum 8)
Automatic return to setting temperature	✔
Limitation of setting temperature range	✔
Left-on prevention	✔
Quiet operation of outdoor unit	✔
Occupant sensor linkage	✔
Demand function	✔
Charge calculation	✔
Log display	✔ Warning 10000 items. Status change 50000 items
Linked control (event definition 50 events, input: 32, output: 32)	✔
Under maintenance (under inspection registration)	✔

Econavi sensor

The Econavi sensor detects presence in the room, and quietly adapts the PACi NX or VRF air conditioning system in order to improve comfort and energy savings.

- Detects human activity and adjusts temperature by 2 degrees (up or down) to optimise comfort and efficiency
- If there is no activity detected for a set time period, the Econavi will stop the unit or move to a temperature previously set
- The Econavi device is installed independently of the indoor unit, and is located in the area best suited for detection

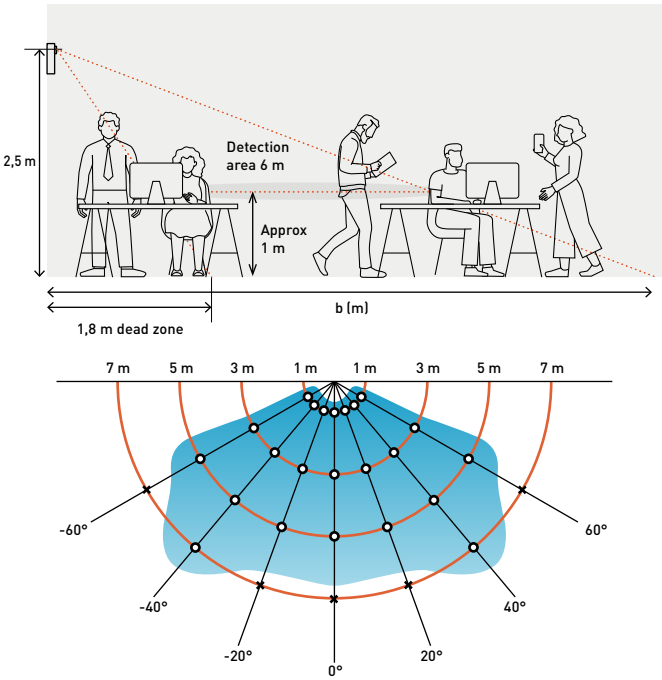
Applications

Saving energy for offices: If the air conditioning is left on after the last employee leaves the office, Econavi will automatically react, reducing or stopping the system. Increased comfort in hotel rooms: When presence is detected in the room, the temperature is automatically adjusted to achieve best comfort.

Key points

- Compatible with cassette, wall-mounted, hide-away and Ceiling units
- Improves efficiency
- Better comfort
- Can be installed in the best location within the room for detection purposes

Sensor location image.



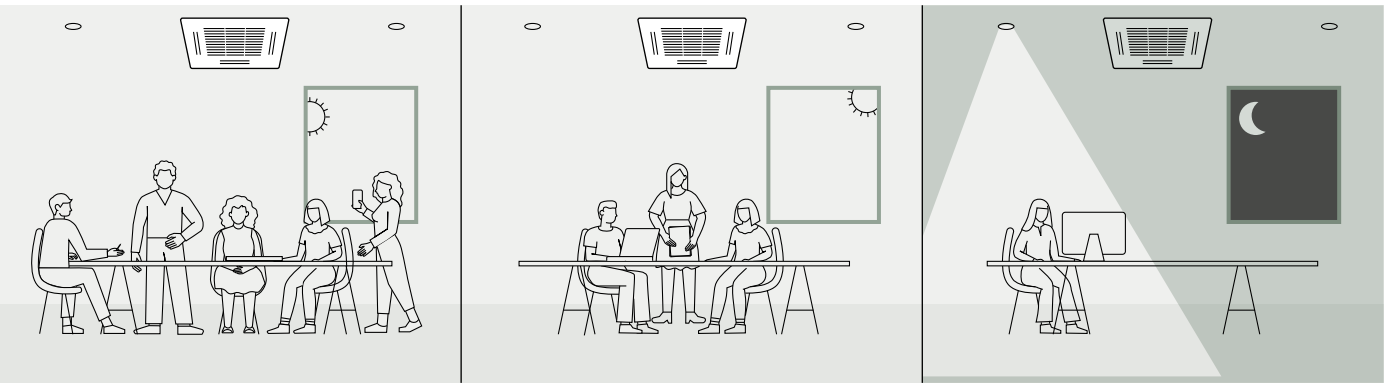
Human detection area (2,5 m height angle 30°)

Providing outstanding energy saving performance, Panasonic's Inverter system can be connected to Econavi to detect when energy is being wasted. Econavi senses the presence or absence of people and the level of activity in each area of an office. When unnecessary heating or cooling is detected, indoor units are individually controlled to match office conditions for energy saving operation.

Detection of the level of activity enables precise power saving.
Presence or absence of people at their desks and the level of activity in the office are detected in real time. Set temperature is automatically adjusted to optimise the lower power consumption.

Remote Econavi sensor allows optimum energy operation.
Pillars, walls, cabinets and other fittings obstruct the sensor, reducing the area of detection and lowering the energy saving effect. Taking into consideration blind spots, Panasonic enables the optimum layout for sensors in any office.

Econavi sensor: CZ-CENSC1



In the morning.
Thorough cooling when there is a high level of activity.

In the afternoon.
Reduced cooling when there are fewer people.

At night.
Automatic Thermo OFF depending on conditions at the end of the day.

Controller for hotel application

Innovative line up of room controllers specially designed for hotel applications. With a modern cosmetic that match room interiors and simple operation for hotel guests.

3 Room card switch (field supply).

Controller to integrate all room hotel needs in one device.
Card switch. Heating and cooling control. Light control. Window control. Possible to connect to Modbus.

1

Lighting control.

2

Wall silent motion sensor PAW-WMS-AC (-DC).

4

Indoor unit. Variable static pressure hide-away.

5

Door or window contact PAW-DWC.

Ceiling silent motion sensor PAW-CMS-AC (-DC).

- Easy to install
- Cost effective installation as all electrical cables are centralized on the remote: The lighting, card contact, motion detector, window contact and the air conditioning are controlled
- Architect inspired attractive design with 2 colors: black or white
- Stand alone and Modbus
- Bespoke finish by special order

Energy saving functions included on the device.
Turns OFF air conditioning and lighting when room is unoccupied. Disables air conditioning when window is open. Configurable maximum/minimum setpoint temperature.

Easy remote controller.
The hotel guest will have access to limited functions to control the air conditioning: ON / OFF, Temperature and Fan speed.

Easy set up.
Stand alone model with easy configuration menu to access all parameters. A pre-define scenario can be uploaded on the remote controller connected to a computer to make installation on site Plug & Play (only on the Modbus models).

REFER TO PAGE 450 FOR MORE DETAILS

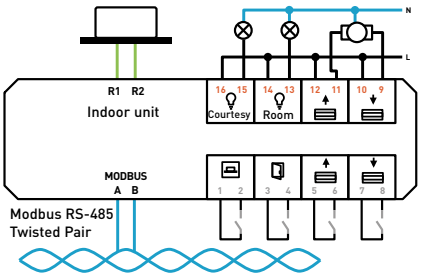
NFC fast set up.
With the touch display control and touch room controller setting are quicker than ever. Just touching smartphone with NFC capability the settings will be saved. This function is also possible even when the control is not wired. Giving flexibility to save the setting even before installation.

Type	Model	Colors	Digital inputs	Digital output	BMS	Inst. set up	T. sensor
Touch display controller	PAW-RE2D4-WH	White	2			NFC	Built-in
	PAW-RE2D4-BK	Black	2			NFC	Built-in
Touch room controller	PAW-RE2C4-MOD-WH	White	4	4	Modbus	NFC	Built-in
	PAW-RE2C4-MOD-BK	Black	4	4	Modbus	NFC	Built-in

Room controller: 4 digital inputs and 4 digital output

Room controller offers flexibility and easy installation thanks to 4 preconfigured options. This is available in Modbus type.
Modbus references: PAW-RE2C4-MOD-WH, PAW-RE2C4-MOD-BK.

Wiring configuration example for option 2 in Modbus type.

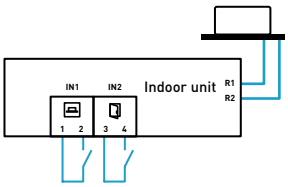


	4 options available I/O configurations: Inputs				Available I/O Configurations: Outputs			
Configurations	**Digital**	**Digital**	**Digital**	**Analog**	**Relay**	**Relay**	**Relay**	**Relay**
	1-2	**3-4**	**5-6**	**7-8**	**15-16**	**13-14**	**11-12**	**9-10**
Option 1	Card	Window	Lighting	Temperature	Courtesy	Lighting	Not used	Valve actuator
Option 2	Card	Window	Blinds up	Blinds down	Courtesy	Lighting	Blinds up	Blinds down
Option 3	Motion sensor	Window	Door contact	Temperature	Courtesy	Lighting	Not used	Valve actuator
Option 4	Lighting	Window	Blinds up	Blinds down	Not used	Lighting	Blinds up	Blinds down

Display: 2 digital inputs

Display control allows to handle 2 inputs to perform most common operation in room hotels.
References: PAW-RE2D4-WH, PAW-RE2D4-BK.

Wiring example for display controller.



	3 options available: Inputs	
Configurations	IN1 (1-2)	IN2 (3-4)
Option 1	Card	Window
Option 2	Motion sensor	Window
Option 3	Motion sensor	Door contact

Hotel room controller	
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black

Accessories sensors	
PAW-WMS-DC	Wall silent motion sensor 24 V
PAW-WMS-AC	Wall silent motion sensor 240 V AC
PAW-CMS-DC	Ceiling silent motion sensor 24 V
PAW-CMS-AC	Ceiling silent motion sensor 240 V AC
PAW-24DC	Power supply 24 V
PAW-DWC	Door or window contact

A united BMS interface with S-Link

Introducing a unified BMS interface, compatible with Modbus, BACnet, and KNX protocols. PAW-AC2-BMS-16, 64, 128.
BMS interface with Panasonic communication bus helps you to get significant savings. Easy to use and reliable interfaces for a straightforward integration.

1 Direct connection to S-Link communication bus

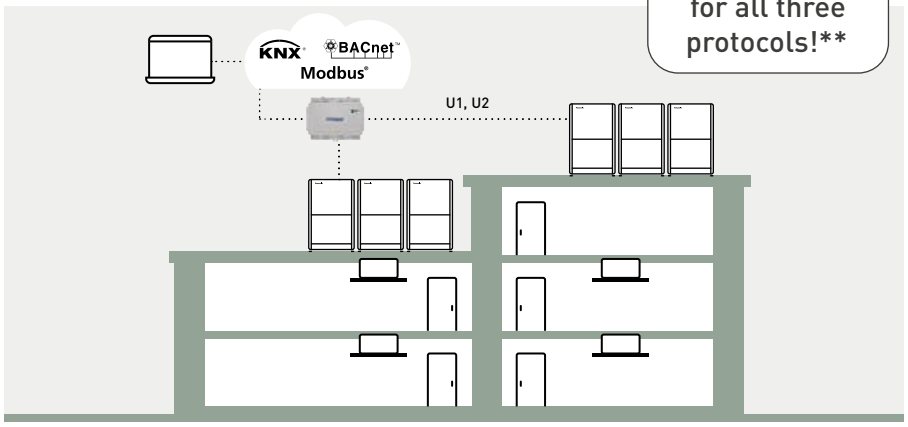
The interface can provide faster, cheaper, easier solution in your projects!

- No need for additional gateway (CZ-CFUNC2)
- Significant 50% cost saving for BMS interface*
- Avoid mistakes and reduce configuration time

*In the case of PAW-AC2-BMS-16 by Panasonic calculation.
**One BMS protocol is available per one interface.

System example with the unified BMS interface.

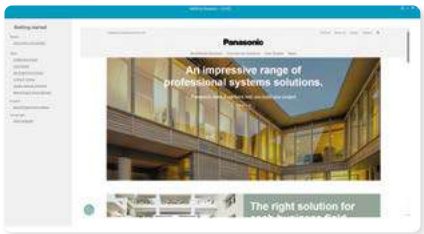
One interface for all three protocols!**

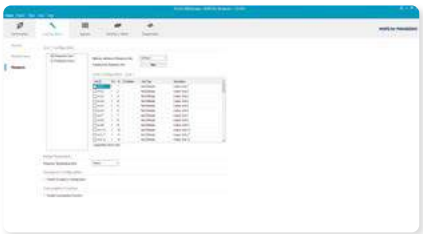


U1U2 link is connected directly to IntesisBox. Support from 16 to 128 per each interface.

2 Easy configuration

- A single device supporting all Modbus, BACnet, and KNX protocols
- Dedicated configuration support tool (MAPs for Panasonic)
- Firmware updates with improvements and features
- Scan: Automatic identification of the units present in the VRF system





Screen examples of MAPs for Panasonic.

3 Upgraded specifications

- Electricity consumption calculation using three inputs from pulse meters or Modbus meters
- BACnet: Version 14 and BTL Certified
- Modbus and BACnet 128 units now supports IP and RTU/MSTP
- **NEW!** MQTT Support available for third-party cloud monitoring, analytics, and remote control

Home automation compatibility for Smart Home systems for PAW-AC2-BMS-**

Drivers available for:

AMX, Control4, eedomus, Elan, Fibaro, iRidium, Eedom, RTI, Savant, Creston, Kuju and Vera

PAW-AC2-BMS-16	A unified interface supporting Modbus, BACnet, and KNX protocols for up to 16 indoor units
PAW-AC2-BMS-64	A unified interface supporting Modbus, BACnet, and KNX protocols for up to 64 indoor units
PAW-AC2-BMS-128	A unified interface supporting Modbus, BACnet, and KNX protocols for up to 128 indoor units

Version	Connectable indoor units	Connectable outdoor units	Number of S-Link communication bus port
16	1-16	1-16	1
64	1-64	1-30	1
128	128 (1-64 / S-Link communication bus port)	60 (1-30 / S-Link communication bus port)	2

Control and connectivity

A wide variety of control options to meet the requirements of different applications.

Centralized control systems

Intelligent controller.

Intelligent controller.
Up to 256 indoor units touch screen with web server.
CZ-256ESMC3

Commercial Smart Edge.

Edge controller box.
Up to 2000 control points.
PAW-CSE-1B / PAW-CSE-2B / PAW-CSE-10 / PAW-CSE-20

Connection with general equipment.

ON / OFF control for external devices such as ERV.
Controls 3 units.
CZ-CAPC4

Demand control for Mini ECOi (LZ2, LE2).
Up to 4 outdoor units.
CZ-CAPDC3

Mini Seri-Para I/O Unit 0 - 10 V.
Controls 1 indoor unit or a group of 8 indoor units.
CZ-CAPBC2

Communication Adaptor.
Up to 128 groups. Controls 128 units.
CZ-CFUNC2

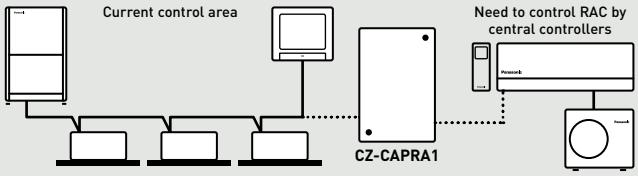
Domestic integration to S-Link

CZ-CAPRA1
Can connect RAC range to S-Link. Full control is now possible.

Integrates any unit in big system control.
- YKEA server room integration [1)]
- Small offices with domestic indoors
- Tender for refurbishment (old system Domestic and VRF in one installation)
- Centralized Control Systems: 64 indoor units
- Intelligent controller / Web Server: 256 indoor units
- Panasonic Commercial Smart Edge

- Basic operation items: ON / OFF, Mode select, Temperature setting, Fan speed, Flap setting, Remote control prohibit
- External input: ON / OFF control signal, Abnormal stop signal
- External output for Relay [2)]: Operation status (ON / OFF), Alarm status output

1) When duty rotation using the remote controller is set up, CZ-CAPRA1 cannot be connected.
2) Because current CN-CNT connector can not provide the power for external output relay, additional 12 V DC power supply for external relay is necessary.



Current system for PACi NX / VRF. Central controller can connect to S-Link line to control units directly.

RAC units cannot connect directly to S-Link to be managed by Central Controllers.

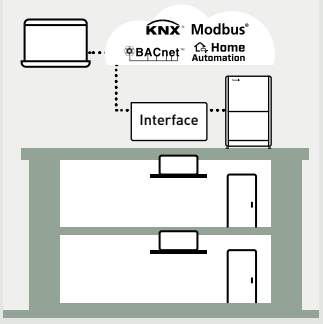
It's necessary to have interface between S-Link and RAC protocol to cover basic operating items.

Easy connection to KNX, Modbus, BACnet and Propietary Home Automation Systems

Easy and reliable solution to integrate your Panasonic heating and cooling systems into any BMS or BEMS.

Fully bi-directional communications with all necessary parameters.

For more information, contact Panasonic.



			Econavi control	Built-in thermostat	Indoor units which can be controlled	Use limitations	Function ON / OFF	Mode setting	Fan speed setting	Temperature setting	Air flow direction	Permit/Prohibit switching	Weekly program	BMS protocol
Individual controllers														
CONEX Wired remote controller		CZ-RTC6W CZ-RTC6 Non-wireless	✔	✔	1 group, 8 units	· Up to 2 controllers can be connected per group	✔	✔	✔	✔	✔	—	—	—
		CZ-RTC6WBL CZ-RTC6BL With Bluetooth®	✔	✔	1 group, 8 units	· Up to 1 controller can be connected per group	✔	✔	✔	✔	✔	—	✔	—
		CZ-RTC6WBLW2 [1] CZ-RTC6BLW2 [1] With Wi-Fi and Bluetooth®	✔	✔	1 group, 8 units	· Up to 1 controller can be connected per group	✔	✔	✔	✔	✔	—	✔	—
Design wired remote controller		CZ-RTC5B	✔	✔	1 group, 8 units	· Up to 2 controllers can be connected per group	✔	✔	✔	✔	✔	—	✔	—
Touch room controller for hotel with Dry Contact and Modbus		PAW-RE2C4-MOD-WH PAW-RE2C4-MOD-BK WH: White, BK: Black. Bespoke finish available on request.	—	✔	1 indoor unit	—	✔	✔	✔	✔	—	✔	—	Modbus + 4 digital I/O signals
Touch display control for hotel with Dry Contacts		PAW-RE2D4-WH PAW-RE2D4-BK WH: White, BK: Black. Bespoke finish available on request.	—	✔	1 indoor unit	—	✔	✔	✔	✔	—	✔	—	Stand Alone + 2 digital inputs
Infrared remote controller		CZ-RWS3 + CZ-RWRU3 CZ-RWS3 + CZ-RWRY3W CZ-RWS3 CZ-RWS3 + CZ-RWRL3 CZ-RWS3 + CZ-RWRD3 CZ-RWS3 + CZ-RWRT3 CZ-RWS3 + CZ-RWRC3	✔	—	1 group, 8 units	· Up to 2 controllers can be connected per group	✔	✔	✔	✔	✔ [2]	—	—	—
Centralized controllers														
System controller with weekly timer		CZ-64ESMC3	✔	—	64 groups, maximum 64 units	· Up to 10 controllers, can be connected to one system · Main unit/sub unit (1 main unit + 1 sub unit) connection is possible · Use without remote controller is possible	✔	✔	✔	✔	✔ [2]	✔	✔	—
Central ON / OFF controller		CZ-ANC3	—	—	16 groups, maximum 64 units	· Up to 8 controllers (4 main units + 4 sub units) can be connected to one system · Use without remote controller is impossible	✔	—	—	—	—	✔	—	—
Intelligent controller (touch screen/ web server)		CZ-256ESMC3	✔	—	Main unit: 128. Up to 256 units can be expanded	· Communication adaptor CZ-CFUNC2 is necessary for connection with more than 128 units	✔	✔	✔	✔	✔ [2]	✔	✔	—

1) Available for indoor unit types MY3, MF3, MM2, and MK3. 2) Setting is not possible when a remote controller unit is present (use the remote controller for setting). *All specifications subject to change without notice.

Individual controllers wired

CONEX wired remote controller

CZ-RTC6W // CZ-RTC6 // CZ-RTC6WBL // CZ-RTC6BL // CZ-RTC6WBLW2 // CZ-RTC6BLW2
· 3 line-up: - CZ-RTC6W // CZ-RTC6: Non-wireless
- CZ-RTC6WBL // CZ-RTC6BL: Bluetooth®
- CZ-RTC6WBLW2 [1] // CZ-RTC6BLW2 [1]: Wi-Fi and Bluetooth®
· Colours: 6W: White. 6: Black
· Intuitive control with stylish design profile
· Clean face with full flat and LCD display
· Dimension (H x W x D): 86 x 86 x 25 mm

Panasonic H&C Control App [2].
Daily remote control operation via Bluetooth® // · Quick and easy App set-up for system setting.

Panasonic H&C Diagnosis App [3].
Easy access to service parameters and service checker data via Bluetooth®.

Panasonic Comfort Cloud App.
Especially designed for end users // Remote operation via Wi-Fi.

Basic operation: Mode setting: Heat-Cool-Dry-Fan-Auto // Temperature setting // Fan speed: 5 levels // Air flow direction // nanoe™ X and Econavi setting // Weekly program [4].

1) Available for PACi NX Series and ECOi indoor units types MY3, MF3, MM2 and MK3.
2) CZ-RTC6WBL, CZ-RTC6BL, CZ-RTC6WBLW2 or CZ-RTC6BLW2 required.
3) A service checker interface is required. Compatible with PACi NX Series.
4) Can be set from Panasonic H&C Control App.

Comfort Cloud

Design wired remote controller

CZ-RTC5B
· Power consumption monitor (only for PACi NX)
· Flat face design and touch sensor switch for stylish design and operating usability
· Functions such as for energy saving and monitoring and for service use are available on the full dot LCD (3,5" display)
· Improved illumination
· White LED backlit
· Blink when alarm occurs

*Panasonic App is required on your smartphone.

Basic operation: Operation // Mode // Temperature setting // Air flow volume // Air flow direction.

Timer function: Outing function // Weekly program timer // Easy ON / OFF timer // Time display.

Energy saving: Outing function // Temperature setting range limitation // Temperature auto return // OFF remind // Schedule demand control // Energy saving mode // Energy monitoring.

Others: Key lock // Ventilation fan control // Display contrast adjustment // Remote controller sensor // Quiet operation mode // Prohibit setting control from central controller // Rotation / backup control.

*Rotation and backup control with CZ-RTC5B is available for all PACi NX systems.

Room controller for hotel rooms

PAW-RE2C4-MOD-WH // PAW-RE2C4-MOD-BK
· Easy to install
· Cost effective installation as all electrical cables are centralised on this remote
· Architect inspired attractive design
· Direct connection to the Indoor unit with all primary functions of indoor unit available
· 2 options available: Stand alone and Modbus communication
· Colours: WH: White. BK: Black
· Room controller: 4 digital inputs and 4 digital outputs

From this remote controller.
The lighting, card contact, motion detector, window contact and the air conditioning are controlled.

Energy saving functions included on the device.
· Turns OFF air conditioning and lighting when room is unoccupied
· Disables air conditioning when window is open
· Maximum/minimum setpoint temperature configurable

Fast and simple set up.
Set up is simple and easy for room controllers. It is extremely easy and quick with touch models, which can be set up by using smartphone with NFC technology, even when control is not yet installed / powered.

Display control for hotel rooms

PAW-RE2D4-WH // PAW-RE2D4-BK
· Easy to install
· Cost effective installation as all electrical cables are centralised on this remote
· Architect inspired attractive design
· Direct connection to the Indoor unit with all primary functions of indoor unit available
· Stand alone communication
· Colours: WH: White. BK: Black
· Basic hotel function: 2 digital inputs

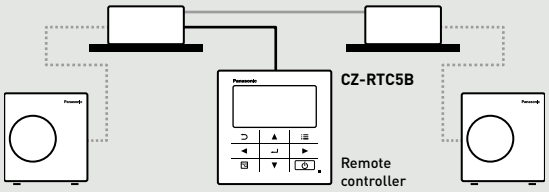
From this remote controller.
The card contact, motion detector, window contact and the air conditioning are controlled.

Energy saving functions included on the device.
· Disables air conditioning when window is open
· Maximum/minimum setpoint temperature configurable

Fast and simple set up.
Set up with smartphone with NFC technology, even when control is not yet installed/powered.

Redundancy control options for 24/7/365 applications with PACi NX

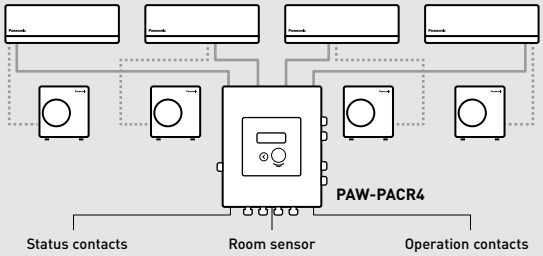
CZ-RTC5B / CZ-RTC6W / CZ-RTC6 / CZ-RTC6WBL / CZ-RTC6BL / CZ-RTC6WBLW2 / CZ-RTC6BLW2
· Full redundancy functionality
· Quick and easy installation using PACi NX group control
· Up to 2 PACi NX systems connectable to 1 remote controller
· Delta T setting for support operation selectable from 4 to 10 K
· Connectable to Panasonic centralised control systems
· Optional interfaces for connection to external BMS (Modbus, BACnet, KNX)



Redundancy control options for 24/7/365 applications with PACi NX or VRF

PAW-PACR4
· Redundancy control up to 4 indoor unit groups
· Actual unit operation / alarm status can be displayed
· Common digital alarm / operation status output
· For each support operation level, individual temperature thresholds can be set (cascade control)
· Room temperature display (by device's own temperature sensor)
· Modbus connection (up to 4 PAW-RC2-MBS-1)
· Available external inputs (ON / OFF, heating/cooling change*, fire prevention contact)

*External input heating/cooling change only for the interface control logic, not for the indoor unit mode change.



Individual wireless controllers

Infrared remote controller

CZ-RWS3 + CZ-RWRU3 // CZ-RWS3 + CZ-RWRY3W // CZ-RWS3 // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3 + CZ-RWRD3 // CZ-RWS3 + CZ-RWRT3 // CZ-RWS3 + CZ-RWRC3

- Easy installation for the 4 Way Cassette type by simply replacing the corner part
- 24 hour timer function
- Remote controller by main remote controller and sub controller is possible (maximum 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit)
- When CZ-RWS3 is used, infrared control becomes possible for all indoor units (1: when a separate receiver is set up in a different room, control from that room also becomes possible. 2: automatic operation by means of the emergency operation button is possible even when the remote controller has been lost or the batteries have been exhausted)
- Operation of separate energy recovery ventilators (when commercial ventilation fans or heat-exchange ventilation fans have been installed, they can be operated with this remote controller (interlocked operation with the indoor unit or independent ventilation ON / OFF)

Infrared remote controller and receiver for 4 way 90x90 cassette.
CZ-RWS3 + CZ-RWRU3

Infrared remote controller and receiver for 4 way 60x60 cassette with white panel (RAL9003).
CZ-RWS3 + CZ-RWRY3W

Infrared remote controller for wall-mounted and floor console.
CZ-RWS3

Infrared remote controller and receiver for 2 way cassette.
CZ-RWS3 + CZ-RWRL3

Infrared remote controller and receiver for 1 way cassette.
CZ-RWS3 + CZ-RWRD3

Infrared remote controller and receiver for ceiling.
CZ-RWS3 + CZ-RWRT3

Infrared remote controller and receiver for all indoor units.
CZ-RWS3 + CZ-RWRC3

Remote sensor

CZ-CSRC3

- This remote sensor can be connected to any PACi NX or VRF unit. Use it to detect the room temperature when no remote controller sensor or body sensor is used (connection to a system without a remote controller is possible)
- For joint use with a remote controller switch, use the remote controller switch as main remote controller
- Batch group control for up to 8 indoor units
- Appearance design based on simplified remote controller chassis
- Dimension (H x W x D): 120 x 70 x 17 mm
- Weight: 70 g
- Temperature/Humidity range: 0 °C to 40 °C / 20% to 80% (no condensation) (indoor use only)
- Power supply: 16 V DC (supplied from indoor unit)
- Maximum number of connectable indoor units: Up to 8 units

Control contents		Part name, model No.	Quantity
Standard control	· Control of the various operations of the indoor unit by wired or infrared remote controller · Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller · Switching between remote controller sensor and body sensor is possible	High spec wired remote controller: CZ-RTC5B CONEX wired remote controller: CZ-RTC6W // CZ-RTC6 // CZ-RTC6WBL // CZ-RTC6BL // CZ-RTC6WBLW2 // CZ-RTC6BLW2 Infrared remote controller: CZ-RWS3 + CZ-RWRU3 // CZ-RWS3 + CZ-RWRY3W // CZ-RWS3 // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3 + CZ-RWRD3 // CZ-RWS3 + CZ-RWRT3 // CZ-RWS3 + CZ-RWRC3	1 unit each
(1) Group control	· Up to 8 units can be connected to 1 remote controller · Operation of all indoor units in the same mode	High spec wired remote controller: CZ-RTC5B CONEX wired remote controller: CZ-RTC6W // CZ-RTC6 // CZ-RTC6WBL // CZ-RTC6BL // CZ-RTC6WBLW2 // CZ-RTC6BLW2 Infrared remote controller: CZ-RWS3 + CZ-RWRU3 // CZ-RWS3 + CZ-RWRY3W // CZ-RWS3 // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3 + CZ-RWRD3 // CZ-RWS3 + CZ-RWRT3 // CZ-RWS3 + CZ-RWRC3	8 units
(2) Main/ sub. remote controller	· Maximum 2 remote controllers per indoor unit · The button pressed last has priority · Timer setting is possible even with the sub remote controller	Main or sub.: High spec wired remote controller: CZ-RTC5B CONEX wired remote controller: CZ-RTC6W // CZ-RTC6 // CZ-RTC6WBL // CZ-RTC6BL // CZ-RTC6WBLW2 // CZ-RTC6BLW2 Infrared remote controller: CZ-RWS3 + CZ-RWRU3 // CZ-RWS3 + CZ-RWRY3W // CZ-RWS3 // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3 + CZ-RWRD3 // CZ-RWS3 + CZ-RWRT3 // CZ-RWS3 + CZ-RWRC3	As required

Centralised controllers

System controller with schedule timer

CZ-64ESMC3
Operation with various functions from central station.
Panasonic unveils state-of-the-art digital controller.
Panasonic's innovative and easy to use interface that offers full functionality with an integrated schedule timer and system controller, making managing heating and cooling systems easier than ever before. The CZ-64ESMC3 includes Panasonic's popular schedule timer, which gives users full flexibility over when they want their property heated or cooled. Users can adjust the system for holidays, pausing operations for long periods of time so that energy isn't wasted heating or cooling an empty home or office. The controller also allows six operations per day to be programmed.

Mix of current 2 controllers: System controller + schedule timer.
System controller will be designed by taking priority on these 2 operations with following technical key points:
· Same operation feeling as wired remote controller by touch-key panel
· High visibility and usability by full-dot LCD
· Based on high wired remote controller
· Maximum 64 group of indoor units, individual control for 64 units
· 4 zone control; 1 zone = maximum 16 groups
· Several energy saving function (based on CZ-RTC5B)
· 6 timer program per day for 1 week (7 days) operation (total 6 x 7= 42 programs)
· Basic setting items (Temperature, Mode, Fan speed, Flap position) can be set by same manner as CZ-RTC5B

Function list:
Central control functions:
· Central control / individual setting
- Start-stop prohibition for remote controller
- Start-stop / Mode change / Temperature setting prohibition for remote controller
- Mode change / Temperature setting prohibition for remote controller
- Mode change prohibition for remote controller
- Select items for prohibition
· Filter information
- Filter sign
- Filter sign reset
· Ventilation setting

Timer functions and external I/O:
· Weekly timer
- Timer setting enable / disable
- Copy of timer setting
· Maintenance
- External signal (Start / Stop) (Demand control)
- Centralized control master-slave setting
- Alarm history
· Initial setting
- Clock

Energy saving, maintenance and operating functions:
· Energy saving control
- Econavi ON / OFF
· Filter information
- Filter sign and hour counter display
· Maintenance
- Service contact
· Initial setting
- Clock display setting
- Name Setting
- Operation lock setting
- Operation sound setting
- LCD contrast setting
- LCD backlight setting
- Select displayed language (EN/FR/IT/ES/DE)
- Administrator password
· Setting information list

ECONAVI

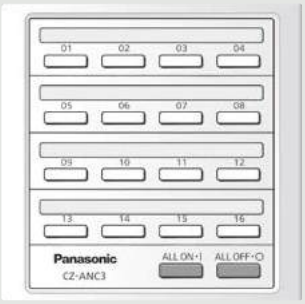
Sample display image / Operation status display

Operation Status ALL

Operation Status ZONE

Operation Status GROUP

ON / OFF controller



CZ-ANC3
Only ON / OFF operation from central station.
· 16 groups of indoor units can be controlled
· Collective control and individual group (unit) control can also be performed
· Up to 8 ON / OFF controller (4 main, 4 sub) can be installed in one link system
· The operation status can be determined immediately
· Dimension (H x W x D): 121 x 122 x 14 + 52 mm (embedding dimension)

Power supply: 220 to 240 V AC.
I/O part: Remote input (effective voltage: within 24 V DC): All ON / OFF.
Remote output (allowable voltage: within 30 V DC): ON, Alarm.

Note: As operation mode and temperature settings are not possible with the ON / OFF controller, it must be used together with a remote controller, a system controller etc.

Centralised controllers

Intelligent controller (touch screen panel)

CZ-256ESMC3
Simplified load distribution ratio (LDR) for each tenant.
- Dimension (H x W x D): 240 x 280 x 20 (+60) mm
- Power supply: Single phase 100-240 V ~ 50/60 Hz
- Maximum number of connectable indoor units: 256 units (maximum per link: 64 units)
- Maximum number of connectable outdoor units: 120 units (maximum per link: 30 units)
- Central control device: Up to 10 units
- Enlarged display screen: 10,4 inch touch-panel colour LCD. Pursuing visibility, ease of use. Retrieve data from USB memory: Place the USB port inside the panel (USB memory available in stores)
- Communication adaptor: CZ-CFUNC2*

*CZ-CFUNC2 is required to connect more than 128 indoor units.

Functions:
- Graph display (trends, comparisons)
- Econavi ON / OFF
- Outdoor unit quiet operation ON / OFF
- Energy saving functions: Set temperature auto return settings, Auto shut OFF, Set temperature range limit settings, Energy saving for PAC current value,etc.
- Event control (such as equipment linkage)
- Performs closing at end of any period

Operation and status.
You can check to operational status (ON / OFF, operating mode, alarms, etc.) of all indoor units and outdoor units in real time. You can also select indoor units to change their settings.

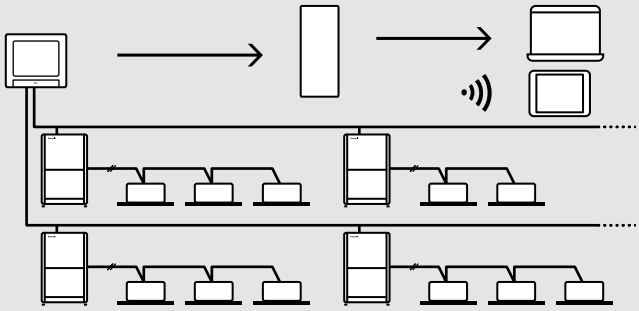
Operation scheduling.
You can register daily operation schedules (ON / OFF time, operating modes, set temperatures, etc.) for individual indoor units or groups of indoor units.
Operations can be schedule for up to 2 years in advance.

Load distribution calculation for each tenant.
- Air-conditioner load distribution ratio is calculated for each unit (tenant) with used energy consumption data (m^3, kWh)
- Calculated data is stored as a CSV type file
- Data from the last 365 days is stored

Web application. Web access and control from remote station.
- Accessing from remote PC
- You can monitor/operate system by using web browser

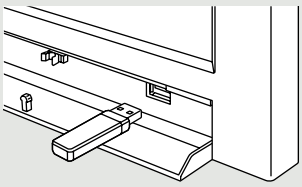
Remote controller.
The LAN terminal on this unit enables you connect it to a network. Connecting to Internet will enable you to operate the unit and check the status using a PC from a remote location*.

*Remote access rights and additional IT infrastructure / programming may be required.

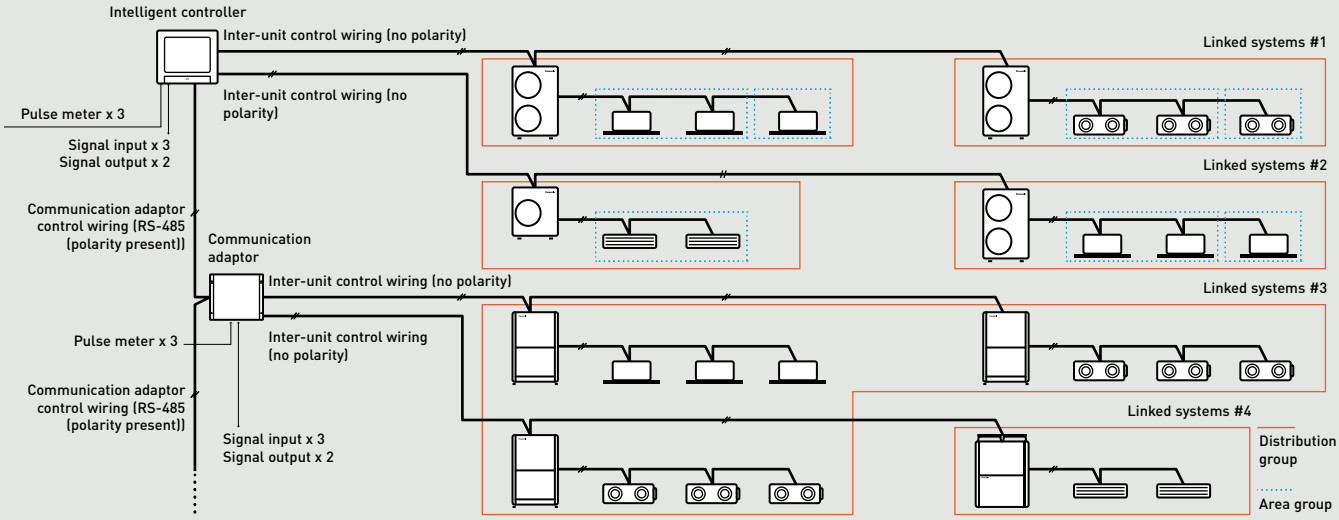


Backup tool to save your commissioning time.
Various data such as distribution, setting, log history etc. can be saved by CSV file.
Setting data of CSV file is available to edit and import to the controller again.
You can save time for commissioning and change setting flexibly and easily by your PC.
- Customize data
- Data recovery

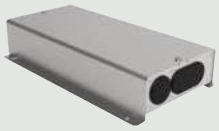
Data can be imported again by general USB.



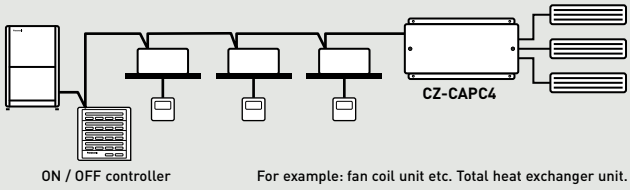
System configuration example.



Local adaptor for ON / OFF control



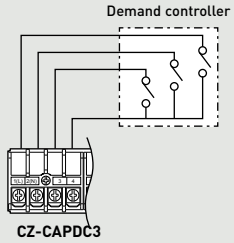
CZ-CAPC4
Connection with general equipment.
· Control and status monitoring is possible for individual indoor unit (or any external electrical device up to 250 V AC, 10 A) by contact signal
· Up to three digital outputs



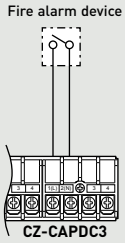
Demand control for Mini ECOi (LZ2, LE2) outdoor units

CZ-CAPDC3
Connection with general equipment.
· Control of Mini ECOi (LZ2, LE2) outdoor units
· From the central control device, demand control and forced stop are possible

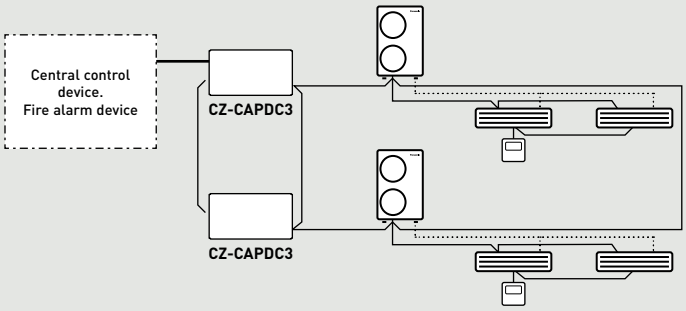
Input: Demand (non-voltage contact / 24 V DC / 2 mA, static signal).
Input: Forced stop operation (non-voltage contact / 24 V DC / 10 mA, static signal).
Forced stop input for fire alarm input control.
3 step demand control for staged control of outdoor unit capacity.



Demand control.



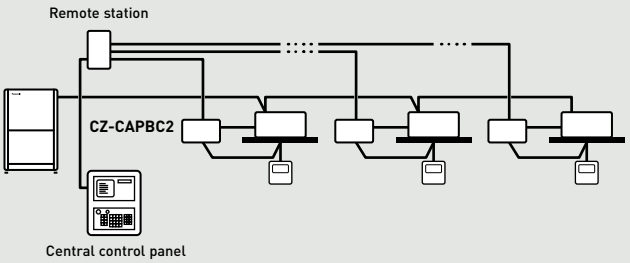
Forced stop.



Mini Seri-Para I/O Unit 0 -10 V

CZ-CAPBC2
Connection with general equipment.
· Control and status monitoring is possible for individual indoor unit (1 group)
· In addition to operation and stop, there is a digital input function for air speed and operation mode
· Temperature setting and measuring of the indoor suction temperature can be performed from central monitoring
· Power is supplied from the T10 terminal of the indoor units
· The analog input for demand of the outdoor capacity by 20 steps (from 40% to 120%) by 0-10 V
· The analog input for temperature setting is 0 to 10 V, or 0 to 140 Ohm
· Separate power supply also is possible (in case of suction temperature measuring)

*Ask to your distributor.



Communication adaptor for VRF connectivity

CZ-CFUNC2
This communication interface is required to connect a ECOi system to a BMS. CZ-CFUNC2 is very easy to operate and to connect to the Panasonic S-Link, which is the ECOi bus. From the CZ-CFUNC2, all the indoor and outdoor units of the installation can be easily control. Two linked wiring systems can be connected to one CZ-CFUNC2.
Dimension (H x W x D): 260 x 200 x 68 mm

*As this is not a splash-proof design, it must be installed indoors or in the control panel, etc.

PACi NX and VRF connectivity

Controls and connectivities are the key to offer better comfort and price. Panasonic offers its customers cutting-edge technology, specially designed to ensure our air conditioning systems deliver optimal performance.

BMS CONNECTIVITY

PACi NX and ECOi connectivity.

The interface has been designed specifically for Panasonic and provides complete monitoring, control and full functionality of the line-up from IntesisHome, KNX, Modbus and BACnet installations.
This connectivity solution with "PAW" model names is made by a third party company, please contact Panasonic for more information.

	Room controller	Interface	BMS Type	Maximum number of indoor units connected
PACi NX / ECOi indoor units	PAW-RE2C4-MOD-WH / PAW-RE2C4-MOD-BK		Modbus	1 unit/group
		PAW-RC2-KNX-1i	KNX	1 (1 group of indoor units)
		PAW-RC2-MBS-1	Modbus RTU [1]	1 (1 group of indoor units)
		PAW-RC2-MBS-4	Modbus	4 Indoor/groups
		PAW-RC2-BAC-1	BACnet	1
		PAW-AZRC-KNX-1	KNX	1 (1 group of indoor units)
		PAW-AZRC-MBS-1	Modbus RTU [1]	1 (1 group of indoor units)
		PAW-AZRC-BAC-1	BACnet	1
PACi NX / ECOi S-Link		PAW-AC2-BMS-16	KNX, Modbus and BACnet	16
		PAW-AC2-BMS-64	KNX, Modbus and BACnet	64
		PAW-AC2-BMS-128	KNX, Modbus and BACnet	128

1) Interface Modbus RTU/TCP is needed in case if Modbus TCP connection. PAW-MBS-TCP2RTU (ModBus RTU Slave devices).

Airzone. Control of the hide-aways

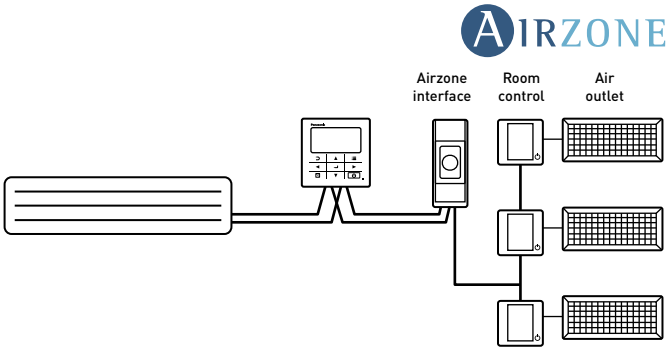
Airzone has developed interfaces to easily connect to Panasonic Commercial hide-away units. Ensuring optimum performance, comfort and energy savings, the system is efficient and easy to install.

Airzone full range of accessories for any duct project.

Different type of outlets

Also plenum automatic doors

Full range of remote controls (wired / Infrared, ...)



PACi NX and ECOi connectivity indoor units

PCB's and cables for PACi NX and ECOi indoor units

Name of the cables	Function	Comment
CZ-T10	All T10 functions	Requires field supplied accessory
PAW-FDC	Operate external fan	Requires field supplied accessory
PAW-OCT	All option monitoring signals	Requires field supplied accessory
CZ-CAPE2	3-Pipe control PCB	Requires additional wires from spare part supply
PAW-EXCT	Forced Thermo OFF/Leakage D	Requires field supplied accessory
PAW-OPT-MZ	Adapter harness for option, fan drive and EXCT functions	Compatible with PACi NX indoor unit types: PK4 and PE4, ECOi indoor unit types: MM2, MK3, MP2, and MR2

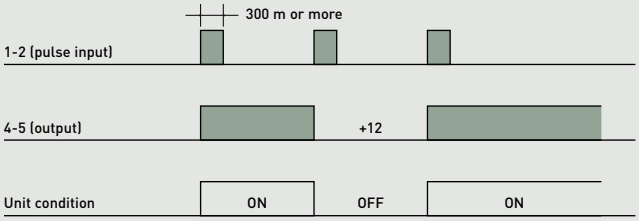
Name of the PBC	Function	Comment
PAW-T10	All T10 functions	Allows easy connection "Plug & Play"
PAW-PACR4	PCB for server room application. Available for PACi NX and ECOi	Interface for redundant operation up to 4 indoor unit groups

T10 connector (CN061)

CZ-T10
Panasonic has developed an optional accessory (consisting of plug + wires) called CZ-T10 to enable an easy connection to this T10 connector.

Connecting an ECOi indoor unit to an external device is easy. The T10 terminal featured in the electronic circuit board of all indoor units enables digital connection to external devices.

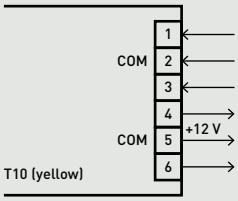
T10 terminal specification (T10: CN061 at indoor unit PCB).
· Control items: 1. Start / stop input
2. Remote controller prohibit input
3. Start signal output
4. Alarm signal output



NOTE: The wire length from indoor unit to the relay must be within 2,0 m. Pulse signal changeable to static by cutting jumper JP001.

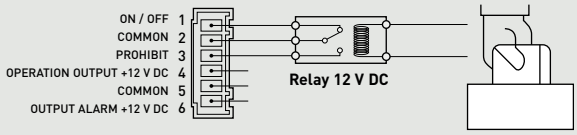
· Condition:
1. 1-2 (pulse input): Unit ON / OFF condition switching with a pulse signal. (1 pulse signal: shortage status more than 300 msec. or more)
2. 2-3 (static input): open / operation with remote is permitted (normal condition) close / remote controller is prohibited
3. 4-5 (static output): 12 V output during the unit ON / no output at OFF
4. 5-6 (static output): 12 V output when some errors occur / no output at normal

· Example of wiring:

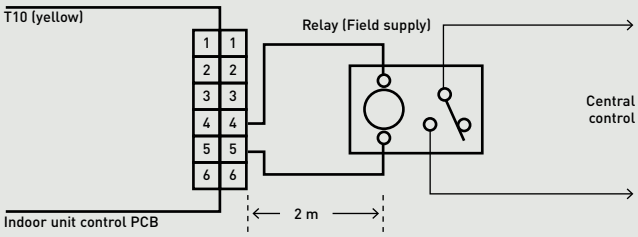


Usage example.
Forced OFF control.
Term 1 and 2: Free contact for ON / OFF signal (cut *JP1* for static signal) when the hotel card is it connected the contact must be close (the unit can be used).
Term 2 and 3: Free contact to prohibit all function in the remote controller install in the room when the hotel card is it removed the contact must be closed (the unit can not work).

Terminal = T10



Operation ON / OFF signal output.
· Condition:
4-5 (static output): 12 V output during the unit ON / no output at OFF
· Example of wiring:



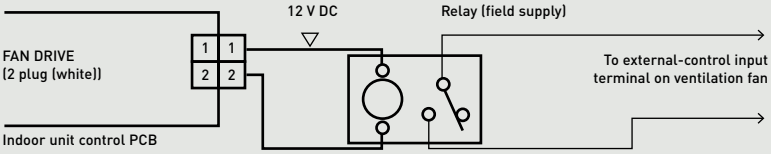
Note: The wire length from indoor unit to the Relay must be within 2,0 m. Pulse signal changeable to static by cutting jumper JP001.
*PACi NX Series is not compatible.

Fan drive connector (CN032)

PAW-FDC
Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-FDC to enable an easy connection to this fan drive connector (CN032).

Operating the ventilation fan from the remote controller
· Start / stop of external ventilation and total heat exchanger fans
· Works even if indoor unit is stopped
· In case of group control > all fans will operate; no individual control

External fan ON / OFF

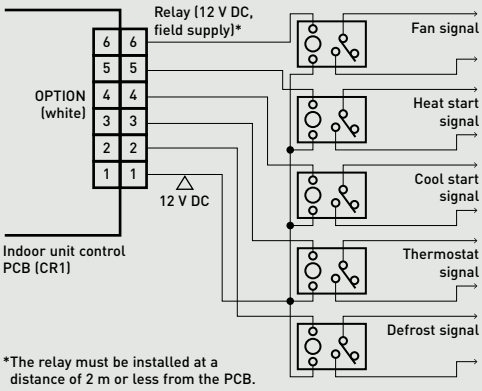


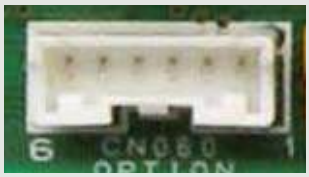
Option connector (CN060) output external signals

PAW-OCT
Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-OCT to enable an easy connection to this Option Connector (CN060).

With the combination of the T10 and the option CN060 an external control of the indoor units is possible!

6P (white): Outputs external signals as shown in the figure below.





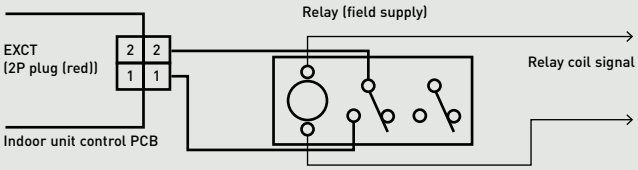
EXCT connector (CN073)

PAW-EXCT
Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-EXCT to enable an easy connection to this EXCT Connector (CN073).

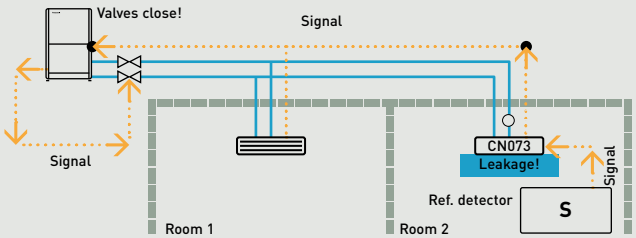
A) With static input.
> STATIC INPUT > THERMO OFF > ENERGY SAVING
2P plug (red): Can be used for demand control. When input is present, forces the unit to operate with the thermostat OFF.

Note: The length of the wiring from the indoor unit control PCB to the relay must be 2 m or less.

· Examples of wiring:



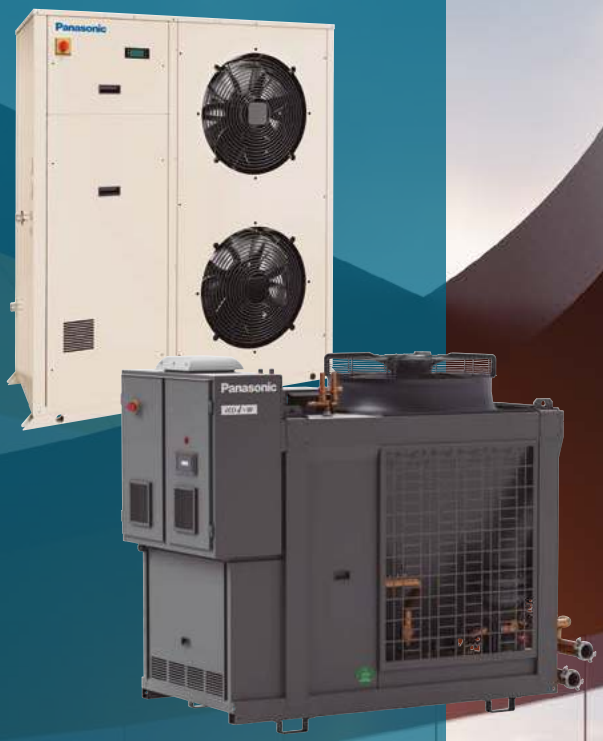
B) Example: In connection with a refrigerant sensor.
· Signal from leakage detector: non voltage, static.
· Indoor unit setting: Code 0b > 1
· Connector for leak detector: EXCT
· Outdoor unit setting:
Code C1 > 1 power output if alarm from O2 connector 230 V
Code C1 > 2 power output if alarm from O2 connector 0 V
· Displayed alarm message P14



Option harness

PAW-OPT-MZ
Adapter harness to allow connection of PAW-OCT and PAW-FDC, to provide option, fan drive, EXCT functions.
For PACi NX indoor unit types: PK4 and PE4.
For ECOi indoor unit types: MM2, MK3, MP2, and MR2.

ECO i - W



Chillers, heat pumps and water source heat pumps

These new Series provide a wide variety of HVAC system solutions, to meet all of your commercial and industrial needs.

ABOUT

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PRODUCT SPECIFICATIONS

Air cooled chillers, heat pumps and condensing units - ECOi-W
ECOi-W AQUA EVO H → 478
ECOi-W AQUA-G BLUE 50-80 H → 480
ECOi-W AQUA-G EVO 60-110 H → 482
ECOi-W AQUA 20-40 C/H/E → 484
ECOi-W AQUA-Z EVO 40-50 H → 486
ECOi-W AQUA-Z 50-170 C/H → 488
ECOi-W AQUA-Z DC 150-380 C/H → 490
ECOi-W AQV C/H/E → 494
ECOi-W VL H/E → 498
ECOi-W AQUA EVO 400-800 C → 502
ECOi-W SW-N EVO 380-1260 C → 504

Water cooled chillers, heat pumps and condenserless units - ECOi-W
ECOi-W WQ 20-190 C/H/R → 512
ECOi-W WQ 524-1604 C/H/R → 514
ECOi-W WSW-N EVO 440-1550 C/H/R → 516

Water source heat pumps - ECOi-LOOP
ECOi-LOOP 15-30 C/H · R410A → 524
ECOi-LOOP-N 70-135 H · R513A → 526
ECOi-LOOP-N EVO C/H · R513A → 528
ECOi-LOOP HRW H and ECOi-LOOP HRWE H · R407C → 530
ECOi-LOOP FS H · R407C → 532
ECOi-LOOP-N FS H · R513A → 534

Water source heat pumps control systems → 536

The reasons to choose Panasonic as your partner

Unrivaled reliability and quality.

Panasonic solutions can be enjoyed for years to come, even in the most extreme climates. Panasonic does not compromise on product quality, safety or durability, in order to provide the ultimate comfort when you need it most.

A wide variety of HVAC system solutions

MADE IN EUROPE

Panasonic solutions to suit a variety of commercial and industrial applications.
Our systems provide the optimal performance in any climatic conditions.

Air cooled chillers, heat pumps and condensing units - ECOi-W

The ECOi-W hydronic systems are perfect for any type of building. The air cooled chiller variant of the system is also a fundamental part of many industrial processes.

Water cooled chillers, heat pumps and condenserless units - ECOi-W

This system is particularly well suited for applications such as office buildings, hotels, shopping centers and hospitals.

Water source heat pumps - ECOi-LOOP

Water source heat pumps are ideal for best in class hotels, offices or shopping centers. ECOi-LOOP solutions offer improved comfort by having several different indoor climates inside a building, while maintaining the energy through an internal closed water loop.

AC SELECT.

Use AC SELECT to choose and configure your hydronic solution.

Panasonic online selection tool offers an easy and quick solution to specify all the hydronics ranges and rooftops at required conditions.

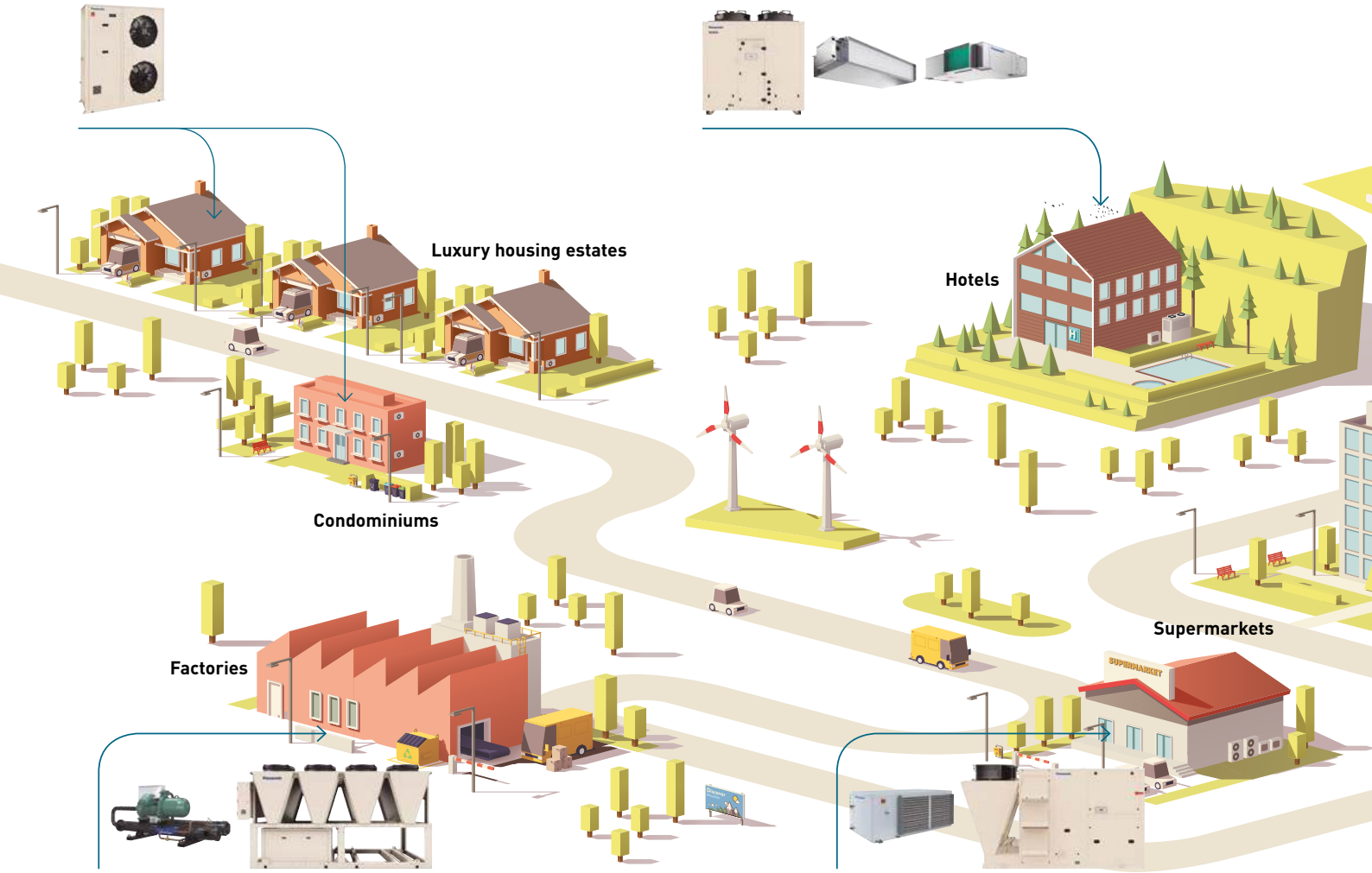
https://acselect.panasonic.eu/

A wide coverage of applications

Energy efficiency, high performance and comfort.

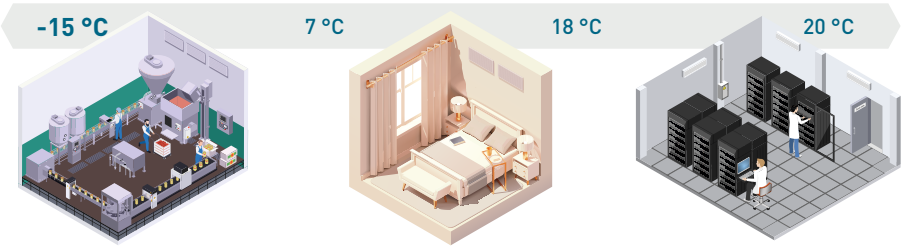
Chillers and heat pumps.
In residential applications a good indoor climate is important to ensure greater comfort and well-being. Our chillers and heat pump units with small capacities and DHW management are the ideal solutions.

Chillers and heat pumps, fan coils and water source heat pumps.
Ensuring a comfortable environment for the guests is the main challenge in all the types of hotel.
Panasonic offers a complete system thanks to the wide capacity range of its chillers, the design and low-noise operation of its fan coil units and the zone independent management of different spaces with its water source heat pumps.



Chillers and heat pumps.
Factories have high energy requirements. Panasonic chillers and heat pumps can meet this need due to the available capacity ranges. They also have high seasonal performance and are easy to install and maintain.

Chiller application temperatures.



Process cooling.
Plastic, metalworking, food and beverage, and chemical industries.

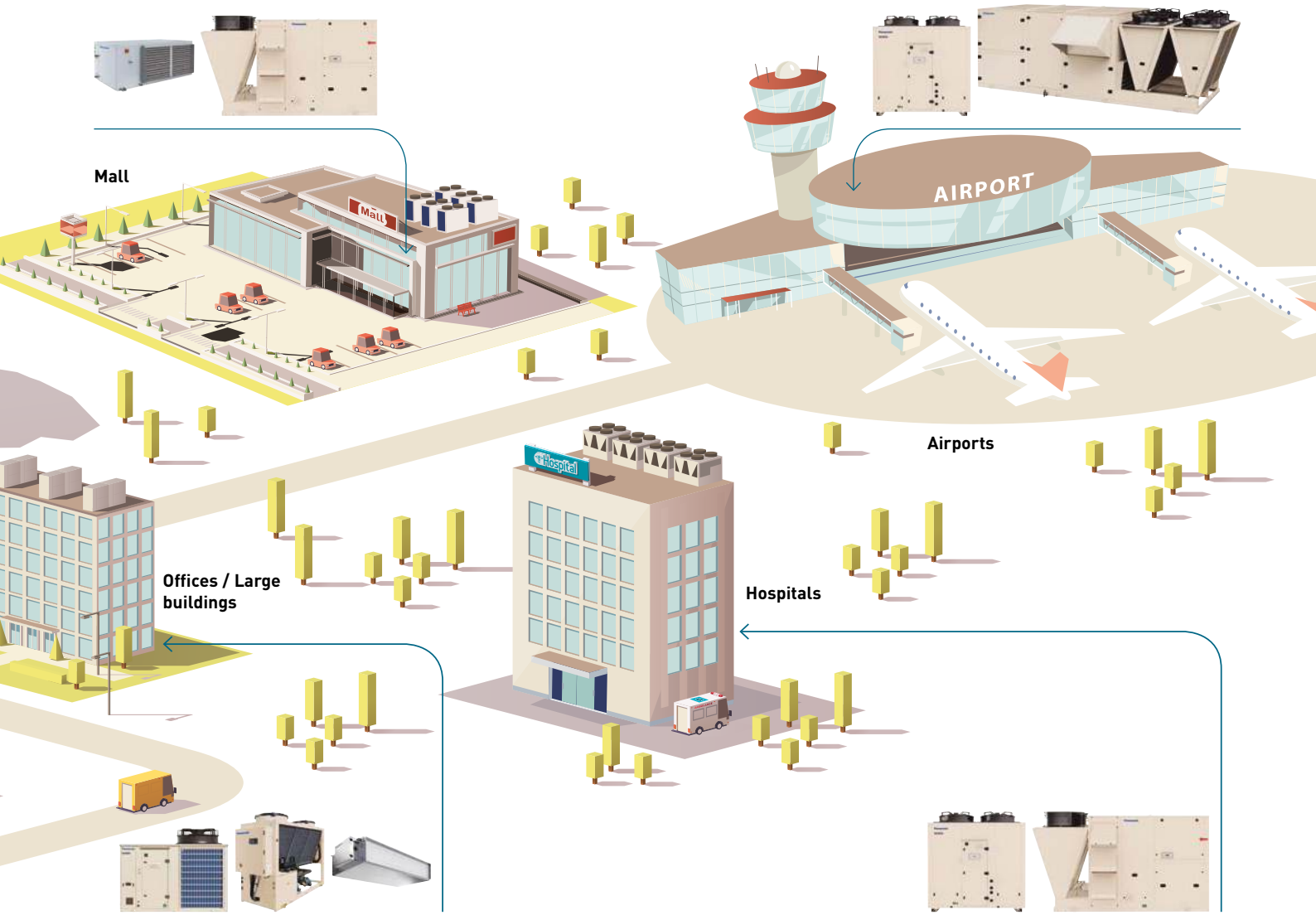
Comfort.
Homes, offices, shopping malls, hospitals, schools

IT cooling.
Server rooms, data centres.

Water source heat pumps and rooftops.
For supermarket applications, Panasonic has a wide range of solutions suitable to satisfy the required conditions: rooftops units can manage indoor ambient temperature and control the air quality, water source heat pumps have high-efficiency and can allow independent zone management.

Water source heat pumps and rooftops.
Comfort and air conditioning needs in commercial buildings must take into account the high demand for energy, the high number of people during the day, and the need to heat or cool quickly, changing loads and constantly renewing air. Rooftops are the ideal solutions due to their high capacities and high air flow that ensures better air quality. Water source heat pumps, on the other hand, provide accurate local control of different spaces, with high reliability and allow the overall energy consumption to be broken down by zone.

Chillers and heat pumps, and rooftops.
Energy consumption at airports has significant variability, and the number of users and passengers fluctuates throughout the day. For optimal air quality management and to meet the large energy needs of facilities, Panasonic offers a wide range of solutions like chillers and heat pumps and rooftops that guarantee high-efficiency and minimise waste energy consumption.



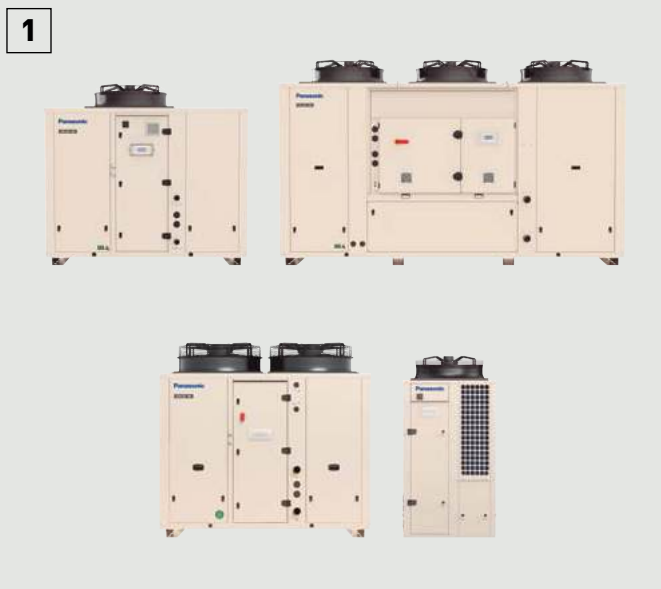
Chillers and heat pumps, and fan coils.
In offices, indoor climate is important for staff productivity and health. Panasonic chillers, heat pumps and fan coil units help create comfortable environments with high temperature control. Thanks to their natural refrigerant, R290 units are also the best solution for achieving high performance with reduced impact on the environment.

Chillers and heat pumps, and rooftops.
Hospitals require a high level of air quality and precise temperature control. Rooftop units are the best solutions due to their reliability and ability to provide fresh air through cooling, heating and ventilation of the building. The chiller and heat pump ranges help create an optimal indoor climate through their high performance and capacity. Our R32 ranges also have a low impact on the environment due to their low GWP refrigerant.

Solutions for hospitals

ECOi-W Series offers a reliable solution with an optimised design for service and maintenance, making it ideal for hospital applications. Remote monitoring through the ECOi-W Cloud offers enhanced service support and a highly efficient fan coil range delivers increased comfort.

1



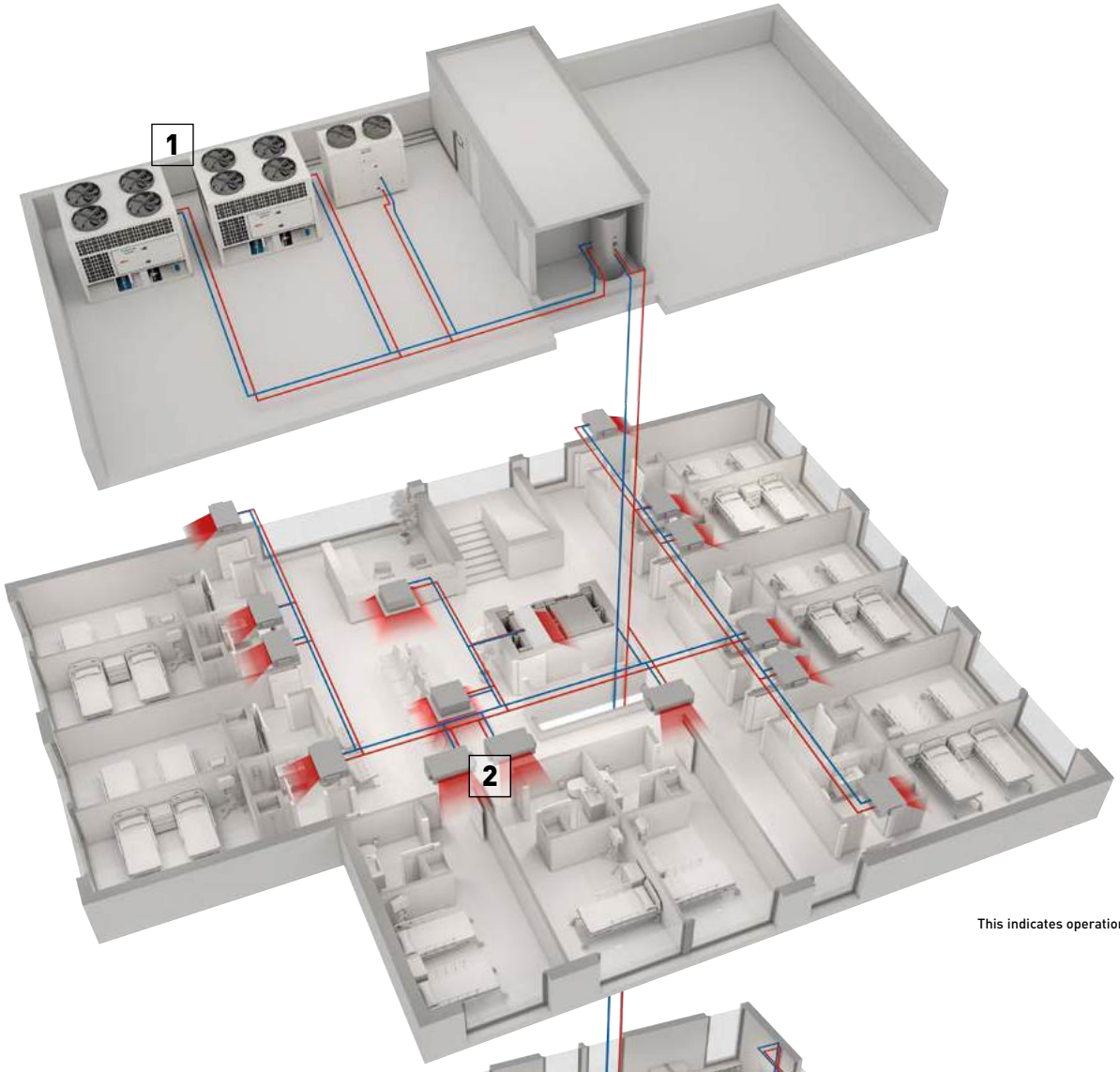
High quality chillers and heat pumps.
ECOi-W Series provides a fully customisable design to meet the business application needs, with a capacity range from 20 kW to 1650 kW. Reliable quality and an optimised design for service and maintenance are ideal for hospital projects.

2

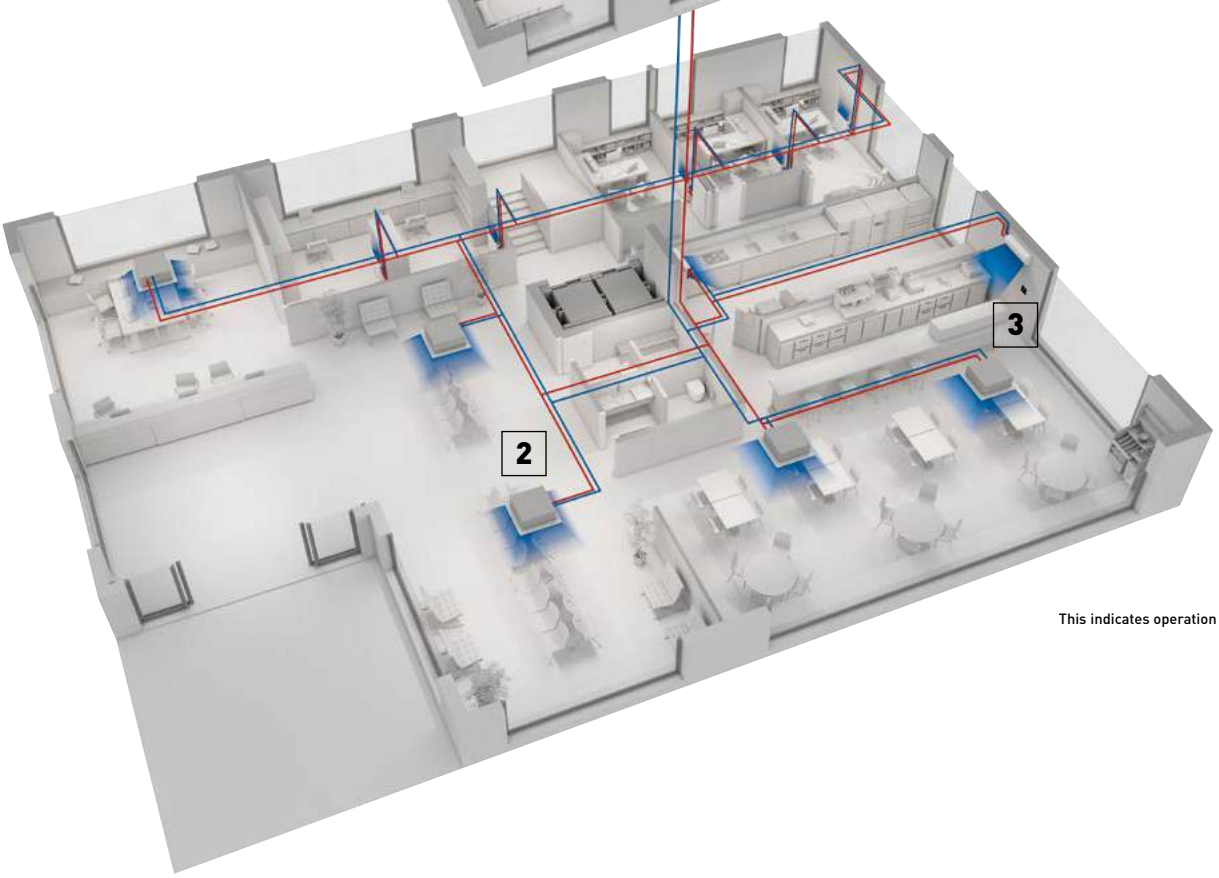
A wide variety of fan coils.
A wide variety of units to suit your needs, with flexible installation options. High-efficiency and low noise operation allows for optimum comfort.
Operation in both heating and cooling is possible.

3

Intuitive controllers for fan coils.
Controllers with sophisticated designs provide a user-friendly interface. An easy and low cost integration to building management systems.



This indicates operation in winter.



This indicates operation in summer.

Air cooled chillers, heat pumps and condensing units

Energy efficiency, high performance and comfort!

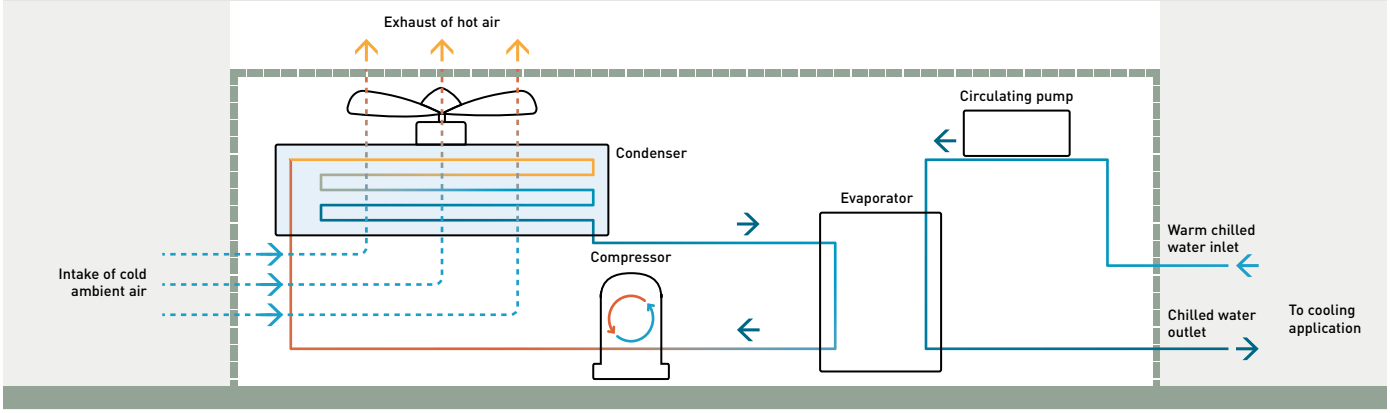
The ECOi-W hydronic systems offer the perfect combination of comfort and high-efficiency. They are perfect for any type of building. The air cooled chiller variant of the system is also a fundamental part of many industrial processes.

An air cooled chiller uses ambient air to cool and condense the hot refrigerant in the condenser.

Advantages:

- Simple design (no need for cooling systems such as cooling towers), low installation costs
- Small footprint, easier to maintain and manage than water cooled systems
- Reduced initial cost

*The below illustration show cooling application.



Compressors and refrigerants combination

Scroll compressors.
Scroll compressors have excellent low vibration and low noise properties.
Compact in size and suitable for designs where space is restricted.

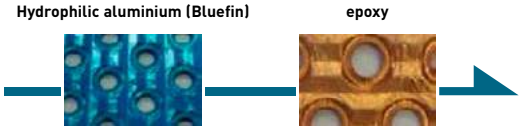
R290 R32 R410A

Screw compressors.
Screw compressors can be operated continuously and are therefore suitable for applications where a constant and consistent cooling load is required.
Due to their high energy efficiency, our products use these compressors in combination with high-efficiency refrigerants.

R513A

In-house manufactured coils

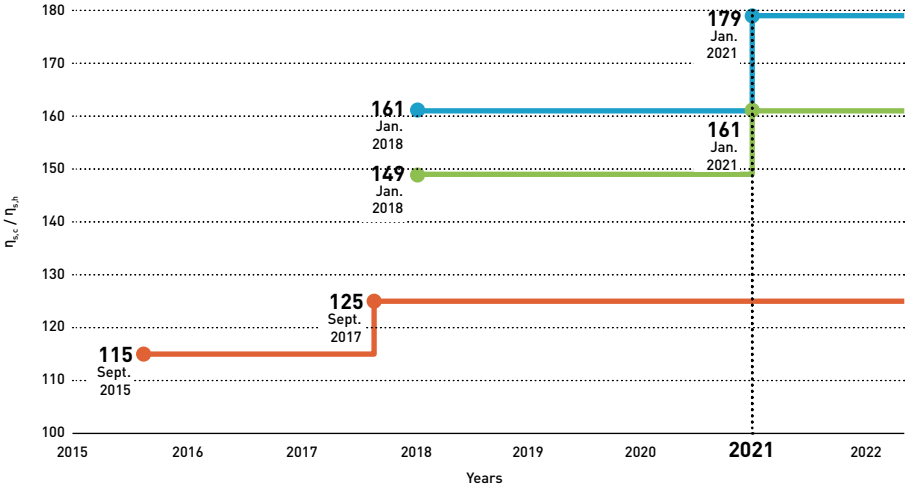
100% quality certified by Panasonic is ensured by coil production in our factory. Hydrophilic aluminium (Bluefin) treatment is available as standard. Special epoxy coating with strong protection against corrosion can be requested as option.



Microchannel coils

Significant reduction on refrigerant charge and operating weight.

Ecodesign



Air to water comfort chiller [1].

≤400 kW.
Minimum $\eta_{s,c}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) 2016/2281.

>400 kW.
Minimum $\eta_{s,c}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) 2016/2281.

Air to water heat pumps [2].

≤400 kW.
Minimum $\eta_{s,h}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) No813/2013.

>400 kW.
Minimum $\eta_{s,h}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) 2016/2281.

1) Calculated at nominal conditions: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB.
2) Rated heat output of space heaters and combination heaters at reference design conditions (Tdesign -10 °C) as stated in COMMISSION REGULATION (EU) No 813/2013.

ECOi-W AQUA-G EVO range. Unmatched innovation

Introducing an innovative solution with Inverter technology and natural refrigerant R290. Combine efficiency and comfort in one compact package.

R290 NATURAL REFRIGERANT

INVERTER

- INVERTER SCROLL COMPRESSORS
- HIGH SEASONAL EFFICIENCY
- A++[1] HIGH ENERGY EFFICIENCY CLASS
- DHW MANAGEMENT
- 75 °C MAXIMUM 75 °C LEAVING WATER TEMPERATURE
- SMALL FOOTPRINT

1) Scale A+++ to D. According to EN 14825 and Following COMMISSION REGULATION (EU) No 813/2013.

ECOi-W AQUA-G EVO – Heating optimised solution for superior efficiency in low ambient climates.

High-performance components, enhanced refrigerant circuits, and optimised defrost management. This solution is suitable for gas boiler replacement and DHW production.

Inverter technology: reliable performances under variable load conditions

Inverter compressor and inverter driven pump for high energy-efficiency and stable temperature control, improving comfort and reducing energy consumption.

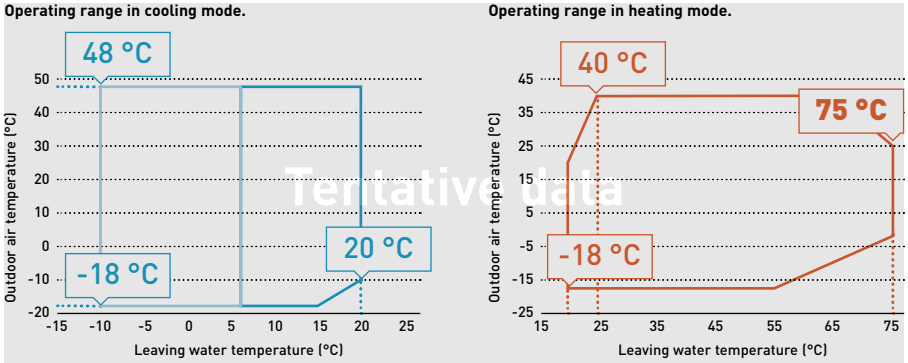
Enhanced capacity with cascade and modular configurations

· Scalable up to 880 kW with multiple units
· Modular configuration with minimum installation space*

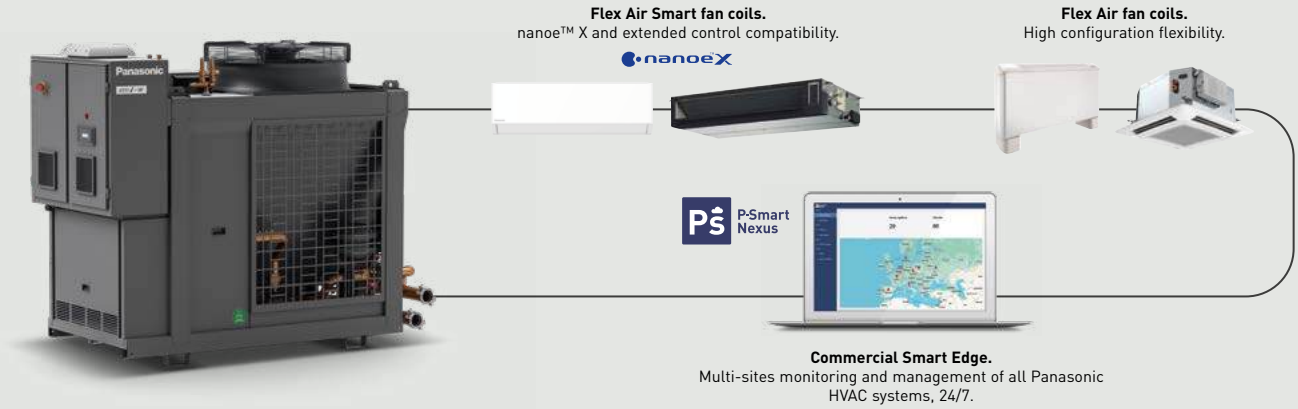
*Up to 440 kW.

Extended operating limits for high temperature heating

Exceptional operating limits delivering leaving water temperatures up to **75 °C** at 0 °C outdoor air temperature for domestic hot water production.



Comprehensive range of solutions for commercial applications.



Extension of the R290 heat pump range.

ECOi-W AQUA-G BLUE — Cooling optimised solution.

· Reliable and stable cooling capacity at high ambient temperatures
· Capacities from 50 to 80 kW
· Scalable solution and intelligent control logic
· Quiet operation: low sound power of only 79,9 dB(A)*
· Wide range of applications including offices, hotels, and multi-family houses

*Size 50.

Quick selection guide - Air cooled chillers

Page	Size	Cooling capacity (kW)	SEER	Sound power (dB(A))	Dimension [1] L x H x W (mm)
ECOi-W AQUA C · R410A	20	19,2	4,78	75	1000 x 1983 x 1000
	25	24,3	4,38	75	1000 x 1983 x 1000
P. 484	30	27,1	4,43	75	1000 x 1983 x 1000
	35	36,7	4,43	76	1000 x 1983 x 1000
	40	39,0	4,48	76	1000 x 1983 x 1000
ECOi-W AQUA-Z C · R32	50	51,6	4,60	83	2180x x 1986 x 1160
	60	57,6	4,59	84	2180x x 1986 x 1160
R32	70	69,7	4,61	81	2180x x 1986 x 1160
	75	78,2	4,72	81	2180x x 1986 x 1160
	85	82,8	4,45	84	2180x x 2286 x 1160
	100	100,0	4,88	86	2180x x 2286 x 1160
P. 488	115	116,0	4,59	87	2180x x 2286 x 1160
	130	126,0	4,43	87	2180x x 2286 x 1160
R32	150	154,0	4,70	89	3789 x 2285 x 1151
	170	173,0	4,68	91	3789 x 2285 x 1151
ECOi-W AQUA-Z DC C · R32					
R32	150	151,0	4,93	89,6	3795 x 2240 x 1096
	170	170,0	4,90	90,4	3795 x 2240 x 1096
R32	190	189,0	4,68	91,1	2650 x 2250 x 2211
	210	212,0	4,62	91,5	2650 x 2250 x 2211
	230	229,0	4,48	92,0	2650 x 2250 x 2211
	260	260,0	4,40	92,4	2650 x 2250 x 2211
R32	290	307,0	4,63	93,3	3775 x 2250 x 2211
	320	326,0	4,33	94,3	3775 x 2250 x 2211
P. 490	350	346,0	4,43	95,2	3775 x 2250 x 2211
	380	377,0	4,35	95,4	3775 x 2250 x 2211
R32	420 (210+210)	424,0	4,62	95,5	5310 x 2250 x 2211
	460 (230+230)	458,0	4,48	96	5310 x 2250 x 2211
	520 (260+260)	520,0	4,4	96,4	5310 x 2250 x 2211
R32	580 (290+290)	614,0	4,63	97,3	7556 x 2250 x 2211
	640 (320+320)	652,0	4,33	98,3	7556 x 2250 x 2211
	700 (350+350)	692,0	4,43	99,2	7556 x 2250 x 2211
	760 (380+380)	754,0	4,35	99,4	7556 x 2250 x 2211

1) Dimensions without water tank.

Page	Size	Cooling capacity (kW)	SEER	Sound power (dB(A))	Dimension [1] L x H x W (mm)
ECOi-W AQV C · R410A	85	83,5	4,55	84	2555 x 2185 x 1095
	95	93,6	4,80	84	2555 x 2185 x 1095
	105	103,0	4,78	84	2555 x 2185 x 1095
P. 498	115	110,1	4,80	84	2555 x 2185 x 1095
	125	121,9	4,73	88	3155 x 2185 x 1095
	140	136,6	4,53	88	3155 x 2185 x 1095
ECOi-W AQUA EVO C · R410A	400	390,4	4,48	92	4580 x 2500 x 2175
	450 S [2]	431,1	4,63	87	5620 x 2500 x 2175
	490 S [2]	470,2	4,58	87	6680 x 2500 x 2175
	530 S [2]	513,7	4,78	87	6680 x 2500 x 2175
P. 502	600	584,5	4,58	94	7760 x 2500 x 2175
	670	653,2	4,59	94	7760 x 2500 x 2175
	750 S [2]	727,7	4,73	89	8900 x 2500 x 2175
	800 S [2]	775,4	4,70	89	8900 x 2500 x 2175
ECOi-W SW-N EVO C · R513A	380	365,7	4,53	97	4660 x 2510 x 2192
	440	443,0	4,64	98	5712 x 2510 x 2192
	510	500,2	4,65	100	5712 x 2510 x 2192
	590	565,8	4,80	100	6764 x 2510 x 2192
	660	643,5	4,66	100	7816 x 2510 x 2192
R513A	730	704,3	4,56	101	7816 x 2510 x 2192
P. 504	810	778,1	4,62	101	8868 x 2510 x 2192
	900	896,9	4,56	102	9920 x 2510 x 2192
	980	983,5	4,60	102	10972 x 2510 x 2192
	1060	1047,4	4,87	103	12024 x 2510 x 2192
	1160	1154,0	4,86	103	13076 x 2510 x 2192
	1260	1240,5	4,85	103	13076 x 2510 x 2192

1) Dimensions without water tank. 2) S version.

Increased capacity with modular configuration units.

Our ECOi-W AQUA-Z DC units are available in both single and twin configurations. For large-scale projects, combine two double circuit units to significantly boost the capacity.

- 2xAQUA-Z DC units installed back to back from rear side
- Common hydraulic connections
- Common hydraulic kit: pumps (option)
- Separate power supply (1 per unit)

R32

Quick selection guide - Air cooled heat pumps

Page	Size	Cooling and heating capacity (kW)	SEER / SCOP	Sound power (dB(A))	Dimension [1] L x H x W (mm)
ECOi-W AQUA EVO H · R410A					
P. 478	20	21,0 / 20,4	3,30 / 3,75	74	1477 x 1615 x 539
	30	28,0 / 26,1	3,98 / 3,68	75	1477 x 1615 x 539
ECOi-W AQUA-G BLUE H · R290					
P. 480 R290 50 60 70-80	50	48,2 / 49,2	4,40 / 3,70	83	2215 x 1730 x 1032
	60	56,1 / 61,1	4,30 / 3,70	84	2180 x 2011 x 1160
	70	64,9 / 73,5	4,30 / 3,90	85	2180 x 2030 x 1160
	80	74,1 / 83,6	4,20 / 3,80	85	2180 x 2030 x 1160
NEW! ECOi-W AQUA-G EVO H · R290					
P. 482 R290	60	56,7 / 61,2	4,07 / 4,32	79	1998 x 2385 x 1116
	80	67,4 / 80,8	4,84 / 4,13	80	1998 x 3385 x 1116
	110	91,0 / 101,9	4,77 / 4,49	81	1998 x 3385 x 1116
ECOi-W AQUA H · R410A					
P. 484	20	18,7 / 19,5	4,68 / 3,50	75	1000 x 1983 x 1000
	25	23,7 / 26,9	4,31 / 3,38	75	1000 x 1983 x 1000
	30	26,4 / 29,7	4,28 / 3,45	75	1000 x 1983 x 1000
	35	35,8 / 37,3	4,25 / 3,50	76	1000 x 1983 x 1000
	40	38,1 / 41,6	4,33 / 3,50	76	1000 x 1983 x 1000
ECOi-W AQUA-Z EVO H · R32					
P. 486 R32	40	41,5 / 41,0	5,59 / 4,22	79,5	2209 x 1732 x 1100
	50	48,5 / 48,2	5,65 / 4,52	80,5	2209 x 1732 x 1100

Coming soon
Summer 2026

1) Dimensions without water tank.

New ECOi-W AQUA-G EVO.

The future of comfort: eco-friendly performance and advance technology in a groundbreaking solution.

- R290 — NATURAL REFRIGERANT R290 WITH GWP 0,02*
- INVERTER TECHNOLOGY
- 880 kW — BOOST CAPACITY UP TO 880 KW

*Based on the Sixth Assessment Report (AR6) adopted by the Intergovernmental Panel on Climate Change (IPCC).

Quick selection guide – Air cooled heat pumps

Page		Size	Cooling and heating capacity (kW)	SEER / SCOP	Sound power (dB(A))	Dimension [1] L x H x W (mm)
ECOi-W AQUA-Z H · R32		50	51,1 / 51,7	**4,46 / 3,63**	83	2180 x 1986 x 1160
		60	57,0 / 59,7	**4,42 / 3,51**	84	2180 x 1986 x 1160
		70	69,0 / 71,8	**4,51 / 3,49**	81	2180 x 1986 x 1160
	R32	75	77,4 / 78,5	**4,61 / 3,56**	81	2180 x 1986 x 1160
		85	82,0 / 86,5	**4,33 / 3,76**	84	2180 x 2286 x 1160
		100	99,3 / 107,6	**4,77 / 3,56**	86	2180 x 2286 x 1160
P. 488		115	115,0 / 122,3	**4,44 / 3,77**	87	2180 x 2286 x 1160
		130	125,0 / 137,5	**4,23 / 3,81**	87	2180 x 2286 x 1160
	R32	150	152,0 / 159,1	**4,59 / 3,78**	89	3789 x 2285 x 1151
		170	170,0 / 180,1	**4,49 / 3,70**	91	3789 x 2285 x 1151
ECOi-W AQUA-Z DC H · R32						
	R32	150	150,0 / 154,0	**4,75 / 3,83**	89,6	3795 x 2240 x 1096
		170	167,0 / 178,0	**4,71 / 3,90**	90,4	3795 x 2240 x 1096
		190	184,0 / 190,0	**4,45 / 3,46**	91,1	2650 x 2250 x 2211
	R32	210	204,0 / 201,0	**4,39 / 3,44**	91,5	2650 x 2250 x 2211
		220 [2]	208,0 / 219,0	**5,03 / 3,86**	91,3	2650 x 2300 x 2211
		230	224,0 / 241,0	**4,34 / 3,64**	92,0	2650 x 2250 x 2211
		260	251,0 / 256,9	**4,21 / 3,52**	92,4	2650 x 2250 x 2211
		270 [2]	265,0 / 288,0	**5,01 / 3,82**	92,8	3775 x 2300 x 2211
	R32	290	291,1 / 285,6	**4,34 / 3,51**	93,3	3775 x 2250 x 2211
		300 [2]	295,0 / 312,0	**5,01 / 3,92**	93,1	3775 x 2300 x 2211
P. 490		320	307,7 / 301,3	**4,33 / 3,50**	94,3	3775 x 2250 x 2211
		350	330,0 / 337,0	**4,40 / 3,50**	95,2	3775 x 2250 x 2211
		380	364,0 / 384,0	**4,34 / 3,66**	95,4	3775 x 2250 x 2211
	R32	420 (210+210)	408,0 / 402,0	**4,39 / 3,44**	95,5	5310 x 2250 x 2211
		440 (220+220)	438,0 / 416,0	**5,03 / 3,86**	95,3	5310 x 2250 x 2211
		460 (230+230) [2]	448,0 / 482,0	**4,34 / 3,64**	96,0	5310 x 2250 x 2211
		520 (260+260)	502,0 / 513,8	**4,21 / 3,52**	96,4	5310 x 2250 x 2211
	R32	540 (270+270) [2]	530,0 / 576,0	**5,01 / 3,82**	96,8	7556 x 2250 x 2211
		580 (290+290)	582,2 / 571,2	**4,34 / 3,51**	97,3	7556 x 2250 x 2211
		600 (300+300) [2]	590,0 / 624,0	**5,01 / 3,92**	97,1	7556 x 2250 x 2211
		640 (320+320)	615,4 / 602,6	**4,33 / 3,50**	98,3	7556 x 2250 x 2211
		700 (350+350)	660,0 / 674,0	**4,40 / 3,50**	99,2	7556 x 2250 x 2211
		760 (380+380)	728,0 / 768,0	**4,34 / 3,66**	99,4	7556 x 2250 x 2211

1) Dimensions without water tank. 2) Only EC fans version.

Quick selection guide – Air cooled heat pumps

Page	Size	Cooling and heating capacity (kW)	SEER / SCOP	Sound power (dB(A))	Dimension [1] L x H x W (mm)
ECOi-W AQV H · R410A	85	81,0 / 91,8	**4,25 / 3,61**	84	2555 x 2185 x 1095
P. 494	95	89,9 / 102,8	**4,68 / 3,64**	84	2555 x 2185 x 1095
	105	98,9 / 110,0	**4,63 / 3,78**	84	2555 x 2185 x 1095
	115	106,9 / 119,0	**4,17 / 3,77**	84	2555 x 2185 x 1095
	125	115,8 / 134,0	**4,33 / 3,47**	88	3155 x 2185 x 1095
	140	129,2 / 146,9	**4,28 / 3,54**	88	3155 x 2185 x 1095
ECOi-W VL H · R410A	704	173,2 / 200,1	**3,63 / 3,41**	93	4300 x 2300 x 1100
P. 498	804	197,1 / 223,2	**3,55 / 3,42**	93	4300 x 2300 x 1100
	904	226,4 / 254,7	**3,35 / 3,28**	94	4300 x 2300 x 1100
	1004	246,3 / 270,8	**3,50 / 3,39**	94	4300 x 2300 x 1100
	1104	273,1 / 302,1	**3,53 / 3,30**	95	4300 x 2300 x 1100
	1204	299,9 / 337,4	**3,43 / 3,19**	95	4300 x 2300 x 1100

1) Dimensions without water tank. 2) Only EC fans version.

Quick selection guide – Air cooled condensing units

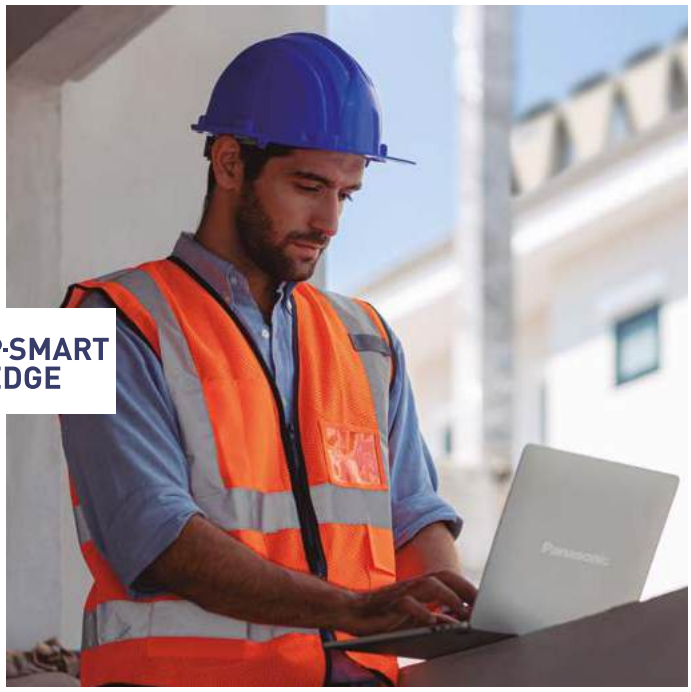
Page	Size	Cooling capacity (kW)	EER	Sound power (dB(A))	Dimension [1] L x H x W (mm)
ECOi-W AQUA E · R410A	25	32,4	**3,24**	75	1000 x 1983 x 1000
P. 484	30	33,7	**3,15**	75	1000 x 1983 x 1000
	35	43,1	**2,90**	76	1000 x 1983 x 1000
	40	44,8	**2,99**	76	1000 x 1983 x 1000
ECOi-W AQV E · R410A	85	92,1	**3,36**	84	2555 x 2185 x 1095
P. 494	95	103,2	**3,29**	84	2555 x 2185 x 1095
	105	113,2	**3,32**	84	2555 x 2185 x 1095
	115	121,8	**3,30**	84	2555 x 2185 x 1095
	125	134,7	**3,23**	88	3155 x 2185 x 1095
	140	151,0	**3,23**	88	3155 x 2185 x 1095
ECOi-W VL E · R410A	704	199,0	**2,90**	93	4300 x 2300 x 1100
P. 498	804	224,0	**3,00**	93	4300 x 2300 x 1100
	904	258,0	**2,98**	94	4300 x 2300 x 1100
	1004	283,0	**3,12**	94	4300 x 2300 x 1100
	1104	315,0	**2,98**	95	4300 x 2300 x 1100
	1204	347,0	**2,90**	95	4300 x 2300 x 1100

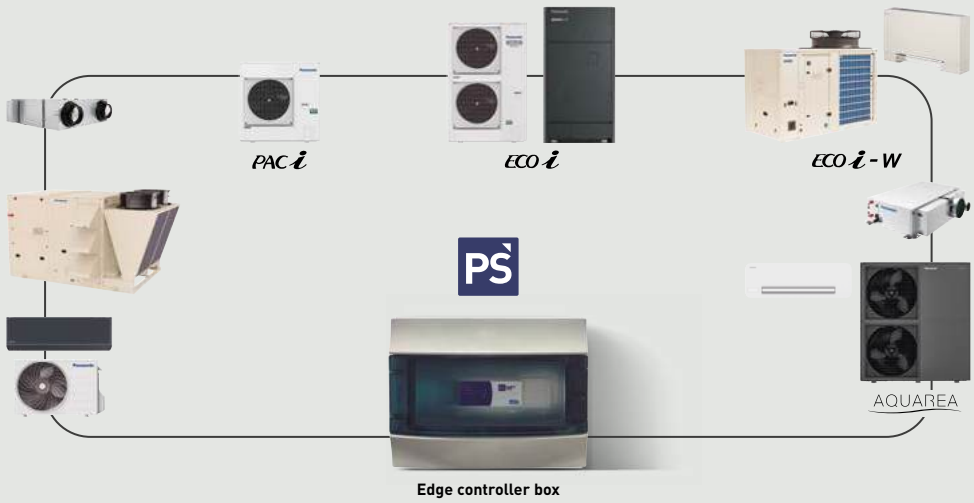
1) Dimensions without water tank.

Commercial Smart Edge

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.

- COMPATIBLE WITH ENTIRE HVAC RANGE
- SIMPLIFIED COMMISSIONING
- OPTIMISED PLANT MANAGEMENT
- ADVANCED ANALYTICS





P-SMART EDGE

P-Smart Edge*.
A powerful smart control platform designed for single-site installations, giving you seamless management of the complete Panasonic HVAC range.

*Edge controller box (PAW-CSE**) is required.

P-Smart Nexus

P-Smart Nexus*.
An online multi-site control solution that provides remote, centralised supervision of all your locations worldwide.

Model code	Control points	Indoor unit connections [1]
PAW-CSE-1B	100	4
PAW-CSE-2B	200	10

Model code	Control points	Indoor unit connections [1]
PAW-CSE-10	1000	50
PAW-CSE-20	2000	100

1) The final number of connected indoor units may vary depending on the range. *For the detail information, please contact an authorised Panasonic dealer.

ECOi-W AQUA EVO H · R410A

Air cooled heat pumps Inverter.

Cooling capacity: 20,0 to 35,9 kW.
Heating capacity: 20,4 to 34,0 kW.

The range at a glance

· 1 version: H (heat pump)
· 2 sizes

Advantages

· Wide load variation capability:
  - Cooling operation down to 30% and up to 140% of nominal capacity
  - Heating operation down to 40% and up to 130% of nominal capacity
· Unit optimization in heating mode for both fan coil and floor applications
· Wide operating limits in heating mode
· Domestic Hot Water management
· Inverter compressor
· New fan motors (ErP compliant) with integrated grill and fan speed control as standard

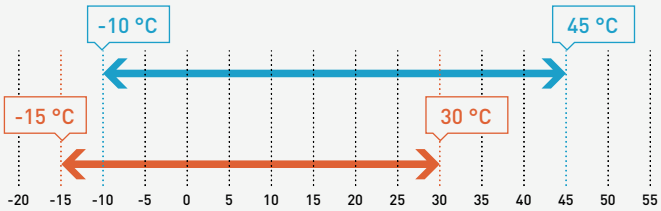
Equipment

· A single Inverter driven 3-phase scroll compressor equipped with variable frequency brushless motor (20-120 Hz)
· Plate evaporator (AISI 316)
· 1 refrigerant circuit
· Bi-flow electronic expansion valve
· Multistage centrifugal pump as standard
· Bluefin coil
· Operating low water content in the plant
· Automatic circuit breaker
· Coil grilles
· Fan speed control
· Power factor corrector capacitors
· Phase sequence control
· Soft starter
· Water differential pressure switch
· Water filter
· DHW function available on the controller with DHW probe and 3 way valve available as options

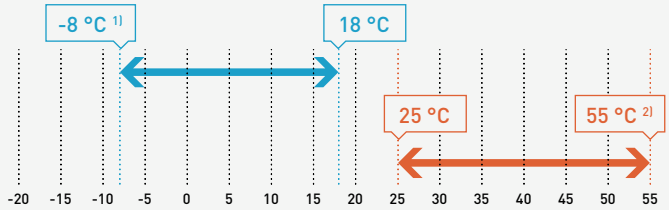
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature.



Leaving water temperature.



Cooling: outside air temperature (°C (DB)). Heating: outside air temperature (°C (WB)).
1) Below 5 °C, glycol is required. For operation below 0 °C contact sales office.
2) Maximum leaving water temperature 55 °C (minimum outdoor air temperature -10 °C size 20, -15 °C size 30) to be confirmed with AC SELECT.
Chillers suitable for operation without buffer tank for water content greater than 2,5 liters of water per kW of output.

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Power supply	Voltage	V	400	400
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Size			**20**	**30**
ECOi-W AQUA EVO H - heat pump			**P-AQAVE0020HA**	**P-AQAVE0030HA**
Cooling capacity [1]	Nominal (Min - Max)	kW	20,0 (9,33 - 28,0)	29,0 (13,9 - 35,9)
Input power [1]	Nominal (Min - Max)	kW	4,15 (2,38 - 6,61)	7,24 (3,51 - 13,0)
EER [1]	Nominal (Min - Max)		4,82 (3,92 - 4,24)	4,01 (3,96 - 2,76)
Cooling capacity [2]	Nominal (Min - Max)	kW	21,0 (6,60 - 25,2)	28,0 (9,43 - 31,1)
Input power [2]	Nominal (Min - Max)	kW	6,95 (2,52 - 10,3)	10,9 (3,14 - 12,4)
EER [2]	Nominal (Min - Max)		3,02 (2,62 - 2,45)	2,57 (3,00 - 2,51)
EER 75%			3,83	3,65
EER 50%			4,53	4,48
EER 25%			3,80	4,79
SEER [3]			**3,30**	**3,98**
$\eta_{s,c}$ [3]			**129**	**156**
Nominal water flow (in the evaporator)		m³/h	3,64	5,92
Heating capacity [4]	Nominal (Min - Max)	kW	20,4 (9,94 - 29,4)	26,1 (11,5 - 34,0)
Input power [4]	Nominal (Min - Max)	kW	5,02 (2,98 - 8,37)	6,45 (3,01 - 9,80)
COP [4]	Nominal (Min - Max)		4,06 (3,34 - 3,51)	4,05 (3,82 - 3,47)
Heating capacity [5]	Nominal (Min - Max)	kW	20,4 (8,90 - 27,4)	26,1 (10,2 - 33,9)
Input power [5]	Nominal (Min - Max)	kW	6,44 (3,34 - 9,64)	8,42 (3,97 - 11,6)
COP [5]	Nominal (Min - Max)		3,17 (2,66 - 2,84)	3,10 (2,57 - 2,91)
SCOP [6] [7]			**3,75**	**3,68**
Energy efficiency class [6] [7]		**A+++ to D**	**A+**	**A+**
$\eta_{s,h}$ [6] [7]			**147**	**144**
SCOP [6] [8]			**3,00**	**2,95**
Energy efficiency class [6] [8]		**A+++ to D**	**A+**	**A+**
$\eta_{s,h}$ [6] [8]			**117**	**115**
Nominal water flow (in the evaporator)		m³/h	3,64	5,92
Sound power [9]		dB(A)	74	75
Sound pressure at 10 m [10]		dB(A)	43	44

Physical features

ECOi-W AQUA EVO H - heat pump			**20**	**30**
Dimension	H x W x L	mm	1615 x 539 x 1477	1615 x 539 x 1477
Operating weight		kg	260	275
Water connections				
Type of connections (evaporator)			Male gas threaded	Male gas threaded
Inlet/outlet diameter		Inch	1 ¼	1 ¼

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 23/18 °C, outdoor ambient temperature 35 °C. 2) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 3) According to EN 14825 standard. 4) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 5) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 6) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 7) According to EN 14825 standard - low temperature application (35 °C). 8) According to EN 14825 standard - medium temperature application (55 °C). 9) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 10) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

Accessories and options
Buffer tank placed under unit
Chassis acoustic insulation

Accessories and options
Coils treatments

Accessories supplied loose	
P-373705	Water temperature sensor for second set-point zone
P-347941	Remote ON / OFF control
P-364735	Remote keyboard panel
P-362577	Flow switch
P-473465	Pressure switch

Accessories supplied loose	
P-362384	Valves in – out
P-348144	3 way valve for DHW production – ON / OFF – DN 20
P-375890	3 way valve for second set-point zone – 0-10 V – DN 25
P-375891	3 way valve for second set-point zone – 0-10 V – DN 32

ErP ✔ | HIGH SEER 3,98 | HIGH SCOP 3,75 | INVERTER | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL INVERTER COMPRESSOR | DHW

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

ECOi-W AQUA-G BLUE 50-80 H · R290

Air cooled heat pumps.

Cooling capacity: 48,2 to 74,1 kW.
Heating capacity: 49,2 to 83,6 kW.

R290 NATURAL REFRIGERANT

The range at a glance

- 1 version: H (heat pump)
- 4 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

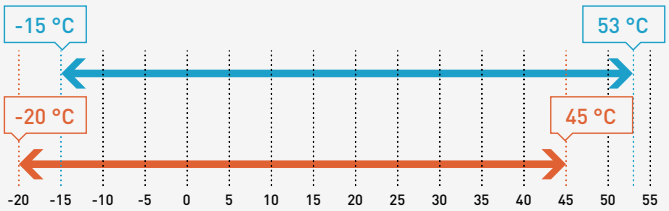
Advantages

- Natural refrigerant R290
- Very high performance and improved energy efficiencies
- Smart energy consumption
- Expanded operating limit
- Domestic Hot Water management
- Compact chassis
- Very quiet operation
- Cascade controller available for multi system operation
- SG Ready
- Very low refrigerant charge
- Reliable safety measurements

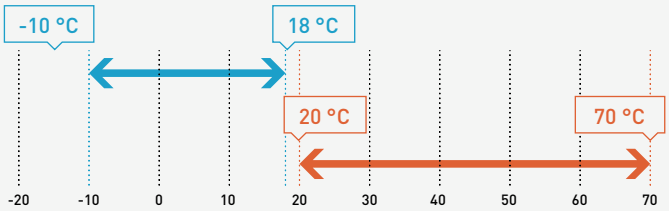
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature.



Leaving water temperature.



Equipment

- Fan speed control. All units are equipped with EC fan technology
- Variable speed pump - option. A variable speed pump can be added to the unit for even greater energy savings
- Controller. This new high standard control system provides excellent pressure control, as well as global and optimised unit management
- Removable panels. Great accessibility to internal components for service operations
- Condenser. Highly optimised heat exchanger design enables a refrigerant charge reduction. Lower than 5,0 kg of R290 for the sizes 50 and 60
- Electronic expansion valve. This reliable and high-performant valve minimises overheating of the evaporator. It is directly managed by the control system
- Modbus RTU, Modbus TCP/IP, BACnet MSTP or BACnet IP
- Leak detector and safety ventilation fans to detect R290 leakages and exhaust refrigerant to atmosphere in the event of a leak
- DHW function available on the controller with DHW probe and 3 way valve available as options

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Power supply	Voltage	V	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Size			**50**	**60**	**70**	**80**
ECOi-W AQUA-G BLUE 50-80 H EC fan - heat pump			**P-AQAG0050HA**	**P-AQAG0060HA**	**P-AQAG0070HA**	**P-AQAG0080HA**
Cooling capacity [1]		kW	48,2	56,1	64,9	74,1
Input power [1]		kW	15,0	19,0	21,6	25,0
EER [1]			3,20	3,00	3,00	3,00
SEER [2]			**4,37**	**4,30**	**4,31**	**4,21**
$\eta_{s,c}$ [2]		**%**	**171,9**	**168,9**	**169,4**	**165,4**
Heating capacity [3]		kW	49,2	61,1	73,5	83,6
Input power [3]		kW	15,6	18,6	21,7	24,9
COP [3]			3,2	3,3	3,4	3,4
SCOP [4]			**3,67**	**3,75**	**3,87**	**3,84**
$\eta_{s,h}$ [4]			**143,7**	**146,8**	**151,8**	**150,5**
Energy efficiency class (SCOP) [4]		**A+++ to D**	**A+**	**A+**	**A++**	**A++**
$SCOP_{MT}$ [4]			**3,11**	**3,14**	**3,26**	**3,22**
$\eta_{s,hMT}$ [4]			**121,4**	**122,7**	**127,3**	**126,0**
Energy efficiency class ($SCOP_{MT}$) [4]		**A+++ to D**	**A+**	**A+**	**A++**	**A++**
Sound power (STD / S)		dB(A)	82,7 / 79,9	84,1 / 80,5	85,1 / 81,5	85,8 / 81,9
Sound pressure at 10 m (STD / S) [5]		dB(A)	51,0 / 48,2	52,3 / 48,7	53,3 / 49,7	54,0 / 50,1

Physical features

ECOi-W AQUA-G BLUE 50-80 H EC fan - heat pump			**50**	**60**	**70**	**80**
Dimension	Height	mm	1730	2011	2030	2030
	Length w/o / w water tank	mm	2215 / 2915 [6]	2180 / 2680	2180 / 2680	2180 / 2680
	Width	mm	1032	1160	1160	1160
Operating weight		kg	538	603	628	669
Refrigerant and compressors						
Number of refrigerant circuits			1	1	1	1
Refrigerant (R290)		kg	4,50	4,80	5,30	6,80
GWP [7]		CO_2 eq.	0,02	0,02	0,02	0,02
Compressors	Number / type		2 / Scroll	2 / Scroll	2 / Scroll	2 / Scroll
Capacity steps		%	50 / 100	40 / 60 / 100	40 / 60 / 100	50 / 100
Water connections						
Type of connections			Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
Inlet/outlet diameter		Inch	1 ¼	2	2	2 ½
Buffer tank (option)						
Volume		l	200	300	300	300

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and following COMMISSION REGULATION (EU) 2016/2281.
3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and following COMMISSION REGULATION (EU) No 813/2013. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 6) Tank is external to the unit chassis. 7) Based on the Sixth Assessment Report (AR6) adopted by the Intergovernmental Panel on Climate Change (IPCC).
*w/o: without, w: with.

Accessories and options
Anti-vibration rubber mount / spring dampers
Refrigerant gauges HP/LP
Shut off valves
Soft starter

Accessories and options
Electric heater for the water tank
Variable or fixed speed pumps
Water tank 200 L for sizes 50
Water tank 300 L for sizes 60-70-80

Accessories supplied loose	
P-375281	SRC – mini BMS controller
P-586595_G	Cascade controller
P-372061_G	Remote keyboard panel
P-372615_G	Kit 4G modem
SVC-HYD-COMM-CLD1	1-year pre-paid Cloud access

Accessories supplied loose	
SVC-HYD-COMM-CLD3	3-year pre-paid Cloud access
P-3721027	3 way valve and probe for DHW management for size 50
P-3721028	3 way valve and probe for DHW management for sizes 60-80
P-3721050	Kit temperature probe for deported tank

R290 REFRIGERANT | HIGH SEER 4,33 | HIGH SCOP 3,54 | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL COMPRESSOR | COMMERCIAL SMART EDGE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

NEW! ECOi-W AQUA-G EVO 60-110 H · R290

Air cooled heat pumps Inverter.

Cooling capacity: 56,7 to 91,0 kW.
Heating capacity: 61,2 to 101,9 kW.

R290 NATURAL REFRIGERANT

NEW

The range at a glance

- 1 version: H (heat pump)
- 3 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

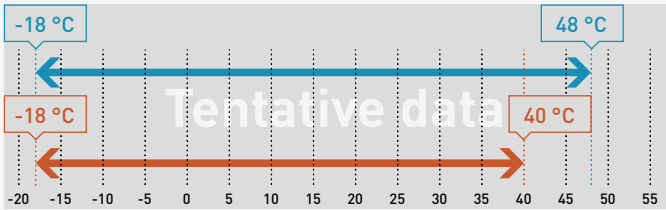
Advantages

- Natural refrigerant R290
- Inverter driven compressor
- Very high performance
- Improved heating capacity at low ambient temperature
- Expanded operating limit
- Domestic Hot Water management
- Compact chassis
- Very quiet operation
- Modular configuration with integrated main/sub logic
- Ultra-compact design allows multiple units to be installed side by side with minimal spacing.
- SG Ready
- Reliable safety measurements
- Suitable for boiler replacement with DT 12 °C in heating

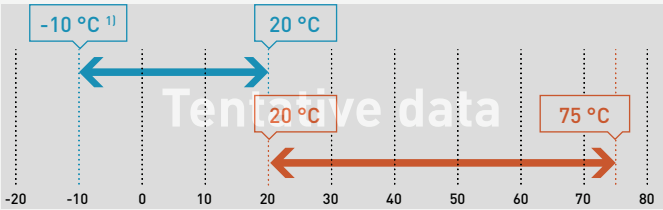
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature.



Leaving water temperature.



1) With glycol, 5 °C without glycol.

Equipment

- Fan speed control. All units are equipped with EC fan technology and flow grid to reduce Sound power
- Electronic expansion valve. This reliable and high-performant valve minimises overheating of the evaporator. It is directly managed by the control system
- Compressor: 1 inverter compressor for size 60 and tandem compressor (fixed + Inverter) for sizes 80-110
- Compressor box providing both protection and noise reduction
- Automatic circuit breakers
- Integrated HMI to manage unit operation
- An advanced built-in controller enabling fully autonomous operation
- Communication protocol: Modbus RTU, Modbus TCP/IP
- Highly optimised finned tube Al/Cu heat exchanger with Bluefin treatment
- Condensate drain pan to collect and direct the condensate away from the unit
- Antifreeze electric heater on the plate heat exchanger
- Pressure relief valve
- Differential pressure switch on the plate heat exchanger from water side
- Water expansion vessel (only with pump and/or tank)
- Leak detector and safety ventilation fans to detect R290 leakages and exhaust refrigerant to atmosphere in the event of a leak
- DHW function available on the controller with DHW probe and 3 way valve available as options
- Removable panels. Great accessibility to internal components for service operations
- Multiple lifting point (lateral, frontal and upper side) for an easy handling of the unit

Technical performance

Power supply	Voltage	V	400	400	400
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Size			**60**	**80**	**110**
ECOi-W AQUA-G EVO 60-110 H - heat pump			**P-AQAVG0060CA**	**P-AQAVG0080CA**	**P-AQAVG0110CA**
Cooling capacity [1]		kW	56,7	67,4	91,0
Input power [1]		kW	18,9	22,6	33,9
Total EER [1]			3,00	2,98	2,68
Total EER (A 35 °C, W 23/18 °C)			2,48	3,68	3,29
SEER [2]			**4,07**	**4,84**	**4,77**
$\eta_{s,c}$ [2]		**%**	**160,0**	**190,5**	**187,2**
Heating capacity [3]		kW	61,2	80,8	101,9
Input power [3]		kW	17,6	22,3	29,7
Total COP [3]			3,48	3,62	3,43
Heating capacity (A 7 °C, W 30/35 °C)		kW	62,7	83,2	104,8
Input power (A 7 °C, W 30/35 °C)		kW	14,9	18,7	25,4
COP (A 7 °C, W 30/35 °C)			4,21	4,45	4,13
SCOP [4]			**4,32**	**4,13**	**4,49**
$\eta_{s,h}$ [4]		**%**	**169,6**	**162,0**	**176,5**
SCOP [5]			**3,72**	**3,56**	**3,87**
$\eta_{s,h}$ [5]		**%**	**145,9**	**139,4**	**151,7**
SCOP [6]			**3,41**	**3,25**	**3,55**
$\eta_{s,h}$ [6]		**%**	**133,3**	**127,1**	**138,8**
SCOP [7]			**3,00**	**2,88**	**3,15**
$\eta_{s,h}$ [7]		**%**	**118,1**	**112,2**	**123,1**
Energy efficiency class (SCOP) [4]		**A+++ to D**	**A++**	**A++**	**A++**
Sound power (STD)		dB(A)	79,0	80,0	81,0
Sound pressure at 10 m (STD) [8]		dB(A)	47,2	48,0	49,0

Tentative data

Physical features

ECOi-W AQUA-G EVO 60-110 H - heat pump			**60**	**80**	**110**
Dimension	Height x Width	mm	1998 x 1116	1998 x 1116	1998 x 1116
	Length w/o / w water tank	mm	2385	3385	3385
Operating weight (STD)		kg	572	906	950
Refrigerant and compressors					
Number of refrigerant circuit			1	1	1
Compressor	Number / type		1 / Scroll	2/ Scroll	2 / Scroll
Capacity steps		%	25-100	25-100	25-100
Water connections					
Type of connections			Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	2	2 ½	2 ½
Buffer tank (option)					
Volume		l	Not available	230	230

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and following COMMISSION REGULATION (EU) 2016/2281. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and following COMMISSION REGULATION (EU) No 813/2013. 4) According EN 14825 and following COMMISSION REGULATION (EU) No 813/2013: low temperature application. 5) According EN 14825 and following COMMISSION REGULATION (EU) No 813/2013: intermediate temperature application. 6) According EN 14825 and following COMMISSION REGULATION (EU) No 813/2013: medium temperature application. 7) According EN 14825 and following COMMISSION REGULATION (EU) No 813/2013: high temperature application. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 8) Sound pressures refer to ISO 3744 standard, parallelepiped shape.
*w/o: without, w: with.

Accessories and options
Dual pressure safety valve with changeover device
Epoxy or blygold treatment
Chiller protection grids
Anti-vibration rubber mount / spring dampers
Compressor jacket (super low noise version)

Accessories and options
Pump acoustic box (super low noise version)
Power factor corrector capacitor (for sizes 80-110)
Variable pump
Water pressure switch
Shut off valve

Accessories and options
Water tank (for sizes 80-110)
Hydro connection pipes
Energy meter
Flow meter
BACnet MSTP or BACnet IP

Tentative data

Accessories supplied loose
Water filter
Kit remote control
Kit 4G modem
1-year pre-paid Cloud access
3-year pre-paid Cloud access
Flow switch

Accessories supplied loose
Separator refrigerant/water
Manifold 3" for modular configuration standard (60 cm distance)
Manifold 3" for modular configuration ultra-compact (5 cm distance)
Manifold 4" for modular configuration standard (60 cm distance)
Manifold 4" for modular configuration ultra-compact (5 cm distance)
DHW kit including a water temperature probe, a 230 V motorised 3 way valve

Tentative data

R290 REFRIGERANT | ErP | HIGH SEER 5,19 | HIGH SCOP 4,59 | INVERTER | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL INVERTER COMPRESSOR | DHW | COMMERCIAL SMART EDGE

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

ECOi-W AQUA 20-40 C/H/E · R410A

Air cooled chillers, heat pumps and condensing units.

Cooling capacity: 19,3 to 40,9 kW.
Heating capacity: 19,5 to 41,6 kW.

The range at a glance

- 3 versions: C (chiller), H (heat pump) and E (condensing unit)
- SEER up to 4,59
- SCOP up to 3,40
- 5 sizes (4 sizes for E type)
- 2 configurations: STD (standard) and HPF (high pressure fan)

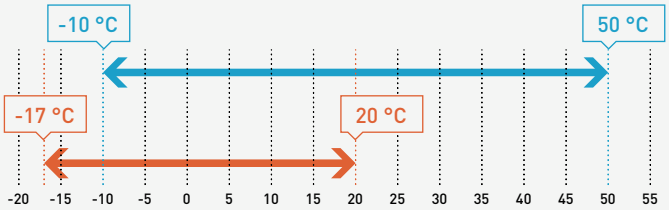
Advantages

- Very high performance
- Low noise units
- Wide operating limits
- Easy maintenance: great accessibility to the internal components
- Low footprint
- Smart defrost technology: 1 defrost every 130 minutes for a constant LWT even at very low OAT (H type)
- Optimised for partial load operation
- 100% factory tested

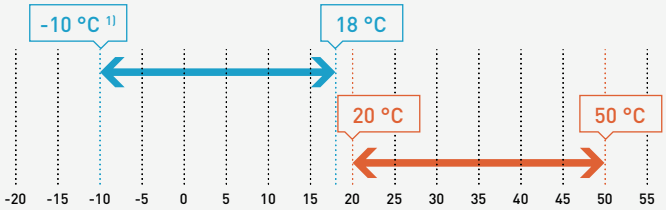
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature (chiller, heat pump and condensing unit).



Leaving water temperature (chiller and heat pump).



1) With glycol, 5 °C without glycol.

Equipment

- 1 refrigerant circuit with tandem scroll compressors for a higher efficiency at partial load
- Stainless steel plate heat exchanger insulated with closed cell synthetic foam (C/H types)
- Finned coil condenser constructed with seamless copper tubes mechanically expanded into aluminium fins - Bluefin treatment for H type
- Hydraulic circuit without pump (C type) / without or with a fixed speed pump (H type)
- Super low noise units: acoustic box around the compressors
- Complete integrated control system with an external control panel that displays operating parameters and alarms
- Modbus RTU communication protocol as standard
- Night mode for energy savings and reduced sound levels
- Double water set point (H type)
- Water compensation curve control (C/H types)
- Return and leaving water temperature control (C/H types)
- Water filter and water flow switch (C/H types)
- Phase sequence monitor
- Suction and liquid line shut-off valves + a suction receiver (E type)

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Power supply	Voltage	V	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50
Size			**20**	**25**	**30**	**35**	**40**
ECOi-W AQUA 20-40 C - chiller			**P-AQAE0020CA**	**P-AQAE0025CA**	**P-AQAE0030CA**	**P-AQAE0035CA**	**P-AQAE0040CA**
Cooling capacity [1]		kW	19,2	24,3	27,1	36,7	39,0
Input power [1]		kW	5,9	7,7	9,3	12,2	13,0
EER [1]			3,25	3,17	2,9	3,01	3,0
SEER [2] [3]			**4,78**	**4,38**	**4,43**	**4,43**	**4,48**
$\eta_{s,c}$ [2] [3]			**188**	**172**	**174**	**174**	**176**
Nominal water flow (in the evaporator)		m³/h	3,3	4,2	4,7	6,3	6,7
Sound power (STD fan)		dB(A)	75	76	76	77	77
Sound pressure at 10 m (STD fan) [4]		dB(A)	42,8	43,8	43,8	44,8	44,8
ECOi-W AQUA 20-40 H - heat pump			**P-AQAE0020HA**	**P-AQAE0025HA**	**P-AQAE0030HA**	**P-AQAE0035HA**	**P-AQAE0040HA**
Cooling capacity [1]		kW	18,7	23,7	26,4	35,8	38,1
Input power [1]		kW	5,9	7,7	9,4	12,3	13,1
EER [1]			3,15	3,07	2,81	2,92	2,92
SEER [2]			**4,68**	**4,31**	**4,28**	**4,25**	**4,33**
$\eta_{s,c}$ [2]			**184**	**169**	**168**	**167**	**170**
Nominal water flow (in the evaporator)		m³/h	3,3	4,3	4,6	6,2	6,4
Heating capacity [5]		kW	19,5	26,9	29,7	37,3	41,6
Input power [5]		kW	6,1	9,3	9,9	13,2	13,5
COP [5]			3,19	2,90	2,99	2,82	3,08
COP [6]			4,17	4,10	4,10	4,11	3,86
SCOP [2] [7]			**3,50**	**3,38**	**3,45**	**3,50**	**3,50**
Energy efficiency class [2] [7]		**A+++ to D**	**A+**	**A+**	**A+**	**A+**	**A+**
$\eta_{s,h}$ [2] [7]			**137**	**132**	**135**	**137**	**137**
Nominal water flow (in the evaporator)		m³/h	3,4	4,7	5,2	6,5	7,2
Sound power (STD fan)		dB(A)	75	76	76	77	77
Sound pressure at 10 m (STD fan) [4]		dB(A)	42,8	43,8	43,8	44,8	44,8
ECOi-W AQUA 25-40 E - condensing unit			**—**	**P-AQAE0025EA**	**P-AQAE0030EA**	**P-AQAE0035EA**	**P-AQAE0040EA**
Cooling capacity [8]		kW	—	32,4	33,7	43,1	44,8
Input power [8]		kW	—	10,0	10,7	14,9	15,0
EER [8]			—	3,24	3,15	2,90	2,99
Sound power		dB(A)	—	75	75	76	76

Physical features

ECOi-W AQUA 20-40 C/H - chiller / heat pump			**20**	**25**	**30**	**35**	**40**
Dimension	Height (STD / HPF)	mm	1983 / 2025	1983 / 2025	1983 / 2025	1983 / 2025	1983 / 2025
	Width w/o / w water tank	mm	1000 / 1507	1000 / 1507	1000 / 1507	1000 / 1507	1000 / 1507
	Length	mm	1000	1000	1000	1000	1000
Operating weight without / with water tank - 1 pump		kg	285 / 450	295 / 460	325 / 490	335 / 500	335 / 500
Water connections							
Type of connections (evaporator)			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet/outlet diameter		Inch	1 ½	1 ½	1 ½	1 ½	1 ½
ECOi-W AQUA 25-40 E - condensing unit			**—**	**25**	**30**	**35**	**40**
Dimension	H x W x L	mm	—	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000
Operating weight		kg	—	260	270	280	280
Refrigerant connections							
Liquid / suction line		Inch	— / —	⅝ / 1 ⅛	⅝ / 1 ⅛	⅝ / 1 ⅛	⅝ / 1 ⅛

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 5) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 6) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 7) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 8) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN 14511-2013 standard.
*w/o: without, w: with.

Accessories and options
Anti-vibration rubber mount / spring dampers
BACnet IP or BACnet MSTP
Fan speed control
Finned coil blygold treatment (upon request) or epoxy
High pressure fan (HPF)

Accessories and options
Modbus TCP/IP
Outdoor coil protection grid
Nordic pack (H type only)
Shut off valves
Soft starter

Accessories and options
Variable or fixed* speed pumps
Water pressure switch
Water tank 100 L
Without neutral (upon request)

*Not available with ECOi-W AQUA C and ECOi-W AQUA H 20-30 due to Ecodesign compliance.

Accessories supplied loose	
P-375281	SRC – mini BMS controller
P-372061	Remote keyboard panel
P-372615	Kit 4G modem

Accessories supplied loose	
SVC-HYD-COMM-CLD1	1-year pre-paid Cloud access
SVC-HYD-COMM-CLD3	3-year pre-paid Cloud access
P-378016	Kit anti-vibration mount rubber

ErP | HIGH SEER 4,59 | HIGH SCOP 3,40 | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL COMPRESSOR | SUPER QUIET | VERY HIGH PERFORMANCE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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ECOi-W AQUA-Z EVO 40-50 H · R32

Air cooled heat pumps Inverter.

Cooling capacity: 41 to 48 kW.
Heating capacity: 42 to 49 kW.

R32
REFRIGERANT

The range at a glance

- 1 version: H (heat pump)
- 2 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

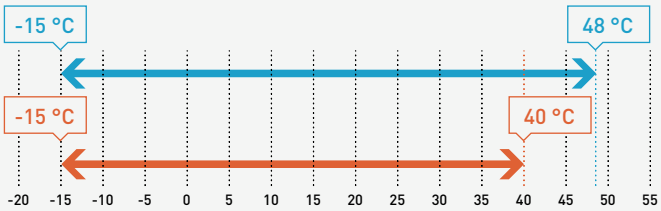
Advantages

- Low GWP R32 refrigerant (GWP= 675)
- Inverter driven compressor
- Very high performance (SEER up to 5,65, SCOP up to 4,52)
- Low energy consumption
- Expanded operating limit (LWT 58 °C with OAT 40 °C)
- Compact chassis
- Very quiet operation
- Cascade configuration through MAIN/SUB management: up to 8 units
- SG Ready
- Very low refrigerant charge
- Removable panels for great accessibility to internal components

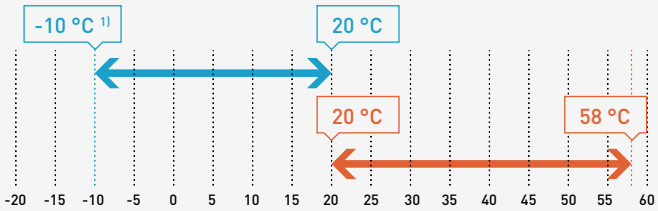
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature.



Leaving water temperature.



Operating limits at nominal speed.
1) Below 5 °C, glycol is required.

Equipment

- 1 refrigerant circuit with Inverter scroll compressors for a higher efficiency at partial load
- EC fan
- Stainless steel plate heat exchanger insulated with closed cell synthetic foam
- Finned coil condenser constructed with seamless copper tubes mechanically expanded into aluminium fins - Bluefin treatment
- Hydraulic circuit without pump
- Complete integrated control system with an external control panel that displays the operating parameters and alarms
- Modbus RTU, Modbus TCP/IP
- Reduced mode for energy savings and low sound levels
- Electronic expansion valve
- Return or leaving water temperature control
- External switch (cooling/heating, ON / OFF, reduced mode)
- Water filter and differential pressure switch
- Phase sequence monitor
- Without neutral
- DHW function available on the controller with DHW probe and 3 way valve available as options

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Power supply	Voltage	V	400	400
	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Size			**40**	**50**
ECOi-W AQUA-Z EVO 40-50 H EC fan - heat pump			**P-AQAVZ0040HA**	**P-AQAVZ0050HA**
Cooling capacity [1]		kW	41,0	48,2
Input power [1]		kW	12,8	15,1
EER [1]			3,20	3,19
SEER [2]			**5,59**	**5,65**
$\eta_{s,c}$ [2]		**%**	**221**	**223**
Heating capacity [3]		kW	41,5	48,5
Input power [3]		kW	13,4	16,2
COP [3]			3,10	2,99
SCOP [4]			**4,22**	**4,52**
$\eta_{s,h}$ [4]			**166**	**178**
Energy efficiency class (SCOP) [4]		**A+++ to D**	**A+++**	**A+++**
Sound power (STD / S)		dB(A)	79,5 / 78,5	80,5 / 79,5
Sound pressure at 10 m (STD / S) [5]		dB(A)	47,8 / 46,8	48,8 / 47,8

Physical features

ECOi-W AQUA-Z EVO 40-50 H EC fan - heat pump			**40**	**50**
Dimension	Height	mm	1732	1732
	Length w/o / w water tank	mm	2209 / 2913 [6]	2209 / 2913 [6]
	Width	mm	1100	1100
Operating weight		kg	348	368
Refrigerant and compressors				
Number of refrigerant circuits			1	1
Refrigerant (R32)		kg	5	6
GWP [7]		CO_2 eq.	675	675
Compressors	Number / type		1 / Scroll Inverter	1 / Scroll Inverter
Capacity steps		%	0-100	0-100
Water connections				
Type of connections			Male gas threaded	Male gas threaded
Inlet/outlet diameter		Inch	1 ¼	1 ¼
Buffer tank (option)				
Volume		l	200	200

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and following COMMISSION REGULATION (EU) 2016/2281. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and following COMMISSION REGULATION (EU) No 813/2013: low temperature application. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 6) Tank is external to the unit chassis. 7) Based on the Sixth Assessment Report (AR6) adopted by the Intergovernmental Panel on Climate Change (IPCC).
*w/o: without, w: with.

Accessories and options
BACnet MSTP or BACnet IP
Energy meter for power input
Coil guards
Compressor jackets
Variable speed pumps
Water filter
Water flow switch

Accessories and options
Water tank
Fin&Tube Al/Cu with epoxy
Anti-vibration mount rubber
Anti-vibration spring
Kit water flow switch
Water pressure switch
Shut off valves

Accessories supplied loose	
P-364735	Kit remote control

Accessories supplied loose	
P-3721027	Kit DHW

ErP | HIGH SEER 5,65 | HIGH SCOP 4,52 | INVERTER | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL INVERTER COMPRESSOR | DHW | PS COMMERCIAL SMART EDGE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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ECOi-W AQUA-Z 50-170 C/H · R32

Air cooled chillers and heat pumps.

Cooling capacity: 51,6 to 173,0 kW.
Heating capacity: 51,7 to 180,0 kW.

R32
REFRIGERANT

The range at a glance

- 2 versions: C (chiller) and H (heat pump)
- 10 sizes
- SEER up to 4,88 (STD AC) / 5,31 (STD EC)
- SCOP up to 3,72 (STD AC) / 4,10 (STD EC)
- 2 configurations: STD (standard) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (high-efficiency fan)
- 2 acoustic options: STD (standard) and S (super low noise)

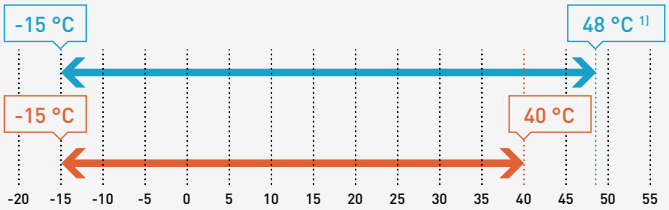
Advantages

- Low GWP R32 refrigerant (GWP= 675)
- Very high-efficiency
- Wide operating limits
- Low footprint: one of the smallest footprint on the market with only 2,53 m² for sizes 50-130 and 4,36 m² for sizes 150-170
- Reduced sound levels: S version (super low noise) with EC fan and compressor sound jackets
- New advanced control system
- Easy maintenance: great accessibility to the internal components
- Cascade controller available for multi system operation
- SG Ready
- 100% factory tested

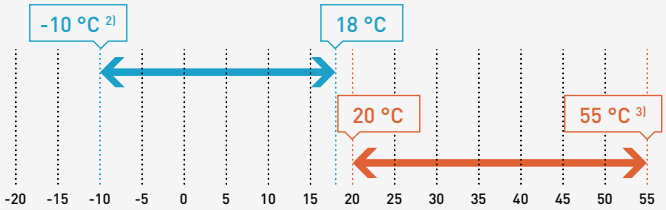
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature.



Leaving water temperature.



1) 47 °C for sizes 150-170.
2) With glycol, 5 °C without glycol.
3) 53 °C for sizes 150-170.

Equipment

- 1 refrigerant circuit with tandem scroll compressors for a higher efficiency at partial load
- Stainless steel plate heat exchanger insulated with closed cell synthetic foam
- Finned coil condenser constructed with seamless copper tubes mechanically expanded into aluminium fins - Bluefin treatment for H type
- Hydraulic circuit without pump
- Complete integrated control system with an external control panel that displays the operating parameters and alarms
- Modbus RTU, Modbus TCP/IP, BACnet MSTP or BACnet IP
- Night mode for energy savings and reduced sound levels
- Electronic expansion valve
- Water compensation curve control
- Return and leaving water temperature control
- External switch (cooling/heating, night mode, load shedding)
- Water filter and water flow switch
- Phase sequence monitor
- Without neutral

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
Size			**50**	**60**	**70**	**75**	**85**	**100**	**115**	**130**	**150**	**170**
ECOi-W AQUA-Z 50-170 C - chiller		**P-AQAZ****CA**	**0050**	**0060**	**0070**	**0075**	**0085**	**0100**	**0115**	**0130**	**0150**	**0170**
Cooling capacity [1]		kW	51,6	57,6	69,7	78,2	82,8	100	116	126	154	173
Input power [1]		kW	16,5	19,6	22,4	24	26,8	31,4	37,4	42,3	47,4	55,7
EER (STD AC / STD EC) *[1]			3,13/3,25	2,94/3,03	3,11/3,29	3,26/3,41	3,09/3,23	3,18/3,30	3,10/3,20	2,98/3,07	3,25/3,38	3,11/3,20
SEER (STD AC / STD EC) *[2] [3]			**4,60/5,05**	**4,59/5,02**	**4,61/5,31**	**4,72/5,29**	**4,45/4,96**	**4,88/5,19**	**4,59/5,01**	**4,43/4,71**	**4,70/5,22**	**4,68/5,16**
$\eta_{s,c}$ (STD AC / STD EC) *[2] [3]			**180,9 / 198,9**	**180,5 / 197,8**	**181,3 / 209,6**	**185,6 / 208,7**	**175,0 / 195,6**	**192,3 / 204,9**	**180,5 / 197,3**	**174,2 / 185,6**	**184,8 / 205,6**	**184,2 / 203,2**
Nominal water flow (in the evaporator)		m³/h	9,2	10,6	12,2	13,2	14,7	17,9	21,1	23,5	27,2	30,7
Sound power (STD AC / S) *		dB(A)	83 / 81	84 / 81	81 / 78	81 / 78	84 / 82	86 / 83	87 / 84	87 / 84	89 / 86	91 / 88
Sound pressure at 10 m (STD AC / S) *[4]		dB(A)	51 / 49	52 / 49	50 / 47	49 / 46	52 / 50	54 / 51	55 / 52	55 / 53	57 / 54	59 / 56
ECOi-W AQUA-Z 50-170 H - heat pump		**P-AQAZ****HA**	**0050**	**0060**	**0070**	**0075**	**0085**	**0100**	**0115**	**0130**	**0150**	**0170**
Cooling capacity [1]			51,1	57	69	77,4	82	99,3	115	125	152	170
Input power [1]			16,7	19,8	22,6	24,3	27,1	31,8	37,7	42,7	47,9	57,1
EER (STD AC / STD EC) *[1]			3,06/3,17	2,88/2,97	3,05/3,22	3,19/3,35	3,03/3,17	3,12/3,25	3,05/3,14	2,93/3,00	3,17/3,30	2,98/3,07
EER (STD AC / STD EC) *[5]			3,53/3,67	3,40/3,50	3,57/3,64	3,78/3,96	3,52/3,66	3,63/3,76	3,51/3,54	3,39/3,50	3,63/3,76	3,39/3,56
SEER (STD AC / STD EC) *[2]			**4,46/4,83**	**4,42/4,50**	**4,51/5,04**	**4,61/4,99**	**4,33/4,80**	**4,77/4,93**	**4,44/4,82**	**4,23/4,51**	**4,59/5,04**	**4,49/4,92**
$\eta_{s,c}$ (STD AC / STD EC) *[2]			**175,2 / 190,2**	**173,6 / 176,9**	**177,5 / 198,8**	**181,5 / 196,7**	**170,3 / 188,9**	**187,7 / 194,1**	**174,6 / 190,0**	**166 / 177,2**	**180,5 / 198,7**	**176,6 / 193,8**
Nominal water flow (in the evaporator)		m³/h	8,7	10,6	12,2	13,2	14,7	17,9	21,1	23,5	27,2	30,7
Heating capacity [6]		kW	51,7	59,7	71,8	78,5	86,5	107,6	122,3	137,5	159,1	180,1
Input power [6]		kW	17,1	19,9	22,9	25,0	28,0	33,6	38,2	42,4	49,8	56,2
COP (STD AC / STD EC) *[6]			3,01/3,27	2,99/3,21	3,13/3,43	3,13/3,19	3,08/3,30	3,20/3,45	3,20/3,42	3,24/3,42	3,19/3,48	3,20/3,40
COP (STD AC / STD EC) *[7]			3,81/4,00	3,80/3,92	3,92/4,21	3,91/4,16	3,92/4,16	3,99/4,19	4,10/4,26	4,04/4,12	4,07/4,31	4,02/4,16
SCOP (STD AC / STD EC) *[2] [8]			**3,53/3,90**	**3,54/3,94**	**3,47/3,71**	**3,65/3,80**	**3,60/4,02**	**3,64/4,10**	**3,66/4,02**	**3,72/3,97**	**3,57/4,04**	**3,60/3,95**
Energy efficiency class (STD AC / STD EC) *[2] [7]		**A+++ to D**	**A+ / A+**	**A+ / A+**	**A+ / A++**	**A+ / A++**	**A+ / A++**	**— / —**	**— / —**	**— / —**	**— / —**	**— / —**
$\eta_{s,h}$ (STD AC / STD EC) *[2] [7]			**138,0 / 152,8**	**138,5 / 154,5**	**135,6 / 145,3**	**143,2 / 148,8**	**141,2 / 157,8**	**142,5 / 160,9**	**143,2 / 157,9**	**145,7 / 155,9**	**139,9 / 158,4**	**140,9 / 155,2**
Nominal water flow (in the evaporator)		m³/h	9,3	10,7	12,5	13,9	15,0	18,3	21,5	23,9	27,5	31,7
Sound power (STD AC / S) *		dB(A)	83 / 81	84 / 81	81 / 78	81 / 78	84 / 82	86 / 83	87 / 84	87 / 84	89 / 86	91 / 88
Sound pressure at 10 m (STD AC / S) *[4]		dB(A)	51 / 49	52 / 49	50 / 47	50 / 46	52 / 50	54 / 51	55 / 52	56 / 53	57 / 54	59 / 56

Physical features

ECOi-W AQUA-Z 50-170 C/H - chiller / heat pump			**50**	**60**	**70**	**75**	**85**	**100**	**115**	**130**	**150**	**170**
Dimension	Height (STD / EC/HPF)	mm	1986/2034	1986/2034	1986/2034	1986/2034	2286/2334	2286/2334	2286/2334	2286/2334	2285/2333	2285/2333
	Width	mm	1160	1160	1160	1160	1160	1160	1160	1160	1151	1151
	Length without water tank	mm	2180	2180	2180	2180	2180	2180	2180	2180	3789	3789
Operating weight without water tank - 1 pump		kg	527	547	621	637	701	731	813	815	1265	1279
Water connections												
Type of connections (evaporator)			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet/outlet diameter		Inch	2	2	2	2	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½

1) According to EN 14511-2018: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 5) According to EN 14511-2018: chilled water inlet/outlet temperature: 23/18 °C, outdoor ambient temperature 35 °C DB.
6) According to EN 14511-2018: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 7) According to EN 14511-2018: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 8) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013.
*STD AC: standard version with AC fan, STD EC: standard version with high-efficiency EC fan, S: super low noise version with high-efficiency EC fan + compressor sound jackets.

Accessories and options
Anti-vibration rubber mount / spring dampers *
Compressor jackets (standard for S versions)
Desuperheater
Electric heater for the water tank
Fin&Tube Al/Cu with epoxy / Blygold treatment
High efficiency EC fan
High pressure fan (HPF)

Accessories and options
Outdoor coil protection grid
Power factor corrector capacitors
Refrigerant gauges HP/LP
Shut off valves
Soft starter
Variable speed pumps
Water pressure switch *

Accessories and options
Water tank 300 L
Without neutral
Communication protocols: Modbus RTU (Std.), Modbus TCP/IP, BACnet MSTP, BACnet IP

*Field-installed accessories. All other accessories are factory-installed.

Accessories supplied loose	
P-375281	SRC – mini BMS controller
P-586595	Cascade controller
P-372061	Remote keyboard panel

Accessories supplied loose	
P-372615	Kit 4G modem
SVC-HYD-COMM-CLD1	1-year pre-paid Cloud access
SVC-HYD-COMM-CLD3	3-year pre-paid Cloud access

R32 REFRIGERANT | ErP ✔ | HIGH SEER 5,22 | HIGH SCOP 4,10 | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL COMPRESSOR | SUPER QUIET | VERY HIGH PERFORMANCE | COMMERCIAL SMART EDGE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

ECOi-W AQUA-Z DC 150-380 C/H · R32

Air cooled chillers and heat pumps.

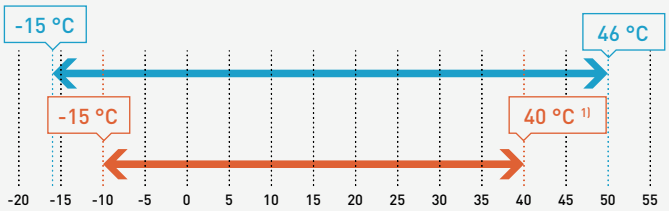
R32 REFRIGERANT

Cooling capacity: 151 to 377 kW (single unit). NEW! Up to 754 kW (twin units).
Heating capacity: 154 to 384 kW (single unit). NEW! Up to 768 kW (twin units).

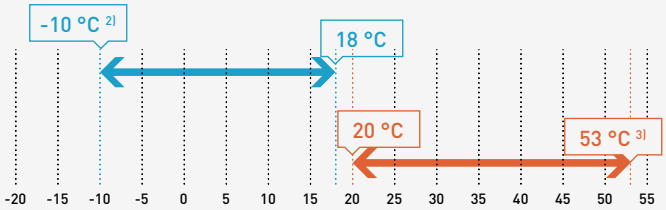
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature.



Leaving water temperature.



1) With EC fans. 2) With glycol, 5 °C without glycol. 3) 55 °C sizes 150-170.

The range at a glance

- 2 versions: C (chiller) and H (heat pump)
- **NEW!** Single and twin (back-to-back) configurations
- Single unit: 10 sizes for C version and 13 sizes for H version in 3 different chassis
- SEER up to 4,93 (STD AC) / 5,23 (STD EC)
- SCOP up to 3,90 (STD AC) / 4,00 (STD EC)
- 2 configurations: STD (standard) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (high-efficiency fan)
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- Low GWP R32 refrigerant (GWP= 675)
- Double circuit units able to work in partial load from around 20% of total capacity
- Very high-efficiency
- Wide operating limits
- Reduced sound levels: S version (super low noise) with EC fan and compressor sound jackets for sizes 150-380, additional compressor box for sizes 190-380
- Advanced control logic
- Easy maintenance: great accessibility to the internal components
- Cascade configuration available for multi system operation with capacity boost up to 3040 kW (for single unit)
- SG Ready
- 100% factory tested

Equipment for single units

- 2 refrigerant circuits with tandem scroll compressors for a higher efficiency at partial load
- Stainless steel plate heat exchanger insulated with closed cell synthetic foam
- Microchannel coils only for C version (sizes 190-380)
- Fin&Tube coil condenser constructed with seamless copper tubes mechanically expanded into aluminium fins - Bluefin treatment for H version
- Hydraulic circuit without pump
- Complete integrated control system with an external control panel that displays the operating parameters and alarms
- Modbus RTU, Modbus TCP/IP, BACnet MSTP or BACnet IP
- Digital input for Night Mode, Demand mode or Eco Mode for energy savings and reduced sound levels
- Electronic expansion valve
- Water compensation curve control
- Return and leaving water temperature control
- Water flow switch (sizes 150-170)
- Differential pressure switch (sizes 190-380)
- Phase sequence monitor
- Automatic circuit breaker
- Without neutral

NEW! Equipment for twin units

In addition to single units equipment:

- Mechanical, hydraulic (without pump), and control-wise connection, as a single chassis

Technical performance – Single units

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
Size			**150**	**170**	**190**	**210**	**230**	**260**	**290**	**320**	**350**	**380**
ECOi-W AQUA-Z DC 150-380 C - chiller	**P-AQADZ****CA**		**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**
Cooling capacity [1]		kW	151,0/ 151,0	170,0/ 170,0	189,0/ 189,0	212,0/ 214,0	229,0/ 229,0	260,0/ 260,0	307,0/ 307,0	326,0/ 325,0	346,0/ 347,0	377,0/ 377,0
Input power [1]		kW	49,7/ 49,0	56,7/ 55,9	59,4/ 57,3	69,1/ 66,5	75,1/ 72,7	90,0/ 87,8	95,9/ 92,5	104,2/ 100,0	112,0/ 108,1	126,9/ 122,8
EER [1]			3,04/3,08	3,00/3,04	3,18/3,30	3,07/3,22	3,05/3,15	2,89/2,96	3,20/3,32	3,13/3,25	3,09/3,21	3,00/3,10
SEER [2]			**4,93/5,20**	**4,90/5,15**	**4,68/5,23**	**4,62/5,20**	**4,48/4,90**	**4,40/4,79**	**4,63/5,13**	**4,33/5,12**	**4,43/4,79**	**4,35/4,80**
$\eta_{s,c}$ [2]		**%**	**194,0/ 204,0**	**192,8/ 203,0**	**184,3/ 206,1**	**181,8/ 204,8**	**176,3/ 192,9**	**173,1/ 188,4**	**182,0/ 202,2**	**170,0/ 188,8**	**174,2/ 188,5**	**171,0/ 188,8**
Cooling capacity (A 35 °C, W 23/18 °C)		kW	191,0/ 193,0	213,0/ 217,0	242,0/ 243,0	269,0/ 271,0	294,0/ 295,0	331,0/ 339,7	389,0/ 390,0	415,0/ 412,0	442,0/ 444,0	483,0/ 484,0
Input power (A 35 °C, W 23/18 °C)		kW	53,8/ 52,7	62,1/ 61,2	64,2/ 61,3	74,5/ 71,6	82,9/ 79,9	98,2/ 96,8	103,0/ 99,4	112,0/ 109,0	123,0/ 119,0	139,0/ 136,0
Water flow		m³/h	26,0/25,9	29,2/29,2	32,5/32,5	36,5/36,8	39,4/39,4	44,7/44,7	52,8/52,8	56,1/55,9	59,5/59,7	64,8/64,8
Sound power (STD) [5]		dB(A)	89,6/89,0	90,4/89,9	91,1/90,9	91,5/1,3	92,0/91,9	92,4/92,3	93,3/93,1	94,3/94,2	95,2/95,1	95,4/95,3
Sound pressure (STD)		dB(A)	57,5/56,9	58,3/57,8	59,0/58,8	59,4/59,2	59,9/59,8	60,3/60,2	61,1/60,9	62,1/62,0	63,0/62,9	63,2/63,1
Sound power (S) [5]		dB(A)	—/85,0	—/85,4	—/87,2	—/87,4	—/87,6	—/87,8	—/88,6	—/89,7	—/90,1	—/90,3
Sound pressure (S)		dB(A)	—/52,9	—/53,3	—/55,1	—/55,3	—/55,5	—/55,7	—/56,4	—/57,5	—/57,9	—/58,1

Size			**150**	**170**	**190**	**210**	**220**	**230**	**260**	**270**	**290**	**300**	**320**	**350**	**380**
ECOi-W AQUA-Z DC 150-380 H - heat pump	**P-AQADZ****HA**		**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD EC**	**STD AC/EC**	**STD AC/EC**	**STD EC**	**STD AC/EC**	**STD EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**
Cooling capacity [1]		kW	150,0/ 150,0	167,0/ 167,0	184,0/ 183,0	204,0/ 204,0	208,0	224,0/ 224,0	251,0/ 251,0	265,0	291,1/ 289,3	295,0	307,7/ 310,7	330,0/ 331,0	364,0/ 364,3
Input power [1]		kW	49,7/ 49,0	56,6/ 55,9	62,0/ 59,6	72,1/ 69,9	67,3	76,7/ 74,4	93,0/ 90,6	83,1	101,3/ 96,6	93,1	107,5/ 103,3	114,2/ 110,0	131,7/ 128,1
Total EER [1]			3,02/ 3,06	2,95/ 2,99	2,97/ 3,07	2,83/ 2,92	3,09	2,92/ 3,01	2,7/ 2,77	3,19	2,87/ 2,99	3,17	2,86/ 3,00	2,89/ 3,01	2,76/ 2,84
Total EER (A 35 °C, W 23/18 °C)			3,53/ 3,60	3,41/ 3,51	3,41/ 3,58	3,22/ 3,37	3,63	3,45/ 3,60	3,12/ 3,18	3,83	3,32/ 3,46	3,72	3,31/ 3,52	3,32/ 3,52	3,16/ 3,30
SEER [2]			**4,75/ 5,03**	**4,71/ 4,97**	**4,45/ 4,94**	**4,39/ 4,82**	**5,03**	**4,34/ 4,71**	**4,21/ 4,55**	**5,01**	**4,34/ 4,83**	**5,01**	**4,33/ 4,89**	**4,40/ 4,79**	**4,34/ 4,65**
$\eta_{s,c}$ [2]		**%**	**187,1 / 198,1**	**185,3 / 195,7**	**175,2 / 194,6**	**172,5 / 189,6**	**198,0**	**170,6 / 185,5**	**165,5 / 179,1**	**197,5**	**170,4 / 190,1**	**197,3**	**170,0 / 192,4**	**172,9 / 188,5**	**170,5 / 182,9**
Water flow		m³/h	25,8/ 25,8	28,7/ 28,7	31,6/ 31,5	35,1/ 35,1	35,8	38,5/ 38,5	43,2/ 43,2	45,6	50,1/ 49,8	50,7	52,9/ 53,4	56,8/ 56,9	62,6/ 62,7
Heating capacity [3]		kW	154,0/ 154,0	178,0/ 179,0	190,0/ 190,0	201,0/ 201,0	219,0	241,0/ 241,0	256,9/ 258,5	288,0	285,6/ 284,8	312,0	301,3/ 316,5	337,0/ 340,0	384,0/ 384,5
Input power [3]		kW	48,8/ 48,2	54,9/ 54,4	61,3/ 58,6	68,5/ 65,9	67,0	75,4/ 72,0	87,6/ 85,0	88,3	97,5/ 93,2	94,6	103,2/ 100,1	111,0/ 107,0	128/ 122,4
Total COP [3]			3,16/ 3,20	3,24/ 3,29	3,10/ 3,24	2,93/ 3,05	3,27	3,20/ 3,35	2,93/ 3,04	3,26	2,93/ 3,05	3,30	2,92/ 3,16	3,04/ 3,18	3,00/ 3,14
Total COP (A 7 °C, W 30/35 °C)			3,67/ 3,82	3,98/ 4,04	3,57/ 3,80	3,43/ 3,59	4,01	3,86/ 4,04	3,56/ 3,68	4,00	3,47/ 3,61	3,86	3,45/ 3,86	3,69/ 3,82	3,54/ 3,66
SCOP [4]			**3,83/ 4,00**	**3,90/ 4,00**	**3,46/ 3,89**	**3,44/ 3,90**	**3,86**	**3,64/ 3,99**	**3,52/ 3,85**	**3,82**	**3,51/ 3,91**	**3,92**	**3,50/ 3,85**	**3,50/ 3,87**	**3,66/ 3,95**
$\eta_{s,h}$ [4]		**%**	**150,0 / 157,1**	**152,8 / 156,8**	**135,6 / 152,7**	**134,7 / 152,8**	**151,3**	**142,5 / 156,4**	**137,9 / 151,0**	**149,7**	**137,4 / 153,2**	**153,7**	**137,0 / 151,2**	**136,9 / 151,9**	**143,4 / 155,1**
Water flow		m³/h	26,5/ 26,5	30,6/ 30,8	32,7/ 32,7	34,6/ 34,6	37,7	41,5/ 41,5	44,2/ 44,5	49,5	49,1/ 49,0	53,7	51,8/ 54,4	58,0/ 58,5	66,0/ 66,1
Sound power (STD) [5]		dB(A)	89,6/ 89,0	90,4/ 89,9	91,1/ 90,9	91,5/ 91,3	91,3	92,0/ 91,9	92,4/ 92,3	92,8	93,3/ 93,1	93,1	94,3/ 94,2	95,2/ 95,1	95,4/ 95,3
Sound pressure (STD)		dB(A)	57,5/ 56,9	58,3/ 57,8	59,0/ 58,8	59,4/ 59,2	59,2	59,9/ 59,8	60,3/ 60,2	60,7	61,1/ 60,9	60,9	62,1/ 62,0	63,0/ 62,9	63,2/ 63,1
Sound power (S) [5]		dB(A)	—/ 85,0	—/ 85,4	—/ 87,2	—/ 87,4	87,4	—/ 87,6	—/ 87,8	88,5	—/ 88,6	88,6	—/ 89,7	—/ 90,1	—/ 90,3
Sound pressure (S)		dB(A)	—/ 52,9	—/ 53,3	—/ 55,1	—/ 55,3	55,3	—/ 55,5	—/ 55,7	56,4	—/ 56,4	56,4	—/ 57,5	—/ 57,9	—/ 58,1

1) According to EN 14511-2018: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and Following COMMISSION REGULATION (EU) 2016/2281. 3) According to EN 14511-2018: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and Following COMMISSION REGULATION (EU) No 813/2013. 5) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard.

R32 REFRIGERANT | ErP | HIGH SEER 5,23 | HIGH SCOP 4,00 | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL COMPRESSOR | SUPER QUIET | VERY HIGH PERFORMANCE | COMMERCIAL SMART EDGE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Technical performance – NEW! Twin units

Power supply	Voltage	V	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Size			**420 (210+210)**	**460 (230+230)**	**520 (260+260)**	**580 (290+290)**	**640 (320+320)**	**700 (350+350)**	**760 (380+380)**
ECOi-W AQUA-Z DC 420-760 C - chiller	**P-AQADZ****CA**		**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**
Cooling capacity [1]	kW		424,0/428,0	458,0/458,0	520,0/520,0	614,0/614,0	652,0/650,0	692,0/694,0	754,0/754,0
Input power [1]	kW		138,2/133	150,2/145,4	180/175,6	191,8/185	208,4/200	224/216,2	253,8/245,6
EER [1]			3,07/3,22	3,05/3,15	2,89/2,96	3,20/3,32	3,13/3,25	3,09/3,21	3,0/3,1
SEER [2]			**4,62/5,20**	**4,48/4,90**	**4,40/4,79**	**4,63/5,13**	**4,33/5,12**	**4,43/4,79**	**4,35/4,8**
$\eta_{s,c}$ [2]	**%**		**181,8/204,8**	**176,3/192,9**	**173,1/188,4**	**182,0/202,2**	**170,0/188,8**	**174,2/188,5**	**171,0/188,8**
Cooling capacity (A 35 °C, W 23/18 °C)	kW		538/542	588/590	662/679	778/780	830/824	884/888	966/968
Input power (A 35 °C, W 23/18 °C)	kW		149/143	166/160	196/194	206/199	224/218	246/238	278/272
Water flow	m³/h		72,9/73,6	78,8/78,8	89,4/89,4	105,6/105,6	112,1/111,8	119/119,4	129,7/129,7
Sound power (STD) [5]	dB(A)		95,5/95,3	96/95,9	96,4/96,3	97,3/97,1	98,3/98,2	99,2/99,1	99,4/99,3
Sound pressure (STD)	dB(A)		63,4/63,2	63,9/63,8	64,3/64,2	65,1/64,9	66,1/66	67/66,9	67,2/67,1
Sound power (S) [5]	dB(A)		—/91,4	—/91,6	—/91,8	—/92,6	—/93,7	—/94,1	—/94,3
Sound pressure (S)	dB(A)		—/59,3	—/59,5	—/59,7	—/60,4	—/61,5	—/61,9	—/62,1

Size		**420 (210+210)**	**440 (220+220)**	**460 (230+230)**	**520 (260+260)**	**540 (270+270)**	**580 (290+290)**	**600 (300+300)**	**640 (320+320)**	**700 (350+350)**	**760 (380+380)**
ECOi-W AQUA-Z DC 420-7600 H - heat pump	**P-AQADZ****HA**	**STD AC/EC**	**STD EC**	**STD AC/EC**	**STD AC/EC**	**STD EC**	**STD AC/EC**	**STD EC**	**STD AC/EC**	**STD AC/EC**	**STD AC/EC**
Cooling capacity [1]	kW	408,0/408,0	416	448,0/448,0	502,0/502,0	530	582,2/578,6	590	615,4/617,8	660,0/662,0	728,0/728,6
Input power [1]	kW	144,2/139,8	134,6	153,4/148,8	185,9/181,2	166,1	202,5/193,3	186,1	215/206,7	228,4/219,9	263,5/256,3
Total EER [1]		2,83/2,92	3,09	2,92/3,01	2,7/2,77	3,19	2,87/2,99	3,17	2,86/3,00	2,89/3,01	2,76/2,84
Total EER (A 35 °C, W 23/18 °C)		3,22/3,37	3,63	3,45/3,60	3,12/3,18	3,83	3,32/3,46	3,72	3,31/3,52	3,32/3,52	3,16/3,30
SEER [2]		**4,39/4,82**	**5,03**	**4,34/4,71**	**4,21/4,55**	**5,01**	**4,34/4,83**	**5,01**	**4,33/4,89**	**4,40/4,79**	**4,34/4,65**
$\eta_{s,c}$ [2]	**%**	**172,5/189,6**	**198**	**170,6/185,5**	**165,5/179,1**	**197,5**	**170,4/190,1**	**197,3**	**170/192,4**	**172,9/188,5**	**170,5/182,9**
Water flow	m³/h	70,2/70,2	71,6	77,1/77,1	86,3/86,3	91,2	100,1/99,5	101,5	105,8/106,9	113,5/113,9	125,2/125,3
Heating capacity [3]	kW	402,0/402,0	438	482,0/482,0	513,8/517,0	576	571,2/569,6	624	602,6/612,2	674,0/680,0	768,0/769,0
Input power [3]	kW	137,0/131,8	134,0	150,5/144,0	195,2/170,0	176,6	195,0/186,4	189,2	204,4/200,2	222,0/214,0	256,0/244,8
Total COP [3]		2,93/3,05	3,27	3,20/3,35	2,93/3,04	3,26	2,93/3,05	3,30	2,92/3,16	3,04/3,18	3,00/3,14
Total COP (A 7 °C, W 30/35 °C)		3,43/3,59	4,01	3,86/4,04	3,56/3,68	4,00	3,47/3,61	3,86	3,45/3,86	3,69/3,82	3,54/3,66
SCOP [4]		**3,44/3,90**	**3,86**	**3,64/3,99**	**3,52/3,85**	**3,82**	**3,51/3,91**	**3,92**	**3,50/3,85**	**3,50/3,87**	**3,66/3,95**
$\eta_{s,h}$ [4]	**%**	**134,7/152,8**	**151,3**	**142,5/156,4**	**137,9/151**	**149,7**	**137,4/153,2**	**153,7**	**137/151,2**	**136,9/151,9**	**143,4/155,1**
Water flow	m³/h	69,1/69,1	75,3	82,9/82,9	88,4/88,9	99,1	98,2/98	107,3	103,6/108,9	115,9/117	132,1/132,3
Sound power (STD)	dB(A)	95,5/95,3	95,3	96/95,9	96,4/96,3	96,8	97,3/97,1	97,1	98,3/98,2	99,2/99,1	99,4/99,3
Sound pressure (STD) [5]	dB(A)	63,4/63,2	63,2	63,9/63,8	64,3/64,2	64,7	65,1/64,9	64,9	66,1/66	67/66,9	67,2/67,1
Sound power (S)	dB(A)	—/91,4	91,4	—/91,6	—/91,8	92,5	—/92,6	92,6	—/93,7	—/94,1	—/94,3
Sound pressure (S) [5]	dB(A)	—/59,3	59,3	—/59,5	—/59,7	60,4	—/60,4	60,4	—/61,5	—/61,9	—/62,1

1) According to EN 14511-2018: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825 and Following COMMISSION REGULATION (EU) 2016/2281.
3) According to EN 14511-2018: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14825 and Following COMMISSION REGULATION (EU) No 813/2013. 5) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard.

Physical features – Single units

ECOi-W AQUA-Z DC 150-380 C/H - chiller / heat pump			150	170	190	210	220	230	260	270	290	300	320	350	380
Dimension	Height (STD AC) / (EC/HPF)	mm	2240 / 2312	2240 / 2312	2250 / 2300	2250 / 2300	— / 2300	2250 / 2300	2250 / 2300	— / 2300	2250 / 2300	— / 2300	2250 / 2300	2250 / 2300	2250 / 2300
	Width	mm	1096	1096	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211
	Length	mm	3795	3795	2650	2650	2650	2650	2650	3775	3775	3775	3775	3775	3775

Physical features NEW! Twin units

ECOi-W AQUA-Z DC 420-760 C/H - chiller / heat pump			420 (210+ 210)	440 (220+ 220)	460 (230+ 230)	520 (260+ 260)	540 (270+ 270)	580 (290+ 290)	600 (300+ 300)	640 (320+ 320)	700 (350+ 350)	760 (380+ 380)
Dimension	Height (STD AC) / (EC/HPF)	mm	2250 / 2300	— / 2300	2250 / 2300	2250 / 2300	— / 2300	2250 / 2300	— / 2300	2250 / 2300	2250 / 2300	2250 / 2300
	Width	mm	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211
	Length	mm	5310	5310	5310	5310	7556	7556	7556	7556	7556	7556

Accessories and options
Anti-vibration rubber mount *
BACnet IP or BACnet MSTP
Desuperheater for sizes 190-380 (single unit)
Energy meter for power input
Fin&Tube Al/Cu with epoxy / Blygold treatment
High efficiency EC fan
High pressure fan (HPF)
Mechanical gauges kit (HP and LP manometers)
Coil guards for sizes 150-170 (single unit)
Chiller grilles and drain pan for sizes 190-380

Accessories and options
Power factor corrector capacitors
Shut off valves (single unit)*
Soft starter
Super low noise (S) version
Compressor jackets
Compressor box for sizes 190-380
Variable speed pumps
Water pressure switch
Water tank (single unit)

*Field-installed accessories. All other accessories are factory-installed.

Accessories supplied loose	
P-586595	Cascade controller (for single unit)
P-372061	Remote keyboard panel (for single unit)
P-364735	Remote keyboard panel (for twin units)
P-372615	Kit 4G modem
SVC-HYD-COMM-CLD1	1-year pre-paid Cloud access (for single unit)
SVC-HYD-COMM-CLD3	3-year pre-paid Cloud access (for single unit)
P-477042	Anti-vibration spring for sizes 150-170 (single unit)
P-477044	Anti-vibration spring for sizes 190-260 C version
P-477045	Anti-vibration spring for sizes 190-260 H version

Accessories supplied loose	
P-477047	Anti-vibration spring for sizes 270-380
P-477043	Anti-vibration spring with tank for sizes 150-170
P-477046	Anti-vibration spring with tank for sizes 190-260
P-477048	Anti-vibration spring with tank for sizes 290-380 C version
P-477049	Anti-vibration spring with tank for sizes 270-380 H version
P-348619	Water filter (for single unit)
P-348620	Water filter (for twin units)
tbd	Back to back connection kit (for twin units)

ECOi-W AQV C/H/E · R410A

Air cooled chillers, heat pumps and condensing units.

Cooling capacity: 83,3 to 136,6 kW.
Heating capacity: 91,8 to 146,9 kW.

The range at a glance

- 3 versions: C (chiller), H (heat pump) and E (condensing unit)
- 6 sizes
- 3 configurations: STD (standard), HT (high temperature) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (HSE model: high seasonal efficiency)
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- High seasonal performances: SEER up to 4,9
- Common configuration for the different versions: easy upgrade of the units in stock or on field
- Electronic expansion device: excellent control of superheating for the best performance at full and partial load and for a safe operation
- Microchannel coils: significant reduction on refrigerant charge and operating weight (C type)
- Compressor box: remarkable sound reduction even for the basic noise version
- Control platform: modular architecture, compressor envelope integration, corrective actions in border line areas, easy-friendly user interface

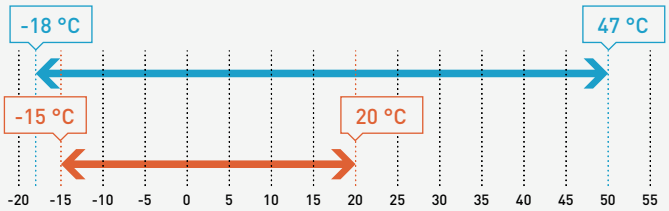
Equipment

- 2 refrigerant circuits
- 4 scroll compressors (tandem)
- Plate evaporator (AISI 316)
- Microprocessor control
- Low operating water content in the plant
- Electronic expansion valve as standard
- Brine version for process application
- Polar version for extreme conditions
- E-coating coil treatment as standard
- Compressor acoustic box
- Compressor jackets (standard on S)
- Phase sequence control
- Water flow switch

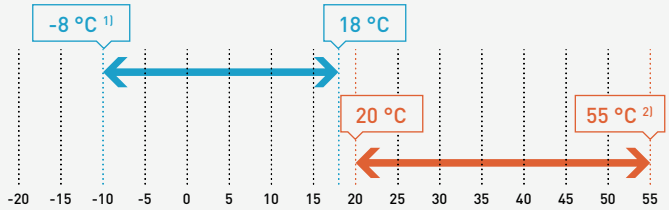
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature (chiller and heat pump).



Leaving water temperature (chiller and heat pump).



1) With glycol, 5 °C without glycol.
2) Leaving water temperature maximum 55 °C (external air temperature minimum 6 °C) to be confirm with AC SELECT selection software.

ECOi-W AQV 85-140 C/H - chiller / heat pump				
Cooling	Outdoor air temperature	S	°C	From -18 to 44
		HT	°C	From -18 to 50 (85-115)
				From -18 to 47 (125-140)
Heating	Outdoor air temperature	S	°C	From -4 to 20
		Polar Version	°C	From -15 to 20
External static pressure		STD / HPF	Pa	0 / <120
ECOi-W AQV 85-140 E - condensing unit				
Evaporating limit			°C	From 1 to 15
Outdoor air temperature		STD	°C	From 0 to 48
		S	°C	From -18 to 45
		HT	°C	From 0 to 50

Technical performance

Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			**85**	**95**	**105**	**115**	**125**	**140**
ECOi-W AQV 85-140 C - chiller			**P-AQVE0085CA**	**P-AQVE0095CA**	**P-AQVE0105CA**	**P-AQVE0115CA**	**P-AQVE0125CA**	**P-AQVE0140CA**
Cooling capacity [1]		kW	83,5	93,6	103,0	110,1	121,9	136,6
Input power [1]		kW	26,9	31,0	33,5	36,5	41,1	46,1
EER [1]			3,10	3,03	3,06	3,03	2,98	2,97
EER HSE [1]			3,19	3,10	3,13	3,09	3,05	3,04
SEER [2] [3]			**4,55**	**4,8**	**4,78**	**4,8**	**4,73**	**4,53**
$\eta_{s,c}$ [2] [3]			**179**	**189**	**188**	**189**	**186**	**178**
SEER HSE [2] [3]			**4,73**	**4,75**	**4,95**	**4,95**	**4,78**	**4,6**
$\eta_{s,c}$ HSE [2] [3]			**186**	**187**	**195**	**195**	**188**	**181**
Nominal water flow (in the evaporator)		m³/h	14,3	16,1	17,6	19,0	21,0	23,5
Sound power [4]		dB(A)	84	84	84	84	88	88
Sound pressure at 10 m [5]		dB(A)	52	52	52	52	56	56
Sound power HPF [4]		dB(A)	92	92	92	92	95	95
Sound pressure at 10 m HPF [5]		dB(A)	60	60	60	60	63	63
ECOi-W AQV 85-140 C S - chiller			**85**	**95**	**105**	**115**	**125**	**140**
Cooling capacity [1]		kW	80,6	90,2	98,6	106	119,1	133,1
Input power [1]		kW	28	32,6	35,5	38,6	41,1	46,5
EER [1]			2,87	2,76	2,77	2,73	2,90	2,86
EER HSE [1]			3,00	2,87	2,87	2,81	2,96	2,91
SEER [2] [3]			**4,75**	**4,78**	**4,98**	**5,0**	**4,8**	**4,6**
$\eta_{s,c}$ [2] [3]			**187**	**188**	**196**	**197**	**189**	**181**
SEER HSE [2] [3]			**4,8**	**4,75**	**4,88**	**4,88**	**4,9**	**4,7**
$\eta_{s,c}$ HSE [2] [3]			**189**	**187**	**192**	**192**	**193**	**185**
Nominal water flow (in the evaporator)		m³/h	13,9	15,5	16,9	18,2	20,5	22,9
Sound power [4]		dB(A)	82	82	82	82	86	86
Sound pressure at 10 m [5]		dB(A)	50	50	50	50	54	54
ECOi-W AQV 85-140 C HT - chiller			**85**	**95**	**105**	**115**	**125**	**140**
Cooling capacity [1]		kW	86,2	96,9	107	115	124	139
Input power [1]		kW	28,1	31,6	33,9	36,4	41,1	46
EER [1]			3,07	3,06	3,15	3,16	3,03	3,03
SEER [2] [3]			**4,73**	**4,75**	**4,95**	**4,95**	**4,78**	**4,6**
$\eta_{s,c}$ [2] [3]			**186**	**187**	**195**	**195**	**188**	**181**
Nominal water flow (in the evaporator)		m³/h	14,8	16,6	18,3	19,8	21,4	24,0
Sound power [4]		dB(A)	95	95	95	95	95	95
Sound pressure at 10 m [5]		dB(A)	63	63	63	63	63	63

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 3) According to EN 14825. 4) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

Accessories and options
Anti-vibration spring dampers
Automatic circuit breaker
Coils treatments
Desuperheater
Fan speed control
Hydrokit with 1 or 2 pumps with or without buffer tank
Mechanical gauges

Accessories and options
Overload protection for compressors
Power factor corrector capacitors
Several communication protocols
Soft starter
Unit protection grilles
Water differential pressure

Accessories supplied loose	
P-376463	Sequencer for up to 4 chillers installation
P-347941	Remote ON / OFF
P-364735	Remote keyboard panel
P-348000	Coil guards for sizes 85-115
P-348001	Coil guards for sizes 125-140

Accessories supplied loose	
P-347999	Chiller grilles for sizes 85-115
P-347998	Chiller grilles for sizes 125-140
P-473465	Pressure switch
P-348615	Water filter for sizes 85-105
P-348616	Water filter for sizes 115-140

ErP | HIGH SEER 5,00 | HIGH SCOP 4,12 | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL COMPRESSOR | VERY HIGH PERFORMANCE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Technical performance

Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			**85**	**95**	**105**	**115**	**125**	**140**
ECOi-W AQV 85-140 H - heat pump			**P-AQVE0085HA**	**P-AQVE0095HA**	**P-AQVE0105HA**	**P-AQVE0115HA**	**P-AQVE0125HA**	**P-AQVE0140HA**
Cooling capacity [1]		kW	81	89,9	98,9	106,9	115,8	129,2
Input power [1]		kW	27,5	31,5	34,2	36,9	41,8	46,5
EER [1]			2,95	2,85	2,89	2,89	2,77	2,78
EER HSE [1]			3,05	2,94	2,97	2,96	2,84	2,84
SEER [2]			**4,25**	**4,68**	**4,63**	**4,17**	**4,33**	**4,28**
$\eta_{s,c}$ [2]			**167**	**184**	**182**	**164**	**170**	**168**
SEER HSE [2]			**4,6**	**5,03**	**4,95**	**4,55**	**4,6**	**4,5**
$\eta_{s,c}$ HSE [2]			**181**	**198**	**195**	**179**	**181**	**177**
Nominal water flow (in the evaporator)		m³/h	13,9	15,5	17,0	18,4	19,9	22,2
Heating capacity [3]		kW	91,8	102,8	110	119	134	146,9
Input power [3]		kW	26,8	30,5	32,2	35,2	40,9	44,8
COP [3]			3,42	3,37	3,42	3,38	3,28	3,28
COP HSE [3]			3,54	3,47	3,52	3,47	3,36	3,36
COP [4]			4,35	4,28	4,36	4,32	4,16	4,17
COP HSE [4]			4,53	4,44	4,52	4,46	4,29	4,28
SCOP [2] [5]			**3,61**	**3,64**	**3,78**	**3,77**	**3,47**	**3,54**
$\eta_{s,h}$ [2] [5]			**141**	**143**	**148**	**148**	**136**	**139**
Nominal water flow (in the evaporator)		m³/h	17,2	17,8	19,3	20,6	23,3	25,5
Sound power [6]		dB(A)	84	84	84	84	88	88
Sound pressure at 10 m [7]		dB(A)	52	52	52	52	56	56
Sound power HPF [6]		dB(A)	92	92	92	92	95	95
Sound pressure at 10 m HPF [7]		dB(A)	60	60	60	60	63	63
ECOi-W AQV 85-140 H S - heat pump			**85**	**95**	**105**	**115**	**125**	**140**
Cooling capacity [1]		kW	78,4	86,7	95,1	102	112	124,6
Input power [1]		kW	28,6	33,2	36,0	39,1	43,1	47,6
EER [1]			2,75	2,61	2,64	2,62	2,61	2,63
EER HSE [1]			2,84	2,69	2,71	2,69	2,65	2,67
SEER [2]			**4,25**	**4,68**	**4,63**	**4,17**	**4,33**	**4,28**
$\eta_{s,c}$ [2]			**167**	**184**	**182**	**164**	**170**	**168**
SEER HSE [2]			**4,6**	**5,03**	**4,95**	**4,55**	**4,6**	**4,5**
$\eta_{s,c}$ HSE [2]			**181**	**198**	**195**	**179**	**181**	**177**
Nominal water flow (in the evaporator)		m³/h	13,5	14,9	16,3	17,6	19,3	21,5
Heating capacity [3]		kW	89,5	99,8	108	115	129	142
Input power [3]		kW	26,4	30,1	32,0	34,7	39,3	43,0
COP [3]			3,39	3,32	3,36	3,32	3,29	3,30
COP HSE [3]			3,55	3,46	3,50	3,45	3,38	3,38
COP [4]			4,32	4,24	4,31	4,25	4,22	4,24
COP HSE [4]			4,58	4,46	4,51	4,44	4,34	4,35
SCOP [2] [5]			**3,61**	**3,64**	**3,78**	**3,77**	**3,47**	**3,54**
$\eta_{s,h}$ [2] [5]			**141**	**143**	**148**	**148**	**136**	**139**
Nominal water flow (in the evaporator)		m³/h	15,6	17,4	18,8	20,1	22,5	24,7
Sound power [6]		dB(A)	82	82	82	82	86	86
Sound pressure at 10 m [7]		dB(A)	50	50	50	50	54	54
ECOi-W AQV 85-140 H HT - heat pump			**85**	**95**	**105**	**115**	**125**	**140**
Cooling capacity [1]		kW	83,5	93,4	104	112	118	132
Input power [1]		kW	28,4	32,0	34,4	37	42	46,2
EER [1]			2,94	2,9	3,02	3,02	2,8	2,85
SEER [2]			**4,6**	**5,02**	**4,95**	**4,55**	**4,6**	**4,5**
$\eta_{s,c}$ [2]			**181**	**198**	**195**	**179**	**181**	**177**
Nominal water flow (in the evaporator)		m³/h	14,3	16,0	17,8	19,2	20,3	22,7
Heating capacity [3]		kW	93,4	104,9	113,7	121,9	135	148
Input power [3]		kW	29,4	33,1	35,0	37,8	42,2	46,1
COP [3]			3,18	3,17	3,25	3,23	3,21	3,21
COP [4]			3,98	3,98	4,08	4,07	4,06	4,08
SCOP [2] [5]			**3,99**	**3,96**	**4,12**	**4,07**	**3,73**	**3,77**
$\eta_{s,h}$ [2] [5]			**157**	**155**	**162**	**160**	**146**	**148**
Nominal water flow (in the evaporator)		m³/h	16,3	18,3	19,8	21,2	23,6	25,8
Sound power [6]		dB(A)	95	95	95	95	95	95
Sound pressure at 10 m [7]		dB(A)	63	63	63	63	63	63

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 5) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 6) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 7) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

Technical performance

Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			**85**	**95**	**105**	**115**	**125**	**140**
ECOi-W AQV 85-140 E STD / HSE / HPF - condensing unit			**P-AQVE0085EA**	**P-AQVE0095EA**	**P-AQVE0105EA**	**P-AQVE0115EA**	**P-AQVE0125EA**	**P-AQVE0140EA**
Cooling capacity [1]		kW	92,1	103,2	113,2	121,8	134,7	151,0
Input power [1]		kW	27,4	31,4	34,1	37,0	41,7	46,8
Sound power [2]		dB(A)	84	84	84	84	88	88
Sound pressure at 10 m [3]		dB(A)	53	53	53	53	57	57
ECOi-W AQV 85-140 E STD / HSE S - condensing unit			**85**	**95**	**105**	**115**	**125**	**140**
Cooling capacity [1]		kW	89	99,5	108,7	116,6	131,6	147,2
Input power [1]		kW	28,6	33,1	36,1	39,3	41,9	47,3
Sound power [2]		dB(A)	82	82	82	82	86	86
Sound pressure at 10 m [3]		dB(A)	51	51	51	51	55	55
ECOi-W AQV 85-140 E HT - condensing unit			**85**	**95**	**105**	**115**	**125**	**140**
Cooling capacity [1]		kW	95	106,8	117,7	127	137,2	153,8
Input power [1]		kW	28,5	32,1	34,4	36,9	41,8	46,7
Sound power [2]		dB(A)	95	95	95	95	95	95
Sound pressure at 10 m [3]		dB(A)	64	64	64	64	64	64

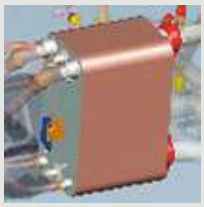
Physical features

ECOi-W AQV 85-140 C/H/E - chiller / heat pump / condensing unit			**85**	**95**	**105**	**115**	**125**	**140**
Dimension	H x W x L	mm	2185 x 1095 x 2555	2185 x 1095 x 2555	2185 x 1095 x 2555	2185 x 1095 x 2555	2185 x 1095 x 3155	2185 x 1095 x 3155
Operating weight (C type)	STD / HT / S	kg	1058 / 1058 / 1088	1072 / 1072 / 1102	1111 / 1111 / 1141	1143 / 1143 / 1173	1183 / 1183 / 1213	1262 / 1262 / 1292
Operating weight (H type)	STD / HT / S	kg	1090 / 1090 / 1120	1105 / 1105 / 1135	1149 / 1149 / 1179	1180 / 1180 / 1210	1227 / 1227 / 1257	1301 / 1301 / 1331
Shipping weight (E type)	STD / S	kg	971 / 1001	983 / 1013	1013 / 1043	1043 / 1073	1066 / 1096	1142 / 1172
Water connections (85-140 C/H types)								
Type of connections (evaporator)			Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
Inlet/outlet diameter		Inch	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½
Condenser (85-140 E type)								
Connection type			To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed
Inlet diameter		Inch	⅝	⅝	⅝	⅝	⅞	⅞
Outlet diameter		Inch	1 ⅜	1 ⅜	1 ⅜	1 ⅜	1 ⅜	1 ⅜

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN 14511-2013 standard. 2) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 3) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

Special Inverter fan.
Option.

Bluefin coil.
As standard on H models.



True dual circuit evaporator.
Optimised heat transfer coefficient.

3 pump option.
Energy saving in partial load.

ECOi-W VL H/E · R410A

Air cooled heat pumps and condensing units.

Cooling capacity: 176,2 to 307 kW.
Heating capacity: 200 to 337,4 kW.

The range at a glance

- 2 versions: H (heat pump) and E (condensing unit)
- 6 sizes
- 3 configurations: STD (standard), HT (high temperature) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (HSE model: high seasonal efficiency)
- 3 acoustic options: STD (standard), L (low noise) and S (super low noise)

Advantages

- High seasonal performances: SCOP up to 3,4
- Small footprint
- Common configuration for the different versions: easy upgrade of the units in stock or on field
- Electronic expansion device: excellent control of superheating for the best performance at full and partial load and for a safe operation
- Compressor box: remarkable sound reduction even for the basic noise version
- Control platform: modular architecture, compressor envelope integration, corrective actions in border line areas, easy-friendly user interface

Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

ECOi-W VL 604-904 H - heat pump				704	804	904
Cooling	Water outlet temperature	Water	°C		From 6 to 15	
		Water with glycol	°C		From 0 to 15	
		Water with glycol (Brine version)	°C		From -8 to 15	
		ΔT	K		From 3 to 8	
	Outdoor air temperature	STD	°C	-5 to 47	0 to 46	0 to 47
		L	°C	-5 to 45	0 to 44	0 to 45
		S	°C	-18 to 41	-18 to 40	-18 to 41
		HT	°C	-18 to 49	-18 to 48	-18 to 49
ECOi-W VL 1004-1204 H - heat pump				**1004**	**1104**	**1204**
Cooling	Water outlet temperature	Water	°C		From 6 to 15	
		Water with glycol	°C		From 0 to 15	
		Water with glycol (Brine version)	°C		From -8 to 15	
		ΔT	K		From 3 to 8	
	Outdoor air temperature	STD	°C	0 to 46	0 to 45	0 to 45
		L	°C	0 to 44	0 to 42	0 to 42
		S	°C	-18 to 40	-18 to 38	-18 to 38
		HT	°C	-18 to 48	-18 to 47	-18 to 47
ECOi-W VL 604-1204 H - heat pump						
Heating	Water outlet temperature		°C		From 30 to 50 [1]	
	Outdoor air temperature	STD	°C		From -10 to 20 [1]	
		L / S	°C		From - 4 to 20 [1]	
External static pressure		STD fans	Pa		0	
		Inverter HPF	Pa		<120	
ECOi-W VL 604-904 E - condensing unit				**704**	**804**	**904**
Evaporating temperature			°C		From 1 to 15	
Outdoor air temperature		STD	°C	-18 to 47 [1]	-18 to 46 [1]	-18 to 46 [2]
		L / S	°C	-18 to 45 [1]	-18 to 44 [1]	-18 to 45 [2]
		HT	°C	-18 to 49 [1]	-18 to 48 [1]	-18 to 49 [2]
ECOi-W VL 604-904 E - condensing unit				**1004**	**1104**	**1204**
Evaporating temperature			°C		1 to 15	
Outdoor air temperature		STD	°C	-18 to 46 [2]	-18 to 45 [2]	-18 to 45 [2]
		L / S	°C	-18 to 44 [2]	-18 to 42 [2]	-18 to 42 [2]
		HT	°C	-18 to 48 [2]	-18 to 47 [2]	-18 to 47 [2]

1(Maximum water outlet temperature 50 °C (minimum temperature outdoor air +0 °C) to be confirmed with AC SELECT selection software. 2) At high pressure 40,5 bar.
Chillers suitable for operation without buffer tank for water content greater than 3 liters of water per kW of output.

Equipment

- 2 refrigerant circuits
- 4 scroll compressors (tandem)
- Plate evaporator (AISI 316)
- Microprocessor control
- Electronic expansion valve
- E-coating coil treatment
- Compressor acoustic box
- Phase sequence control
- Water differential pressure switch

Accessories and options
Anti-vibration spring dampers
Automatic circuit breaker
Coils treatments
Compressor jackets (standard on S)
Desuperheater
Fan speed control (-18 °C)
Hydrokit with 1 or 2 pumps with or without buffer tank (500 L) (+1 m of length)
Inverter fans
Mechanical gauges
Overload protection for compressors
Power factor corrector capacitors
Several communication protocols
Soft starter
Unit protection grilles

Technical performance

Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			**704**	**804**	**904**	**1004**	**1104**	**1204**
ECOi-W VL 704-1204 H STD / HPF - heat pump			**P-VLE0704HA**	**P-VLE0804HA**	**P-VLE0904HA**	**P-VLE1004HA**	**P-VLE1104HA**	**P-VLE1204HA**
Cooling capacity [1]		kW	173,2	197,1	226,4	246,3	273,1	299,9
Input power [1]		kW	65,9	72,2	82,4	86,8	99,8	114,0
EER [1]			2,62	2,73	2,74	2,84	2,74	2,63
SEER [2]			**3,63**	**3,55**	**3,35**	**3,5**	**3,53**	**3,43**
$\eta_{s,c}$ [2]			**142**	**139**	**131**	**137**	**138**	**134**
SEER HSE [2]			**3,95**	**3,83**	**3,65**	**3,8**	**3,78**	**3,68**
$\eta_{s,c}$ HSE [2]			**155**	**150**	**143**	**149**	**148**	**144**
Nominal water flow (in the evaporator)		m³/h	29,9	33,9	38,8	42,4	47,0	51,6
Heating capacity [3]		kW	200,1	223,2	254,7	270,8	302,1	337,4
Input power [3]		kW	67,4	70,4	79,6	87,6	100,0	112,5
COP [3]			2,97	3,17	3,20	3,09	3,02	3,00
COP [4]			3,71	3,96	3,99	3,86	3,78	3,77
SCOP [2] [5]			**3,41**	**3,42**	**3,28**	**3,39**	**3,30**	**3,19**
$\eta_{s,h}$ [2] [5]			**133**	**134**	**128**	**133**	**129**	**125**
SCOP HSE [2] [5]			**3,44**	**3,4**	**3,32**	**3,33**	**3,37**	**3,3**
Nominal water flow (in the evaporator)		m³/h	34,7	38,6	43,6	47,0	52,3	58,4
Sound power [6]		dB(A)	93	93	94	94	95	95
Sound pressure at 10 m [7]		dB(A)	61	61	62	62	63	63
ECOi-W VL 704-1204 H L - heat pump			**704**	**804**	**904**	**1004**	**1104**	**1204**
Cooling capacity [1]		kW	168,2	191,2	220,4	237,3	261,2	285,1
Input power [1]		kW	66,2	73,3	83,8	88,5	102,8	119,8
EER [1]			2,54	2,61	2,63	2,68	2,54	2,38
SEER [2]			**3**	**3**	**3,1**	**3,28**	**3,3**	**3,23**
$\eta_{s,c}$ [2]			**117**	**117**	**121**	**128**	**129**	**126**
SEER HSE [2]			**3,95**	**3,83**	**3,65**	**3,80**	**3,78**	**3,68**
$\eta_{s,c}$ HSE [2]			**155**	**150**	**143**	**149**	**148**	**144**
Nominal water flow (in the evaporator)		m³/h	29,0	32,9	38,2	40,8	45,0	49,1
Heating capacity [3]		kW	195,0	217,1	247,7	261,8	288,9	322,2
Input power [3]		kW	65,2	68,3	76,9	84,7	97,0	109,2
COP [3]			2,99	3,18	3,22	3,09	2,98	2,95
COP [4]			3,77	4,01	4,06	3,9	3,76	3,72
SCOP [2] [5]			**3,41**	**3,42**	**3,28**	**3,39**	**3,20**	**3,19**
$\eta_{s,h}$ [2] [5]			**133**	**134**	**128**	**133**	**125**	**125**
SCOP HSE [2] [5]			**3,44**	**3,4**	**3,32**	**3,33**	**3,37**	**3,24**
Nominal water flow (in the evaporator)		m³/h	33,8	37,5	42,5	45,4	50,0	55,8
Sound power [6]		dB(A)	87	87	88	88	89	89
Sound pressure at 10 m [7]		dB(A)	55	55	56	56	57	57
ECOi-W VL 704-1204 H S - heat pump			**704**	**804**	**904**	**1004**	**1104**	**1204**
Cooling capacity [1]		kW	164,3	185,2	214,5	230,4	253,3	276,1
Input power [1]		kW	69,0	76,2	86,1	90,7	106,9	124,9
EER [1]			2,38	2,43	2,49	2,54	2,37	2,21
SEER [2]			**3,63**	**3,55**	**3,35**	**3,5**	**3,53**	**3,43**
$\eta_{s,c}$ [2]			**142**	**139**	**131**	**137**	**138**	**134**
SEER HSE [2]			**3,95**	**3,83**	**3,65**	**3,8**	**3,78**	**3,68**
$\eta_{s,c}$ HSE [2]			**155**	**150**	**143**	**149**	**148**	**144**
Nominal water flow (in the evaporator)		m³/h	28,3	31,9	36,9	39,7	43,6	47,5
Heating capacity [3]		kW	184,9	202,9	232,6	245,7	266,8	297,0
Input power [3]		kW	64,9	67,0	75,8	83,9	95,0	108,0
COP [3]			2,85	3,03	3,07	2,93	2,81	2,75
COP HSE [3]			2,95	3,13	3,19	3,04	2,90	2,83
COP [4]			3,6	3,83	3,88	3,71	3,56	3,48
COP HSE [4]			3,76	3,98	4,07	3,87	3,7	3,59
SCOP [2] [5]			**3,41**	**3,42**	**3,28**	**3,39**	**3,30**	**3,19**
$\eta_{s,h}$ [2] [5]			**133**	**134**	**128**	**133**	**129**	**125**
SCOP HSE [2] [5]			**3,44**	**3,4**	**3,32**	**3,33**	**3,37**	**3,26**
Nominal water flow (in the evaporator)		m³/h	32,0	35,2	40,4	42,5	46,3	51,5
Sound power [6]		dB(A)	83	83	84	84	85	85
Sound pressure at 10 m [7]		dB(A)	51	51	52	52	53	53

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 5) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 6) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 7) Sound pressures refer to ISO 3744 standard, parallelepiped shape.

Accessories supplied loose	
P-376463	Sequencer for up to 4 chillers installation
P-347941	Remote ON / OFF
P-364735	Remote keyboard panel
P-348003	Chiller grilles

Accessories supplied loose	
P-365581	Flow switch
P-473465	Pressure switch
P-348619	Water filter

ErP ✔ | HIGH SEER 3,63 | HIGH SCOP 3,42 | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL COMPRESSOR | VERY HIGH PERFORMANCE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Technical performance

Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Size			**704**	**804**	**904**	**1004**	**1104**	**1204**
ECOi-W VL 704-1204 H HT - heat pump			**704**	**804**	**904**	**1004**	**1104**	**1204**
Cooling capacity [1]		kW	175,6	199,7	229,5	250,1	276,5	305,6
Input power [1]		kW	66,3	72,4	83,6	87,4	101,1	114,2
EER [1]			2,64	2,75	2,74	2,85	2,73	2,67
SEER [2]			**3**	**3**	**3,1**	**3,28**	**3,3**	**3,23**
$\eta_{s,c}$ [2]			**117**	**117**	**121**	**128**	**129**	**126**
Nominal water flow (in the evaporator)		m^3/h	30,1	34,3	39,4	42,9	47,5	52,5
Heating capacity [3]		kW	200,7	224,0	256,6	273,7	305,5	341,5
Input power [3]		kW	68,6	71,7	81,8	90,2	103	115
COP [3]			2,93	3,13	3,14	3,04	2,98	2,97
COP [4]			3,66	3,92	3,91	3,79	3,73	3,73
SCOP [2] [5]			**3,44**	**3,40**	**3,32**	**3,33**	**3,37**	**3,26**
$\eta_{s,h}$ [2] [5]			**135**	**133**	**130**	**130**	**132**	**127**
Nominal water flow (in the evaporator)		m^3/h	34,9	39,0	44,7	47,6	53,2	59,4
Sound power [6]		dB(A)	99	99	100	100	100	100
Sound pressure at 10 m [7]		dB(A)	67	67	68	68	68	68
ECOi-W VL 704-1204 E STD / HPF - condensing unit			**P-VLE0704EA**	**P-VLE0804EA**	**P-VLE0904EA**	**P-VLE1004EA**	**P-VLE1104EA**	**P-VLE1204EA**
Cooling capacity [8]		kW	199,0	224,0	258,0	283,0	315,0	347,0
Input power [8]		kW	68,7	74,7	86,6	90,6	106	120
Sound power [6]		dB(A)	93	93	94	94	95	95
Sound pressure at 10 m [7]		dB(A)	61	61	62	62	63	63
ECOi-W VL 704-1204 E L - condensing unit			**704**	**804**	**904**	**1004**	**1104**	**1204**
Cooling capacity [8]		kW	194,0	218,0	251,0	272,5	301,0	330,0
Input power [8]		kW	69,6	76,6	87,8	92,8	109	126
Sound power [6]		dB(A)	87	87	88	88	89	89
Sound pressure at 10 m [7]		dB(A)	55	55	56	56	57	57
ECOi-W VL 704-1204 E S - condensing unit			**704**	**804**	**904**	**1004**	**1104**	**1204**
Cooling capacity [8]		kW	188,5	211,0	244,0	264,5	292,0	319,0
Input power [8]		kW	72,0	79,5	90,5	95,5	112	131
Sound power [6]		dB(A)	83	83	84	84	85	85
Sound pressure at 10 m [7]		dB(A)	51	51	52	52	53	53
ECOi-W VL 704-1204 E HT - condensing unit			**704**	**804**	**904**	**1004**	**1104**	**1204**
Cooling capacity [8]		kW	201,0	226,5	261,0	286,5	318,0	353,0
Input power [8]		kW	68,9	74,9	87,1	91,0	105	119
Sound power [6]		dB(A)	99	99	100	100	100	100
Sound pressure at 10 m [7]		dB(A)	67	67	68	68	68	68

1) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 2) According to EN 14825. 3) According to EN 14511-2013: warm water inlet/outlet temperature: 40/45 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 4) According to EN 14511-2013: warm water inlet/outlet temperature: 30/35 °C, outdoor ambient temperature 7 °C DB/6 °C WB. 5) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 6) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 7) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 8) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature.

Physical features

ECOi-W VL 704 - 1204 H/E - heat pump / condensing unit			704	804	904	1004	1104	1204
Dimension	H x W x L	mm	2300 x 1100 x 4300	2300 x 1100 x 4300	2300 x 1100 x 4300	2300 x 1100 x 4300	2300 x 1100 x 4300	2300 x 1100 x 4300
Operating weight - heat pump	STD / L	kg	1675	1820	1980	2125	2215	2225
	S	kg	1710	1855	2015	2165	2255	2265
	HT	kg	1705	1850	2020	2165	2255	2265
Shipping weight - condensing unit	STD / L	kg	1490	1615	1700	1825	1910	1920
	S	kg	1525	1650	1735	1865	1950	1960
	HT	kg	1520	1645	1740	1865	1950	1960
ECOi-W VL 704-1204 H STD / HPF - heat pump			**704**	**804**	**904**	**1004**	**1104**	**1204**
Water connections								
Type of connections (evaporator)			Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
Inlet/outlet diameter		Inch	2 ½	2 ½	3	3	3	3
ECOi-W VL 704-1204 E - condensing unit			**704**	**804**	**904**	**1004**	**1104**	**1204**
Refrigerant connections								
Inlet diameter		Inch	⅞	⅞	1 ⅛	1 ⅛	1 ⅛	1 ⅛
Outlet diameter		Inch	1 ⅝	1 ⅝	2 ⅛	2 ⅛	2 ⅛	2 ⅛

ECOi-W AQUA EVO 400-800 C · R410A

Air cooled chillers.

Cooling capacity: 390,4 to 775,4 kW.

The range at a glance

- 1 version: C (chiller)
- 8 sizes
- 3 configurations: STD (standard), HT (high temperature) and HPF (high pressure fan)
- 2 fan types: AC (standard fan) and EC (high-efficiency fan)
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- High seasonal performances: SEER up to 4,6
- Low sound emission and high-efficiency level in a single unit: Super Low Noise version
- Electronic expansion device: excellent control of superheating for the best performance at full and partial load and for a safe operation
- E-coated microchannel coils: Significant reduction on refrigerant charge and operating weight and excellent anticorrosion protection with the standard delivery
- Compressor box: remarkable sound reduction even for the basic noise version
- Control platform: modular architecture, compressor envelope integration, corrective actions in border line areas, easy-friendly user interface

Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

ECOi-W AQUA EVO 400-800 C - chiller				
Chilled liquid	Liquid outlet temperature	Water	°C	From 5 to 18
		Water with glycol*	°C	From -10 to 5
		ΔT	K	From 3 to 7
	Maximum operating pressure		bar	6
Outdoor air temperature	Air entering temperature cooling	STD	°C	From 10 to 48
		S / EC / EC S	°C	From -18 to 48
		HT	°C	From -18 to 52
External static pressure	STD fans		Pa	0
	High pressure fan (HPF)		Pa	<120

*For liquid outlet temperature <-3 °C provide Brine version.

Equipment

- Brine version: chiller for process application LWT -10 °C
- Plate evaporator
- Electronic expansion valve
- Modbus RS485 (standard for sizes 400-670)
- Microchannel coils (MCHX)
- E-coating coil treatment as standard on MCHX
- Compressor acoustic box
- Compressor jackets (standard as S version)
- Fan speed control (standard as EC/HPF/S versions)
- Phase sequence control
- Water differential pressure switch

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Power supply [1]	Voltage	V	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Size			**400**	**450 S**	**490 S**	**530 S**	**600**	**670**	**750 S**	**800 S**
ECOi-W AQUA EVO 400-800 C AC - chiller		**P-AQAVE**	**0400CA**	**0450CA**	**0490CA**	**0530CA**	**0600CA**	**0670CA**	**0750CA**	**0800CA**
Nominal cooling capacity [2]		kW	390,4	431,1	470,2	513,7	584,5	653,2	727,7	775,4
Input power [2]		kW	126,7	138,6	152,7	167,9	189,1	210,7	234,7	250,1
EER [2]			3,08	3,11	3,08	3,06	3,09	3,10	3,10	3,10
SEER [3] [4]			**4,48**	**4,63**	**4,58**	**4,78**	**4,58**	**4,59**	**4,73**	**4,70**
$\eta_{s,c}$ [3] [4]		**%**	**176**	**182**	**180**	**188**	**180**	**180,7**	**186**	**185**
Nominal water flow (in the evaporator)		m³/h	68,0	75,1	82,0	89,5	101,8	113,9	113,9	135,1
Sound power [5]		dB(A)	92	87	87	87	94	94	89	89
Sound pressure at 10 m [6]		dB(A)	60	54	54	54	61	61	56	56
ECOi-W AQUA EVO 400-800 C EC - chiller			**400**	**450 S**	**490 S**	**530 S**	**600**	**670**	**750 S**	**800 S**
Nominal cooling capacity [2]		kW	400,0	447,0	489,0	535,0	599,0	669,0	751,4	801,4
Input power [2]		kW	127,0	140,0	154,0	170,0	189,0	211,0	239,7	255,7
EER [2]			3,15	3,19	3,17	3,16	3,17	3,17	3,13	3,13
SEER [3] [4]			**4,65**	**4,58**	**4,68**	**4,55**	**4,78**	**4,87**	**4,65**	**4,68**
$\eta_{s,c}$ [3] [4]		**%**	**183**	**180**	**184**	**179**	**188**	**192**	**183**	**184**
Nominal water flow (in the evaporator)		m³/h	68,8	76,9	84,2	92,2	103,1	115,1	131,0	139,7
Sound power [5]		dB(A)	92	93	93	94	94	94	95	95
Sound pressure at 10 m [6]		dB(A)	60	61	60	61	61	61	62	62

Physical features

ECOi-W AQUA EVO 400-800 C - chiller			**400**	**450 S**	**490 S**	**530 S**	**600**	**670**	**750 S**	**800 S**
Dimension	H x W	mm	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175	2500 x 2175
	Length STD / EC / HPF	mm	4580	5620	6680	6680	7760	7760	8900	8900
	Length S / EC S / HT	mm	5620	6680	7760	7760	8800	8800	11000	11000
Operating weight	STD / EC / HPF	kg	3028	3367	3783	4069	4317	4524	5536	5607
	S / EC S / HT	kg	3318	3656	4069	4369	4597	4789	6111	6183
Water connections (evaporator and condenser)										
Type of connections			Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	4	4	4	4	4	5	6	6

1) Voltage 400 V +/- 10%. 2) According to EN 14511-2013: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 35 °C DB. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) According to EN 14825. 5) Sound power is declared in nominal full load condition (cooling operation), referring to ISO standard 9614, in accordance with Eurovent certification program. 6) Sound pressure refer to ISO Standard 3744, parallelepiped shape in a free field on a reflective surface.

Accessories and options
Anti-vibration spring dampers
Automatic circuit breaker
Coils treatments
Desuperheater
Fan speed control (-14 °C in cooling mode – standard as EC/HPF/S versions)
Hydrokit with 1 or 2 pumps with or without buffer tank (500 L 400-450, 1000 L 470-670)

Accessories and options
Mechanical gauges
Overload protection for compressors
Power factor corrector capacitors
Several communication protocols
Soft starter
Unit protection grilles
Variable pump (for sizes 750-800 upon request)

Accessories supplied loose	
P-376463	Sequencer for up to 4 chillers installation
P-347941	Remote ON / OFF control
P-364735	Remote keyboard panel
P-365581	Flow switch

Accessories supplied loose	
P-473465	Pressure switch
P-348620	Water filter for sizes 400-530
P-348618	Water filter for sizes 580-750
P-362589	Water filter for size 800

ErP | HIGH SEER 4,78 | AIR COOLED | PLATE HEAT EXCHANGER | SCROLL COMPRESSOR | VERY HIGH PERFORMANCE

ErP: Check ErP compliance according to the configurations in AC SLECT: https://acselect.panasonic.eu/.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

ECOi-W SW-N EVO 380-1260 C · R513A

Air cooled chillers.

Cooling capacity: 366 to 1240,5 kW.

The range at a glance

- 1 version: C (chiller)
- 12 sizes
- 2 configurations: STD (standard) and HT (high temperature)
- 1 fan type: EC (high-efficiency fan)
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- High seasonal efficiency level exceeding ErP 2021 requirements
- High durability painting process for casing and frame, offering C4 corrosion category in accordance with ISO 12944
- Compressor metal box, providing basic acoustic protection and resistance to atmospheric agents
- Side panel on coil ends, protecting from corrosion and damage
- EC fan motors, improving part load efficiency, extending envelope operation and reducing noise level in part load operation
- Proprietary software logic, optimizing unit efficiency in accordance with plant needs and protecting unit operation with preventing actions

Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

ECOi-W SW-N EVO 380-1260 C - chiller			
Leaving water temperature	Water	°C	From 5 to 15
	Water with glycol	°C	From 0 to 5
	Brine	°C	From -8 to 0
	ΔT	K	From 3 to 8
Outdoor air temperature	STD	°C	From -10 to 46
	S	°C	From -10 to 44
	HT	°C	From -10 to 49
	Minimum air temperature	°C	-10
External static pressure	STD fans	Pa	0
	High pressure fans	Pa	< 120

Equipment

- 2 refrigerant circuits
- 2 screw compressors
- Pure countercurrent shell and tubes direct expansion heat exchanger
- Axial type EC fan motors
- Micro-channels condensers
- Electronic expansion valve
- Hydronic / heat recovery options

Accessories and options
Antifreeze electric heater for hydraulic manifolds
Anti-vibration spring dampers
Chiller grilles
Compressor acoustic box
Compressor star delta start
Compressor suction valve
E-coating treatment

Accessories and options
Finned tubes (Al/Cu)
Hydro kit 1P-SP/1P-HP/2P-SP/2PHP
Mechanical gauges kit (HP and LP manometers)
Power factor corrector capacitors
Several communication protocols
Variable pump

Accessories supplied loose	
P-347941	Remote ON / OFF
P-364735	Remote keyboard panel
P-365581	Flow switch

Accessories supplied loose	
P-348620	Water filter for sizes 320-510
P-348618	Water filter for sizes 590-730
P-362589	Water filter for sizes 810-1260

Technical performance

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50	50
Size			**380**	**440**	**510**	**590**	**660**	**730**	**810**	**900**	**980**	**1060**	**1160**	**1260**
ECOi-W SW-N EVO 380-1260 C STD / HT / HP - chiller	**P-SWVN****CA**		**0380**	**0440**	**0510**	**0590**	**0660**	**0730**	**0810**	**0900**	**0980**	**1060**	**1160**	**1260**
Nominal cooling capacity [1]		kW	365,7	443,0	500,2	565,8	643,5	704,3	778,1	896,9	983,5	1047,4	1154,0	1240,5
Input power [1]		kW	126	146	168	185	217	233	259	296	328	340	378	416
EER [1]			2,89	3,04	2,96	3,05	2,96	3,01	3,00	3,02	2,99	3,08	3,05	2,98
EER $_{CONDITION\ B}$ (74%)			3,95	4,01	3,99	4,02	3,93	3,95	3,89	3,82	3,98	4,10	4,14	4,20
EER $_{CONDITION\ C}$ (47%)			4,66	4,81	4,81	5,03	4,76	4,66	4,72	4,68	4,72	5,10	5,06	5,02
EER $_{CONDITION\ D}$ (21%)			6,14	6,31	6,33	6,65	6,62	6,23	6,62	6,32	6,22	6,69	6,70	6,68
SEER [2] [3]			**4,53**	**4,64**	**4,65**	**4,80**	**4,66**	**4,56**	**4,62**	**4,56**	**4,60**	**4,87**	**4,86**	**4,85**
$\eta_{s,c}$ [2] [3]		**%**	**178**	**182**	**183**	**189**	**183**	**179**	**182**	**179**	**181**	**192**	**191**	**191**
Number of refrigerant circuits			2	2	2	2	2	2	2	2	2	2	2	2
Total capacity steps [4]		%	22% ÷ 100%	18% ÷ 100%	16% ÷ 100%	14% ÷ 100%	13% ÷ 100%	15% ÷ 100%	13% ÷ 100%	14% ÷ 100%	13% ÷ 100%	17% ÷ 100%	15% ÷ 100%	14% ÷ 100%
Sound power [5]		dB(A)	97	98	100	100	100	101	101	102	102	103	103	103
Sound power [5]**/***		dB(A)	102	103	104	104	104	105	105	106	106	107	108	108
Sound pressure at 10 m [6]		dB(A)	65	66	68	68	68	68	68	69	69	70	70	70
Sound pressure at 10 m [6]**/***		dB(A)	70	71	72	72	72	72	72	73	73	74	75	75
ECOi-W SW-N EVO 380-1260 C S - chiller			**380**	**440**	**510**	**590**	**660**	**730**	**810**	**900**	**980**	**1060**	**1160**	**1260**
Nominal cooling capacity [1]		kW	362,8	441,8	498,2	563,1	640,0	702,5	775,9	893,1	980,9	1045,5	1150,6	1234,8
Input power [1]		kW	126,1	144,9	168,0	184,0	209,3	231,5	256,4	294,7	326,4	335,5	375,0	416,8
EER [1]			2,88	3,05	2,97	3,06	3,06	3,03	3,03	3,03	3,01	3,12	3,07	2,96
EER $_{CONDITION\ B}$ (74%)			3,90	4,03	3,99	4,00	3,96	3,97	4,01	3,84	4,18	4,15	4,22	4,31
EER $_{CONDITION\ C}$ (47%)			4,69	5,04	5,05	5,21	4,95	4,91	4,98	4,94	5,02	5,24	5,36	5,30
EER $_{CONDITION\ D}$ (21%)			6,44	6,82	6,75	6,92	6,93	6,64	6,71	6,60	6,55	7,00	7,24	7,04
SEER [2] [3]			**4,56**	**4,82**	**4,79**	**4,89**	**4,78**	**4,73**	**4,77**	**4,69**	**4,82**	**4,98**	**5,07**	**5,03**
$\eta_{s,c}$ [2] [3]		**%**	**180**	**190**	**189**	**193**	**188**	**186**	**188**	**185**	**190**	**196**	**200**	**198**
Number of refrigerant circuits			2	2	2	2	2	2	2	2	2	2	2	2
Total capacity steps [4]		%	22% ÷ 100%	18% ÷ 100%	16% ÷ 100%	14% ÷ 100%	13% ÷ 100%	15% ÷ 100%	13% ÷ 100%	14% ÷ 100%	13% ÷ 100%	17% ÷ 100%	15% ÷ 100%	14% ÷ 100%
Sound power [5]		dB(A)	94	94	97	97	97	98	98	99	99	99	100	100
Sound pressure at 10 m [6]		dB(A)	62	62	65	65	65	65	65	66	66	66	67	67

Physical features

ECOi-W SW-N EVO 380-1260 C - chiller			**380**	**440**	**510**	**590**	**660**	**730**	**810**	**900**	**980**	**1060**	**1160**	**1260**
Dimension	Height	mm	2510	2510	2510	2510	2510	2510	2510	2510	2510	2510	2510	2510
	Height S	mm	2590	2590	2590	2590	2590	2590	2590	2590	2590	2590	2590	2590
	Width	mm	2192	2192	2192	2192	2192	2192	2192	2192	2192	2192	2192	2192
	Length	mm	4660	5712	5712	6764	7816	7816	8868	9920	10972	12024	13076	13076
Operating weight	STD / HT / HP	kg	3896	4259	4897	5241	5620	6207	6531	7326	7764	8491	8875	9074
	S	kg	3981	4352	4990	5323	5702	6293	6617	7412	7852	8579	8963	9162

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN 14511-2013 standard. 2) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281.
3) According to EN 14825. 4) This value can change for BC version or other special applications. 5) Sound levels are at fully loaded conditions. Sound power values refer to ISO standard 3744. 6) Sound pressures refer to ISO Standard 3744, parallelepiped shape.
*High temperature units (HT), data with fans at maximum speed (1100 r.p.m.). **HPF units, data with fans at maximum speed (1100 r.p.m.).

Technological innovation - All-round variable volume flow management.

Refrigerant.
Inverter driven compressor technology and electronic expansion valve.

Air.
EC brushless fan motor technology.

Water.
Inverter driven pump technology.

Improved part load efficiency.
Continuous capacity control.
Flexible offer in plant integration.

ErP | HIGH SEER 5,07 | INVERTER | AIR COOLED | SHELL AND TUBE EVAPORATOR | SCREW COMPRESSOR | SUPER QUIET | VERY HIGH PERFORMANCE

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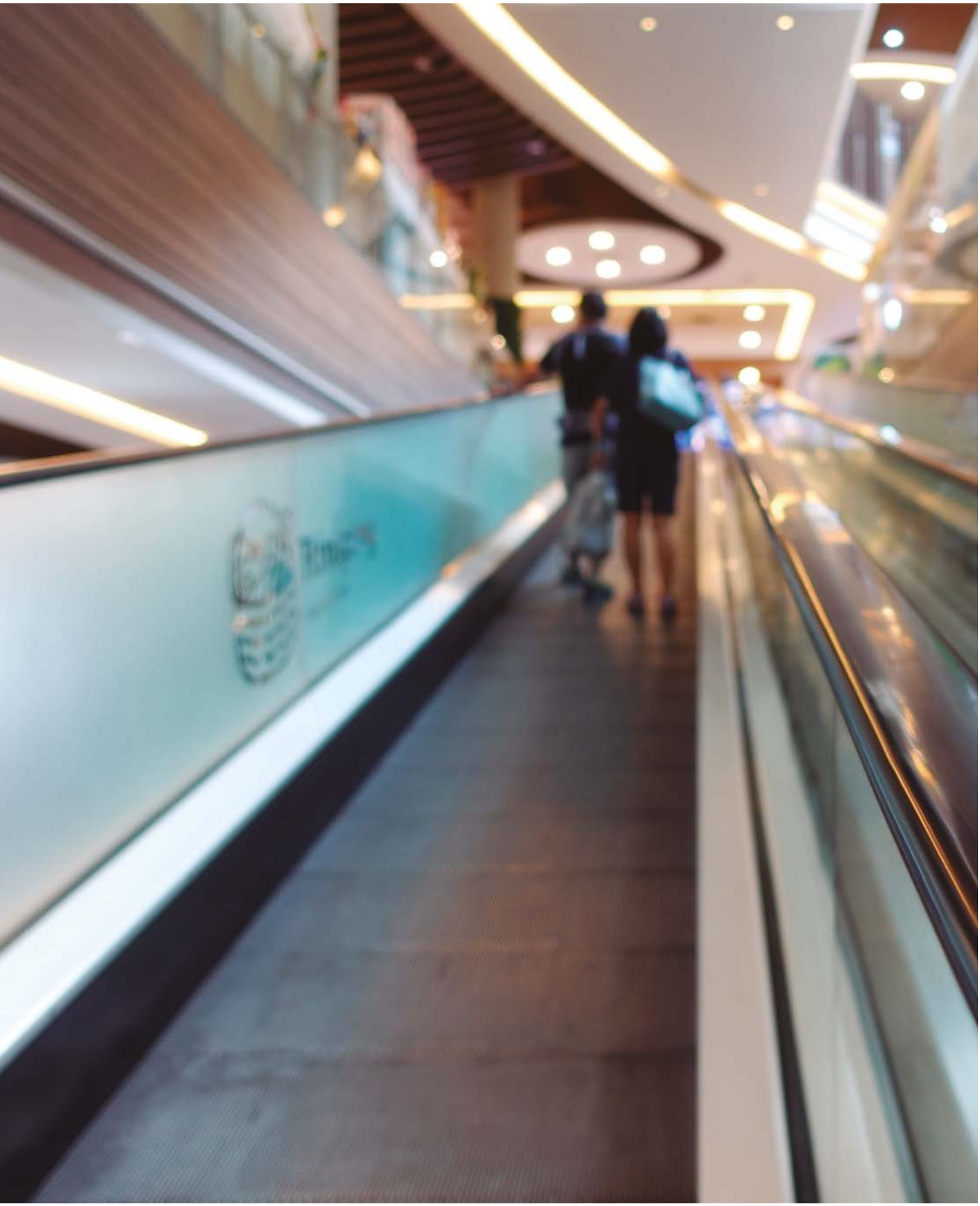
Water cooled chillers, heat pumps and condenserless units

Quality and comfort for all your projects with ECOi-W units! Perfect for any type of building, the system consists of water cooled chillers or heat pumps that provide cold or hot water to water terminals. This system is particularly well suited for applications such as office buildings, hotels, shopping centers and hospitals.

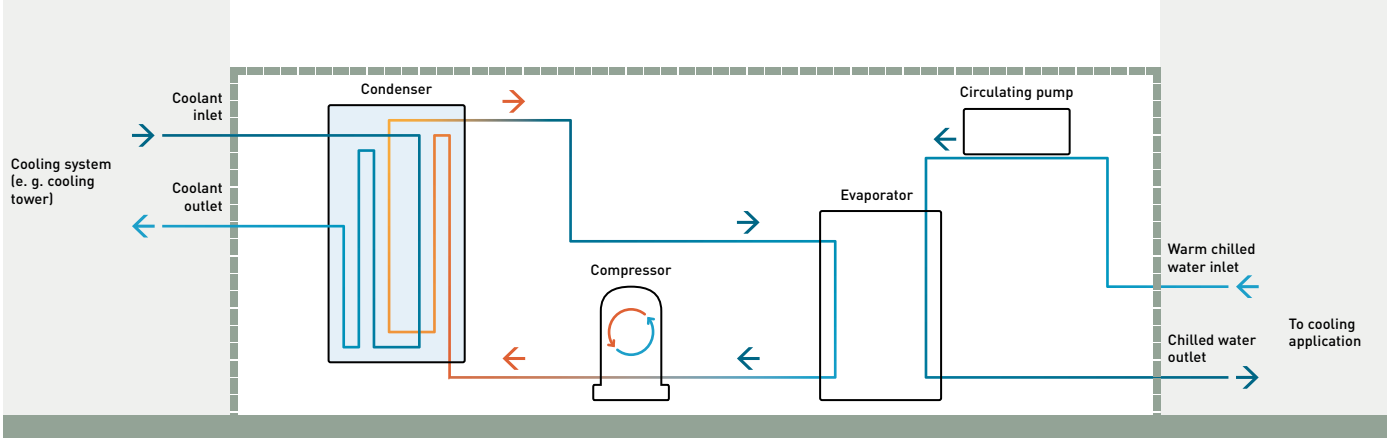


Water cooled chillers ECOi-W use water as the cooling medium to extract heat from the cooling circuit by cooling and condensing the refrigerant.

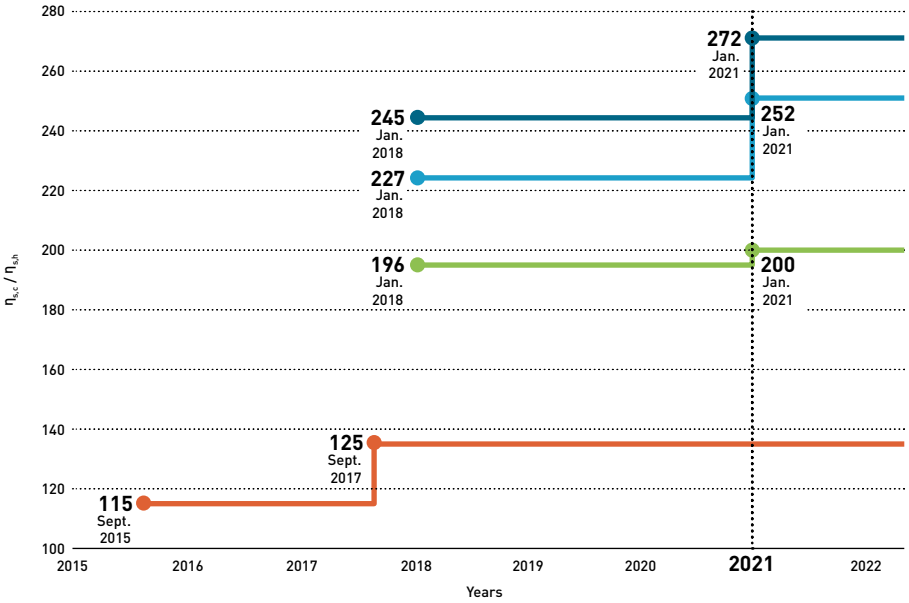
Advantages:

- Higher cooling efficiency compared to air cooled chillers
- Less impact on the environment with less waste heat or fan noise

*The below illustration show cooling application.



Ecodesign



Water to water comfort chiller [1].

- ≤400 kW. Minimum $\eta_{s,c}$ to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.
- >400 kW and ≤1500 kW. Minimum $\eta_{s,c}$ to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.
- >1500 kW. Minimum $\eta_{s,c}$ to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.

Water to water heat pumps [2].

- ≤400 kW. Minimum $\eta_{s,h}$ to be Ecodesign compliant. COMMISSION REGULATION (EU) No813/2013.
- >400 kW and ≤1500 kW. Minimum $\eta_{s,h}$ to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.
- >1500 kW. Minimum $\eta_{s,h}$ to be Ecodesign compliant. COMMISSION REGULATION (EU) 2016/2281.

1) Calculated at nominal conditions: chilled water inlet/outlet temperature: 12/7 °C, outdoor ambient temperature 30/35 °C DB.
2) Rated heat output of space heaters and combination heaters at reference design conditions (Tdesign -10 °C) as stated in COMMISSION REGULATION (EU) No 813/2013.

Quick selection guide - Water cooled chillers

Page	Size	Cooling capacity (kW)	SEER	Sound power (dB(A))	Dimension L x H x W (mm)
ECOi-W WQ C	20	21,2	5,58	65	821 x 1350 x 455
	25	26,2	5,60	67	821 x 1350 x 455
	30	31,1	5,45	67	821 x 1350 x 455
	35	34,8	5,50	68	821 x 1350 x 455
	40	39,2	5,35	68	821 x 1350 x 455
	45	46,6	5,83	70	821 x 1350 x 455
	50	50,9	6,13	70	1210 x 1500 x 850
P. 512	60	61,1	6,38	70	1210 x 1500 x 850
	75	77,3	5,95	72	1210 x 1500 x 850
	90	91,1	6,70	73	1210 x 1500 x 850
	120	118,4	5,90	78	1210 x 1500 x 850
	150	147,1	6,13	81	1210 x 1500 x 850
	170	170	6,08	81	1210 x 1500 x 850
	190	192,7	6,20	81	1210 x 1500 x 850
	524	154,3	5,55	81	2250 x 1845 x 850
	604	181,8	6,28	82	2250 x 1845 x 850
	704	208,9	6,10	85	2250 x 1845 x 850
	804	232,6	5,75	87	2250 x 1845 x 850
P. 514	904	265,8	6,10	89	2250 x 1845 x 850
	1004	295,6	6,10	90	2250 x 1845 x 850
	1104	338	6,20	90	2250 x 1845 x 850
	1204	379,2	6,25	90	2250 x 1845 x 850
	1404	421,1	6,43	92	2250 x 1845 x 850
	1604	459,8	6,47	94	2250 x 1845 x 850
ECOi-W WSW-N EVO C	440	418,6	6,38	95	4250 x 1650 x 1350
	490	471,6	6,38	95	4250 x 1650 x 1350
	570	539,3	6,52	95	4210 x 1650 x 1350
	630	601,9	6,42	95	4210 x 1650 x 1350
	700	664,4	6,38	95	4180 x 1650 x 1350
	770	734,6	6,38	95	4180 x 1650 x 1350
	860	825,0	6,41	98	4510 x 1710 x 1520
P. 516	920	874,1	6,41	98	4510 x 1710 x 1520
	990	936,6	6,41	98	4600 x 1710 x 1520
	1070	1019,1	6,42	98	4650 x 1710 x 1520
	1130	1071,8	6,53	98	4650 x 1710 x 1520
	1220	1159,3	6,51	98	4650 x 1710 x 1520
	1280	1226,1	6,44	98	4650 x 1710 x 1520
	1400	1334,6	6,45	98	5350 x 1710 x 1520
	1550	1457,9	6,42	98	5350 x 1710 x 1520

Quick selection guide - Water cooled heat pumps

Page	Size	Cooling and heating capacity (kW)	SEER / SCOP	Sound power (dB(A))	Dimension L x H x W (mm)
ECOi-W WQ H	20	20,8 / 23,8	5,13 / 5,17	65	821 x 1350 x 455
	25	26,1 / 29,0	5,00 / 5,45	67	821 x 1350 x 455
	30	30,2 / 33,9	4,88 / 5,33	67	821 x 1350 x 455
	35	34,1 / 38,6	5,10 / 5,05	68	821 x 1350 x 455
	40	38,3 / 43,1	5,00 / 4,83	68	821 x 1350 x 455
	45	45,7 / 51,2	5,48 / 5,28	70	821 x 1350 x 455
P. 512	50	50,1 / 58,6	4,48 / 5,70	70	1210 x 1500 x 850
	60	59,1 / 65,8	4,83 / 5,88	70	1210 x 1500 x 850
	75	76,3 / 87,5	4,70 / 5,70	72	1210 x 1500 x 850
	90	88,9 / 103,0	4,88 / 5,78	73	1210 x 1500 x 850
	120	115,0 / 134,0	4,93 / 5,75	78	1210 x 1500 x 850
	150	145,0 / 167,0	4,98 / 5,63	81	1210 x 1500 x 850
	170	166,0 / 193,0	5,65 / 5,95	81	1210 x 1500 x 850
	190	186,0 / 215,0	5,10 / 5,63	81	1210 x 1500 x 850
P. 514	524	151,0 / 172,0	4,65 / 5,40	81	2250 x 1845 x 850
	604	177,0 / 203,0	4,93 / 5,20	82	2250 x 1845 x 850
	704	205,0 / 234,0	4,93 / 5,38	85	2250 x 1845 x 850
	804	226,0 / 259,0	4,68 / 5,35	87	2250 x 1845 x 850
	904	264,0 / 298,0	5,15 / 5,73	89	2250 x 1845 x 850
	1004	292,0 / 333,0	5,10 / 5,85	90	2250 x 1845 x 850
	1104	333,0 / 379,0	5,28 / 5,83	90	2250 x 1845 x 850
	1204	371,0 / 422,0	5,30 / 5,85	90	2250 x 1845 x 850
	1404	421,0 / 471,0	6,43 / —	92	2250 x 1845 x 850
	1604	460,0 / 508,0	6,47 / —	94	2250 x 1845 x 850
ECOi-W WSW-N EVO H	440	365,9 / 470,3	6,53 / 4,46	95	4590 x 1650 x 1450
	490	418,9 / 536,5	6,38 / 4,52	95	4590 x 1650 x 1450
	570	483,2 / 621,7	6,40 / 4,4	95	4630 x 1650 x 1450
	630	541,0 / 698,6	6,38 / 4,31	95	4630 x 1650 x 1450
	700	595,6 / 764,7	6,45 / 4,47	95	4320 x 1650 x 1450
	770	646,6 / 835,9	6,60 / 4,37	95	4560 x 1650 x 1450
P. 516	860	715,5 / 923,0	6,40 / 4,39	98	5110 x 1680 x 1520
	920	772,0 / 992,7	6,50 / 4,44	98	5110 x 1680 x 1520
	990	828,1 / 1063,0	6,40 / 4,49	98	5100 x 1680 x 1520
	1070	891,5 / 1146,0	6,40 / 4,45	98	5100 x 1680 x 1520
	1130	958,8 / 1231,8	6,50 / 4,45	98	5000 x 1680 x 1520
	1220	1023,8 / 1315,8	6,48 / 4,41	98	5000 x 1680 x 1520
	1280	1078,2 / 1386,1	6,48 / 4,37	98	5000 x 1680 x 1520
	1400	1186,9 / 1523,8	6,50 / 4,45	98	5300 x 1710 x 1580
	1550	1285,5 / 1654,6	6,70 / 4,38	98	5300 x 1710 x 1580

Quick selection guide - Water cooled condenserless units

Page	Size	Cooling capacity (kW)	Sound power (dB(A))	Dimension L x W x H (mm)
ECOi-W WQ R	20	18,3	65	821 x 1350 x 455
	25	22,7	67	821 x 1350 x 455
	30	27,1	67	821 x 1350 x 455
	35	30,0	68	821 x 1350 x 455
	40	34,2	68	821 x 1350 x 455
	45	43,1	70	821 x 1350 x 455
	50	45,0	70	1210 x 1500 x 850
P. 512	60	53,4	70	1210 x 1500 x 850
	75	67,5	72	1210 x 1500 x 850
	90	80,1	73	1210 x 1500 x 850
	120	104,0	78	1210 x 1500 x 850
	150	128,0	81	1210 x 1500 x 850
	170	148,0	81	1210 x 1500 x 850
	190	168,0	81	1210 x 1500 x 850
	524	130,0	81	2250 x 1845 x 850
	604	155,3	82	2250 x 1845 x 850
	704	177,6	85	2250 x 1845 x 850
	804	196,5	87	2250 x 1845 x 850
P. 514	904	224,2	89	2250 x 1845 x 850
	1004	247,2	90	2250 x 1845 x 850
	1104	285,9	90	2250 x 1845 x 850
	1204	316,1	90	2250 x 1845 x 850
	1404	368,0	92	2250 x 1845 x 850
	1604	397,0	94	2250 x 1845 x 850
ECOi-W WSW-N EVO R	440	358,6	95	4590 x 1650 x 1450
	490	405,3	95	4590 x 1650 x 1450
	570	472,7	95	4630 x 1650 x 1450
	630	535,6	95	4630 x 1650 x 1450
	700	586,2	95	4320 x 1650 x 1450
	770	638,1	95	4560 x 1650 x 1450
	860	708,9	98	5110 x 1680 x 1520
P. 516	920	758,1	98	5110 x 1680 x 1520
	990	817,2	98	5100 x 1680 x 1520
	1070	886,2	98	5100 x 1680 x 1520
	1130	947,7	98	5000 x 1680 x 1520
	1220	1015,0	98	5000 x 1680 x 1520
	1280	1075,9	98	5000 x 1680 x 1520
	1400	1181,4	98	5300 x 1710 x 1580
	1550	1277,8	98	5300 x 1710 x 1580

ECOi-W WQ 20-190 C/H/R · R410A

Water cooled chillers, heat pumps and condenserless units.

Cooling capacity: 21,2 to 192,7 kW.
Heating capacity: 23,7 to 212,3 kW.

The range at a glance

- 3 versions: C (chiller), H (heat pump) and R (condenserless unit)
- 14 sizes
- 2 acoustic options: STD (standard) and S (super low noise)
- 2 frames: F1 (size from 20 to 45) and F2 (size from 50 to 190)

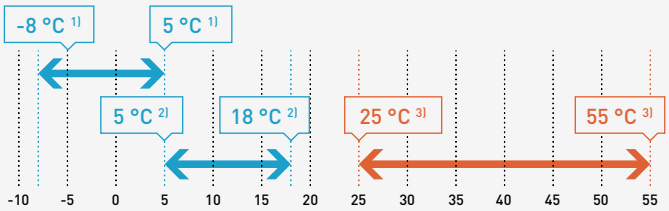
Advantages

- High full load efficiency: EER up to 4,50, COP up to 3,90
- High seasonal performances: SEER up to 6,70
- Compressor box: remarkable sound reduction
- Reduced refrigerant charge: less than 10 kg per circuit for units up to size 90
- Advanced electronic controller: auto-adaptive function to reduce water content in the piping system
- Condensing pressure control option suitable for well application
- Wide range of Plug & Play hydrokit: easy hydraulic installation
- DHW function available on the controller with DHW probe and 3 way valve available as options
- Desuperheater heat exchanger available as option (50-190 sizes)

Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Leaving water temperature.



1) With glycol + EEV.
2) Without glycol + EEV.
3) Only C/H types 20-190.
Note: maximum % glycol (ethylenic or propilenic): 40%.

Equipment

- 1 refrigerant circuit
- 1 or 2 scroll compressors
- Plate evaporator (AISI 316)
- Compressor acoustic box (standard on S)
- Differential pressure switch
- Electronic expansion valve (standard C type 170-190)
- Phase sequence control

ECOi-W WQ 20-190 C/H/R				
Cooling	Leaving water temperature	ΔT	K	From 3 to 8
Heating [1]	Leaving water temperature	ΔT	K	From 3 to 15

1) Only C/H types 20-190.

Accessories and options
Compressor jackets
Desuperheater available for sizes 50-190
Hydrokit with 1 or 2 pumps for evaporator and condenser
Mechanical gauges kit
Modbus communication protocol
Power factor corrector capacitors
Soft starter

Accessories supplied loose	
P-348089	Valves in - out for sizes 20-45
P-376463	Sequencer for up to 4 chillers installation
P-348682	Water temperature sensor for second set-point zone
P-347940	Remote ON / OFF control
P-348684	Remote keyboard panel
P-365581	Flow switch (operational only on the evaporator side
P-473465	Pressure switch

Accessories supplied loose	
P-348612	Water filter for sizes 20-45
P-348615	Water filter for sizes 50-120
P-348619	Water filter for sizes 150-190
P-348144	3 way valve for DHW production - ON / OFF - DN 20 for sizes 20-45
P-348145	3 way valve for DHW production - ON / OFF - DN 20 for sizes 50-90
P-348143	3 way valve for DHW production - ON / OFF - DN 20 for sizes 120-190

Technical performance

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Size			**20**	**25**	**30**	**35**	**40**	**45**	**50**	**60**	**75**	**90**	**120**	**150**	**170**	**190**
ECOi-W WQ 20-190 C - chiller	**P-WQE****CA**		**0020**	**0025**	**0030**	**0035**	**0040**	**0045**	**0050**	**0060**	**0075**	**0090**	**0120**	**0150**	**0170**	**0190**
Cooling capacity [1]		kW	21,2	26,2	31,1	34,8	39,2	46,6	50,9	61,1	77,3	91,1	118,4	147,1	170,0	192,7
Input power [1]		kW	4,56	5,67	6,84	7,54	8,60	10,1	11,7	13,5	17,1	20,7	26,5	33,0	37,7	42,8
EER [1]			4,67	4,65	4,57	4,64	4,58	4,65	4,35	4,53	4,52	4,40	4,48	4,47	4,51	4,51
SEER [2] [3]			**5,58**	**5,6**	**5,45**	**5,5**	**5,35**	**5,83**	**6,13**	**6,38**	**5,95**	**6,7**	**5,90**	**6,13**	**6,08**	**6,2**
$\eta_{s,c}$ [2] [3]			**220**	**221**	**215**	**217**	**211**	**230**	**242**	**252**	**235**	**265**	**233**	**242**	**240**	**245**
Sound power (STD / S) [4]		dB(A)	65 / 62	67 / 64	67 / 64	68 / 65	68 / 66	70 / 67	70 / 68	70 / 68	72 / 70	73 / 71	78 / 76	81 / 79	81 / 79	81 / 79
Sound pressure at 10 m (STD / S) [5]		dB(A)	34 / 31	36 / 33	36 / 33	37 / 34	38 / 35	39 / 36	39 / 37	39 / 37	40 / 39	42 / 40	47 / 45	50 / 48	50 / 48	50 / 48
ECOi-W WQ 20-190 H - heat pump	**P-WQE****HA**		**0020**	**0025**	**0030**	**0035**	**0040**	**0045**	**0050**	**0060**	**0075**	**0090**	**0120**	**0150**	**0170**	**0190**
Cooling capacity [1]		kW	20,8	26,1	30,2	34,1	38,3	45,7	50,1	59,1	76,3	88,9	115,0	145,0	166,0	186,0
Input power [1]		kW	4,61	5,71	6,90	7,68	8,69	10,20	11,80	13,70	17,20	20,90	26,70	33,10	38,00	43,20
EER [1]			4,52	4,56	4,37	4,44	4,41	4,46	4,23	4,31	4,42	4,25	4,31	4,36	4,37	4,30
SEER [2]			**5,13**	**5,00**	**4,88**	**5,10**	**5,00**	**5,48**	**4,48**	**4,83**	**4,70**	**4,88**	**4,93**	**4,98**	**5,65**	**5,10**
$\eta_{s,c}$ [2]			**202**	**197**	**192**	**201**	**197**	**216**	**185**	**192**	**176**	**190**	**194**	**196**	**223**	**201**
Heating capacity [6]		kW	23,8	29,0	33,9	38,6	43,1	51,2	58,6	65,8	87,5	103,0	134,0	167,0	193,0	215,0
Input power [6]		kW	6,26	7,81	9,32	10,90	12,10	14,20	15,50	17,90	22,00	26,30	33,70	41,60	48,50	54,10
COP [6]			3,80	3,72	3,64	3,54	3,57	3,61	3,79	3,67	3,97	3,93	3,97	4,01	3,97	3,98
COP [7]			5,66	5,62	5,58	5,60	5,52	5,24	5,32	5,12	5,43	5,23	5,29	5,38	5,33	5,33
SCOP [8] [9]			**5,17**	**5,45**	**5,33**	**5,05**	**4,83**	**5,28**	**5,70**	**5,88**	**5,70**	**5,78**	**5,75**	**5,63**	**5,95**	**5,63**
Energy efficiency class [8] [9]		**A+++ to D**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**—**	**—**	**—**	**—**	**—**	**—**
$\eta_{s,h}$ [8] [9]			**204**	**210**	**205**	**194**	**185**	**203**	**220**	**227**	**220**	**223**	**222**	**217**	**230**	**217**
SCOP [8] [10]			**4,00**	**4,48**	**4,45**	**4,30**	**4,28**	**4,45**	**4,63**	**4,78**	**4,75**	**4,75**	**4,73**	**4,48**	**4,88**	**4,68**
Energy efficiency class [8] [10]		**A+++ to D**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**A+++**	**—**	**—**	**—**	**—**	**—**	**—**
$\eta_{s,h}$ [8] [10]			**152**	**171**	**170**	**164**	**163**	**170**	**177**	**183**	**182**	**182**	**181**	**171**	**187**	**179**
Sound power (STD / S) [4]		dB(A)	65 / 62	67 / 64	67 / 64	68 / 65	69 / 66	70 / 67	70 / 68	70 / 68	72 / 70	73 / 71	78 / 76	81 / 79	81 / 79	81 / 79
Sound pressure at 10 m (STD / S) [5]		dB(A)	34 / 31	36 / 33	36 / 33	37 / 34	38 / 35	39 / 36	39 / 37	39 / 37	40 / 39	42 / 40	47 / 45	50 / 48	50 / 48	50 / 48
ECOi-W WQ 20-190 R - condenserless unit	**P-WQE****RA**		**0020**	**0025**	**0030**	**0035**	**0040**	**0045**	**0050**	**0060**	**0075**	**0090**	**0120**	**0150**	**0170**	**0190**
Cooling capacity [11]		kW	18,3	22,7	27,1	30,0	34,2	43,1	45,0	53,4	67,5	80,1	104,0	128,0	148,0	168,0
Input power [11]		kW	5,70	6,97	8,07	9,15	10,1	12,2	13,7	16	20,1	23,9	30,8	38,1	44,2	49,7
Sound power (STD / S) [4]		dB(A)	65/62	67 / 64	67 / 64	68 / 65	69 / 66	70 / 67	70 / 68	70 / 68	72 / 70	73 / 71	78 / 76	81 / 79	81 / 79	81 / 79
Sound pressure at 10 m (STD / S) [5]		dB(A)	34/31	36 / 33	36 / 33	37 / 34	38 / 35	39 / 36	39 / 37	39 / 37	41 / 39	42 / 40	47 / 45	50 / 48	50 / 48	50 / 48

Physical features

ECOi-W WQ 20-190 C/H - chiller / heat pump			**20**	**25**	**30**	**35**	**40**	**45**	**50**	**60**	**75**	**90**	**120**	**150**	**170**	**190**
Dimension	Height	mm	1350	1350	1350	1350	1350	1350	1500	1500	1500	1500	1500	1500	1500	1500
	Width	mm	455	455	455	455	455	455	850	850	850	850	850	850	850	850
	Length	mm	821	821	821	821	821	821	1210	1210	1210	1210	1210	1210	1210	1210
Operating weight	Chiller	kg	162	182	179	185	191	214	352	371	392	411	597	666	701	745
	Heat pump	kg	165	187	184	190	195	219	360	379	403	422	610	683	718	762
Water connections (evaporator and condenser)																
Connection type			Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½
ECOi-W WQ 20-190 R - condenserless unit			**20**	**25**	**30**	**35**	**40**	**45**	**50**	**60**	**75**	**90**	**120**	**150**	**170**	**190**
Dimension	Height	mm	1350	1350	1350	1350	1350	1350	1500	1500	1500	1500	1500	1500	1500	1500
	Width	mm	455	455	455	455	455	455	850	850	850	850	850	850	850	850
	Length	mm	821	821	821	821	821	821	1210	1210	1210	1210	1210	1210	1210	1210
Operating weight		kg	144	164	166	166	172	172	332	344	365	376	558	612	643	674
Water connections (evaporator)																
Connection type			Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	1 ½	1 ½	1 ½	1 ½	1 ½	1 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½	2 ½
Remote condenser refrigerant connections																
Connection type			To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed
Inlet diameter		Inch	⅝	⅝	⅝	⅝	⅝	⅝	⅝	⅝	⅞	⅞	⅞	⅞	1 ⅛	1 ⅛
Outlet diameter		Inch	⅝	⅞	⅞	⅞	⅞	⅞	⅞	⅞	1 ⅛	1 ⅛	1 ⅜	1 ⅝	1 ⅝	1 ⅝

1) According to EN 14511 standard: evaporator EWT/LWT 12 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 2) According to EN 14825 standard. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. These values are not Eurovent certified. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 6) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 40 °C/45 °C. 7) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 8) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 9) According to EN 14825 standard - low temperature application (35 °C). 10) According to EN 14825 standard - medium temperature application (55 °C). 11) Data refers to evaporator water temperature 12/7 °C and condensing temperature 50 °C.

ErP | HIGH SEER 6,70 | HIGH SCOP 5,88 | WATER COOLED | PLATE HEAT EXCHANGER | SCROLL COMPRESSOR | SUPER QUIET | VERY HIGH PERFORMANCE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

ECOi-W WQ 524-1604 C/H/R · R410A

Water cooled chillers, heat pumps and condenserless units.

Cooling capacity: 154,3 to 459,8 kW.
Heating capacity: 170,2 to 508,4 kW.

The range at a glance

- 3 versions: C (chiller), H (heat pump) and R (condenserless unit)
- 10 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

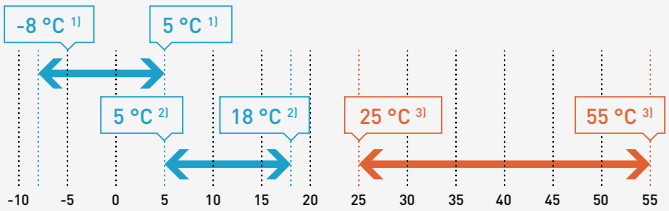
Advantages

- High full load efficiency: EER up to 4,50, COP up to 3,90
- High seasonal performances: SEER up to 6,50
- Advanced electronic controller: auto-adaptive function to reduce water content in the piping system
- Condensing pressure control option: suitable for well application
- Wide range of Plug & Play hydrokit: easy hydraulic installation
- Desuperheater heat exchanger available as option: heating capacity for free thanks to heat recovery

Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Leaving water temperature.



1) With glycol + EEV.
2) Without glycol + EEV.
3) Only C/H types 20-190.
Note: maximum % glycol (ethylenic or propilenic): 40%.

ECOi-W WQ 524-1604 C/H/R				
Cooling	Leaving water temperature	ΔT	K	From 3 to 8
Heating	Leaving water temperature	ΔT	K	From 3 to 15

Equipment

- 2 refrigerant circuits
- 4 scroll compressors (tandem)
- Plate evaporator (AISI 316)
- Differential pressure switch
- Electronic expansion valve (standard 1104-1604)
- Phase sequence control

Accessories and options
Desuperheater
Hydrokit with 1 or 2 pumps for evaporator and condenser
Mechanical gauges
Modbus communication protocol
Soft starter

Accessories supplied loose	
P-376463	Sequencer for up to 4 chillers installation
P-347941	Remote ON / OFF control
P-348684	Remote keyboard panel
P-365581	Flow switch (operational only on the evaporator side)
P-473465	Pressure switch
P-348619	Water filter for sizes 524-1204
P-348620	Water filter for sizes 1404-1604

AC SELECT.

Smart and user-friendly selection tool.

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Technical performance

Power supply	Voltage	V	400	400	400	400	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
Size			**524**	**604**	**704**	**804**	**904**	**1004**	**1104**	**1204**	**1404**	**1604**
ECOi-W WQ 524-1604 C - chiller		**P-**	**WQE0524CA**	**WQE0604CA**	**WQE0704CA**	**WQE0804CA**	**WQE0904CA**	**WQE1004CA**	**WQE1104CA**	**WQE1204CA**	**WQE1404CA**	**WQE1604CA**
Cooling capacity [1]		kW	154,3	181,8	208,9	232,6	265,8	295,6	338,0	379,2	421,1	459,8
Input power [1]		kW	34,9	42,4	48,4	54,4	60,5	69,0	76,4	85,2	97,0	109,0
EER [1]			4,42	4,28	4,31	4,27	4,39	4,28	4,42	4,45	4,34	4,19
SEER [2] [3]			**5,55**	**6,28**	**6,1**	**5,75**	**6,1**	**6,1**	**6,2**	**6,25**	**6,43**	**6,47**
$\eta_{s,c}$ [2] [3]			**219**	**248**	**241**	**227**	**241**	**241**	**245**	**247**	**254**	**256**
Sound power (STD / S) [4]		dB(A)	81 / 75	82 / 76	85 / 79	87 / 81	89 / 83	90 / 84	90 / 84	90 / 84	92 / 86	94 / 88
Sound pressure at 10 m (STD / S) [5]		dB(A)	49 / 43	50 / 44	53 / 47	55 / 49	57 / 51	58 / 52	58 / 52	58 / 52	60 / 54	62 / 56
ECOi-W WQ 524-1604 H - heat pump		**P-**	**WQE0524HA**	**WQE0604HA**	**WQE0704HA**	**WQE0804HA**	**WQE0904HA**	**WQE1004HA**	**WQE1104HA**	**WQE1204HA**	**WQE1404HA**	**WQE1604HA**
Cooling capacity [1]		kW	151,0	177,0	205,0	226,0	264,0	292,0	333,0	371,0	421,0	460,0
Input power [1]		kW	35,60	43,60	49,40	55,50	61,00	67,70	77,70	86,90	97,00	109,00
EER [1]			4,24	4,05	4,15	4,07	4,32	4,31	4,28	4,27	4,35	4,22
SEER [2]			**4,65**	**4,93**	**4,93**	**4,68**	**5,15**	**5,10**	**5,28**	**5,30**	**6,43**	**6,47**
$\eta_{s,c}$ [2]			**183**	**194**	**194**	**184**	**203**	**201**	**208**	**209**	**254**	**256**
Heating capacity [6]		kW	172,0	203,0	234,0	259,0	298,0	333,0	379,0	422,0	471,0	508,0
Input power [6]		kW	44,20	53,70	60,00	68,40	77,50	84,10	95,70	106,00	122,00	132,00
COP [6]			3,89	3,78	3,90	3,79	3,85	3,96	3,97	3,97	3,85	3,85
COP [7]			5,36	5,08	5,25	5,11	5,33	5,44	5,30	5,30	5,08	4,99
SCOP [8] [9]			**5,40**	**5,20**	**5,38**	**5,35**	**5,73**	**5,85**	**5,83**	**5,85**	**—**	**—**
$\eta_{s,h}$ [8] [9]			**208**	**200**	**207**	**206**	**221**	**226**	**225**	**226**	**—**	**—**
SCOP [8] [10]			**4,55**	**4,38**	**4,48**	**4,43**	**4,53**	**4,58**	**4,60**	**4,60**	**—**	**—**
$\eta_{s,h}$ [8] [10]			**174**	**167**	**171**	**169**	**173**	**175**	**176**	**176**	**—**	**—**
Sound power (STD / S) [4]		dB(A)	81 / 75	82 / 76	85 / 79	87 / 81	89 / 83	90 / 84	90 / 84	90 / 84	92 / 86	94 / 88
Sound pressure at 10 m (STD / S) [5]		dB(A)	49 / 43	50 / 44	53 / 47	55 / 49	57 / 51	58 / 52	58 / 52	58 / 52	60 / 54	62 / 56
ECOi-W WQ 524-1604 R - condenserless unit		**P-**	**WQE0524RA**	**WQE0604RA**	**WQE0704RA**	**WQE0804RA**	**WQE0904RA**	**WQE1004RA**	**WQE1104RA**	**WQE1204RA**	**WQE1404RA**	**WQE1604RA**
Cooling capacity [11]		kW	130,0	155,3	177,6	196,5	224,2	247,2	285,9	316,1	368,0	397,0
Input power [11]		kW	43,2	51,5	59,5	66,4	74,8	83	95	106	120	134
Sound power (STD / S) [4]		dB(A)	81 / 75	82 / 76	85 / 79	87 / 81	89 / 83	90 / 84	90 / 84	90 / 84	92 / 86	94 / 88
Sound pressure at 10 m (STD / S) [5]		dB(A)	49 / 43	50 / 44	53 / 47	55 / 49	57 / 51	58 / 52	58 / 52	58 / 52	60 / 54	62 / 56

Physical features

ECOi-W WQ 524-1604 C/H/R - chiller / heat pump / condenserless unit			**524**	**604**	**704**	**804**	**904**	**1004**	**1104**	**1204**	**1404**	**1604**
Dimension	Height	mm	1845 [12] / 1880 [13]	1845 [12] / 1880 [13]	1845 [12] / 1880 [13]	1845 [12] / 1880 [13]	1845 [12] / 1880 [13]	1845 [12] / 1880 [13]	1845 [12] / 1880 [13]	1845 [12] / 1880 [13]	1845 [12] / 1880 [13]	1845 [12] / 1880 [13]
	Width	mm	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]	850 [12] / 854 [13] / 885 [12] [14] - 1005 [13] [14]
	Length	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
Operating weight - chiller	STD	kg	890	971	1156	1329	1340	1453	1552	1660	1743	1798
	S	kg	993	1074	1259	1432	1443	1556	1655	1763	1846	1901
Operating weight - heat pump	STD	kg	909	989	1187	1360	1376	1500	1598	1704	1787	1842
	S	kg	1012	1092	1290	1463	1479	1603	1701	1807	1890	1945
Operating weight - condenserless unit	STD	kg	770	812	988	1163	1188	1241	1328	1388	1463	1502
	S	kg	873	915	1091	1266	1291	1344	1431	1491	1566	1605
Water connections												
Connection type			Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	2 ½	2 ½	2 ½	2 ½	4	4	4	4	4	4
ECOi-W WQ 524-1604 R - condenserless unit			**524**	**604**	**704**	**804**	**904**	**1004**	**1104**	**1204**	**1404**	**1604**
Remote condenser refrigerant connections												
Connection type			To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed
Inlet diameter		Inch	⅞	⅞	1 ⅛	1 ⅛	1 ⅛	1 ⅛	1 ⅛	1 ⅛	1 ⅛	1 ⅛
Outlet diameter		Inch	1 ⅛	1 ⅛	1 ⅜	1 ⅜	1 ⅝	1 ⅝	1 ⅝	1 ⅝	1 ⅝	1 ⅝

1) According to EN 14511 standard: evaporator EWT/LWT 12 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 2) According to EN 14825 standard. 3) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281. 4) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. These values are not Eurovent certified. 5) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 6) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 40 °C/45 °C. 7) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 8) ErP compliant: following COMMISSION REGULATION (EU) No 813/2013. 9) According to EN 14825 standard - low temperature application (35 °C). 10) According to EN 14825 standard - medium temperature application (55 °C). 11) Data refers to evaporator water temperature 12/7 °C and condensing temperature 50 °C. 12) Standard version. 13) S version. 14) Only for handling.

ErP | HIGH SEER 6,47 | HIGH SCOP 5,85 | WATER COOLED | PLATE HEAT EXCHANGER | SCROLL COMPRESSOR | VERY HIGH PERFORMANCE

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ECOi-W WSW-N EVO 440-1550 C/H/R · R513A

Water cooled chillers, heat pumps and condenserless units.

Cooling capacity: 410 to 1460 kW.
Heating capacity: 470 to 1650 kW.

The range at a glance

- 3 versions: C (chiller), H (heat pump) and R (condenserless unit)
- 15 sizes
- 2 acoustic options: STD (standard) and S (super low noise)

Advantages

- High full load performances: EER up to 4,90
- High seasonal performances: SEER up to 6,70
- Compressor optimization (high / low pressure ratio), according application: Maximum benefit in terms of efficiency design
- Electronic expansion device: excellent control of superheating for the best performance at full and partial load and for a safe operation
- New generation of pure counter-current shell and tube evaporators and condensers: maximum efficiency and new levels of competitiveness
- Control platform: modular architecture, compressor envelope integration, corrective actions in border line areas, easy-friendly user interface

Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

ECOi-W WSW-N EVO 440-1550 C - chiller				
Evaporator	Leaving water temperature	Water	°C	From 5 to 15
		Water + glycol	°C	From 0 to 5
		Brine	°C	From -8 to 0
		ΔT	K	From 3 to 7
Condenser	Leaving water temperature		°C	From 25 to 45
ECOi-W WSW-N EVO 440-1550 H - heat pump				
Evaporator	Leaving water temperature	Water	°C	From 5 to 15
		Water + glycol	°C	From -8 to 5
		ΔT	K	From 3 to 7
Condenser	Leaving water temperature		°C	From 25 to 60
ECOi-W WSW-N EVO 440-1550 R - condenserless unit				
Evaporator	Leaving water temperature	Water	°C	From 5 to 15
		Water + glycol	°C	From -8 to 5
		ΔT	K	From 3 to 7
Condenser	Condensing temperature		°C	From 30 to 63

Equipment

- 1 or 2 refrigerant circuit(s)
- Twin-screw compressors
- Shell and tube evaporator and condenser
- Electronic expansion valve
- Compressor acoustic box (standard for S version)
- Phase sequence control

Accessories and options
Automatic circuit breaker
Compressor stepless control
Mechanical gauges
Power factor corrector capacitors
Several communication protocols
Soft starter

Accessories supplied loose	
P-376463	Sequencer for up to 4 chillers installation
P-347941	Remote ON / OFF control
P-364735	Remote keyboard panel
P-365581	Flow switch

Accessories supplied loose	
P-348620	Water filter for sizes 440-490
P-348618	Water filter for sizes 570-770
P-362589	Water filter for sizes 860-1550

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Technical performance

Power supply	Voltage	V	400
	Phase		Three phase
	Frequency	Hz	50

Size		440	490	570	630	700	770
ECOi-W WSW-N EVO 440-770 C - chiller		**P-WSWVN0440CA**	**P-WSWVN0490CA**	**P-WSWVN0570CA**	**P-WSWVN0630CA**	**P-WSWVN0700CA**	**P-WSWVN0770CA**
Cooling capacity [1]	kW	418,6	471,6	539,3	601,9	664,4	734,6
Input power [1]	kW	88,1	101,1	115,1	127,5	144	158,7
Total heat rejection [1]	kW	506,7	572,7	654,3	729,4	808,4	893,4
EER [1]		4,75	4,67	4,69	4,72	4,61	4,63
SEER [2]		**6,38**	**6,38**	**6,52**	**6,42**	**6,38**	**6,38**
$\eta_{s,c}$ [2]		**252**	**252**	**258**	**254**	**252**	**252**
Sound power STD / S [3]	dB(A)	95 / 85	95 / 85	95 / 85	95 / 85	95 / 85	95 / 85
Sound pressure at 1 m STD / S [4]	dB(A)	76 / 66	76 / 66	76 / 66	76 / 66	76 / 66	76 / 66

Size		860	920	990	1070	1130	1220	1280	1400	1550
ECOi-W WSW-N EVO 860-1550 C - chiller	**P-**	**WSWVN0860CA**	**WSWVN0920CA**	**WSWVN0990CA**	**WSWVN1070CA**	**WSWVN1130CA**	**WSWVN1220CA**	**WSWVN1280CA**	**WSWVN1400CA**	**WSWVN1550CA**
Cooling capacity [1]	kW	825	874,1	936,6	1019,1	1071,8	1159,3	1226,1	1334,6	1457,9
Input power [1]	kW	177,2	190,3	201,4	215,7	228,1	243,8	257,9	286,3	319
Total heat rejection [1]	kW	1002,2	1064,3	1137,9	1234,7	1299,8	1403,0	1484,0	1620,9	1776,9
EER [1]		4,66	4,59	4,65	4,73	4,70	4,76	4,75	4,66	4,57
SEER [2]		**6,41**	**6,41**	**6,41**	**6,42**	**6,53**	**6,51**	**6,44**	**6,45**	**6,42**
$\eta_{s,c}$ [2]		**254**	**253**	**254**	**254**	**258**	**257**	**254**	**255**	**254**
Sound power STD / S [2]	dB(A)	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89
Sound pressure at 1 m STD / S [3]	dB(A)	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70

ECOi-W WSW-N EVO 440-770 H - heat pump		**P-WSWVN0440HA**	**P-WSWVN0490HA**	**P-WSWVN0570HA**	**P-WSWVN0630HA**	**P-WSWVN0700HA**	**P-WSWVN0770HA**
Cooling capacity [1]	kW	419	479	547	612	673	731
Input power [1]	kW	86,5	98	115	132	147	156
EER [1]		4,85	4,89	4,75	4,64	4,58	4,69
Cooling capacity [5]	kW	365,9	418,9	483,2	541	595,6	646,6
Input power [5]	kW	105,2	118,8	141,3	162,1	171,2	191,3
EER [5]		3,48	3,53	3,42	3,34	3,48	3,38
SEER [2]		**6,53**	**6,38**	**6,4**	**6,38**	**6,45**	**6,6**
$\eta_{s,c}$ [2]		**258**	**252**	**253**	**252**	**255**	**261**
Heating capacity [1]	kW	504	576	661	742	813	887
COP [1]		5,83	5,88	5,74	5,62	5,53	5,68
Heating capacity [5]	kW	470,3	536,5	621,7	698,6	764,7	835,9
COP [5]		4,46	4,52	4,4	4,31	4,47	4,37
Sound power STD / S [3]	dB(A)	95 / 85	95 / 85	95 / 85	95 / 85	95 / 85	95 / 85
Sound pressure at 1 m STD / S [4]	dB(A)	76 / 66	76 / 66	76 / 66	76 / 66	76 / 66	76 / 66

ECOi-W WSW-N EVO 860-1550 H - heat pump	**P-**	**WSWVN0860HA**	**WSWVN0920HA**	**WSWVN0990HA**	**WSWVN1070HA**	**WSWVN1130HA**	**WSWVN1220HA**	**WSWVN1280HA**	**WSWVN1400HA**	**WSWVN1550HA**
Cooling capacity [1]	kW	818	882	946	1013	1083	1156	1217	1340	1451
Input power [1]	kW	170	183	195	211	227	242	257	297	306
EER [1]		4,81	4,83	4,85	4,80	4,78	4,78	4,74	4,52	4,74
Cooling capacity [5]	kW	715,5	772	828,1	891,5	958,8	1023,8	1078,2	1186,9	1285,5
Input power [5]	kW	210,1	223,4	236,7	257,3	277	298,6	317,4	342,7	377,4
EER [5]		3,41	3,46	3,5	3,46	3,46	3,43	3,4	3,46	3,41
SEER [2]		**6,4**	**6,5**	**6,4**	**6,4**	**6,5**	**6,48**	**6,48**	**6,5**	**6,7**
$\eta_{s,c}$ [2]		**253**	**257**	**253**	**253**	**257**	**256**	**256**	**257**	**265**
Heating capacity [1]	kW	987	1064	1141	1222	1308	1396	1470	1619	1754
COP [1]		5,8	5,83	5,85	5,8	5,77	5,77	5,73	5,46	5,73
Heating capacity [5]	kW	923	992,7	1063	1146	1231,8	1315,8	1386,1	1523,8	1654,6
COP [5]		4,39	4,44	4,49	4,45	4,45	4,41	4,37	4,45	4,38
Sound power STD / S [3]	dB(A)	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89
Sound pressure at 1 m STD / S [4]	dB(A)	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70

ECOi-W WSW-N EVO 440-770 R - condenserless unit		**P-WSWVN0440RA**	**P-WSWVN0490RA**	**P-WSWVN0570RA**	**P-WSWVN0630RA**	**P-WSWVN0700RA**	**P-WSWVN0770RA**
Cooling capacity [6]	kW	358,6	405,3	472,7	535,6	586,2	638,1
Input power [6]	kW	106,9	120,2	143,4	161,4	174,9	192,6
Total heat rejection [6]		465,8	525,8	614,6	694	760,9	828,8
Sound power STD / S [3]	dB(A)	95 / 85	95 / 85	95 / 85	95 / 85	95 / 85	95 / 85
Sound pressure at 1 m STD / S [4]	dB(A)	76 / 66	76 / 66	76 / 66	76 / 66	76 / 66	76 / 66

ECOi-W WSW-N EVO 860-1550 R - condenserless unit	**P-**	**WSWVN0860RA**	**WSWVN0920RA**	**WSWVN0990RA**	**WSWVN1070RA**	**WSWVN1130RA**	**WSWVN1220RA**	**WSWVN1280RA**	**WSWVN1400RA**	**WSWVN1550RA**
Cooling capacity [6]	kW	708,9	758,1	817,2	886,2	947,7	1015,0	1075,9	1181,4	1277,8
Input power [6]	kW	213,7	226,9	240,7	263,1	284	306,3	325,4	348,4	384,4
Total heat rejection [6]		922,3	984,7	1057,4	1147,9	1230,6	1316,3	1395,1	1527,5	1657,7
Sound power STD / S [3]	dB(A)	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89	98 / 89
Sound pressure at 1 m STD / S [4]	dB(A)	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70	79 / 70

1) According to EN 14511 standard: evaporator EWT/LWT 12 °C/7 °C, condenser EWT/LWT 30 °C/35 °C. 2) ErP compliant: following COMMISSION REGULATION (EU) 2016/2281 and according to EN 14825 standard. 3) Sound levels are at fully loaded conditions. Sound power values refers to ISO 3744 standard. 4) Sound pressures refer to ISO 3744 standard, parallelepiped shape. 5) According to EN 14511 standard: evaporator EWT/LWT 10 °C/7 °C, condenser EWT/LWT 40 °C/45 °C. 6) Conditions: evaporator EWT/LWT 12 °C/7 °C, condensing Temperature 49 °C.

ErP ✔ | HIGH SEER 6,70 | HIGH COP 4,52 | WATER COOLED | SHELL AND TUBE EVAPORATOR | SCREW COMPRESSOR | VERY HIGH PERFORMANCE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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Physical features

ECOi-W WSW-N EVO 440-770 C - chiller			440	490	570	630	700	770
Dimension	Height	mm	1650	1650	1650	1650	1650	1650
	Height S	mm	1750	1750	1750	1750	1750	1750
	Width	mm	1350	1350	1350	1350	1350	1350
	Length	mm	4250	4250	4210	4210	4180	4180
Operating weight	STD	kg	2690	2700	2875	3003	3472	3521
	S	kg	2884	2894	3069	3197	3666	3715
Water connections								
Connection type	Evaporator		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	6	6	6	6	8	8
Connection type	Condenser		Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Inlet/outlet diameter		Inch	4	4	5	5	5	5

ECOi-W WSW-N EVO 860-1550 C - chiller			860	920	990	1070	1130	1220	1280	1400	1550
Dimension	Height	mm	1710	1710	1710	1710	1710	1710	1710	1710	1710
	Height S	mm	1780	1780	1780	1780	1780	1780	1780	1780	1780
	Width	mm	1520	1520	1520	1520	1520	1520	1520	1520	1520
	Length	mm	4510	4510	4600	4650	4650	4650	4650	5350	5350
	Length S	mm	4510	4510	4690	4690	4690	4690	4690	5400	5400
Operating weight	STD	kg	5000	5010	5642	5818	6012	6077	6124	6698	6752
	S	kg	5388	5398	6030	6206	6400	6465	6512	7086	7140
Water connections											
Connection type	Evaporator		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	8	8	10	10	10	10	10	10	10
Connection type	Condenser		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter	Condenser	Inch	4 / 4	4 / 4	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5

ECOi-W WSW-N EVO 440-770 H - heat pump			440	490	570	630	700	770
Dimension	Height	mm	1650	1650	1650	1650	1650	1650
	Height S	mm	1750	1750	1750	1750	1750	1750
	Width	mm	1450	1450	1450	1450	1450	1450
	Length	mm	4590	4590	4630	4630	4320	4560
Operating weight	STD	kg	3055	3186	3277	3197	4027	3824
	S	kg	3249	3380	3471	3491	4221	4017
Water connections								
Connection type	Evaporator		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	6	6	6	6	8	8
Connection type	Condenser		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	4	4	5	5	5	5

ECOi-W WSW-N EVO 860-1550 H - heat pump			860	920	990	1070	1130	1220	1280	1400	1550
Dimension	Height	mm	1680	1680	1680	1680	1680	1680	1680	1710	1710
	Height S	mm	1780	1780	1780	1780	1780	1780	1780	1780	1780
	Width	mm	1520	1520	1520	1520	1520	1520	1520	1580	1580
	Length	mm	5110	5110	5100	5100	5000	5000	5000	5300	5300
	Length S	mm	5130	5130	5120	5120	5020	5020	5020	5320	5320
Operating weight	STD	kg	5818	5841	6119	6545	6768	6807	6844	7991	8071
	S	kg	6205	6229	6506	6932	7155	7194	7232	8378	8458
Water connections											
Connection type	Evaporator		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	8	8	10	10	10	10	10	10	10
Connection type	Condenser		Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	4 / 4	4 / 4	4 / 4	4 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5

Physical features

ECOi-W WSW-N EVO 440-770 R - condenserless unit			440	490	570	630	700	770
Dimension	Height	mm	1650	1650	1650	1650	1650	1650
	Height S	mm	1750	1750	1750	1750	1750	1750
	Width	mm	1350	1350	1350	1350	1350	1350
	Length	mm	3620	3620	4210	4210	4180	4180
Operating weight	STD	kg	2302	2312	2456	2476	2952	2992
	S	kg	2496	2506	2650	2670	3146	3186
Water connections (evaporator)								
Connection type			Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	6	6	6	6	8	8
Remote condenser refrigerant connections								
Connection type			To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed
Inlet diameter circuit 1		Inch	1 5/8	1 5/8	2 1/8	2 1/8	2 1/8	2 1/8
Outlet diameter circuit 1		Inch	3 1/8	3 1/8	3 5/8	3 5/8	4 1/8	4 1/8

ECOi-W WSW-N EVO 860-1550 R - condenserless unit			860	920	990	1070	1130	1220	1280	1400	1550
Dimension	Height	mm	1710	1710	1710	1710	1710	1710	1710	1710	1710
	Height S	mm	1770	1770	1770	1770	1770	1770	1770	1770	1770
	Width	mm	1520	1520	1520	1520	1520	1520	1520	1520	1520
	Length	mm	4400	4400	4600	4650	4650	4650	4650	5350	5350
	Length S	mm	4650	4650	4650	4650	4650	4650	4650	5400	5400
Operating weight	STD	kg	4804	4814	4998	5071	5131	5170	5190	5596	5676
	S	kg	5191	5201	5385	5458	5518	5557	5577	5983	6063
Water connections (evaporator)											
Connection type			Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®	Victaulic®
Inlet/outlet diameter		Inch	8	8	10	10	10	10	10	10	10
Remote condenser refrigerant connections											
Connection type			To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed	To be brazed
Inlet diameter circuit 1		Inch	1 5/8	1 5/8	1 5/8	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8
Outlet diameter circuit 1		Inch	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	4 1/8	4 1/8
Inlet diameter circuit 2		Inch	1 5/8	1 5/8	1 5/8	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8	2 1/8
Outlet diameter circuit 2		Inch	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	3 1/8	4 1/8	4 1/8

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Water source heat pumps

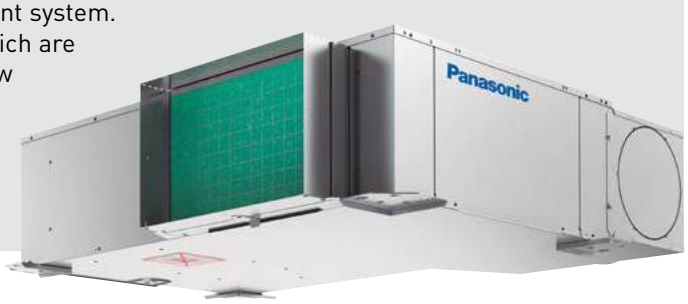
One building, different needs!

ECOi-LOOP water source heat pumps are ideal for best in class hotels, offices or shopping centers. This solution offers improved comfort by having several different indoor climates inside a building, while maintaining the energy through an internal closed water loop.

What is a water loop system with water source heat pumps?

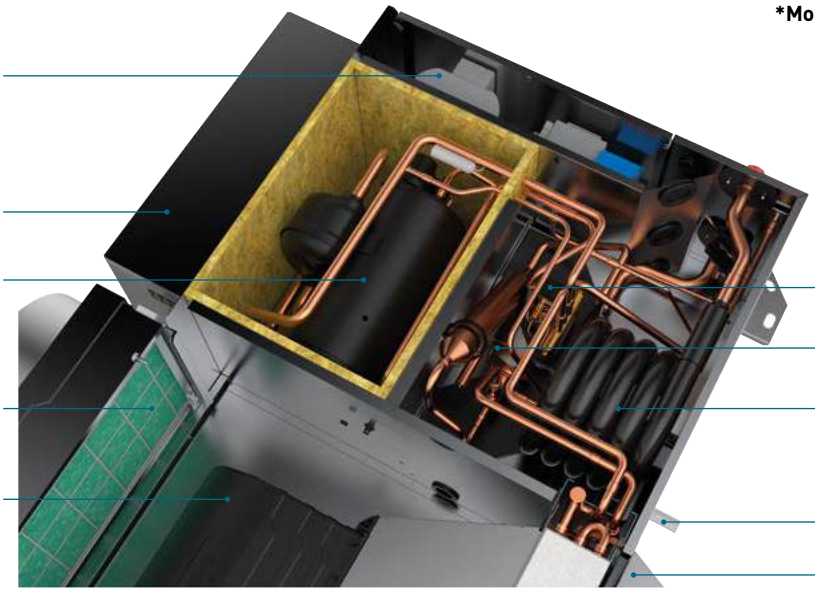
The water loop system enables distributed cooling and heating production at different temperatures with a single water circuit.

The recovery of condensation heat units in cooling can used for units in heating and vice-versa, thus providing a balanced and highly efficient system. These indoor units are called water source heat pumps which are equipped with a compressor and 2 heat exchangers to allow energy transfer between the water loop and air within the space.



High-performance technology

*Model shown: ECOi-LOOP-N EVO.



Key features for ECOi-LOOP.

- High-efficiency
- Heating and cooling of rooms at the same time. All units are connected to the same water loop
- Decentralised cool/heat production (closed water circuit)
- Water heater or cooling tower do not need to be operated as long as cooling and heating loads are roughly balanced. Temperature in the water loop will be kept between 16 and 32 °C
- Reduced refrigerant charge (no refrigerant pipes to an outdoor unit required)
- Low risk of leakage (hermetically sealed systems)
- Water source heat pumps can be easily added or removed without changing the system layout
- Each unit is autonomous and has its own controller allowing also its own safety

Quick selection guide - Water source heat pumps

Page	Size	Cooling and heating capacity (kW)	NR sound levels (at MS)	Nominal air flow [1] (m³/h)	Pressure (Pa)	Fan	Dimension LxWxH (mm)
ECOi-LOOP C/H · R410A	15	1,5 / 1,9	26	435	0-140	EC	900 x 530 x 250 [2]
P. 524	20	2,2 / 2,5	30	465	0-140	EC	900 x 530 x 250 [2]
	30	2,9 / 3,7	34	525	0-140	EC	900 x 530 x 250 [2]
ECOi-LOOP-N H · R513A	70	7,0 / 8,1	52	1727	0-495	EC	1142 x 762 x 516 [2]
P. 526	85	8,4 / 9,8	50	2165	0-495	EC	1142 x 762 x 516 [2]
	100	10,3 / 11,3	56	2826	0-335	EC	1333 x 818 x 580 [2]
	110	11,2 / 12,5	54	3078	0-250	EC	1333 x 818 x 580 [2]
	120	12,1 / 13,8	55	3309	0-350	EC	1333 x 818 x 580 [2]
	135	13,3 / 14,6	57	3677	0-260	EC	1333 x 818 x 580 [2]
ECOi-LOOP-N EVO C/H · R513A							
P. 528		2,9 / 3,8	25,8 [3]	525	0-140	EC	900 x 636 x 250 [2]

1) At high speed. 2) Without air inlet/outlet options. 3) At minimum thermal load.

Commercial Smart Edge.

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.

Model code	Control points	Indoor unit connections [1]
PAW-CSE-1B	100	4
PAW-CSE-2B	200	10
PAW-CSE-10	1000	50
PAW-CSE-20	2000	100

1) The final number of connected indoor units may vary depending on the range. *For the detail information, please contact an authorised Panasonic dealer.

COMPATIBLE WITH ENTIRE HVAC RANGE

SIMPLIFIED COMMISSIONING

OPTIMISED PLANT MANAGEMENT

ADVANCED ANALYTICS

P-SMART EDGE

P-Smart Edge*.
A powerful smart control platform designed for single-site installations, giving you seamless management of the complete Panasonic HVAC range.

P-Smart Nexus

P-Smart Nexus*.
An online multi-site control solution that provides remote, centralised supervision of all your locations worldwide.

*Edge controller box (PAW-CSE**) is required.

Page	Size	Cooling and heating capacity (kW)	NR sound levels (at MS)	Nominal air flow [1] (m³/h)	Pressure (Pa)	Fan	Dimension L x W x H (mm)
ECOi-LOOP HRW H · R407C **ECOi-LOOP HRWE H · R407C**	19	5,3 / 5,8	37	1250	>50	AC	900 x 600 x 439
	27	7,4 / 8,3	34	1190	>50	AC	1050 x 600 x 460
	27 HE	7,5 / 9,3	34	1180	>50	AC	1050 x 660 x 460
	30	8,7 / 9,8	35	1490	>100	AC	1050 x 660 x 460
	30 HE	8,9 / 10,0	35	1500	>100	AC	1050 x 660 x 460
	36	10,1 / 11,0	37	1580	>100	AC	1050 x 660 x 460
	36 HE	11,1 / 12,2	37	1580	>100	AC	1250 x 705 x 513
	42	11,4 / 14,4	40	2040	>100	AC	1250 x 705 x 513
	42 HE	12,5 / 14,5	40	2040	>100	AC	1250 x 705 x 513
P. 530	48	13,0 / 14,9	43	2750	>100	AC	1250 x 705 x 513
	60	14,3 / 16,1	43	2840	>100	AC	1250 x 705 x 513
	60 HE	16,7 / 18,8	43	2840	>100	AC	1250 x 705 x 583
	72	17,1 / 21,5	39	3570	>100	AC	1250 x 705 x 513
	72 HE	20,6 / 22,6	39	3800	>100	AC	1680 x 955 x 770
	96	21,7 / 26,6	54	4700	>100	AC	1680 x 955 x 770
	96 HE	24,5 / 28,5	54	4700	>100	AC	1680 x 955 x 770
	120	30,0 / 38,1	53	5600	>200	AC	1680 x 955 x 770
ECOi-LOOP FS H · R407C							
P. 532	12	2,7 / 3,2	40	510	0	AC/EC	1138 x 251 x 821 [2]
ECOi-LOOP-N FS H · R513A	7	1,7 / 1,8	34	340	0	AC/EC	1138 x 260 x 821 [2]
P. 534	9	2,0 / 2,6	36	400	0	AC/EC	1138 x 260 x 821 [2]

1) At high speed. 2) Standard unit with cabinet and feet.

ECOi-LOOP 15-30 C/H · R410A

Water source heat pumps cooling only and reversible.

Cooling capacity: 1,5 to 2,9 kW.
Heating capacity: 1,9 to 3,7 kW.

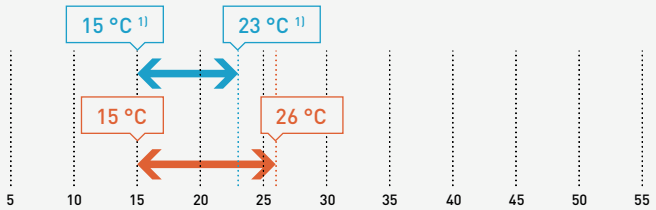
Optional controller.
RCS remote control.

Optional controller.
SRC - mini BMS controller.

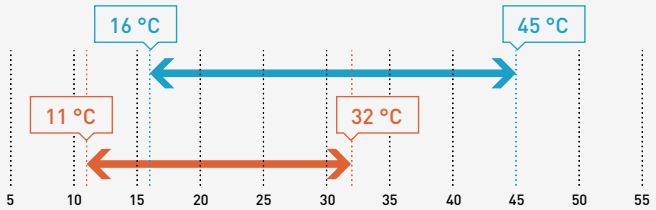
SEE PAGE 536 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS

Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 32 °C DB. *Maximum water pressure 10 bars.

The range at a glance

- 2 versions: C (cooling only) and H (reversible)
- 3 sizes
- Horizontal installation
- Nominal air flow from 435 to 525 m³/h
- Many air and water configurations available
- 140 Pa maximum external static pressure
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 11 °C to 45 °C

Advantages

- Very high performances: EER up to 5,05 and COP up to 5,70
- Low energy consumption EC fan
- In-line or perpendicular air flow
- Increased robustness: coaxial heat exchanger
- Easy access to the internal components: large electrical panel and filter accessible from 3 sides
- 100% factory tested

Equipment

- The refrigerant circuit comprises a rotary type hermetic compressor, a cycle reversal valve (H type only), a water/refrigerant heat exchanger, a liquid receiver, a capillary expansion device, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The rotary type hermetic compressor, mounted on spring anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The water/refrigerant heat exchanger is of copper/stainless steel coaxial type for an increased efficiency
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The casing is made of galvanised steel sheet
- Condensate drain pan with an anti-corrosion treatment
- The electrical box is located on the hydraulic service side with a wide access panel
- The units are equipped with multi-position brackets for easy installation

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

ECOi-LOOP 15-30 C - cooling only			P-LPE015CA	P-LPE020CA	P-LPE030CA
ECOi-LOOP 15-30 H - reversible			P-LPE015HA	P-LPE020HA	P-LPE030HA
Total cooling capacity [1]		W	1507	2151	2902
Sensible cooling capacity [1]		W	1371	1733	2355
EER			4,51	5,05	4,25
Heating capacity [2]		W	1934	2510	3680
COP			5,49	5,70	4,97
Ventilation					
Number of fans				1	
Nominal air flow		m³/h	435	465	525
Motor power		W	24	38	53
Air filter	Number / efficiency		1 / Basic or G3M1	1 / Basic or G3M1	1 / Basic or G3M1
Hydraulic circuit					
Water heat exchanger	Number / type		1 / Coaxial	1 / Coaxial	1 / Coaxial
Maximum water pressure		bar	10	10	10
Nominal water flow		l/h	317	444	617
WPD at nominal water flow		kPa	8	12	18
Connections - inlet/outlet (Ø)		Inch	½ Male gas	½ Male gas	½ Male gas
Condensate outlet - external (Ø)		mm	16	16	16
Refrigerant circuit					
Number of refrigerant circuits			1	1	1
Compressor type			Rotary	Rotary	Rotary
Load		g	415	565	565
Electrical data					
Power supply	Voltage	V	230	230	230
	Phase		Single phase	Single phase	Single phase
	Frequency	Hz	50 ±10%	50 ±10%	50 ±10%
Input power [3]	Cooling	W	365	471	742
	Heating	W	389	491	806
Electric heating coil [4]	Number / capacity	- / W	1 / 600+600	1 / 800+800	1 / 1000+1000
	Input power	W	1200	1600	2000
Sound levels - without acoustic options					
Sound power - radiated	Lo / Med / Hi	dB(A)	41,9 / 43,1 / 44,4	42,7 / 44,5 / 46,5	45 / 46,8 / 48,9
Sound power - discharge	Lo / Med / Hi	dB(A)	45,6 / 49,1 / 53	49,1 / 53,6 / 58,3	51,7 / 57,2 / 61,9
Sound pressure [5]	Lo / Med / Hi	dB(A)	27,1 / 30 / 33,5	30 / 34,1 / 38,4	32,7 / 37,6 / 42
NR [5]	Lo / Med / Hi		22,4 / 25,7 / 29,4	25,8 / 30,1 / 34,4	28,6 / 33,6 / 37,9
Sound levels - with air outlet silencer and insulation around the fan					
Sound power - radiated	Lo / Med / Hi	dB(A)	42,3 / 43,2 / 44,5	42,7 / 44,4 / 46,5	44,4 / 46,6 / 48,9
Sound power - discharge	Lo / Med / Hi	dB(A)	32,2 / 35,2 / 38,5	34,7 / 38,5 / 42,5	36,1 / 40,6 / 44,6
Sound pressure [5]	Lo / Med / Hi	dB(A)	23,2 / 25 / 27,3	24,8 / 27,7 / 31	27 / 30,6 / 34
NR [5]	Lo / Med / Hi		18,8 / 20,4 / 22,7	20,1 / 23 / 26,4	23,2 / 25,9 / 29,5
Dimension - without air inlet/outlet options					
Length		mm	900	900	900
Width		mm	530	530	530
Height		mm	250	250	250
Weight - without air inlet/outlet options					
Operating weight		kg	48	48	48

1) Nominal cooling capacities based on entering air temperature of 27 °C DB, 19 °C WB with entering water temperature of 30 °C. 2) Nominal heating capacities based on entering air temperature of 20 °C DB, 15 °C WB with entering water temperature of 20 °C. 3) Input power at nominal conditions (compressor + fan at high speed). 4) Electric heating coil is available as an option. 5) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB(A). In-line configuration with filter.

Accessories and options
Air outlet silencer
Basic or G3M1 filter
Circuit breaker
Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)
Drain outlet
Drain pump

Accessories and options
Electric heaters
Flow switch control
Insulation around the fan
Many air inlet/outlet and water connection configurations
Pressostatic valve (cooling only)
Room temperature sensor

Accessories supplied loose	
P-393446	RCS kit remote control with thermostat (POL822)
P-375281	SRC - mini BMS controller (only with Modbus RTU)

Accessories supplied loose	
P-372061	Kit remote keyboard panel

EC MOTOR GREEN VENTILATION | HIGH EER 5,05 | HIGH COP 5,70 | ROTARY COMPRESSOR | COAXIAL HEAT EXCHANGER | SUPER QUIET | VERY HIGH PERFORMANCE | COMMERCIAL SMART EDGE

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

ECOi-LOOP-N 70-135 H · R513A

Water source heat pumps reversible.

Cooling capacity: 7,0 to 13,3 kW.
Heating capacity: 8,1 to 14,6 kW.

Optional controller.
RCS remote control.

Optional controller.
SRC - mini BMS controller.

SEE PAGE 536 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS

The range at a glance

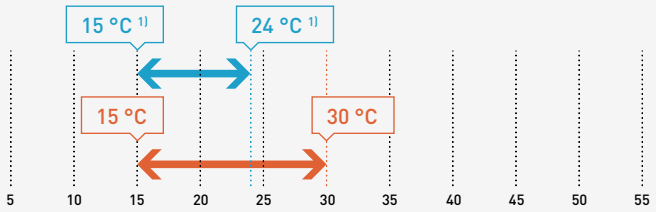
- 1 version: H (reversible)
- 6 sizes
- Horizontal installation
- Nominal air flow from 1730 to 3680 m³/h
- In-line or perpendicular air flow
- Up to 495 Pa according to size
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 11 °C to 45 °C

Advantages

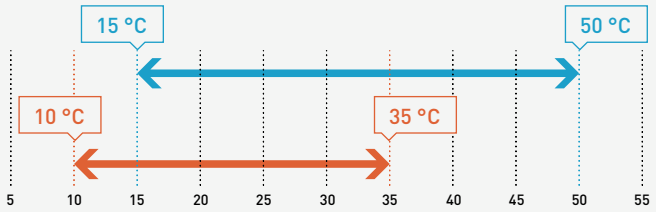
- Very high performances: EER up to 3,95 and COP up to 4,58
- Low energy consumption EC fan
- Increased robustness: coaxial heat exchanger
- Easy access to the internal components: a wide removable panel allows an easy access to the electrical panel and the access to the filter is from the side of the unit, without removing the return duct
- 100% factory tested

Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 33 °C DB. *Maximum water pressure 10 bars.

Equipment

- The refrigerant circuit comprises a scroll type hermetic compressor, a cycle reversal valve, a water/refrigerant heat exchanger, a bi-flow thermostatic expansion valve, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The scroll type hermetic compressor, mounted on spring anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The water/refrigerant heat exchanger is of copper/stainless steel coaxial type for an increased efficiency
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The casing is made of galvanised steel sheet
- Condensate drain pan with an anti-corrosion treatment
- The electrical box is located inside the compressor compartment with a wide access panel

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

ECOi-LOOP-N 70-135 H - reversible			P-LPN070HA	P-LPN085HA	P-LPN100HA	P-LPN110HA	P-LPN120HA	P-LPN135HA
Total cooling capacity [1]		W	7011	8407	10290	11183	12105	13301
Sensible cooling capacity [1]		W	5960	7146	8541	9282	10047	11040
Total absorbed power [2]		W	1776	2275	2743	3234	3161	3784
EER Compressor			4,53	4,21	4,36	4,0	4,46	4,1
EER according to EN 14511			3,95	3,7	3,75	3,46	3,83	3,52
Total heating capacity [3]		W	8069	9808	11307	12514	13834	14639
Total absorbed power [2]		W	1761	2256	2590	3073	3081	3467
COP Compressor			5,27	4,96	5,12	4,75	5,25	5,0
COP according to EN 14511			4,58	4,35	4,37	4,07	4,49	4,22
Ventilation								
EC voltage		V	3,80	5,50	7,80	8,80	7,60	8,60
Air flow	Min (LS)	m³/h	1123	1407	1837	2001	2157	2390
	Med (MS)	m³/h	1425	1786	2331	2539	2730	3034
	Max (nominal) (HS)	m³/h	1727	2165	2826	3078	3309	3677
Nominal static pressure		Pa	100	100	100	100	100	100
Fan absorbed power		W	328	393	552	631	617	737
Fan power		W	684	653	703	738	671	722
Air filter	Number / efficiency		1 / G2M1	1 / G2M1	1 / G2M1	1 / G2M1	1 / G2M1	1 / G2M1
Hydraulic circuit								
Water heat exchanger	Number / type		1 / Coaxial	1 / Coaxial	1 / Coaxial	1 / Coaxial	1 / Coaxial	1 / Coaxial
Maximum water pressure		Bar	10	10	10	10	10	10
Nominal water flow	Cooling [1]	l/h	1497	1818	2274	2508	2649	2957
	Heating [3]	l/h	1882	2256	2514	2738	3143	3463
Cutoff water flow	Cooling	l/h	749	909	1137	1254	1325	1479
	Heating	l/h	941	1128	1257	1369	1572	1732
WPD at nominal water flow	Cooling [1]	kPa	35,9	49,8	39,6	46,6	30,6	38,3
	Heating [3]	kPa	52,7	71,3	46,8	53,9	43,4	53
Hydraulic connections - inlet/outlet		Inch	1 Male gas	1 Male gas	1 Male gas	1 Male gas	1 Male gas	1 Male gas
Condensate outlet (Ø)		mm	19	19	19	19	19	19
Refrigerant circuit								
Number of refrigerant circuits			1	1	1	1	1	1
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Load		g	1040	1165	1108	1116	1355	1363
Electrical data								
Power supply	Voltage	V	400	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Maximum current without heating		A	12,8	13,4	15,6	18,2	17,3	18,1
Starting current		A	53,5	53,5	53,5	78,5	71,4	78,4
Sound levels								
Sound power Lw - radiated	Lo / Med / Hi	dB(A)	60,6/65/65,4	59,5/65,3/66,1	61/66,9/69,4	62,1/67,7/10,4	58/62,6/67,4	58,8/63,9/68,8
Sound power Lw - discharge	Lo / Med / Hi	dB(A)	53,8/62,9/71	62,8/69,5/73,6	68,4/72,7/77,1	68,8/72,6/77,2	64,5/69,3/73,5	65,7/71,2/75,6
Sound power Lw	Lo / Med / Hi	dB(A)	63,7/68,1/72,6	65,5/71,4/74,7	69,6/74,1/78,1	70,1/74,3/78,5	66,5/70,9/75,1	67,5/72,7/77
Sound pressure Lp [4]	Lo / Med / Hi	dB(A)	49/54,3/56,2	49,5/54,3/56,4	55,3/58,8/62,6	54,4/57,6/61,9	52,5/56,8/60,5	52,7/58,5/62,1
NR [4]	Lo / Med / Hi		45,9/51,5/51,2	45,9/49,9/50,9	52,3/55,5/58,5	52,3/54,4/59,1	50,7/55,2/58,4	50,7/56,9/60,3
Dimension - without air inlet/outlet options								
Length		mm	1142	1142	1333	1333	1333	1333
Width		mm	762	762	818	818	818	818
Height		mm	516	516	580	580	580	580
Weight								
Operating weight		kg	134	134	153	153	160	160

1) Nominal cooling capacities based on entering air temperature of 27 °C DB, 19 °C WB with entering water temperature of 30 °C. 2) Input power at nominal conditions (compressor + fan at high speed).
3) Nominal heating capacities based on entering air temperature of 20 °C DB, 15 °C WB with entering water temperature of 20 °C. 4) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB(A). In-line configuration with filter.

Accessories and options
G2M1 filter or G3 filter
Circuit breaker
Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)
Drain pump

Accessories and options
Electric heaters
Flow switch control
General default report
Many air configurations
Room temperature sensor

Accessories supplied loose	
P-393446	RCS kit remote control with thermostat (POL822)
P-375281	SRC - mini BMS controller (only with Modbus RTU)

Accessories supplied loose	
P-372061	Kit remote keyboard panel

EC MOTOR GREEN VENTILATION | HIGH EER 3,95 | HIGH COP 4,58 | SCROLL COMPRESSOR | COAXIAL HEAT EXCHANGER | SUPER QUIET | VERY HIGH PERFORMANCE | COMMERCIAL SMART EDGE

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ECOi-LOOP-N EVO C/H · R513A

Water source heat pumps cooling only and reversible.

Cooling capacity: 1,7 to 2,9 kW.
Heating capacity: 2,0 to 3,8 kW.

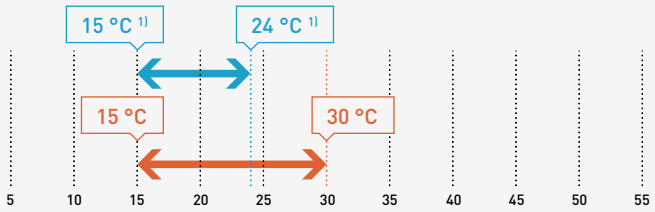
Optional controller.
RCS remote control.

Optional controller.
SRC - mini BMS controller.

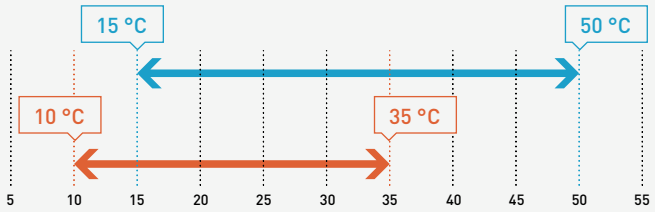
SEE PAGE 536 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS

Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 33 °C DB. *Maximum water pressure 10 bars.

The range at a glance

- Unique size available in C (cooling only) or H (reversible) versions
- Horizontal installation
- Air flow from 290 to 525 m³/h
- Inverter compressor technology
- Many air and water configurations available
- 140 Pa maximum external static pressure
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 11 °C to 45 °C

Advantages

- Eco-friendly: R513A refrigerant with very low GWP (631) and low energy consumption EC fan
- Economic: Inverter compressor adapting its speed according to the required capacity
- Extra silent unit: NR<26 at low speed and reinforced insulation
- Very high-performance: EER up to 4,25 and COP up to 4,53
- Low height for an easy integration: only 250 mm
- Highly customisable: many aeraulic configurations and selection of the hydraulic service side
- Increased robustness: coaxial heat exchanger
- Easy access to the internal components: large electrical panel and filter accessible from 3 sides
- 100% factory tested

Equipment

- The refrigerant circuit comprises an Inverter rotary type hermetic compressor, a cycle reversal valve (for H type), a water/refrigerant heat exchanger, a liquid receiver, a thermostatic expansion valve, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The Inverter rotary type hermetic compressor, mounted on spring anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The water/refrigerant heat exchanger is of copper/stainless steel coaxial type for an increased efficiency
- The unit is equipped with a complete control system (Modbus RTU or BACnet MSTP protocol communication)
- The casing is made of galvanised steel sheet
- Condensate drain pan with an anti-corrosion treatment
- The electrical box is located on the hydraulic service side with a wide access panel
- The units are equipped with multi-position brackets for easy installation

Technical performance

ECOi-LOOP-N EVO C - cooling only			P-LPVN030CA
ECOi-LOOP-N EVO H - reversible			**P-LPVN030HA**
Total cooling capacity [1]	Min - Max [2]	W	1687 - 2948
Sensible cooling capacity [1]	Min - Max [2]	W	1363 - 2337
EER	Min - Max [2]		4,25 - 3,06
Heating capacity [3]	Min - Max [2]	W	2004 - 3769
COP	Min - Max [2]		4,53 - 3,45
Ventilation			
Number of fans			1
Nominal air flow (at low and high speeds)	Min - Max [2]	m³/h	290 - 525
Motor power (at low and high speeds)	Min - Max [2]	W	13 - 54
Air filter	Number / efficiency		1 / Basic or G3
Hydraulic circuit			
Water heat exchanger	Number / type		1 / Coaxial
Maximum water pressure		bar	10
Nominal water flow	Cooling Min - Max [2]	l/h	354 - 662
	Heating Min - Max [2]	l/h	458 - 789
WPD at nominal water flow [4]	Cooling Min - Max [2]	kPa	9 - 19,5
	Heating Min - Max [2]	kPa	12,3 - 24,6
Connections - inlet/outlet (Ø)		Inch	½ Male gas
Condensate outlet - external (Ø)		mm	16
Refrigerant circuit			
Number of refrigerant circuits			1
Compressor type			Inverter rotary
Load		g	514
Electrical data			
Power supply	Voltage	V	230
	Phase		Single phase
	Frequency	Hz	50 ±10%
Input power [5]	Cooling Min - Max [2]	W	397 - 964
	Heating Min - Max [2]	W	442 - 1093
Electric heating coil [6]	Number / capacity Min - Max [2]	- / W	1 / 600 + 600 - 1 / 1000 + 1000
	Input power Min - Max [2]	W	1200 - 2000
Sound levels - without acoustic options			
Sound power - radiated	Min - Max [2]	dB(A)	41,9 - 51,5
Sound power - discharge	Min - Max [2]	dB(A)	47,9 - 62,8
Sound pressure [7]	Min - Max [2]	dB(A)	29,3 - 43
NR [7]	Min - Max [2]		25,8 - 39,2
Sound levels - with air outlet silencer and insulation around the fan			
Sound power - radiated	Min - Max [2]	dB(A)	42,3 - 51,6
Sound power - discharge	Min - Max [2]	dB(A)	33,2 - 44,4
Sound pressure [7]	Min - Max [2]	dB(A)	24,5 - 35
NR [7]	Min - Max [2]		19,5 - 30,4
Dimension - without air inlet/outlet options			
Length		mm	900
Width		mm	636
Height		mm	250
Weight - without air inlet/outlet options			
Operating weight		kg	51

1) Nominal cooling capacities based on entering air temperature of 27 °C DB, 19 °C WB with entering water temperature of 30 °C. 2) Thermal load. 3) Nominal heating capacities based on entering air temperature of 20 °C DB, 15 °C WB with entering water temperature of 20 °C. 4) Without valve. 5) Input power at nominal conditions (compressor + fan at high speed). 6) Electric heating coil is available as an option. 7) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB. In-line configuration with filter.

Accessories and options
Air outlet silencer
Basic or G3M1 filter
Circuit breaker
Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)
Drain outlet
Drain pump

Accessories and options
Electric heaters
Flow switch control
General default report
Insulation around the fan
Many air inlet/outlet and water connection configurations
Room temperature sensor

Accessories supplied loose	
P-393446	RCS kit remote control with thermostat (POL822)
P-375281	SRC - mini BMS controller (only with Modbus RTU)

Accessories supplied loose	
P-372061	Kit remote keyboard panel

EC MOTOR GREEN VENTILATION | HIGH EER 4,25 | HIGH COP 4,53 | INVERTER | COAXIAL HEAT EXCHANGER | INVERTER ROTARY COMPRESSOR | SUPER QUIET | VERY HIGH PERFORMANCE | COMMERCIAL SMART EDGE

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ECOi-LOOP HRW H and ECOi-LOOP HRWE H · R407C

Water source heat pumps reversible.

Cooling capacity: 5,3 to 30,0 kW.
Heating capacity: 5,8 to 38,1 kW.

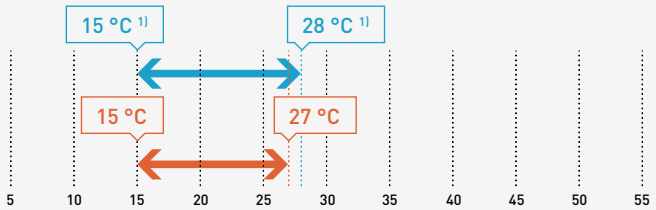
Optional controller.
RCS remote control.

Optional controller.
SRC - mini BMS controller.

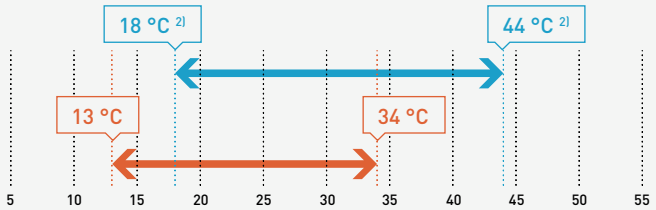
SEE PAGE 536 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS

Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 38 °C DB. 2) From 20 to 48 °C for 96-120. *Maximum water pressure 16 bars.

The range at a glance

- 1 version: H (reversible)
- 10 sizes
- Horizontal installation
- Versions: standard or HE** (very high-efficiency)
- Nominal air flow from 1180 to 5600 m³/h
- AC fan: 3-speed direct drive fan motor for sizes 19 to 72 and belt drive with variable pitch pulley for sizes 96 and 120
- Operating range: from 15 °C to 38 °C ambient air temperature
- Water inlet temperature from 13°C to 48 °C

Advantages

- Low sound levels: acoustic insulation between ventilation and compressor compartments
- Very high-efficiency versions (HE)*: EER up to 4,74 and COP up to 4,46
- In-line or perpendicular air flow
- Easy access to components through wide removable panels
- Condensate drain pan with an anti-corrosion treatment and a float-type safety system
- 100% factory tested

Equipment

- The refrigerant circuit comprises a scroll or rotary type hermetic compressor, a cycle reversal valve (for H type), a water/refrigerant heat exchanger, a liquid receiver, a bi-flow thermostatic expansion valve and a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The rotary or scroll type hermetic compressor, mounted on rubber anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The water/refrigerant heat exchanger is made of brazed stainless steel plates, for improved efficiency
- Condensate drain pan with an anti-corrosion treatment and a float-type safety system
- A G2-M1air filter is provided within the unit

*HE versions only available for reversible units.

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Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

ECOi-LOOP HRW H - reversible	P-LPHM***HA***1)		019	027	—	030	—	036	—	042	—	048	060	—	072	—	096	—	120
ECOi-LOOP HRWE H - reversible	P-LPHEM***HA***1)		—	—	027	—	030	—	036	—	042	—	—	060	—	072	—	096	—
Total cooling capacity 2)		W	5278	7419	7320	8691	8710	10138	11060	11366	12500	12965	14344	16700	17174	20600	21743	24500	29951
Sensible cooling capacity 2)		W	4257	5824	5600	6315	6676	7278	9070	8849	9542	10051	10988	13900	13536	17700	17986	19500	24413
EER			4,20	3,72	4,00	3,77	4,15	3,77	4,31	3,44	4,00	4,03	3,23	4,44	3,26	4,74	3,84	4,61	4,21
Heating capacity 3)		W	5826	8342	9252	9759	9960	11036	12200	14422	14450	14904	16147	18800	21500	22600	26637	28500	38109
COP			4,40	3,69	4,21	3,50	4,30	3,38	4,28	3,84	4,36	4,25	3,33	4,20	3,15	4,23	3,54	4,46	4,25
Ventilation																			
Number of fans			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nominal air flow		m³/h	1250	1190	1180	1490	1500	1580	1580	2040	2040	2750	2840	2840	3570	3800	4700	4700	5600
Motor power		W	450	450	450	950	950	950	950	950	950	1500	1500	1500	1500	736	1100	1100	1500
Air filter	Number / efficiency		2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1	2 / G2-M1
Hydraulic circuit																			
Number of plate heat exchanger			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Maximum water pressure		bar	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Nominal water flow		l/h	921	1540	1620	1764	1800	2030	2306	2592	2600	2822	3348	3550	3924	4300	4860	4960	6408
WPD at nominal water flow		kPa	13	17	13	23	20	25	21	33	28	34	40	35	61	50	55	55	80,5
Connections - inlet/outlet (Ø)		Inch	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G ¾ INT	ISO G 1 ¼	ISO G ¾ INT	ISO G 1 ¼	ISO G 1 ¼	ISO G 1 ¼	ISO G 1 ¼
Condensate outlet - external (Ø)		mm	19	19	19	19	19	19	19	19	19	19	19	19	19	22	22	22	22
Refrigerant circuit																			
Number of refrigerant circuits				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Compressor type			Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Load		g	1160	1483	2534	1594	1950	1950	3200	3200	2800	3200	3200	3400	2700	3800	5100	5100	5100
Electrical data																			
Power supply	Voltage	V	230	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	Phase		Single phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50 ±10%	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral	50 + Neutral
Input power 4)	Cooling	W	1557	2118	1981	2658	2357	3044	2909	3584	3423	4200	4989	4278	6280	5279	6317	5954	8547
	Heating	W	1611	2332	2382	2983	2475	3460	3203	3920	3479	4300	5150	5098	7347	6188	7895	7115	10224
Electric heating coil	Number / capacity	- / W	2 / 1500 + 750	1 / 3750	1 / 3750	1 / 3750	1 / 3750	1 / 4500	1 / 4500	1 / 5400	1 / 5400	1 / 6500	1 / 7500	1 / 7500	1 / 9000	1 / 9000	1 / 13000	1 / 13000	1 / 16000
Sound levels																			
Sound power - radiated	Lo / Med / Hi	dB(A)	51 / 54 / 58	54 / 56 / 57	54 / 56 / 57	53 / 54 / 57	53 / 54 / 57	53 / 56 / 58	53 / 56 / 58	54 / 56 / 58	54 / 56 / 58	55 / 59 / 63	55 / 59 / 63	55 / 59 / 63	57 / 60 / 63	55 / 59 / 62	70 / 69 / 68	70 / 69 / 68	72 / 69 / 70
NR	Lo / Med / Hi		34 / 37 / 40	33 / 34 / 37	33 / 34 / 37	33 / 35 / 38	33 / 35 / 38	34 / 37 / 41	34 / 37 / 41	36 / 40 / 43	36 / 40 / 43	39 / 43 / 46	39 / 43 / 46	39 / 43 / 46	36 / 39 / 44	36 / 39 / 44	56 / 54 / 52	56 / 54 / 52	56 / 53 / 50
Dimension																			
Length		mm	900	1050	1050	1050	1050	1050	1250	1250	1250	1250	1250	1250	1250	1680	1680	1680	1680
Width		mm	600	600	660	660	660	660	705	705	705	705	705	705	705	955	955	955	955
Height		mm	439	460	460	460	460	460	513	513	513	513	513	583	513	770	770	770	770
Weight																			
Operating weight		kg	80	100	112	100	100	112	133	133	135	140	144	149	149	253	253	259	262

1) ***HWA: units without RCS, HRA: units with RCS, HBA: units with RCS + EH, HHA: units with EH. 2) Nominal cooling capacities based on: entering air temperature of 27 °C DB, 19 °C WB with entering water temperature of 30 °C. 3) Nominal heating capacities based on: entering air temperature of 20 °C DB, 15 °C WB with entering water temperature of 20 °C. 4) Absorbed power (compressor + fan) at nominal conditions. Check data and configuration on the technical documentation.

Accessories and options
Circuit breaker
Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)
EH - Electric heaters
General alarm dry contact

Accessories and options
Main switch
Motorized water valve
Room sensor
G3 filter (available upon request)

Accessories supplied loose	
P-393446	RCS kit remote control with thermostat (POL822)
P-375281	SRC - mini BMS controller (only with Modbus RTU)

Accessories supplied loose	
P-372061	Kit remote keyboard panel

HIGH EER 4,74 | HIGH COP 4,46 | PLATE HEAT EXCHANGER | ROTARY/SCROLL COMPRESSOR | SUPER QUIET | VERY HIGH PERFORMANCE | PS COMMERCIAL SMART EDGE

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ECOi-LOOP FS H · R407C

Water source heat pumps reversible.

Cooling capacity: 2,7 kW.
Heating capacity: 3,2 kW.

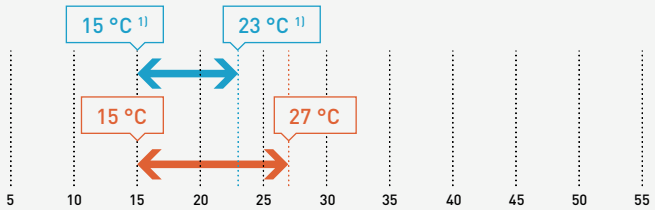
Optional controller.
RCS remote control.

Optional controller.
SRC - mini BMS controller.

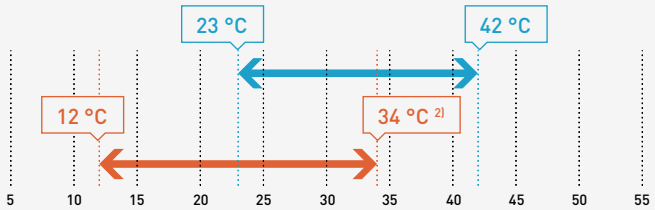
SEE PAGE 536 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS

Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 32 °C DB. 2) 32 °C for ECOi-LOOP FS 07 in low speed. *Maximum water pressure 10 bars.

The range at a glance

- 1 version: H (reversible)
- 1 size
- Vertical installation
- 4 versions: VC (standard version with cabinet), VCL (low height version with cabinet), VN (standard version without cabinet) and VNL (low height version without cabinet)
- EER up to 3,25 and COP up to 3,49
- Nominal air flow from 400 to 510 m³/h
- 3-speed AC fan (or optional low consumption EC fan)
- Many hydraulic and electric configurations available
- Front or bottom air intake
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 12 °C to 42 °C

Advantages

- Low sound levels: acoustic insulation between ventilation and compressor compartments
- Design and elaborate finish cabinet enabling harmonious integration (RAL9010)
- Low energy consumption EC fan (option)
- Highly customisable. Many air routeing configurations and selection of hydraulic service side
- Easy access to components through a removable front panel
- Brazed stainless steel plate heat exchanger for improved efficiency
- 100% factory tested

Equipment

- The refrigerant circuit comprises a rotary type hermetic compressor, a cycle reversal valve, a water/refrigerant heat exchanger, a liquid receiver, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The rotary type hermetic compressor, mounted on spring anti-vibration mounts, is integrated in a compartment coated with reinforced acoustic insulation. It is also equipped with internal thermal protection
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The water/refrigerant heat exchanger is made of brazed stainless steel plates, for improved efficiency
- RAL9010 painted cabinet for versions VC and VCL
- Condensate drain pan with an anti-corrosion treatment
- A G2 air filter is provided within the unit

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Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

ECOi-LOOP FS H - reversible			P-LPFSM12HA
Total cooling capacity [1]		W	2743
Sensible cooling capacity [1]		W	2340
EER			3,25
Heating capacity [2]		W	3156
COP			3,49
Ventilation			
Number of fans			1
Air flow	Lo / Med / Hi	m³/h	400 / 460 / 510
Motor power (with AC / EC fan)		W	75 / 40
Air filter	Number / efficiency		1 / G2
Hydraulic circuit			
Number of plate heat exchanger			1
Maximum water pressure		bar	10
Nominal water flow		l/h	616
WPD at nominal water flow		kPa	12
Connections - inlet/outlet (ø)		Inch	ISO G ½ INT
Condensate outlet - external (Ø)		mm	15 x 20
Refrigerant circuit			
Number of refrigerant circuits			1
Compressor type			Rotary
Load		g	750
Electrical data			
Power supply	Voltage	V	230
	Phase		Single phase
	Frequency	Hz	50 ±10%
Input power - AC fan [3]	Cooling	W	892
	Heating	W	954
Sound levels - AC fan			
Sound pressure [4]	Lo / Med / Hi	dB(A)	43 / 45 / 46
NR [4]	Lo / Med / Hi		38 / 40 / 41
Dimension			
Standard with cabinet (VC)	L x W x H	mm	1138 x 251 x 720 min / 750 max (821 with feet)
Low height with cabinet (VCL)	L x W x H	mm	1323 x 251 x 580 min / 610 max (683 with feet)
Standard without cabinet (VN)	L x W x H	mm	1043,5 (1086 with feet) x 229 x 667,5 min / 697,5 max (769,5 with feet)
Low height without cabinet (VNL)	L x W x H	mm	1182,5 (1183 with feet) x 229 x 525 min / 555 max (627 with feet)
Weight			
Without cabinet / with cabinet - operating		kg	60 / 75

1) Nominal cooling capacities based on: entering air temperature of 27 °C DB/19 °C WB, with entering water temperature of 30 °C. 2) Nominal heating capacities based on: entering air temperature of 20 °C DB/15 °C WB, with entering water temperature of 20 °C. 3) Absorbed power (compressor + fan) at nominal conditions. 4) Sound pressure considering a local of 100 m³, a reverberation time of 0,5 sec and a distance of 1 m.

Accessories and options
Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)
EC fan
Feet

Accessories and options
General remote alarm contact
Low noise
Many electric, hydraulic and aeraulic configurations
Thermal overload

Accessories supplied loose	
P-393446	RCS kit remote control with thermostat (POL822)
P-375281	SRC - mini BMS controller (only with Modbus RTU)
P-372061	Kit remote keyboard panel

Accessories supplied loose	
P-372734	Kit front air intake cabinet
P-372642	Kit front air intake cabinet (low height)

HIGH EER 3,25 | HIGH COP 3,49 | EC MOTOR GREEN VENTILATION | PLATE HEAT EXCHANGER | ROTARY COMPRESSOR | SUPER QUIET | COMMERCIAL SMART EDGE

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

ECOi-LOOP-N FS H · R513A

Water source heat pumps reversible.

Cooling capacity: 1,7 to 2,0 kW.
Heating capacity: 1,8 to 2,6 kW.

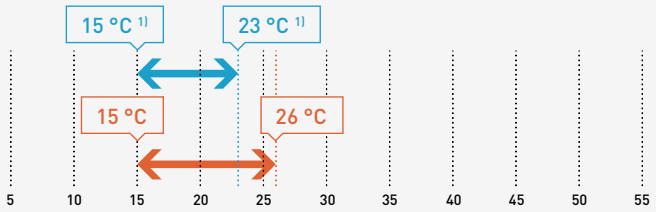
Optional controller.
RCS remote control.

Optional controller.
SRC - mini BMS controller.

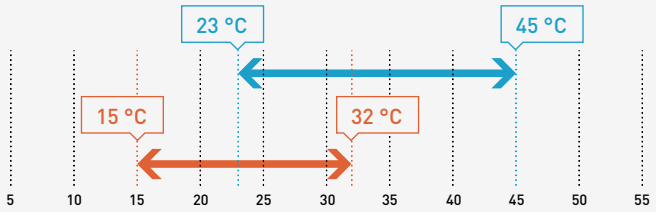
SEE PAGE 536 FOR MORE DETAILS ABOUT WATER SOURCE HEAT PUMPS CONTROL SYSTEMS

Operating limits

Air inlet temperature.



Water inlet temperature.



1) From 21 to 32 °C DB. *Maximum water pressure 10 bars.

The range at a glance

- 1 version: H (reversible)
- 2 sizes
- Vertical installation
- 4 versions: VC (standard version with cabinet), VCL (low height version with cabinet), VN (standard version without cabinet) and VNL (low height version without cabinet)
- EER up to 4,9 and COP up to 4,6
- Nominal air flow from 250 to 460 m³/h
- 3-speed AC fan (or optional low consumption EC fan)
- Many hydraulic and electric configurations available
- Front or bottom air intake
- Operating range: from 15 °C to 32 °C ambient air temperature
- Water inlet temperature from 15 °C to 45 °C

Advantages

- Low sound levels: acoustic insulation between ventilation and compressor compartments
- Design and Elaborate finish cabinet enabling harmonious integration (RAL9010)
- Low energy consumption EC fan (option)
- Highly customisable. Many air routeing configurations and selection of hydraulic service side
- Easy access to components through a removable front panel
- Brazed stainless steel plate heat exchanger for improved efficiency (coaxial exchanger upon request)
- 100% factory tested

Equipment

- The refrigerant circuit comprises a rotary type hermetic compressor, a cycle reversal valve, a water/refrigerant heat exchanger, a liquid receiver, a capillary expansion device, a finned coil, HP and LP pressure switches and 2 Schrader valves (HP and LP)
- The rotary type hermetic compressor is installed in a compartment covered with a 20 mm thick Isofeutre thermal-acoustic insulation. It is also equipped with internal thermal protection
- The units are equipped with a control system (POL423) utilising Modbus RTU
- The water/refrigerant heat exchanger is made of brazed stainless steel plates, for improved efficiency. A coaxial heat exchanger is available on request
- RAL9010 painted cabinet for versions VC and VCL
- Condensate drain pan with an anti-corrosion treatment
- A G2 air filter is provided within the unit

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

ECOi-LOOP-N FS H - reversible			P-LPFSN07HA	P-LPFSN09HA
Total cooling capacity [1]		W	1690	2040
Sensible cooling capacity [1]		W	1410	1600
Input power (with EC / AC fan) [2]		W	345 / 355	480 / 487
EER according to EN 14511 (with EC / AC fan)			4,9 / 4,75	4,25 / 4,19
Heating capacity [3]		W	1790	2630
Input power (with EC / AC fan) [2]		W	395 / 405	610 / 617
COP according to EN 14511 (with EC / AC fan)			4,6 / 4,41	4,31 / 4,26
Ventilation				
Air flow	Min	m³/h	250	340
	Nominal	m³/h	340	400
	Max	m³/h	400	460
Nominal input power (with EC / AC fan)		W	15 / 25	20 / 27
Motor power (with EC / AC fan)		W	40 / 75	40 / 75
Air filter	Number / efficiency		1 / G2	1 / G2
Hydraulic circuit				
Number of plate heat exchanger			1	1
Maximum water pressure		Bar	10	10
Nominal water flow	Cooling [1]	l/h	351	434
	Heating [3]	l/h	405	586
Cutoff water flow		l/h	180	180
WPD at nominal water flow	Cooling [1]	kPa	3,8	5,8
	Heating [3]	kPa	5,1	10,8
Hydraulic connections - inlet/outlet		Inch	Female ISO G ½ INT	Female ISO G ½ INT
Condensate outlet (Ø)		mm	15 x 20	15 x 20
Refrigerant circuit				
Number of refrigerant circuits			1	1
Type of compressor			Rotary	Rotary
Load		g	500	490
Electrical data				
Power supply	Voltage	V	230	230
	Phase		Single phase	Single phase
	Frequency	Hz	50 ±10%	50 ±10%
Maximum current [4]		A	4,6	5,7
Starting current [5]		A	16	16,5
Sound levels				
Sound power Lw	Lo / Med / Hi	dB(A)	47,2 / 49,8 / 51,5	49,8 / 51,5 / 54,3
Sound pressure Lp	Lo / Med / Hi	dB(A)	38,2 / 40,8 / 42,5	40,8 / 42,5 / 45,3
NR	Lo / Med / Hi	dB(A)	32 / 34 / 36	34 / 36 / 40
Sound levels - extra low noise version				
Sound power Lw	Lo / Med / Hi	dB(A)	42,5 / 44,6 / 46,5	44,7 / 46,5 / 48,6
Sound pressure Lp	Lo / Med / Hi	dB(A)	33,5 / 35,6 / 37,5	35,7 / 37,5 / 39,6
NR	Lo / Med / Hi	dB(A)	28 / 30 / 32	30 / 32 / 34
Dimension				
Standard with cabinet (VC)	L x W x H	mm	1138 x 260 x 720 min / 750 max (821 with feet)	1138 x 260 x 720 min / 750 max (821 with feet)
Low height with cabinet (VCL)	L x W x H	mm	1322 x 260 x 582 min / 612 max (683 with feet)	1322 x 260 x 582 min / 612 max (683 with feet)
Standard without cabinet (VN)	L x W x H	mm	1055 (1084 with feet) x 241 x 667 min / 697 max (769 with feet)	1055 (1084 with feet) x 241 x 667 min / 697 max (769 with feet)
Low height without cabinet (VNL)	L x W x H	mm	1185 (1270 with feet) x 241 x 525 min / 555 max (626 with feet)	1185 (1270 with feet) x 241 x 525 min / 555 max (626 with feet)
Weight				
Without cabinet / with cabinet - operating		kg	55 / 70	58 / 73

1) Nominal cooling capacities based on: entering air temperature of 27 °C DB/19 °C WB, with entering water temperature of 30 °C. 2) Absorbed power (compressor + fan) at nominal conditions. 3) Nominal heating capacities based on: entering air temperature of 20 °C DB/15 °C WB, with entering water temperature of 20 °C. 4) Maximum currents are given at +/- 5%. 5) Starting currents are given at +/- 10%.

Accessories and options
Modbus RTU protocol-standard. Controller with BACnet MSTP - optional (BACnet IP, LON and Modbus TCP/IP available upon request)
EC fan
Feet

Accessories and options
General remote alarm contact
Low noise
Many electric, hydraulic and aeraulic configurations
Thermal overload

Accessories supplied loose	
P-393446	RCS kit remote control with thermostat (POL822)
P-375281	SRC - mini BMS controller (only with Modbus RTU)
P-372061	Kit remote keyboard panel

Accessories supplied loose	
P-372734	Kit front air intake cabinet
P-372642	Kit front air intake cabinet (low height)

HIGH EER 4,90 | HIGH COP 4,60 | EC MOTOR GREEN VENTILATION | PLATE HEAT EXCHANGER | ROTARY COMPRESSOR | SUPER QUIET | COMMERCIAL SMART EDGE

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

Water source heat pumps control systems

SRC - mini BMS controller.

Smart controller. Mini building management system.
With the SRC - mini BMS controller - you can now remotely control multiple units or zones of units with a single interface.
Its time programming function offers you the possibility to fully control and rationalise the energy consumption of your HVAC system.
This smart controller is intuitive and easy to use thanks to its color touch screen, logical structure and clear control icons.
The modern and refined design fits perfectly in to any modern interior.

· Supervise fan coil units, chillers/heat pumps, air handling units and water source heat pumps
· Manage up to 31 units
· Communicate via Modbus protocol
· Time programming function
· A modern and refined design
· 3,5'' color touch screen
· Wall mounting

Used as a mini BMS.
With the SRC you can create up to 15 zones including several Panasonic units belonging to the same product lines.
· Chillers / heat pumps
· Air handling units
· Fan coil units

Used as a remote control.
The SRC can also control, in a unique zone, one or several units belonging to the same product line.
· Fan coil units
· Water source heat pumps

Control system with protocol communication.

Ventilation:
· Compatibility: 3-speed AC fan motor or EC fan motor
· Manual speed (3 levels)
· Automatic speed

Communication:
· Modbus RTU or BACnet MSTP
· Modbus TCP/IP or LON or BACnet IP upon request

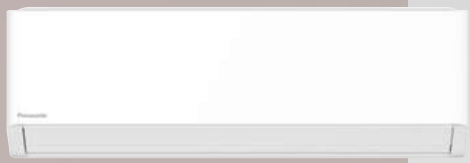
Operating mode:
· OFF / Comfort / ECO

Function type:
· Summer
· Winter
· Ventilation
· Auto changeover (adjustment of the automatic mode according to the setpoint)

Setpoint:
· Extract air temperature
· Room thermostat
· BMS

RCS remote control.

Main functions:
· ON / OFF
· Comfort / ECO modes
· Operating mode setting
· Setpoint adjustment
· Room temperature (OFF)
· Ventilation setting (manual or automatic)
· Time display and setting
· Alarm summary
· Zoning (up to 15 units)
· Scheduling



Fan coil units

Panasonic offers you a complete range of fan coil units. Stylish, premium units for residential projects with a sophisticated, compact design and customizable, flexible units for commercial applications with a wide range of options and accessories available.

ABOUT

Aquarea Air Smart fan coils → 540

Quick selection guide - Aquarea Air Smart fan coils → 544

Flex Air fan coils and Flex Air Smart fan coils → 542

Quick selection guide - Flex Air fan coil and Flex Air Smart fan coil units → 545

Flex Air fan coil controllers → 572

PRODUCT SPECIFICATIONS

Aquarea Air Smart fan coils

Aquarea Air Smart fan coil – Floor standing → 546

Aquarea Air Smart fan coil – Wall-mounted → 547

Aquarea Air Smart fan coil – Ducted thin / ducted → 548

Aquarea Air Smart fan coil – Ducted multi zone thin / ducted multi zone → 550

Accessories and control - Aquarea Air Smart fan coils → 576

Flex Air Smart fan coils

Flex Air Smart fan coil – Wall-mounted DC fan – FK1 → 552

Flex Air Smart fan coil – Medium static pressure duct DC fan – FF1 → 554

Control – Flex Air Smart fan coils → 582

Flex Air fan coils

Flex Air fan coil – Comfort AC fan → 556

Flex Air fan coil – Comfort EC fan → 558

Flex Air fan coil – Cassette AC fan → 560

Flex Air fan coil – Cassette EC fan → 562

Flex Air fan coil – Wall-mounted AC fan → 564

Flex Air fan coil – Duct EC fan → 566

Flex Air fan coil – High static duct AC fan → 568

Flex Air fan coil – High static duct EC fan → 570

Control – Flex Air fan coils → 583

Aquarea Air Smart fan coils

Stylish, compact fan coil units for high comfort and energy savings.

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

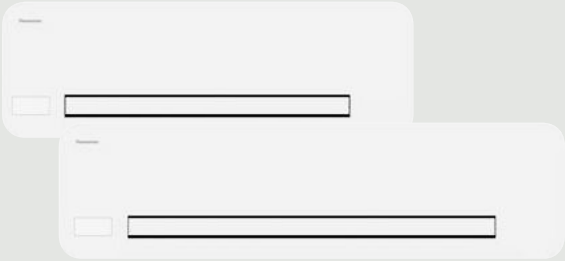
Aquarea Air Smart fan coils have a minimal visual impact and can be elegantly integrated into any home or office environment, adapting to any type of furniture.

Designed to provide both heating and cooling in one compact unit, they maximise energy savings when combined with an Aquarea Heat Pumps.

- **SLIM, SOPHISTICATED DESIGN WITH METAL CASING**
- **SELF-MODULATING AIR FLOW (PI LOGIC) AND DC INVERTER FAN MOTOR**
- **WIDE RANGE WITH MULTIPLE CONFIGURATION OPTIONS**
- **ADVANCED CONTROL AND CONNECTIVITY OPTIONS**

Aquarea Air Smart fan coil – Floor standing.
Even narrower and thinner fan coils.

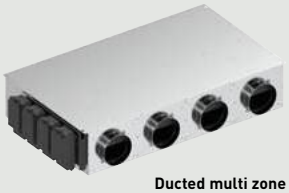
Aquarea Air Smart fan coil – Wall-mounted.
The thinnest and most quietest in its class.



Aquarea Air Smart fan coil – Ducted / ducted multi zone.
Thin version with only 185 mm height.
Integrated multi zone management (2-5 zones, with the multi zone line-up).

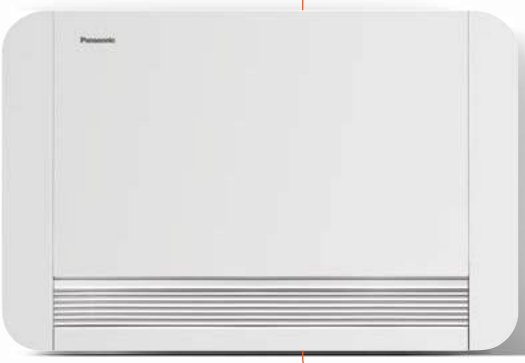
Ducted

Ducted thin



Ducted multi zone

Ducted multi zone thin



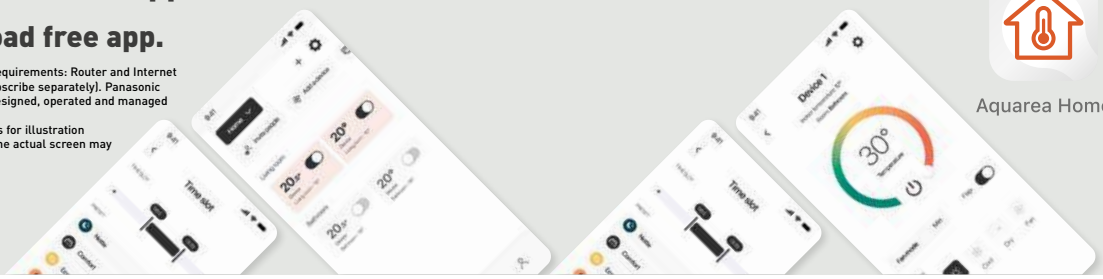
Self-modulated air flow control by the unit.

The fan speed is no longer "stepped" but continuously modulated with proportional and integrative logic: this reduces both noise and annoying air movements.

Aquarea Home App

Download free app.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Panasonic Cloud Server is designed, operated and managed by Panasonic.
*The app screen is for illustration purposes only. The actual screen may differ.



Aquarea Home

Flex Air fan coils

Designed to meet all needs, they have a comprehensive range of options and accessories available and a wide range of technological controllers: individual, groups and centralized.

Additional benefits of Flex Air fan coils:

Energy savings and comfort.
- Low consumption solutions with high-efficiency fan motor
- High level of energy performance
- Quiet operation with optimized air flow and advanced acoustic design

Fully customizable.
- Many factory-mounted options
- Choice of service side for hydraulic and electrical connections

Wide technological range of controls.
- Individual controllers with intuitive user interface.
- Group controller to control multiple units with a single control
- Plogic + BMS and SRC centralized and group control of different climatic zones with different settings

Flex Air Smart fan coils

Panasonic water fan coil units integrated with nanoe™ X technology to improve protection 24/7 and compatible with PACi NX and VRF controls for seamless integration.

They are compatible with PACi NX and VRF controls for seamless integration.

Flex Air Smart fan coils are integrated with nanoe X Generator Mark 3.

- DC FAN
- QUIET OPERATION
- nanoe™ X
- FLEXIBILITY OF INSTALLATION AND CUSTOMIZATION
- COMPATIBILITY WITH PACi NX/VRF CONTROLS
- SERVICE APP*

*CONEX control is required.

Greater flexibility in managing indoor climate.

Flex Air Smart fan coils offer a wide range of accessories and customizable options, ensuring optimal comfort and performance in any environment. Their compatibility with PACi NX and VRF individual controls, as well as group management systems, ensures centralized monitoring, making them the perfect choice for complex installations.

Improved indoor air quality with nanoe™ X.

Flex Air Smart fan coils are equipped with nanoe™ X for improved indoor air quality and higher level of performance. They come with nanoe X Generator Mark 3, the latest of the continuously evolving nanoe™ X technology with the benefits of hydroxyl radicals.

+ nanoe™ X

7 effects of nanoe™ X – Panasonic unique technology

Deodorises

- Odours

Capacity to inhibit 5 types of pollutants

- Bacteria and viruses
- Mould
- Allergens
- Pollen
- Hazardous substances

Moisturises

- Skin and hair

*Refer to https://aircon.panasonic.eu for more details and validation data.

Smart controls: Compatible with CONEX Series.

CONEX. Devices and apps.

CONEX provides comfort and control for varying user needs. Accessible, flexible, and scalable with different controllers and apps. Perfectly meeting requirements of modern controls for end user, installer, and service.

Panasonic Comfort Cloud

Quick selection guide - Aquarea Air Smart fan coils

Page	Size	Cooling and heating capacity [1) 2) 3)] (kW)	Air flow - Max (m³/h)	Pressure (Pa)	Fan	Dimension H x W x D (mm)
Fan coil floor standing	10	0,73 / 0,69	146	10	DC	580 x 680 x 119
	20	1,36 / 1,50	294	10	DC	580 x 880 x 119
P. 546	30	2,08 / 2,15	438	13	DC	580 x 1080 x 119
	35	2,39 / 2,56	567	13	DC	580 x 1280 x 119
	40	2,57 / 2,78	663	13	DC	580 x 1480 x 119
Fan coil wall-mounted	10	0,88 / 0,98	228	—	DC	335 x 815 x 128
	15	1,08 / 1,30	331	—	DC	335 x 1015 x 128
P. 547	20	1,21 / 1,49	440	—	DC	335 x 1215 x 128
	40	2,66 / 3,04	788	—	DC	335 x 1215 x 215
Fan coil ducted thin	15	1,14 / 1,32	290	100	DC	185 x 590 x 575
	20	1,84 / 1,80	390	90	DC	185 x 790 x 575
P. 548	25	2,17 / 2,32	550	120	DC	185 x 990 x 575
	35	2,40 / 2,76	680	110	DC	185 x 1190 x 575
	45	2,80 / 3,98	870	140	DC	185 x 1440 x 575
Fan coil ducted	20	1,37 / 1,48	390	90	DC	240 x 590 x 695
	25	1,86 / 2,04	560	130	DC	240 x 790 x 695
P. 548	35	2,38 / 2,63	730	110	DC	240 x 990 x 695
	45	3,22 / 3,77	905	140	DC	240 x 1190 x 695
	55	3,97 / 4,23	1150	140	DC	240 x 1440 x 695
Fan coil ducted multi zone thin	30	1,97 / 2,11	480	100	DC	185 x 790 x 575
	45	2,97 / 3,19	720	100	DC	185 x 990 x 575
P. 550	60	3,68 / 5,76	960	100	DC	185 x 1190 x 575
	65	4,15 / 4,75	1200	100	DC	185 x 1440 x 575
Fan coil ducted multi zone	30	3,80 / 3,90	810	100	DC	240 x 790 x 695
	45	3,77 / 4,16	1215	100	DC	240 x 990 x 695
P. 550	60	4,87 / 5,42	1620	100	DC	240 x 1190 x 695
	75	6,31 / 6,87	2025	100	DC	240 x 1440 x 695

1) Data for medium fan speed. Fan standard factory set speeds. 2) Cooling capacity: According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Heating capacity: According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.
***The Aquarea Air range aligns with the Aquarea commercial policy.**

Quick selection guide – Flex Air Smart fan coils

Page	Size	Cooling and heating capacity [1] (kW)	Air flow (m³/h)	Pressure (Pa)	Fan	Dimension H x W x D (mm)
Fan coil wall-mounted	19	1,9 / 2,2	345	—	DC	295 x 890 x 244
	24	2,4 / 2,7	416	—	DC	295 x 890 x 244
	27	2,7 / 3,0	480	—	DC	295 x 890 x 244
P. 552	36	3,6 / 4,0	710	—	DC	295 x 890 x 244
	45	4,5 / 5,1	753	—	DC	295 x 1060 x 249
	52	5,2 / 5,3	879	—	DC	295 x 1060 x 249
NEW! Fan coil medium static duct	23	2,3 / 2,7	590	120	DC	250 x 800 x 730
	28	2,8 / 3,3	680	120	DC	250 x 800 x 730
	40	4,0 / 4,2	576	120	DC	250 x 800 x 730
P. 554	50	5,0 / 5,2	980	120	DC	250 x 1000 x 730
	70	7,0 / 7,5	1230	120	DC	250 x 1000 x 730
	80	8,0 / 8,3	1180	120	DC	250 x 1400 x 730
	93	9,3 / 9,8	1500	120	DC	250 x 1400 x 730

Tentative data

Quick selection guide – Flex Air fan coils

Page	Size	Cooling and heating capacity [1] (kW)	Air flow [1] (m³/h)	Pressure (Pa)	Fan	Dimension [2] H x W x D (mm)
Fan coil comfort	10	2,0 / 2,3	417	—	AC/EC	477 x 766 x 225
	20	2,1 / 2,5	413	—	AC/EC	477 x 766 x 225
	30	1,8 / 2,7	345	—	AC/EC	477 x 951 x 225
	40	4,2 / 4,5	678	—	AC/EC	477 x 1136 x 225
P. 556	50	5,0 / 5,2	816	—	AC/EC	477 x 1321 x 225
	60	5,2 / 5,8	912	—	AC/EC	477 x 1506 x 225
	70	6,6 / 7,2	1050	—	AC/EC	575 x 1319 x 225
	80	8,4 / 8,5	1063	—	EC	575 x 1506 x 225
Fan coil cassette	20	2,4 / 2,7	659	—	AC/EC	341 x 595 x 595
	30	4,0 / 3,7	734	—	AC/EC	341 x 595 x 595
	40	4,7 / 5,3	900	—	AC/EC	341 x 595 x 595
P. 560	50	6,1 / 6,8	979	—	AC/EC	358 x 849 x 849
	60	7,2 / 8,5	1159	—	AC/EC	358 x 849 x 849
	70	9,6 / 11,0	1598	—	AC/EC	358 x 849 x 849
Fan coil wall-mounted	7	1,7 / 1,7	360	—	AC	275 x 845 x 180
	9	2,5 / 2,8	551	—	AC	275 x 845 x 180
P. 564	18	3,6 / 4,1	680	—	AC	298 x 940 x 200
	22	4,0 / 4,5	850	—	AC	298 x 940 x 200
Fan coil duct	10	1,5 / 1,8	357	0-70	EC	223 x 633 x 631
	15	2,1 / 2,6	491	0-90	EC	223 x 733 x 631
	20	2,7 / 2,6	599	0-90	EC	223 x 833 x 631
P. 566	25	3,2 / 3,4	642	0-90	EC	223 x 933 x 631
	30	4,8 / 5,0	1068	0-90	EC	223 x 933 x 631
	40	6,7 / 7,1	1293	0-90	EC	223 x 1233 x 653
Fan coil high static duct	7	5,6 / 6,7	1125	0-110	AC/EC	250 x 1200 x 698
	15	13,3 / 15,5	2830	0-200	AC/EC	375 x 1380 x 798
	18	13,9 / 18,0	2830	0-200	AC/EC	375 x 1380 x 798
P. 568	21	17,0 / 17,8	2830	0-200	AC/EC	375 x 1380 x 798
	24	21,2 / 24,3	3736	0-220	AC/EC	450 x 1500 x 798
	27	24,8 / 25,0	3736	0-220	AC/EC	450 x 1500 x 798

1) Data for fan coil comfort, cassette and duct EC/DC fan 2-pipe version. Data for fan coil high static duct AC fan / 2-pipe version. 2) Fan coil comfort: with cabinet / without feet / vertical installation. Fan coil cassette: casing + IRYS COANDA 360 diffuser. Fan coil duct and high static duct: horizontal installation / configuration: rectangular return and discharge.

Aquarea Air Smart fan coil – Floor standing

Slim chassis profile, only 129 mm / RAL 9003 / DC Inverter – maximising comfort and energy savings / Modulated air flow.
Possible configurations: Left or right water connections / 2 or 3 way valves as accessories / On-board or wall mounted control or PCB for analog input (0-10 V)

Optional

Model (the complete model codes are shown in the table below)			P-FAL10	P-FAL20	P-FAL30	P-FAL35	P-FAL40
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
Total cooling capacity [2]		kW	0,43/0,73/0,91	0,75/1,36/2,12	1,15/2,08/2,81	1,32/2,39/3,30	1,36/2,57/3,71
Sensible capacity [2]		kW	0,29/0,51/0,71	0,59/1,04/1,54	0,83/1,51/2,11	1,02/1,84/2,65	1,05/1,98/2,90
Water flow [2]		l/h	73,67/125,07/155,91	128,50/233,01/363,22	197,03/356,36/481,43	226,15/409,48/565,39	—
Water pressure drop [2] [3]		kPa	5,7/10,2/12,1	1,9/4,3/8,2	2,7/9,9/17,1	2,5/8,8/18,0	—
Heating capacity [4]		kW	0,37/0,69/1,00	0,82/1,50/2,19	1,19/2,15/2,99	1,45/2,56/3,73	1,47/2,78/4,23
Water flow [4]		l/h	65,11/120,91/179,87	144,60/269,80/389,71	211,61/380,89/532,55	259,22/456,72/671,86	—
Water pressure drop [3] [4]		kPa	2,6/6,8/9,1	1,5/4,3/9,2	2,7/9,3/19,1	3,0/8,9/21,2	—
Sound levels							
Sound power		dB(A)	37/47/54	37/47/54	37/47/57	37/47/55	37/48/58
Sound pressure [5]		dB(A)	24/33/41	25/34/42	26/34/44	26/35/46	28/38/47
Ventilation							
Number of fans			1	1	1	1	1
Air flow		m³/h	49/91/146	124/210/294	194/318/438	302/410/567	364/479/663
Maximum static pressure		Pa	10	10	13	13	13
Electrical data							
Power supply	V / Phase / Hz	V	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Consumption		W	7,0/9,0/13,0	14,0/18,0/22,0	16,0/20,0/24,0	18,0/22,0/26,5	—
Water connections							
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections		Inch	¾	¾	¾	¾	¾
Dimension and weight							
Dimension / Weight	H x W x D	mm / kg	579 x 680 x 129 / 17	579 x 880 x 129 / 20	579 x 1080 x 129 / 23	579 x 1280 x 129 / 26	579 x 1480 x 129 / 29

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A).

Option 1. Standard configurations with built-in accessories

Fan coil with on-board display		
Left-hand piping, vertical installation, built-in 3 way valve		
P-FAL10SC-HLE		
P-FAL20SC-HLE		
P-FAL30SC-HLE		
P-FAL35SC-HLE		
P-FAL40SC-HLE		
Fan coil with wall-mounted control		
Left-hand piping, vertical installation, built-in 3 way valve		
P-FAL10SC-RLE		
P-FAL20SC-RLE		
P-FAL30SC-RLE		
P-FAL35SC-RLE		
P-FAL40SC-RLE		
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**

Option 2. Configure your own Aquarea Air Smart fan coil – Floor standing unit

Left-hand piping	Right-hand piping
P-FAL10SC-00E	**P-FAL10DC-00E**
P-FAL20SC-00E	**P-FAL20DC-00E**
P-FAL30SC-00E	**P-FAL30DC-00E**
P-FAL35SC-00E	**P-FAL35DC-00E**
P-FAL40SC-00E	**P-FAL40DC-00E**

Control options (required)	On-board display	With Modbus	**PCZ-ECA844**
		With integrated Wi-Fi	**PCZ-EWA844**
	Wall-mounted control	With Modbus	**PCZ-ESE845 + PCZ-EEB749**
		With integrated Wi-Fi	**PCZ-ESE845 + PCZ-EFB749**
	PCB for analog control (0-10 V)		**PCZ-B10842**
Valve kits (optional)	3 way valve with motor		**PCZ-V30720**
	2 way valve with motor		**PCZ-V20139**
Condensate drip tray for horizontal installation (optional)	For P-FAL10		**PCZ-GB0520**
	For P-FAL20		**PCZ-GB0521**
	For P-FAL30		**PCZ-GB0522**
	For P-FAL35		**PCZ-GB0523**
	For P-FAL40		**PCZ-GB0524**

Accessories and options	
PCZ-LC0158	Set of 2 legs to protect water pipes

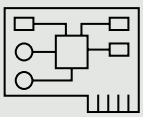
Accessories and options	
PCZ-LC0606	Set of 2 legs to anchor the unit to the floor

Control options.

On-board display with Modbus or integrated Wi-Fi.

Wall-mounted control with Modbus or integrated Wi-Fi.
PCZ-EEB749 / PCZ-EFB749

PCB for analog control (0-10 V).
PCZ-B10842



Optional

Aquarea Air Smart fan coil – Wall-mounted

Slim chassis profile, only 128 mm / RAL 9003 / DC Inverter – maximising comfort and energy savings / Modulated air flow. **Possible configurations:** Left or right water connections / 2 or 3 way valves as accessories / On-board or wall mounted control or PCB for analog input (0-10 V)

Model (the complete model codes are shown in the table below)			P-FMM10	P-FMM15	P-FMM20	P-FMM40
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
Total cooling capacity [2]		kW	0,49/0,88/1,24	0,62/1,08/1,61	0,70/1,21/1,94	1,32/2,66/3,94
Sensible capacity [2]		kW	0,37/0,70/0,98	0,52/0,86/1,27	0,57/1,02/1,52	1,08/2,05/2,92
Water flow [2]		l/h	84,00/150,80/212,40	106,20/185,00/275,80	119,90/207,30/332,40	226,40/455,30/674,30
Water pressure drop [2]		kPa	4,8/10,5/11,7	4,7/5,6/5,1	5,5/5,4/5,3	1,8/6,0/12,1
Heating capacity [3]		kW	0,54/0,98/1,45	0,76/1,30/1,93	0,78/1,49/2,28	1,63/3,04/4,44
Water flow [3]		l/h	97,00/176,30/264,50	139,30/239,80/354,40	141,10/273,30/414,40	296,40/547,00/800,90
Water pressure drop [3]		kPa	5,1/12,0/16,3	4,8/6,3/7,2	6,0/6,4/8,1	2,3/6,9/14,1
Sound levels						
Sound power		dB(A)	35/46/53	36/47/54	37/48/58	38/48/62
Sound pressure [4]		dB(A)	25/33/40	25/34/41	26/34/42	27/37/51
Ventilation						
Air flow		m³/h	84/155/228	124/229/331	138/283/440	230/480/788
Electrical data						
Power supply	V / Phase / Hz	V	230/1/50	230/1/50	230/1/50	230/1/50
Consumption		W	5/8/19	5/9/20	5/11/29	8/23/30
Water connections						
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections		Inch	¾	¾	¾	¾
Dimension and weight						
Dimension / Weight	H x W x D	mm / kg	335 x 815 x 128/14	335 x 1015 x 128/16	335 x 1215 x 128/19	335 x 1215 x 215/24

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A).

Option 1. Standard configurations with built-in accessories

Fan coil with on-board display and wireless IR control		
Right-hand piping, built-in 3 way valve		
P-FMM10DC-QNE		
P-FMM15DC-QNE		
P-FMM20DC-QNE		
P-FMM40DC-QNE		
Fan coil with wall-mounted control		
Right-hand piping, built-in 3 way valve		
P-FMM10DC-RNE		
P-FMM15DC-RNE		
P-FMM20DC-RNE		
P-FMM40DC-RNE		
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**

Valve kits (optional)	
PCZ-V30688	3 way valve with motor for models 10, 15, 20
PCZ-V30718	3 way valve with motor for model 40

Option 2. Configure your own Aquarea Air Smart fan coil – Wall-mounted unit

Fan coil with on-board display and wireless IR control		
Left-hand piping	Right-hand piping	
P-FMM10SC-Q0E	**P-FMM10DC-Q0E**	
P-FMM15SC-Q0E	**P-FMM15DC-Q0E**	
P-FMM20SC-Q0E	**P-FMM20DC-Q0E**	
—	**P-FMM40DC-Q0E**	
Fan coil with wall-mounted control		
Left-hand piping	Right-hand piping	
P-FMM10SC-R0E	**P-FMM10DC-R0E**	
P-FMM15SC-R0E	**P-FMM15DC-R0E**	
P-FMM20SC-R0E	**P-FMM20DC-R0E**	
—	**P-FMM40DC-R0E**	
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**
Fan coil with PCB for analog control (0-10 V)		
Left-hand piping	Right-hand piping	
P-FMM10SC-V0E	**P-FMM10DC-V0E**	
P-FMM15SC-V0E	**P-FMM15DC-V0E**	
P-FMM20SC-V0E	**P-FMM20DC-V0E**	
—	**P-FMM40DC-V0E**	

Valve kits (optional)	
PCZ-V20687	2 way valve with motor for models 10, 15, 20
PCZ-V20139	2 way valve with motor for model 40

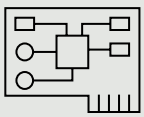
Control options.

On-board display with Modbus.

Wall-mounted control with Modbus or integrated Wi-Fi.

PCZ-EEB749 / PCZ-EFB749

PCB for analog control (0-10 V).



Aquarea Air Smart fan coil – Ducted thin / ducted

Fan coil ducted units with cooling and heating.
Cooling capacity: 0,7 to 5,3 kW.
Heating capacity: 0,7 to 5,8 kW.

Optional controller. Wall-mounted control with Modbus.
PCZ-EEB749

Optional controller. Wall-mounted control with integrated Wi-Fi.
PCZ-EFB749

Optional controller. PCB for analog control (0-10 V).

CHECK PAGE 577 FOR A WIDER SELECTION OF ACCESSORIES

The range at a glance

- Slim profile, only 185 mm for the thin version
- DC Inverter – maximising comfort and energy savings
- Modulated air flow
- Quiet operation
- Centrifugal fan with single motor impeller
- Vertical or horizontal installation

Possible configurations

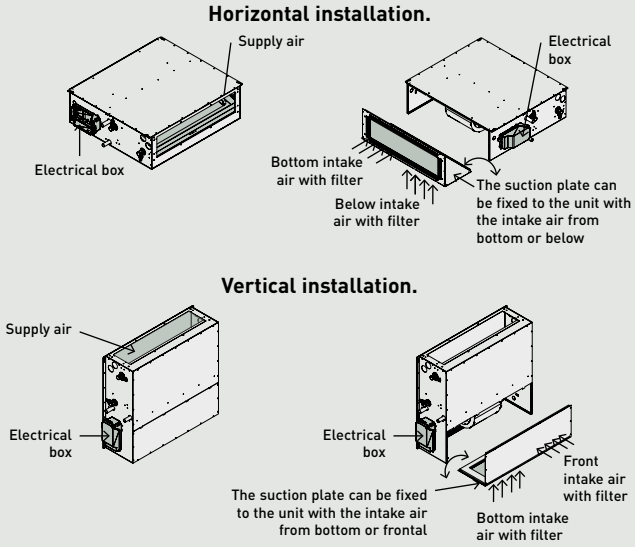
- Left or right water connections
- 2 or 3 way valves as accessories
- Wall-mounted control or PCB for analog input (0-10 V)

High-efficiency ducted fan coil for high comfort and quiet operation thanks to self modulating air flow control.

Ducted thin, designed to fit any space

With a height of only 185 mm, the thin version is even more versatile than the classic version and fits perfectly into any wall or false ceiling with either horizontal or vertical installation.

High installation flexibility.



Technical performance

			Ducted thin					Ducted				
Model (the complete model codes are shown in the table below)			**P-FTN15**	**P-FTN20**	**P-FTN25**	**P-FTN35**	**P-FTN45**	**P-FSN20**	**P-FSN25**	**P-FSN35**	**P-FSN45**	**P-FSN55**
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
Total cooling capacity [2]		kW	0,66/1,14/1,40	1,01/1,84/2,10	1,23/2,17/2,60	1,47/2,40/3,30	1,72/2,80/4,45	0,82/1,37/1,88	1,27/1,86/2,14	1,53/2,38/2,97	1,81/3,22/3,48	1,82/3,97/5,31
Sensible capacity [2]		kW	0,46/0,84/1,05	0,70/1,27/1,50	0,88/1,56/2,10	1,06/1,77/2,45	1,23/2,33/3,20	0,61/0,96/1,48	0,93/1,43/1,56	1,17/1,98/2,92	1,33/2,58/2,95	1,33/2,75/3,65
Water flow [2]		l/h	113/195/270	173/315/405	211/373/510	251/412/610	295/481/805	141/235/322	218/319/367	262/408/509	310/552/596	312/680/910
Water pressure drop [2] [3]		kPa	1,0/3,0/5,0	2,0/5,0/8,0	4,0/10,0/17,0	2,0/5,0/11,0	2,0/6,0/14,0	9,2/11,8/15,7	9,9/14,9/19,4	2,4/2,8/2,9	9,0/12,6/14,6	4,1/16,1/27,2
Heating capacity [4]		kW	0,68/1,32/1,65	1,01/1,80/2,10	1,32/2,32/2,86	1,63/2,76/3,71	1,89/3,98/5,20	0,9/1,48/1,98	1,36/2,04/2,54	1,81/2,63/3,45	1,96/3,77/4,46	1,95/4,23/5,73
Water flow [4]		l/h	115/222/310	170/303/440	235/410/540	288/486/730	329/692/880	159/261/349	239/360/448	319/464/608	346/665/787	347/754/1025
Water pressure drop [3] [4]		kPa	1,0/3,0/6,0	2,0/5,0/9,0	4,0/11,0/18,0	2,0/6,0/13,0	3,0/10,0/15,0	51/12,0/16,3	10,3/15,6/21,5	2,6/2,8/2,9	9,2/15,6/18,4	4,0/16,4/29,3
Sound levels												
Sound power		dB(A)	42/47/53	44/51/58	45/52/58	46/54/60	47/54/61	46/54/58	46/54/58	46/54/57	47/55/58	48/55/60
Ventilation												
Number of fans			1	1	2	2	3	1	1	2	2	3
Air flow		m³/h	90/200/290	140/290/390	190/390/550	230/450/680	250/610/870	120/260/390	180/350/560	240/440/730	260/550/905	280/750/1150
Maximum static pressure		Pa	100	90	120	110	140	90	130	110	140	140
Electrical data												
Power supply	Voltage	V	230	230	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50	50	50
Consumption		W	14/32/80	22/55/140	26/65/160	33/80/160	38/115/230	6/11/24	7/14/31	8/16/34	13/30/38	14/42/85
Degree of protection		IP	X0	X0	X0	X0	X0	X0	X0	X0	X0	X0
Connections												
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections		Inch	¾	¾	¾	¾	¾	¾	¾	¾	¾	¾
Condensate drainage connection		mm	20	20	20	20	20	20	20	20	20	20
Intake air connection	Base x Height	mm	460 x 100	660 x 100	860 x 100	1060 x 100	1320 x 100	460 x 150	660 x 150	860 x 150	1060 x 150	1320 x 150
Return air connection	Base x Height	mm	510 x 100	710 x 100	910 x 100	1110 x 100	1370 x 100	510 x 150	710 x 150	910 x 150	1110 x 150	1370 x 150
Dimension and weight												
Dimension	H x W x D	mm	185 x 590 x 575	185 x 790 x 575	185 x 990 x 575	185 x 1190 x 575	185 x 1440 x 575	240 x 590 x 695	240 x 790 x 695	240 x 990 x 695	240 x 1190 x 695	240 x 1440 x 695
Weight		kg	30	41	45	54	65	32	43	47	56	67

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.

Configure your own Aquarea Air Smart fan coil – Ducted thin / ducted unit

Fan coil with wall-mounted control		
Left-hand piping	Right-hand piping	
P-FTN15005-RE	**P-FTN15R05-RE**	
P-FTN20005-RE	**P-FTN20R05-RE**	
P-FTN25005-RE	**P-FTN25R05-RE**	
P-FTN35005-RE	**P-FTN35R05-RE**	
P-FTN45005-RE	**P-FTN45R05-RE**	
P-FSN20005-RE	**P-FSN20R05-RE**	
P-FSN25005-RE	**P-FSN25R05-RE**	
P-FSN35005-RE	**P-FSN35R05-RE**	
P-FSN45005-RE	**P-FSN45R05-RE**	
P-FSN55005-RE	**P-FSN55R05-RE**	
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**

Fan coil with PCB for analog control (0-10 V)	
Left-hand piping	Right-hand piping
P-FTN15005-JE	**P-FTN15R05-JE**
P-FTN20005-JE	**P-FTN20R05-JE**
P-FTN25005-JE	**P-FTN25R05-JE**
P-FTN35005-JE	**P-FTN35R05-JE**
P-FTN45005-JE	**P-FTN45R05-JE**
P-FSN20005-JE	**P-FSN20R05-JE**
P-FSN25005-JE	**P-FSN25R05-JE**
P-FSN35005-JE	**P-FSN35R05-JE**
P-FSN45005-JE	**P-FSN45R05-JE**
P-FSN55005-JE	**P-FSN55R05-JE**

Valve kits (optional)	
PCZ-V30361	3 way valve with motor

Valve kits (optional)	
PCZ-V20139	2 way valve with motor

*The Aquarea Air range aligns with the Aquarea commercial policy.

Aquarea Air Smart fan coil – Ducted multi zone thin / ducted multi zone

Fan coil ducted units with cooling and heating.
Cooling capacity: 0,5 to 7,6 kW.
Heating capacity: 0,5 to 8,52 kW.

Optional controller. Wall-mounted control with Modbus.
PCZ-EEB749

Optional controller. Wall-mounted control with integrated Wi-Fi.
PCZ-EFB749

Optional controller. PCB for analog control (0-10 V).

CHECK PAGE 580 FOR A WIDER SELECTION OF ACCESSORIES

The range at a glance

- Multi zone management (2-5 zones)
- Slim profile, only 185 mm for the thin version
- DC Inverter – maximising comfort and energy savings
- Modulated air flow
- Quiet operation
- Centrifugal fan with single motor impeller

Possible configurations

- Left or right water connections
- 2 or 3 way valves as accessories
- Wall-mounted control or PCB for analog input (0-10 V)

The ducted Smart fan coil unit with integrated multi zone management.

High installation flexibility.

Single air outlet per zone.

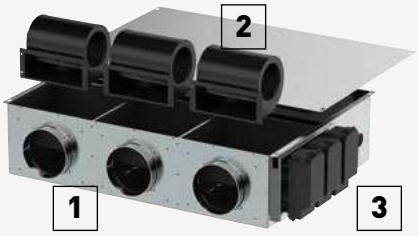
Example:
3 air outlets for 3 independent zones.

Multiple air outlets per zone.

Example:
3 air outlets for 2 independent zones.
Zone 1 with dual channel.
Zone 2 with single channel.

Multi zone management

Thanks to integrated multi zone management and the use of forward-bladed centrifugal brushless EC multi-fans, the fan coil ducted multi zone allow independent management of the different thermal zones, resulting in benefits in terms of efficiency, comfort and quietness.

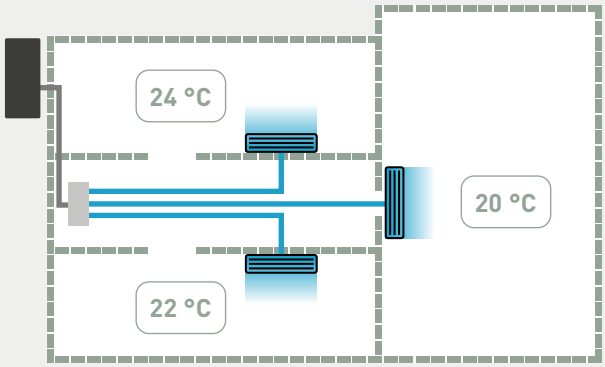


1 | **Air supply plate.**
Built-in air supply plate, number of outlets depending on unit size.

- P-FTQ30/P-FSQ30: 2 outlets DN 160 mm
- P-FTQ45/P-FSQ45: 3 outlets DN 160 mm
- P-FTQ60/P-FSQ60: 4 outlets DN 160 mm
- P-FTQ65/P-FSQ75: 5 outlets DN 160 mm

2 | **Fans.**
Integrated multi-fans for independent management of the different zones.

3 | **Horizontal condensate tray.**
Allows the collection of condensate if the unit is installed horizontally.



Technical performance

			Ducted multi zone thin				Ducted multi zone			
Model (the complete model codes are shown in the table below)			**P-FTQ30**	**P-FTQ45**	**P-FTQ60**	**P-FTQ65**	**P-FSQ30**	**P-FSQ45**	**P-FSQ60**	**P-FSQ75**
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
Total cooling capacity [2]		kW	1,10/1,97 /3,02	1,16/2,97 /4,40	2,02/3,68 /5,70	2,09/4,15 /6,40	0,47/3,80 /3,23	0,66/3,77 /4,57	0,85/4,87 /5,88	1,06/6,31 /7,61
Sensible capacity [2]		kW	0,76 /1,37 /2,15	0,79/2,09 /3,16	1,45/2,67 /4,10	1,61/3,08 /4,60	0,33/2,70 /2,22	0,48/2,62 /3,16	0,63/3,40 /4,10	0,78/4,32 /5,20
Single zone cooling capacity [2]		kW	0,49/1,30 /1,70	0,49/1,30 /1,70	0,49/1,30 /1,70	0,49/1,30 /1,70	—/—/2,10	—/—/2,10	—/—/2,10	—/—/2,10
Single zone sensible capacity [2]		kW	0,31/0,89 /1,23	0,31/0,89 /1,23	0,31/0,89 /1,23	0,31/0,89 /1,23	—/—/1,50	—/—/1,50	—/—/1,50	—/—/1,50
Water flow [2]		l/h	190/338 /530	200/510 /800	346/630 /1030	358/713 /1220	80/651 /553	113/647 /782	146/834 /1008	182,3/1081 /1304
Water pressure drop [2] [3]		kPa	4,0/11,0/22,0	2,0/9,0/18,0	3,0/9,0/18,0	1,0/4,0/9,0	1,8/29,0/54,1	1,2/25,7/36,4	1,0/20,2/28,5	1,6/37,3/52,6
Heating capacity [4]		kW	1,15/2,11 /3,30	1,71/3,19 /4,90	-/5,76/6,30	2,67/4,75 /7,65	0,45/3,90 /3,61	0,68/4,16 /5,08	0,90/5,42 /6,59	1,13/6,87 /8,37
Single zone heating capacity [4]		kW	0,42/1,29 /1,85	0,42/1,29 /1,85	0,42/1,29 /1,85	0,42/1,29 /1,85	—/—/2,20	—/—/2,20	—/—/2,20	—/—/2,20
Water flow [4]		l/h	200/368 /560	296/554 /800	391/699 /1110	464/826 /1305	80/688 /636	120/748 /914	159/975 /1189	199/1230 /1502
Water pressure drop [3] [4]		kPa	4,0/13,0/25,0	3,0/10,0/19,0	3,0/10,0/18,0	2,0/5,0/10,0	1,4/29,0/61,2	1,1/28,9/42,3	0,9/23,1/33,7	1,5/41,4/60,6
Sound levels										
Sound power		dB(A)	40/49/58	42/50/59	42/52/61	43/53/62	—/—/60	—/—/61	—/—/62	—/—/64
Ventilation										
Number of fans			2	3	4	5	2	3	4	5
Air flow		m³/h	145/290 /480	215/435 /720	288/576 /960	360/720 /1200	60/600 /810	90/900 /1215	120/1200 /1620	150/1500 /2025
Single zone air flow		m³/h	50/160/240	50/160/240	50/160/240	50/160/240	60/205/300	60/205/300	60/205/300	60/205/300
Maximum static pressure		Pa	100	100	100	100	100	100	100	100
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Consumption		W	31/66/130	45/102/195	61/135/260	76/162/325	53/140/178	159/420/534	212/560/712	265/700/890
Degree of protection		IP	X0	X0	X0	X0	X0	X0	X0	X0
Connections										
Hydraulic connections type			Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus	Eurokonus
Hydraulic connections		Inch	¾	¾	¾	¾	¾	¾	¾	¾
Condensate drainage connection		mm	20	20	20	20	20	20	20	20
Intake air connection		mm	160	160	160	160	160	160	160	160
Return air connection	Base x Height	mm	630 x 100	830 x 100	1030 x 100	1320 x 100	630 x 150	830 x 150	1030 x 150	1320 x 150
Dimension and weight										
Dimension	H x W x D	mm	185 x 790 x 575	185 x 990 x 575	185 x 1190 x 575	185 x 1440 x 575	240 x 790 x 695	240 x 990 x 695	240 x 1190 x 695	240 x 1440 x 695
Weight		kg	41	45	54	56	43	47	56	67

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.

Configure your own Aquarea Air Smart fan coil – Ducted multi zone thin / ducted multi zone unit

Fan coil with wall-mounted control		
Left-hand piping	Right-hand piping	
P-FTQ30005-RE	**P-FTQ30R05-RE**	
P-FTQ45005-RE	**P-FTQ45R05-RE**	
P-FTQ60005-RE	**P-FTQ60R05-RE**	
P-FTQ65005-RE	**P-FTQ65R05-RE**	
P-FSQ30005-RE	**P-FSQ30R05-RE**	
P-FSQ45005-RE	**P-FSQ45R05-RE**	
P-FSQ60005-RE	**P-FSQ60R05-RE**	
P-FSQ75005-RE	**P-FSQ75R05-RE**	
Control (required, to be ordered separately)	With Modbus	**PCZ-EEB749**
	With integrated Wi-Fi	**PCZ-EFB749**

Fan coil with PCB for analog control (0-10 V)	
Left-hand piping	Right-hand piping
P-FTQ30005-JE	**P-FTQ30R05-JE**
P-FTQ45005-JE	**P-FTQ45R05-JE**
P-FTQ60005-JE	**P-FTQ60R05-JE**
P-FTQ65005-JE	**P-FTQ65R05-JE**
P-FSQ30005-JE	**P-FSQ30R05-JE**
P-FSQ45005-JE	**P-FSQ45R05-JE**
P-FSQ60005-JE	**P-FSQ60R05-JE**
P-FSQ75005-JE	**P-FSQ75R05-JE**

Valve kits (optional)	
PCZ-V30361	3 way valve with motor

Valve kits (optional)	
PCZ-V20139	2 way valve with motor

*The Aquarea Air range aligns with the Aquarea commercial policy.

Flex Air Smart fan coil – Wall-mounted DC fan – FK1

Fan coil wall units with new stylish design and nanoe™ X (Mark 3).
Cooling capacity: 1,9 to 5,2 kW.
Heating capacity: 2,2 to 5,3 kW.

Optional

nanoe™ X as a standard.

Optional controller. CONEX Series, white or black.
CZ-RTC6W/BL/BLW2 or
CZ-RTC6/BL/BLW2

Optional controller. Wired remote controller with Econavi function.
CZ-RTC5B

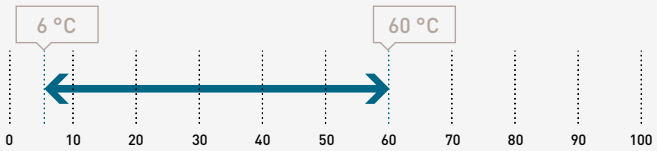
Optional controller. Infrared remote controller for wall-mounted.
CZ-RWS3

Optional controller. Wired remote controller.
PAW-FC-903EC

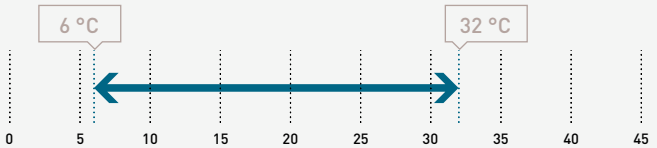
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



Maximum operating pressure: 10 bar.

The range at a glance

- Versions (2-pipes): with and without 3 way valve
- 6 sizes
- DC fan for better efficiency and control
- Air flow from 360 to 1045 m³/h
- nanoe™ X technology to improve protection 24/7
- G1 cleanable air filter
- S-Link available - compatible with Panasonic controllers

Advantages

- Ideal for commercial and residential applications in combination with Aquarea Heat Pumps
- Modern stylish design with flat face and compact size
- Inner and outer motorized louvers with five-step positions
- Six directional piping outlet to adapt to different installations
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Quieter operation than AC fan models
- Very easy servicing through a removable front panel
- Cleanable synthetic-type air filter
- Compatibility with a wide range of controllers

Accessories supplied loose
CZ-RWS3 – infrared remote controller
CZ-RTC5B – wired remote controller with Econavi function
CZ-RTC6W – CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL – CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6 – CONEX wired remote controller (non-wireless), black
CZ-RTC6BL – CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-CENSC1 – Econavi energy saving sensor
PAW-FC-903EC – wired remote controller
CZ-64ESMC3 – system controller for 64 indoor units
CZ-256ESMC3 – centralised controls up to 256 indoor units
CZ-ANC3 – central ON / OFF controller, up to 16 groups, 64 indoor units

Technical performance

Flex Air Smart fan coil – Wall-mounted DC fan - FK1		Standard model	S-19FK1E0	S-24FK1E0	S-27FK1E0	S-36FK1E0	S-45FK1E0	S-52FK1E0
		With 3 way valve	S-19FK1E	S-24FK1E	S-27FK1E	S-36FK1E	S-45FK1E	S-52FK1E
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes								
Total cooling capacity [2]		kW	1,40/1,65/1,90	1,92/2,17/2,41	2,02/2,51/2,73	2,65/3,11/3,61	3,02/3,78/4,50	4,03/4,63/5,23
Sensible capacity [2]		kW	1,10/1,35/1,54	1,50/1,71/1,91	1,59/2,00/2,19	2,12/2,52/2,98	2,25/2,84/3,41	3,04/3,51/4,02
Water flow [2]		l/h	250/295/342	344/389/432	362/449/489	473/556/648	539/680/809	724/830/908
Water pressure drop (coil only)		kPa	4/6/8	8/11/13	9/14/17	16/22/30	19/30/42	34/44/56
Water pressure drop (with 3 way valve) [2]		kPa	18/23/29	25/29/36	26/39/44	42/57/74	53/80/110	90/112/142
Air flow [2]		m³/h	230/276/345	324/361/416	343/434/480	462/572/710	488/603/753	637/753/879
Input power [2]		W	10/11/12	12/12/14	12/14/16	15/19/26	13/17/22	18/23/29
Sound pressure Lp [2] [3]		dB(A)	27	26	29	39	35	40
Sound power Lw [2]		dB(A)	40	39	42	49	47	52
Heating capacity [4]		kW	1,59/1,92/2,23	1,97/2,39/2,72	2,18/2,64/3,01	2,89/3,48/4,03	3,09/4,21/5,13	4,03/4,72/5,33
Water flow [4]		l/h	281/329/381	339/417/481	379/463/533	508/614/715	544/740/898	710/827/931
Water pressure drop (coil only)		kPa	5/8/10	8/12/16	10/15/20	18/27/36	19/36/52	33/44/56
Water pressure drop (with 3 way valve) [4]		kPa	18/24/30	23/31/39	25/36/47	42/60/72	46/82/118	74/97/128
Air flow [4]		m³/h	253/314/406	343/425/489	379/471/545	517/646/765	511/730/925	672/810/960
Input power [4]		W	10/12/13	12/14/15	13/15/17	16/21/28	14/21/32	19/26/35
Sound pressure Lp [3] [4]		dB(A)	24/27/29	22/26/29	23/28/32	30/36/41	28/36/42	34/39/43
Sound power Lw [4]		dB(A)	37/40/43	37/39/42	38/42/45	44/49/55	42/47/51	48/52/56
Water connections								
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
		Inch	1/2	1/2	1/2	1/2	1/2	1/2
nanoe X Generator			Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Dimension and weight								
Dimension	H x W x D	mm	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 890 x 244	295 x 1060 x 249	295 x 1060 x 249
Weight		kg	12	13	13	13	14	14

Energy efficiency class [5]

Flex Air Smart fan coil – Wall-mounted DC fan - FK1								
2-pipes	**FCEER [2]**	**A to E**	**B**	**B**	**B**	**B**	**A**	**A**
	$\eta_{s,c}$	**%**	**144,2**	**166,9**	**172,1**	**169,3**	**226,8**	**213,0**
	FCCOP [4]	**A to E**	**B**	**B**	**B**	**B**	**B**	**B**
	$\eta_{s,h}$	**%**	**160,0**	**167,0**	**170,5**	**173,4**	**208,5**	**198,0**

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent.

Flex Air Smart fan coil – Wall-mounted.

Great flexibility and improved air quality for your projects.

Flex Air Smart fan coil – Wall-mounted unit is the first Panasonic water fan coil integrated with nanoe™ X technology for improved air quality and compatible with individual and centralised PACi NX/VRF controls.

nanoe™ X

COMPATIBILITY WITH PACi NX/VRF CONTROLS

QUIET OPERATION

STYLISH DESIGN

MOTORIZED LOUVERS

COMPACT FOOTPRINT

ErP | DC FAN | SUPER QUIET | COMMERCIAL SMART EDGE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

NEW! Flex Air Smart fan coil – Medium static pressure duct DC fan – FF1

Fan coil medium static pressure ductable units with nanoe™ X (Mark 3).
Cooling capacity: 2,3 to 9,3 kW.
Heating capacity: 2,7 to 9,8 kW.

NEW

Optional

nanoe™ X as a standard.

Optional controller. CONEX Series, white or black.
CZ-RTC6W/BL/BLW2 or CZ-RTC6/BL/BLW2

Optional controller. Infrared remote controller for wall-mounted.
CZ-RWS3

Optional controller. Wired remote controller with touch control.
PAW-FC-907EC

Optional controller. Wired remote controller.
PAW-FC-903EC

Optional controller. SRC - mini BMS controller.

SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

The range at a glance

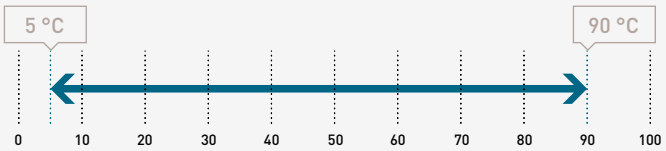
- Versions: 2-pipe and 4-pipe
- 7 sizes
- DC fan for better efficiency and control
- Air flow from 590 to 1500 m³/h
- External static pressure: 120 Pa
- nanoe™ X technology to improve protection 24/7
- S-Link available - compatible with Panasonic controllers

Advantages

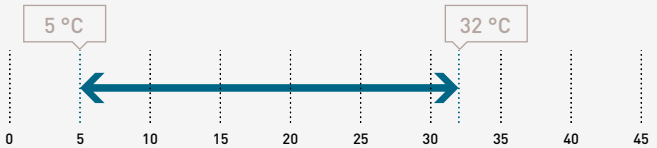
- Ideal for commercial and residential applications with a low height for all sizes
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Efficiency class: A in cooling and heating modes for all sizes
- Flexible hydraulic connection right/left and right electrical connection
- Air return and discharge configuration: In line (I) or from the same side (U)
- Different aeraulic plenum configurations: rectangular or Circular Ø200 mm
- Compatibility with a wide range of controllers
- G1 cleanable synthetic-type air filter
- Very easy servicing

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air Smart fan coil*			S-23FF1E	S-28FF1E	S-40FF1E	S-50FF1E	S-70FF1E	S-80FF1E	S-93FF1E
Fan speed [1]			**Max**	**Max**	**Max**	**Max**	**Max**	**Max**	**Max**
2-pipes									
Total cooling capacity [2]		kW	2,30	2,80	4,00	5,00	7,00	8,00	9,30
Heating capacity [3]		kW	2,70	3,30	4,20	5,20	7,50	8,30	9,80
4-pipes									
Total cooling capacity [2]		kW	2,14	2,71	3,74	4,75	6,87	7,31	8,71
Heating capacity [4]		kW	4,95	5,96	5,16	7,10	8,56	10,16	11,36
Ventilation									
Air flow [5]	2-pipes	m³/h	590	680	576	980	1230	1180	1500
	4-pipes	m³/h	420	600	460	780	1110	1110	1360
External static pressure		Pa	120	120	120	120	120	120	120
Water connections									
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Water connections		Inch	1/2	1/2	1/2	3/4	3/4	3/4	3/4
Dimension and weight									
Dimension	H x W x D	mm	250 x 800 x 730	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730
Weight		kg	26	26	33	33	33	47	47

Tentative data

Energy efficiency class [6]

Flex Air Smart fan coil									
2-pipes	**FCEER**	**A to E**	**A**	**A**	**A**	**A**	**A**	**A**	**A**
	FCCOP	**A to E**	**A**	**A**	**A**	**A**	**A**	**A**	**A**
4-pipes	**FCEER**	**A to E**	**A**	**A**	**A**	**A**	**A**	**A**	**A**
	FCCOP	**A to E**	**A**	**A**	**A**	**A**	**A**	**A**	**A**

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C.
4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) According to Eurovent 6/10 (air flow test method) and 8/12 (sound test method). 6) According to Eurovent. *Available in Summer 2026.

Accessories and options
2W or 3W – 2 way or 3 way valves
CB – Circuit breakers
PUMP – Drain pump
EH – Electric heaters (from 500 W to 2500 W)
Fresh air intake Ø 100 mm
FH – Fuse holder

Accessories and options
G2 / G3 / G4 filters
Other speeds configuration (standard factory set speeds in technical table)
Many air inlet/outlet configurations
HL/ER – Hydraulic left – electric right
HR/ER – Hydraulic right – electric right

Tentative data

Accessories supplied loose
SRC – Smart remote control – Mini building management system (only with Modbus RTU)
CZ-RTC6W – CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL – CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6 – CONEX wired remote controller (non-wireless), black

Accessories supplied loose
CZ-RTC6BL – CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2 – CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RWS3 + CZ-RWRC3 – Infrared remote controller and receiver
PAW-FC-907EC – Wired remote controller with touch control
PAW-FC-903EC – Wired remote controller
KIT REMOTE SENSOR – Remote sensor for ducted unit

Tentative data

ErP | DC FAN | SUPER QUIET | COMMERCIAL SMART EDGE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

Flex Air fan coil – Comfort AC fan

Fan coil floor and ceiling units with cooling and heating.
Cooling capacity: 0,6 to 6,9 kW.
Heating capacity: 0,6 to 7,4 kW.

Optional controller.
WRC remote control.

Optional controller.
SRC - mini BMS controller.

Optional controller.
Electronic controller TControl POD glass.

Optional controller.
Electronic controller TControl EASY 3S.

Optional controller.
Wired remote controller with touch control.
PAW-FC-907AC

Optional controller.
Wired remote controller.
PAW-FC-903AC

Optional controller.
Advanced wired remote controller.
PAW-FC-RC1

SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 7 sizes
- 5-speed AC fan - standard factory set speeds: S1,S3,S5
- Air flow from 94 to 1064 m³/h
- Configuration: universal installation units (vertical or horizontal) with or without cabinet
- Left or right water connections
- Many air inlet/outlet configurations
- G2 air filter (G3 as an option)

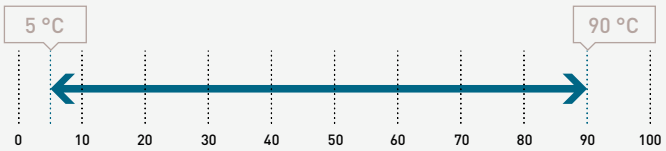
Advantages

- Silent units
- New casing design for an increased robustness
- Harmonious and aesthetic RAL 9003 painted cabinet
- Valves, condensate drain pan and drain pump factory mounted
- 100% factory tested

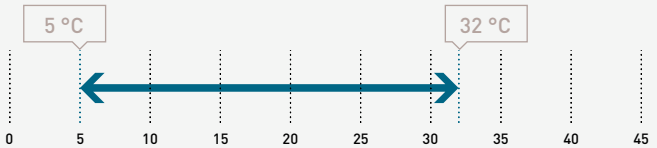
Accessories and options
2W or 3W – 2 way or 3 way valves
4-pipes kit (additional coil)
CB – Circuit breakers
PUMP – Drain pump
EH – Electric heaters (from 500 W to 2500 W)
FC/FCG – Feet with/without grid
FH – Fuse holders
G3 filter
DG – Horizontal or vertical drain guard (with valve)
Many air inlet/outlet configurations
C/O – Electromechanical sensor for automatic changeover

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



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Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – Comfort AC fan			P-FC10	P-FC20	P-FC30	P-FC40	P-FC50	P-FC60	P-FC70
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes									
Total cooling capacity [2]		kW	0,66/1,00/1,45	0,61/0,96/1,38	0,95/1,88/2,37	1,14/2,28/3,02	1,71/3,16/4,64	2,57/4,33/5,53	3,24/5,84/6,91
Sensible capacity [2]		kW	0,48/0,77/1,05	0,43/0,70/1,02	0,78/1,44/1,80	0,83/1,66/2,23	1,24/2,23/3,27	1,81/3,14/4,25	2,26/4,11/4,85
Water flow [2]		l/h	114/172/250	105/165/238	164/324/408	196/393/520	295/544/799	443/746/953	558/1006/1190
Water pressure drop [2] [3]		kPa	9,17/19,5/39,1	2,65/4,62/7,43	5,8/17,6/26,3	17,0/21,5/35,2	7,5/22,8/47,1	12,6/33,9/54,4	4,4/13,9/19,4
Heating capacity [4]		kW	0,63/1,18/1,71	0,63/1,03/1,53	1,00/1,86/2,49	1,14/2,28/3,18	1,79/3,47/4,81	2,45/4,22/5,63	3,45/6,27/7,41
Water flow [4]		l/h	109/203/295	109/177/264	172/320/429	196/393/548	308/598/829	422/727/970	594/1080/1276
Water pressure drop [3] [4]		kPa	5,9/17,3/33,8	2,76/5,06/8,54	5,8/16,2/27,0	5,0/15,6/28,1	6,1/20,7/38,5	18,6/52,4/91,4	4,9/16,0/22,3
4-pipes									
Total cooling capacity [2]		kW	0,63/0,88/1,24	0,87/1,34/1,73	0,91/1,80/2,28	0,98/2,14/2,85	1,57/2,88/4,13	2,60/4,39/5,61	3,17/5,62/6,58
Sensible capacity [2]		kW	0,46/0,67/0,91	0,65/1,02/1,36	0,75/1,39/1,74	0,71/1,57/2,10	1,14/2,04/2,92	1,82/3,18/4,28	2,21/3,96/4,62
Water flow [2]		l/h	109/152/214	150/231/298	157/310/393	169/369/491	270/496/711	448/756/966	546/968/1133
Water pressure drop [2] [3]		kPa	7,6/13,9/26,3	2,33/4,44/6,64	2,8/8,6/13,1	5,8/20,5/33,6	3,9/11,6/22,8	10,2/27,7/44,5	5,3/16,2/22,1
Heating capacity [5]		kW	0,63/1,00/1,41	1,00/1,40/1,68	1,28/1,81/2,13	1,22/2,21/2,85	2,01/3,19/4,08	2,71/4,24/5,33	3,65/5,00/5,90
Water flow [5]		l/h	54/86/121	86,1/121/145	110/156/183	105/190/245	173/275/351	233/365/459	314/431/508
Water pressure drop [3] [5]		kPa	1,2/2,1/3,3	1,15/2,2/3,12	2,8/4,7/6,1	5,1/13,9/21,8	5,7/12,5/19,4	11,6/24,8/37	35,4/60,7/81,2
Sound levels									
Sound power	2-pipes	dB(A)	33/40/49	31/43/50	30/45/52	43/47/51	34/43/56	38/51/58	43/56/61
	4-pipes	dB(A)	33/40/49	31/43/50	30/45/52	33/44/51	34/46/56	38/51/58	43/56/61
Sound pressure [6]	2-pipes	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52
	4-pipes	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52
NR [6]	2-pipes		19/26/35	17/29/36	16/31/38	16/30/37	20/32/42	24/37/44	29/42/47
	4-pipes		19/26/35	17/29/36	16/31/38	16/30/37	20/32/42	24/37/44	29/42/47
Ventilation									
Number of fans			1	1	1	2	2	2	2
Air flow	2-pipes	m³/h	94/190/283	68/104/196	138/274/390	270/311/417	253/486/716	350/640/933	480/893/1064
	4-pipes	m³/h	95/168/253	89/161/241	132/263/369	148/335/467	242/466/671	334/614/885	470/859/1012
Filter			G2	G2	G2	G2	G2	G2	G2
Electrical data									
Power supply	Voltage	V	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	13/24/36	13/18/31	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147
	4-pipes	W	13/24/36	11/18/28	16/37/44	15/37/55	28/54/70	37/74/104	53/99/145
Electric heater		W	500	500	500/1000	1250	1250/2500	1250/2500	1250/2500
Water connections									
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	½	½	½	½	½	½	¾
4-pipes	Heating	Inch	½	½	½	½	½	½	½
Dimension									
With cabinet - without feet	H x W x D	mm	477 x 766 x 225	477 x 766 x 225	477 x 951 x 225	477 x 1136 x 225	477 x 1321 x 225	477 x 1506 x 225	575 x 1319 x 225
Without cabinet	H x W x D	mm	430 x 570 x 220	430 x 570 x 220	430 x 753 x 220	430 x 938 x 220	430 x 1122 x 220	430 x 1307 x 220	530 x 1121 x 220
Weight									
With cabinet	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37
Without cabinet	2 / 4-pipes	kg	13/14	13/14	15/16	20/22	22/24	26/28	27/29

Energy efficiency class [7]

Flex Air fan coil – Comfort AC fan									
2-pipes	**FCEER**	**A to E**	**E**	**E**	**D**	**D**	**D**	**D**	**D**
	FCCOP	**A to E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**
4-pipes	**FCEER**	**A to E**	**E**	**D**	**D**	**D**	**E**	**D**	**D**
	FCCOP	**A to E**	**E**	**D**	**D**	**D**	**E**	**E**	**E**

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 7) According to Eurovent. *Standard configuration with left hand hydraulic connection. G2 air filter included as standard.

Accessories supplied loose
KIT Plogic – Kit Plogic control board
KIT BRC – Kit basic remote control (only with Plogic control board)
KIT WRC – Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 – Kit Plogic Modbus board
Other speeds configuration (standard factory set speeds in technical table)
SRC – Smart remote control – Mini building management system (only with Modbus RTU)
Suspension kit
TCEASY 2P/4P – Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

Accessories supplied loose
TCEASY 2P+C/O – Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P – Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH – Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907AC – Wired remote controller with touch control
PAW-FC-903AC – Wired remote controller
PAW-FC-RC1 – Advanced wired remote controller

ErP | SUPER QUIET | COMMERCIAL SMART EDGE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE

Flex Air fan coil – Comfort EC fan

Fan coil floor and ceiling units with cooling and heating.
Cooling capacity: 0,5 to 9,1 kW.
Heating capacity: 0,6 to 12,9 kW.

Optional controller.
WRC remote control.

Optional controller.
SRC - mini BMS controller.

Optional controller.
Electronic controller
TControl POD glass.

Optional controller.
Electronic controller
TControl EASY 3S.

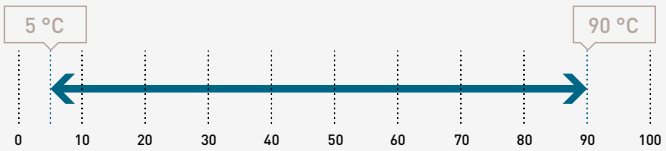
Optional controller.
Wired remote controller
with touch control.
PAW-FC-907EC

Optional controller.
Wired remote controller.
PAW-FC-903EC

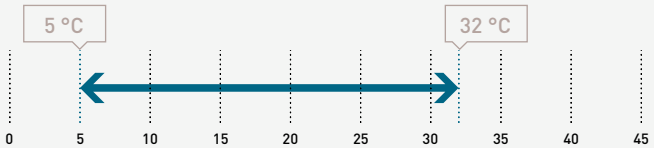
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 8 sizes
- Low energy consumption EC fan: 100% controllable via a 0-10 V signal or 3 operating speeds
- Air flow from 91 to 1548 m³/h
- Configuration: universal installation units (vertical or horizontal) with or without cabinet
- Left or right water connections
- Many air inlet/outlet configurations
- G2 air filter (G3 as an accessory)

Advantages

- Excellent performances: FCEER and FCCOP up to "A"
- Silent units
- New casing design for an increased robustness
- Harmonious and aesthetic RAL 9003 painted cabinet
- Valves, condensate drain pan and drain pump factory mounted
- 100% factory tested

Accessories and options
2W or 3W – 2 way or 3 way valves
4-pipes kit (additional coil)
CB – Circuit breakers
PUMP – Drain pump
EH – Electric heaters (from 500 W to 2500 W)
FC/FCG – Feet with/without grid
FH – Fuse holders
G3 filter
DG – Horizontal or vertical drain guard (with valve)
Many air inlet/outlet configurations
C/O – Electromechanical sensor for automatic changeover

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – Comfort EC fan			P-FC10	P-FC20	P-FC30	P-FC40	P-FC50	P-FC60	P-FC70	P-FC80
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes										
Total cooling capacity [2]		kW	0,59/1,16/1,96	0,48/0,84/1,31	0,67/1,41/1,83	1,34/2,93/4,19	1,15/2,59/3,41	1,98/4,45/5,24	2,30/4,29/5,91	4,59/6,13/8,36
Sensible capacity [2]		kW	0,48/1,00/1,76	0,36/0,65/1,03	0,47/1,04/1,34	0,95/2,10/3,00	0,79/1,72/2,25	1,35/3,51/4,02	1,91/4,10/4,96	3,32/4,51/6,28
Water flow [2]		l/h	102/200/338	105/226/365	141/336/505	231/505/722	231/615/858	341/767/903	439/958/1128	791/1056/1440
Water pressure drop [2] [3]		kPa	7,5/25,7/69,5	1,4/4,3/9,3	5,9/21,8/42,9	6,4/24,3/46,3	4,9/28,7/53,9	7,8/35,8/49,0	2,7/12,6/17,5	14,1/21,4/37,6
Heating capacity [4]		kW	0,67/1,30/2,31	0,68/1,04/2,52	0,80/1,72/2,66	1,11/2,48/4,46	1,38/3,89/5,19	1,95/4,93/5,82	3,05/5,81/7,17	4,21/5,80/8,43
Water flow [4]		l/h	115/224/398	117/264/434	138/296/458	191/427/768	238/670/894	336/849/1002	525/1001/1235	798/1101/1598
Water pressure drop [3] [4]		kPa	6,5/20,6/59,1	1,7/5,5/12,4	4,1/14,2/30,4	4,8/18,1/51,9	3,8/25,7/44,6	12,2/70,7/97,5	3,9/13,8/20,9	14,4/23,1/45,6
4-pipes										
Total cooling capacity [2]		kW	0,40/0,64/1,41	0,57/1,20/2,18	0,75/1,84/2,93	1,03/2,20/3,52	1,17/3,45/4,39	1,69/3,90/4,69	2,44/4,88/6,06	4,44/5,86/9,07
Sensible capacity [2]		kW	0,30/0,51/1,24	0,43/0,96/1,76	0,55/1,44/2,28	0,73/1,57/2,58	0,92/2,61/3,28	1,12/3,05/3,63	1,83/3,61/4,53	3,20/4,31/6,84
Water flow [2]		l/h	68,9/109/243	98,2/207/376	129/317/505	177/379/606	202/594/756	291/672/808	420/841/1044	765/1009/1562
Water pressure drop [2] [3]		kPa	5,2/10,5/40,1	1,3/3,8/9,7	4,0/13,7/28,0	9,3/27,8/58,9	2,3/16,2/25,6	4,6/22,0/31,4	3,2/12,3/18,8	18,8/30,6/67,2
Heating capacity [5]		kW	0,61/1,13/1,87	0,79/1,33/2,09	1,41/2,01/2,77	1,57/2,49/3,62	2,18/3,34/4,10	1,81/4,05/4,81	3,45/4,67/5,53	5,74/7,99/12,90
Water flow [5]		l/h	52,5/97,3/161	68/115/180	121/173/239	135/214/312	188/288/353	156/349/414	297/402/476	494/688/1111
Water pressure drop [3] [5]		kPa	1,1/2,4/4,8	<1/2,0/4,8	7,9/12,3/18,6	10,9/22,2/41,1	6,5/13,6/19,6	16,1/45,3/57,5	32,2/53,9/72,4	19,2/34,5/83,1
Sound levels										
Sound power	2-pipes	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	45/57/59	51/56/64
	4-pipes	dB(A)	34/43/54	34/47/60	31/50/59	29/44/56	32/51/57	32/54/58	46/57/64	51/56/64
Sound pressure [6]	2-pipes	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55
	4-pipes	dB(A)	25/34/45	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55
NR [6]	2-pipes		20/33/46	20/33/46	17/36/45	15/30/38	16/37/43	18/40/44	26/40/45	37/42/50
	4-pipes		20/29/40	20/33/46	17/36/45	15/30/38	16/37/43	18/40/44	26/40/45	37/42/50
Ventilation										
Number of fans			1	1	1	2	2	2	2	3
Air flow	2-pipes	m³/h	108/228/417	98/134/227	119/257/345	170/412/678	203/577/816	245/737/912	350/641/894	500/680/1063
	4-pipes	m³/h	76/110/226	84/200/380	123/297/540	148/298/524	185/587/755	205/668/845	329/798/989	660/884/1548
Filter			G2	G2	G2	G2	G2	G2	G2	G2
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	7/12/41	7/13/41	6/16/42	2/13/43	4/23/46	4/30/54	12/35/77	23/42/108
	4-pipes	W	5/7/17	7/13/40	6/14/40	2/11/39	4/23/44	4/28/52	13/37/84	22/41/116
Electric heater		W	500	500	500/1000	1250	1250/2500	1250/2500	1250/2500	1250/2500
Water connections										
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	½	½	½	½	½	½	¾	¾
4-pipes	Heating	Inch	½	½	½	½	½	½	½	½
Dimension										
With cabinet - without feet	H x W x D	mm	477 x 766 x 225	477 x 766 x 225	477 x 951 x 225	477 x 1136 x 225	477 x 1321 x 225	477 x 1506 x 225	575 x 1319 x 225	575 x 1506 x 225
Without cabinet	H x W x D	mm	430 x 570 x 220	430 x 570 x 220	430 x 753 x 220	430 x 938 x 220	430 x 1122 x 220	430 x 1307 x 220	530 x 1121 x 220	530 x 1316 x 220
Weight										
With cabinet	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37	47/49
Without cabinet	2 / 4-pipes	kg	13/14	13/14	15/16	20/22	22/24	26/28	27/29	38/40

Energy efficiency class [7]

Flex Air fan coil – Comfort EC fan										
2-pipes	**FCEER**	**A to E**	**C**	**D**	**B**	**A**	**A**	**A**	**B**	**B**
	FCCOP	**A to E**	**D**	**D**	**C**	**B**	**A**	**B**	**B**	**C**
4-pipes	**FCEER**	**A to E**	**C**	**C**	**B**	**A**	**B**	**B**	**B**	**A**
	FCCOP	**A to E**	**C**	**C**	**B**	**A**	**B**	**B**	**B**	**A**

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) Pressure loss by corresponding nominal flow. 4) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 5) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 7) According to Eurovent. *Standard configuration with left hand hydraulic connection. G2 air filter included as standard.

Accessories supplied loose
KIT Plogic – Kit Plogic control board
KIT BRC – Kit basic remote control (only with Plogic control board)
KIT WRC – Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 – Kit Plogic Modbus board
Other speeds configuration (standard factory set speeds in technical table)
SRC – Smart remote control – Mini building management system (only with Modbus RTU)
Suspension kit

Accessories supplied loose
TCEASY 2P/4P – Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed
TCEASY 2P+C/O – Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P – Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH – Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907EC – Wired remote controller with touch control
PAW-FC-903EC – Wired remote controller

ErP | EC MOTOR GREEN VENTILATION | SUPER QUIET | VERY HIGH PERFORMANCE | COMMERCIAL SMART EDGE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Flex Air fan coil – Cassette AC fan

Fan coil cassette units with cooling and heating.
Cooling capacity: 1,3 to 8,6 kW.
Heating capacity: 1,1 to 12,8 kW.

Optional controller.
WRC remote control.

Optional controller.
SRC - mini BMS controller.

Optional controller.
Electronic controller TControl POD glass.

Optional controller.
Electronic controller TControl EASY 3S.

Optional controller.
Wired remote controller with touch control.
PAW-FC-907AC

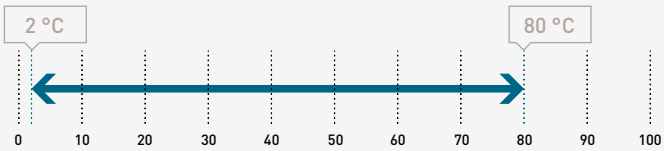
Optional controller.
Wired remote controller.
PAW-FC-903AC

Optional controller.
Advanced wired remote controller.
PAW-FC-RC1

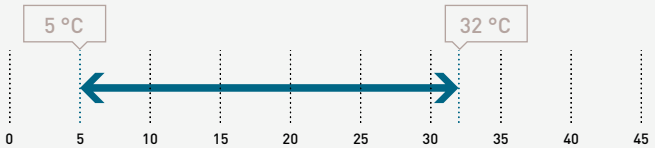
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- 3-speed AC fan
- Air flow from 360 to 1447 m³/h
- Integrated condensate drain pump
- G1 cleanable air filter

Advantages

- Aesthetic and IRYS COANDA design diffusers with strong coanda effect
- Silent units
- Easy installation and maintenance: all connections on the same side. Electrical box and valves outside of the unit
- Low built-in-height
- Perfect integration into standard 600 x 600 ceiling tiles*
- Valves and drain pump factory mounted

*From 20 to 40 with IRYS COANDA diffusers.

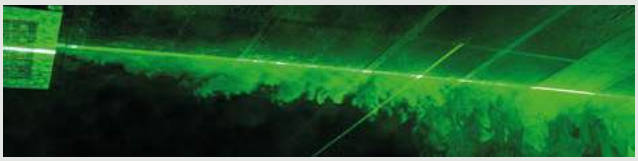
IRYS COANDA diffusers.

For a unique design and a strong coanda effect.

IRYS COANDA 360.
360° air diffusion.

IRYS COANDA 180.
180° air diffusion.

Coanda effect measurements taken in our Panasonic development center.



Accessories and options
2W or 3W - 2 way or 3 way valves
Auxiliary drain pan
EH - Electric heaters (from 1500 W to 3000 W)
KIT C/O - Kit electromechanical sensor for automatic changeover
Air distribution kit
G4 filter

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – Cassette AC fan			P-FQ20	P-FQ30	P-FQ40	P-FQ50	P-FQ60	P-FQ70
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes								
Total cooling capacity [2]		kW	1,54/1,76/2,36	1,87/2,87/3,99	2,78/3,49/4,69	3,35/4,43/6,07	3,69/5,46/7,18	4,04/6,48/8,61
Sensible capacity [2]		kW	1,29/1,48/1,98	1,41/2,17/3,04	2,08/2,67/3,62	2,52/3,35/4,47	2,67/4,06/5,42	2,97/4,85/6,34
Water flow [2]		l/h	265/303/404	323/493/683	478/597/801	576/762/1042	636/937/1233	695/1111/1476
Water pressure drop [2]		kPa	4,0/5,0/10,0	3,0/7,0/14,0	6,0/10,0/18,0	7,0/12,0/22,0	3,0/6,0/11,0	5,0/12,0/20,0
Heating capacity [3]		kW	1,92/2,17/2,74	1,94/3,15/3,68	3,16/3,92/5,28	3,80/5,08/6,84	3,85/6,26/8,51	4,38/7,95/10,28
Water flow [3]		l/h	331/374/472	334/543/634	544/675/909	655/875/1178	663/1078/1466	754/1369/1771
Water pressure drop [3]		kPa	6,0/7,0/10,0	3,0/9,0/11,0	7,0/10,0/17,0	8,0/13,0/22,0	3,0/8,0/14,0	6,0/17,0/26,0
4-pipes								
Total cooling capacity [2]		kW	1,29/1,48/1,97	1,99/2,68/3,37	2,55/3,21/4,00	—	2,97/4,96/6,63	3,17/6,01/7,55
Sensible capacity [2]		kW	1,18/1,38/1,84	1,49/2,07/2,65	2,03/2,58/3,30	—	2,23/3,77/5,06	2,38/4,68/5,95
Water flow [2]		l/h	232/258/359	342/465/576	437/563/683	—	511/851/1137	543/1030/1294
Water pressure drop [2]		kPa	6,0/8,0/13,0	4,0/7,0/11,0	6,0/10,0/15,0	—	5,0/14,0/24,0	6,0/20,0/30,0
Heating capacity [4]		kW	1,09/1,27/1,67	3,10/4,40/5,46	4,32/5,00/5,80	—	5,28/7,79/10,04	6,43/10,07/12,77
Water flow [4]		l/h	94/109/144	267/379/470	372/431/500	—	455/671/865	554/867/1100
Water pressure drop [4]		kPa	15,0/17,0/28,0	7,0/13,0/20,0	13,0/17,0/23,0	—	4,0/7,0/11,0	5,0/11,0/16,0
Sound levels								
Sound power	2-pipes	dB(A)	38/42/49	35/47/53	42/48/57	35/40/49	38/46/54	40/52/59
	4-pipes	dB(A)	37/41/49	35/47/53	42/48/57	—	38/46/54	40/52/59
Sound pressure [5]	2-pipes	dB(A)	27/31/40	26/35/44	33/39/48	26/31/40	29/37/45	31/43/50
	4-pipes	dB(A)	27/31/40	26/35/44	33/39/48	—	29/37/45	31/43/50
NR [5]	2-pipes		23/27/35	20/30/39	28/34/43	21/26/35	22/32/40	25/38/50
	4-pipes		23/27/35	20/30/39	28/34/43	—	22/32/40	25/38/45
Ventilation								
Number of fans			1	1	1	1	1	1
Air flow		m³/h	360/450/659	320/504/734	486/626/900	529/720/979	500/824/1159	601/1080/1447
Filter			G1	G1	G1	G1	G1	G1
Electrical data								
Power supply	Voltage	V	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	25/35/58	17/34/58	38/58/99	28/41/66	34/61/88	44/92/125
	4-pipes	W	25/35/58	17/34/58	38/58/99	—	34/61/88	44/92/125
Electric heater		W	1500	2500	2500	2x1500	2x1500	2x1500
Water connections								
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	¾	¾	¾	1	1	1
4-pipes	Heating	Inch	½	½	½	—	¾	¾
Dimension and weight								
With plastic diffuser	H x W x D	mm	334 x 720 x 720	334 x 720 x 720	334 x 720 x 720	339 x 960 x 960	339 x 960 x 960	339 x 960 x 960
With IRYS COANDA 180	H x W x D	mm	353 x 595 x 595	353 x 595 x 595	353 x 595 x 595	366 x 849 x 849	366 x 849 x 849	366 x 849 x 849
With IRYS COANDA 360	H x W x D	mm	341 x 595 x 595	341 x 595 x 595	341 x 595 x 595	358 x 849 x 849	358 x 849 x 849	358 x 849 x 849
Weight		kg	14,8	16,5	16,5	37,1	37,1	39,6

Energy efficiency class [6]

Flex Air fan coil – Cassette AC fan								
2-pipes	**FCEER**	**A to E**	**D**	**C**	**D**	**C**	**C**	**C**
	FCCOP	**A to E**	**E**	**D**	**D**	**C**	**C**	**D**
4-pipes	**FCEER**	**A to E**	**E**	**C**	**D**	**—**	**C**	**D**
	FCCOP	**A to E**	**E**	**C**	**D**	**—**	**C**	**C**

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 6) According to Eurovent. *Drain pump and G1 air filter are included as standard.

Accessories supplied loose
Plastic or metallic (IRYS COANDA) diffusers (mandatory): - IC180 G4 - Kit diffuser IRYS COANDA 180° with G4 filter - IC360 G4 - Kit diffuser IRYS COANDA 360° with G4 filter
KIT Plogic - Kit Plogic control board
KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 - Kit Plogic Modbus board
IRC - Kit infrared remote control for Plogic
SRC - Smart remote control - Mini building management system (only with Modbus RTU)

Accessories supplied loose
TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed
TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD GLASS AC - Kit controller, Modbus, HMI-integrated, AC fan speed, black or white
PAW-FC-907AC – Wired remote controller with touch control
PAW-FC-903AC – Wired remote controller
PAW-FC-RC1 - Advanced wired remote controller

ErP | SUPER QUIET | COMMERCIAL SMART EDGE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Flex Air fan coil – Cassette EC fan

Fan coil cassette units with cooling and heating.
Cooling capacity: 1,3 to 9,6 kW.
Heating capacity: 1,1 to 14,0 kW.

Optional controller.
WRC remote control.

Optional controller.
SRC - mini BMS controller.

Optional controller.
Electronic controller TControl POD glass.

Optional controller.
Electronic controller TControl EASY 3S.

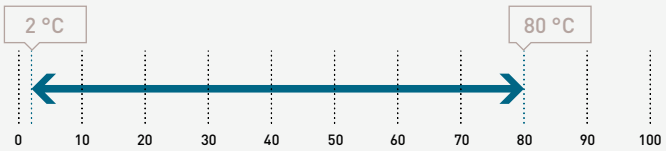
Optional controller.
Wired remote controller with touch control.
PAW-FC-907EC

Optional controller.
Wired remote controller.
PAW-FC-903EC

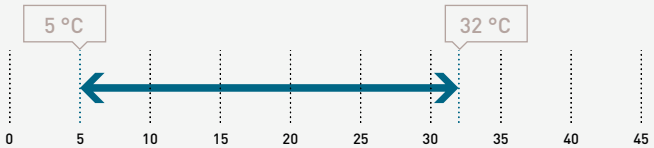
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- Low energy consumption EC fan: 100% controllable via a 0-10 V signal or 3 operating speeds
- Air flow from 360 to 1598 m³/h
- Integrated condensate drain pump
- G1 cleanable air filter

Advantages

- Excellent performances: FCEER and FCCOP up to "A"
- Aesthetic and IRYS COANDA design diffusers with strong coanda effect
- Silent units
- Easy installation and maintenance: all connections on the same side. Electrical box and valves outside of the unit
- Low built-in-height
- Perfect integration into standard 600 x 600 ceiling tiles*
- Valves and drain pump factory mounted

*From 20 to 40 with IRYS COANDA diffusers.

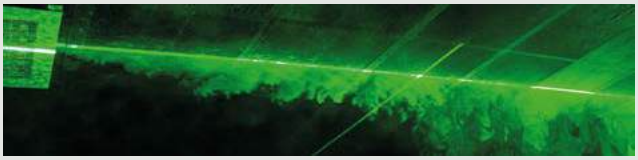
IRYS COANDA diffusers.

For a unique design and a strong coanda effect.

IRYS COANDA 360.
360° air diffusion.

IRYS COANDA 180.
180° air diffusion.

Coanda effect measurements taken in our Panasonic development center.



Accessories and options
2W or 3W - 2 way or 3 way valves
Auxiliary drain pan
KIT ECO - Kit Ecospeed card
EH - Electric heaters (from 1500 W to 3000 W)
KIT C/O - Kit electromechanical sensor for automatic changeover
Air distribution kit
G4 filter

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – Cassette EC fan			P-FQ20	P-FQ30	P-FQ40	P-FQ50	P-FQ60	P-FQ70
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes								
Total cooling capacity [2]		kW	1,55/1,77/2,38	1,88/2,88/4,00	2,79/3,51/4,71	3,36/4,44/6,09	3,71/5,48/7,20	4,05/6,51/9,61
Sensible capacity [2]		kW	1,30/1,49/2,00	1,42/2,18/3,05	2,09/2,69/3,64	2,53/3,36/4,49	2,69/4,08/5,44	2,98/4,88/7,21
Water flow [2]		l/h	267/306/409	325/497/688	481/604/808	579/765/1050	640/944/1243	700/1119/1649
Water pressure drop [2]		kPa	4,0/5,0/10,0	3,0/7,0/14,0	6,0/10,0/18,0	7,0/12,0/22,0	3,0/6,0/11,0	5,0/12,0/25,0
Heating capacity [3]		kW	1,92/2,17/2,74	1,94/3,15/3,68	3,16/3,92/5,28	3,80/5,08/6,84	3,85/6,26/8,51	4,38/7,95/11,03
Water flow [3]		l/h	331/374/472	334/543/634	544/675/909	655/875/1178	663/1078/1466	754/1369/1900
Water pressure drop [3]		kPa	6,0/7,0/10,0	3,0/9,0/11,0	7,0/10,0/17,0	8,0/13,0/22,0	3,0/8,0/14,0	6,0/17,0/29,0
4-pipes								
Total cooling capacity [2]		kW	1,30/1,49/1,99	2,00/2,69/3,38	2,56/3,23/4,02	—	2,99/4,98/6,65	3,18/6,04/7,97
Sensible capacity [2]		kW	1,19/1,39/1,86	1,50/2,08/2,66	2,04/2,60/3,32	—	2,25/3,79/5,08	2,39/4,71/6,34
Water flow [2]		l/h	234/262/344	344/464/581	442/556/690	—	516/858/1144	549/1041/1366
Water pressure drop [2]		kPa	6,0/8,0/13,0	4,0/7,0/11,0	6,0/10,0/15,0	—	5,0/14,0/24,0	6,0/20,0/33,0
Heating capacity [4]		kW	1,09/1,27/1,67	3,10/4,40/5,46	4,32/5,00/5,80	—	5,28/7,79/10,00	6,43/10,67/13,99
Water flow [4]		l/h	94/109/144	267/379/470	372/431/500	—	455/671/865	554/867/1205
Water pressure drop [4]		kPa	13,0/17,0/28,0	7,0/13,0/20,0	13,0/17,0/23,0	—	4,0/7,0/11,0	5,0/11,0/19,0
Sound levels								
Sound power	2-pipes	dB(A)	36/40/49	35/44/53	42/48/57	35/40/49	38/46/54	40/52/61
	4-pipes	dB(A)	36/40/49	35/44/53	42/48/57	—	38/46/54	40/52/61
Sound pressure [5]	2-pipes	dB(A)	27/31/40	26/35/44	33/39/48	26/31/40	29/37/45	31/43/50
	4-pipes	dB(A)	27/31/40	26/35/44	33/39/48	—	29/37/45	31/43/50
NR [5]	2-pipes		23/27/35	20/30/39	28/34/43	21/26/35	22/32/40	25/38/45
	4-pipes		23/27/35	20/30/39	28/34/43	—	22/32/40	25/38/45
Ventilation								
Number of fans			1	1	1	1	1	1
Air flow		m³/h	360/450/659	320/504/734	486/626/900	529/720/979	500/824/1159	601/1080/1598
Filter			G1	G1	G1	G1	G1	G1
Electrical data								
Power supply	Voltage	V	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	9/13/29	7/14/33	13/23/57	7/12/25	9/23/45	11/40/115
	4-pipes	W	9/13/29	7/14/32	13/22/57	—	9/23/45	11/40/115
Electric heater		W	1500	2500	2500	2x1500	2x1500	2x1500
Water connections								
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	¾	¾	¾	1	1	1
4-pipes	Heating	Inch	½	½	½	—	¾	¾
Dimension and weight								
With plastic diffuser	H x W x D	mm	334 x 720 x 720	334 x 720 x 720	334 x 720 x 720	339 x 960 x 960	339 x 960 x 960	339 x 960 x 960
With IRYS COANDA 180	H x W x D	mm	353 x 595 x 595	353 x 595 x 595	353 x 595 x 595	366 x 849 x 849	366 x 849 x 849	366 x 849 x 849
With IRYS COANDA 360	H x W x D	mm	341 x 595 x 595	341 x 595 x 595	341 x 595 x 595	358 x 849 x 849	358 x 849 x 849	358 x 849 x 849
Weight		kg	14,8	16,5	16,5	37,1	37,1	39,6

Energy efficiency class [6]

Flex Air fan coil – Cassette EC fan								
2-pipes	**FCEER**	**A to E**	**B**	**A**	**B**	**A**	**A**	**A**
	FCCOP	**A to E**	**B**	**B**	**B**	**A**	**A**	**A**
4-pipes	**FCEER**	**A to E**	**B**	**A**	**B**	**—**	**A**	**B**
	FCCOP	**A to E**	**C**	**A**	**B**	**—**	**A**	**A**

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 6) According to Eurovent. *Drain pump and G1 air filter are included as standard.

Accessories supplied loose
Plastic or metallic (IRYS COANDA) diffusers (mandatory): - IC180 G4 - Kit diffuser IRYS COANDA 180° with G4 filter - IC360 G4 - Kit diffuser IRYS COANDA 360° with G4 filter
KIT Plogic - Kit Plogic control board
KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 - Kit Plogic Modbus Board
IRC - Kit infrared remote control for Plogic
SRC - Smart remote control - Mini building management system (only with Modbus RTU)

Accessories supplied loose
TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed
TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P - Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH - Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907EC - Wired remote controller with touch control
PAW-FC-903EC - Wired remote controller

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ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Flex Air fan coil – Wall-mounted AC fan

Fan coil wall units with cooling and heating.
Cooling capacity: 1,0 to 4,0 kW.
Heating capacity: 1,4 to 4,5 kW.

Optional controller. WRC remote control.

Optional controller. SRC - mini BMS controller.

Optional controller. Electronic controller TControl POD glass.

Optional controller. Electronic controller TControl EASY 3S.

Optional controller. Wired remote controller with touch control.
PAW-FC-907AC

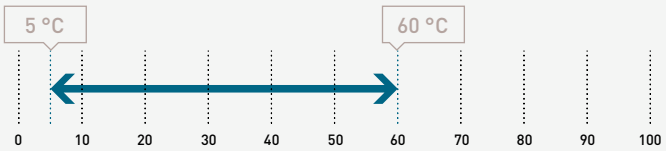
Optional controller. Wired remote controller.
PAW-FC-903AC

Optional controller. Advanced wired remote controller.
PAW-FC-RC1

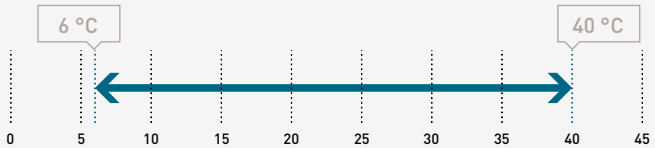
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions (2-pipes): infrared without valve (IR SV), infrared with valve (IR AV) and terminal block without valve (TB SV)
- 4 sizes
- 3-speed AC fan
- Air flow from 280 to 850 m³/h
- G1 cleanable air filter

Advantages

- Reversible
- Aesthetic design
- Light for easy installation
- Silent units
- Very easy servicing through a removable front panel
- Cleanable synthetic-type air filter

Accessories and options
2W or 3W - 2 way or 3 way valves

Accessories supplied loose
KIT Plogic - Kit Plogic control board
KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 - Kit Plogic Modbus board
SRC - Smart remote control - Mini building management system (only with Modbus RTU)
TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed
TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD GLASS AC - Kit controller, Modbus, HMI-integrated, AC fan speed, black or white
PAW-FC-907AC - Wired remote controller with touch control
PAW-FC-903AC - Wired remote controller
PAW-FC-RC1 - Advanced wired remote controller

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – Wall-mounted AC fan			P-FW07(IR)	P-FW09(IR)	P-FW18(IR)	P-FW22(IR)
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes, without valve, without/with IR infrared control						
Total cooling capacity [2]		kW	1,00/1,34/1,69	1,58/1,79/2,50	2,78/3,05/3,60	2,93/3,29/4,00
Sensible capacity [2]		kW	0,72/0,97/1,20	1,21/1,37/1,87	2,12/2,39/2,74	2,28/2,62/3,11
Water flow [2]		l/h	172/231/291	270/308/431	479/525/620	505/565/687
Water pressure drop [2]		kPa	18,6/24,9/31,4	18,5/21,4/31,0	34,6/40,0/52,3	37,2/42,8/54,9
Heating capacity [3]		kW	1,42/1,62/1,72	1,68/1,92/2,80	2,99/3,30/4,10	3,18/3,63/4,50
Water flow [3]		l/h	245/279/296	289/331/482	515/568/706	548/625/775
Water pressure drop [3]		kPa	17,6/23,4/26,5	21,4/23,5/28,6	39,9/46,3/64,7	41,7/55,0/85,8
Sound levels						
Sound power		dB(A)	45/49/51	40/43/52	47/50/54	50/55/60
Sound pressure [4]		dB(A)	30/33/35	32/36/40	39/41/43	39/43/48
NR [4]		dB(A)	32/36/38	34/39/44	40/43/46	43/46/50
Ventilation						
Number of fans			1	1	1	1
Air flow		m³/h	282/321/360	367/413/551	532/592/680	617/709/850
Filter			G1	G1	G1	G1
Electrical data						
Power supply	Voltage	V	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50
Consumption	Cooling	W	39/42/62	30/33/40	44/48/53	50/55/69
	Heating	W	39/42/62	27/30/50	42/45/60	46/51/66
Water connections						
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Connections		Inch	½	½	½	½
Dimension and weight						
Dimension	H x W x D	mm	275 x 845 x 180	275 x 845 x 180	298 x 940 x 200	298 x 940 x 200
Weight		kg	11	11	13	13

Flex Air fan coil – Wall-mounted AC fan			P-FW09IR-3W	P-FW22IR-3W
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**
2-pipes, with valve, with IR infrared control				
Total cooling capacity [2]		kW	1,11/1,25/1,40	2,32/2,68/3,10
Sensible capacity [2]		kW	0,91/1,08/1,25	1,68/1,98/2,28
Water flow [2]		l/h	191/215/241	400/460/532
Water pressure drop [2]		kPa	14,9/16,8/18,8	42,4/50,8/61,5
Heating capacity [3]		W	1,29/1,61/2,00	2,51/2,75/3,30
Water flow [3]		l/h	222/277/344	432/474/568
Water pressure drop [3]		kPa	16,1/21,3/28,2	45,8/48,6/54,1
Sound levels				
Sound power		dB(A)	44/50/54	53/57/60
Sound pressure [4]		dB(A)	32/36/40	39/43/48
NR [4]		dB(A)	27/31/37	34/37/41
Ventilation				
Number of fans			1	1
Air flow		m³/h	150/250/400	290/400/600
Filter			G1	G1
Electrical data				
Power supply	Voltage	V	230	230
	Phase		Single phase	Single phase
	Frequency	Hz	50	50
Consumption	Cooling	W	35/38/43	50/58/69
	Heating	W	30/33/43	50/58/69
Water connections				
Connection type			Female gas threaded	Female gas threaded
Connections		Inch	½	½
Dimension and weight				
Dimension	H x W x D	mm	275 x 845 x 180	298 x 940 x 200
Weight		kg	11	13

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A).

ErP | SUPER QUIET | COMMERCIAL SMART EDGE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE

Flex Air fan coil – Duct EC fan

Fan coil medium static pressure ductable units with cooling and heating.
Cooling capacity: 0,7 to 6,7 kW.
Heating capacity: 0,5 to 7,1 kW.

Optional controller. WRC remote control.

Optional controller. SRC - mini BMS controller.

Optional controller. Electronic controller TControl POD glass.

Optional controller. Electronic controller TControl EASY 3S.

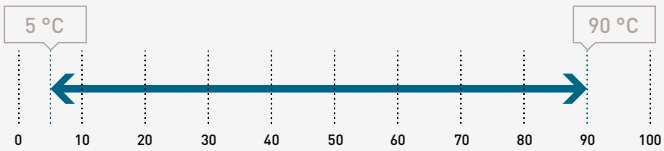
Optional controller. Wired remote controller with touch control.
PAW-FC-907EC

Optional controller. Wired remote controller.
PAW-FC-903EC

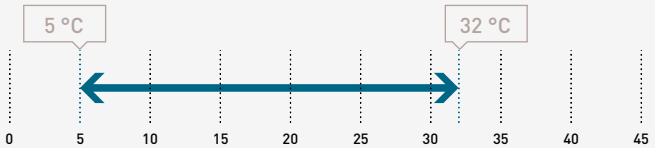
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

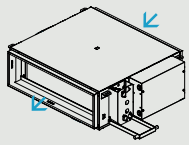
- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- Low energy consumption EC fan: 100% controllable via a 0-10 V signal or 3 operating speeds
- Air flow from 82 to 1293 m³/h
- Static pressure up to 120 Pa
- Many air inlet/outlet configurations
- Left or right water / electric connections

Advantages

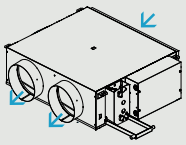
- Excellent performances: FCEER and FCCOP up to "A"
- Silent units: internal acoustic and thermal insulation
- Highly customisable: many aeraulic configurations and selection of hydraulic, and electric service side
- Ease of installation: very low height (223 mm)
- Easy maintenance: direct access to the internal components
- Mono-bloc drain pan
- 100% factory tested

Air inlet/outlet configurations.

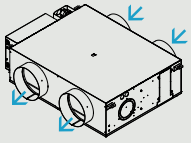
I configurations.



Rectangular return and discharge (standard).

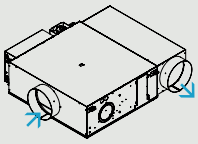


Rectangular return and circular discharge.



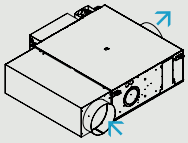
Circular return and discharge.

J configuration.



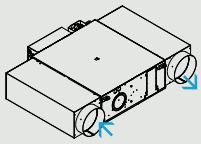
Circular return and discharge.

L configuration.



Circular return and discharge.

U configuration.



Circular return and discharge.

Accessories and options
2W or 3W - 2 way or 3 way valves
CB - Circuit breakers
PUMP - Drain pump
ECO - Ecospeed 3 board (with terminal block)
EH - Electric heaters (from 500 W to 2500 W)
RANØ100 or 125 - Fresh air intake
FH - Fuse holder
G2/G3 filter
Other speeds configuration (standard factory set speeds in technical table)
Many air inlet/outlet configurations
C/O - Electromechanical sensor for automatic changeover

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – Duct EC fan			P-FD10	P-FD15	P-FD20	P-FD25	P-FD30	P-FD40
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes								
Total cooling capacity [2]		kW	0,7/1,2/1,5	1,39/1,88/2,06	1,83/2,42/2,74	2,42/2,77/3,2	1,90/3,66/4,80	2,4/4,94/6,66
Sensible capacity [2]		kW	0,67/1,08/1,36	1,16/1,6/1,96	1,46/1,92/2,21	1,96/2,24/2,63	1,42/2,82/3,68	1,62/3,69/4,45
Water flow [2]		l/h	121/207/258	239/324/355	315/416/472	416/477/551	327/630/827	413/851/1148
Water pressure drop [2]		kPa	2,38/5,29/7,52	6,1/9,3/10,5	9,5/15,5/19,5	19,7/25,3/33,1	15,2/44/70,3	8,2/29,7/51,7
Heating capacity [3]		kW	0,51/1,28/1,82	1,45/2,07/2,55	2,07/2,47/2,59	2,58/3,02/3,39	1,90/3,83/5,01	2,4/5,1/7,06
Water flow [3]		l/h	87,8/220/313	250/357/439	357/425/446	444/520/584	327/660/863	410/878/1216
Water pressure drop [3]		kPa	1,54/5,85/10,3	6,5/10,6/14,3	11,9/16,1/17,6	22,3/30/37,3	13/47,4/79,2	8,2/31,4/57,6
4-pipes								
Total cooling capacity [2]		kW	0,71/1,35/1,58	1,34/1,78/2,18	1,78/2,38/2,74	2,19/2,69/2,94	1,72/3,54/4,57	2,22/4,76/6,37
Sensible capacity [2]		kW	0,67/1,20/1,42	1,11/1,52/1,73	1,42/1,9/2,22	1,73/2,16/2,39	1,24/2,61/3,39	1,77/4,02/5,63
Water flow [2]		l/h	122/233/272	231/307/376	306/410/472	377/463/506	296/610/787	382/821/1097
Water pressure drop [2]		kPa	2,43/6,36/8,18	5,8/8,5/11,4	9,1/15,1/19,5	13,3/19,4/22,9	8,6/32,4/52,7	7,2/27,8/57,1
Heating capacity [4]		kW	0,65/1,66/2,16	1,79/2,54/2,88	2,6/3,02/3,12	3,16/3,59/4,03	1,73/3,27/4,10	2,64/5,05/6,61
Water flow [4]		l/h	56/143/186	154/219/248	224/260/269	308/344/385	149/282/353	227/435/569
Water pressure drop [4]		kPa	1,36/4,88/7,24	5,9/11,1/13,9	12,1/18/19,7	11,5/14,9/18,9	7,50/28,4/45,2	3,5/37,3/120
Sound levels								
Sound power return - radiated [5]	2-pipes	dB(A)	31/52/55	44/55/60	46/57/61	50/55/61	40/58/64	42/58/63
	4-pipes	dB(A)	29/52/55	44/55/60	50/57/61	50/55/61	40/58/64	43/58/63
Sound power - discharge [5]	2-pipes	dB(A)	31/50/55	41/52/58	50/57/61	50/56/61	42/56/67	39/57/62
	4-pipes	dB(A)	34/51/57	41/52/58	50/57/61	50/56/61	43/56/64	38/54/59
Sound pressure [6]	2-pipes	dB(A)	20/35/38	26/37/42	31/40/44	33/39/44	20/39/47	23/39/52
	4-pipes	dB(A)	20/35/38	26/37/42	31/40/44	33/39/44	20/39/47	24/39/52
NR [6]	2-pipes		9/30/33	21/32/37	26/35/39	28/34/39	15/34/42	18/34/47
	4-pipes		6/30/33	21/32/37	26/35/39	28/34/39	15/34/42	19/34/47
Ventilation								
Number of fans			1	1	1	1	1	1
Air flow [5]	2-pipes	m³/h	82/247/357	255/383/491	360/501/599	448/541/642	300/738/1068	289/725/903
	4-pipes	m³/h	85/292/384	228/351/452	331/467/560	413/503/602	255/654/943	319/802/1228
External static pressure	2-pipes	Pa	3,3/30/62,6	22/50/82	26/50/72	34/50/70	8/50/105	8/50/116
	4-pipes	Pa	2,5/30/51,8	21/50/83	25/50/72	34/50/72	8/50/104	8/50/117
Electrical data								
Power supply	Voltage	V	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	7/19/35	11/29/56	19/50/70	25/41/64	9/65/163	10/62/197
	4-pipes	W	7/20/36	11/28/53	20/47/76	26/41/69	8/60/166	10/60/188
Electric heater		W	500	600/1000	600/1000	1000/2000	1000/2000	1250/2500
Water connections								
Connection type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2 or 4-pipes	Cooling	Inch	½	½	½	½	½	¾
4-pipes	Heating	Inch	½	½	½	½	½	½
Dimension and weight								
Dimension without drain pan	H x W x D	mm	223 x 633 x 631	223 x 733 x 631	223 x 833 x 631	223 x 933 x 631	223 x 933 x 631	223 x 1233 x 653
Weight		kg	14	16	18	20	22	29

Energy efficiency class [7]

Flex Air fan coil – Duct EC fan								
2-pipes	**FCEER**	**A to E**	**C**	**B**	**B**	**B**	**B**	**A**
	FCCOP	**A to E**	**C**	**A**	**B**	**A**	**B**	**A**
4-pipes	**FCEER**	**A to E**	**C**	**B**	**B**	**B**	**B**	**A**
	FCCOP	**A to E**	**C**	**A**	**A**	**A**	**B**	**A**

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) According to Eurovent 6/10 (air flow test method) and 8/12 (sound test method). 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB(A). 7) According to Eurovent. *Data with I configuration with rectangular return and discharge and G2 (P-FD10/15/20/25/30) or G3 (P-FD40) filter.

Accessories supplied loose
Suspension kit
KIT Plogic - Kit Plogic control board
KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 - Kit Plogic Modbus Board
SRC - Smart remote control - Mini building management system (only with Modbus RTU)
TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed

Accessories supplied loose
TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P - Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH - Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907EC - Wired remote controller with touch control
PAW-FC-903EC - Wired remote controller

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ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Flex Air fan coil – High static duct AC fan

Fan coil high static pressure ductable units with cooling and heating.
Cooling capacity: 4,1 to 24,8 kW.
Heating capacity: 4,1 to 25,0 kW.

The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- 5 or 4-speed AC fan - standard factory set speeds. 07/15/18/21: S1,S3,S5 (5-speed fan motor) and 24/27: S1,S2,S3 (4-speed fan motor)
- Air flow from 586 to 3451 m³/h
- High available static pressure up to 220 Pa
- Left or right water / electric connections

Advantages

- Very low acoustic level at low speed (double skin insulation available as an accessory)
- Selection of hydraulic and electric service side
- Ease of installation and maintenance
- 100% factory tested

Optional controller. WRC remote control.

Optional controller. SRC - mini BMS controller.

Optional controller. Electronic controller TControl POD glass.

Optional controller. Electronic controller TControl EASY 3S.

Optional controller. Wired remote controller with touch control.
PAW-FC-907AC

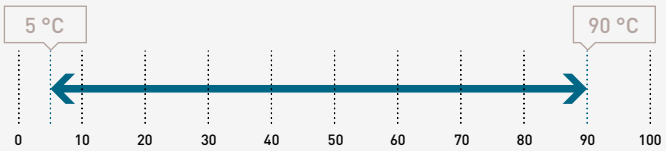
Optional controller. Wired remote controller.
PAW-FC-903AC

Optional controller. Advanced wired remote controller.
PAW-FC-RC1

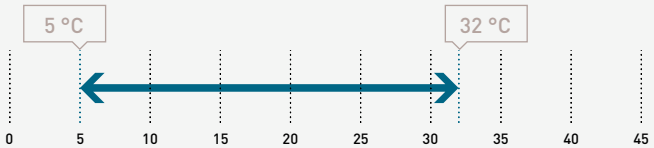
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



Accessories and options
2W or 3W - 2 way or 3 way valves
Auxiliary drain pan
CB - Circuit breakers
PUMP - Drain pump
ERP - Double skin - M0
EH - Electric heaters (from 1000 W to 3000 W)
RANØ100 or 125 - Fresh air intake
FH - Fuse holder
G3/G4 filter
Inlet and outlet plenums for circular ducts (07 only)
C/O - Electromechanical sensor for automatic changeover
Other speeds configuration (standard factory set speeds in technical table)

Accessories supplied loose
Suspension kit
KIT Plogic - Kit Plogic control board
KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 - Kit Plogic Modbus board
SRC - Smart remote control - Mini building management system (only with Modbus RTU)
TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed
TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD GLASS AC - Kit controller, Modbus, HMI-integrated, AC fan speed, black or white
PAW-FC-907AC - Wired remote controller with touch control
PAW-FC-903AC - Wired remote controller
PAW-FC-RC1 - Advanced wired remote controller

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – High static duct AC fan			P-FH7	P-FH15	P-FH18	P-FH21	P-FH24	P-FH27
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes								
Total cooling capacity [2]		kW	4,43/5,32/5,59	6,9/11,48/13,33	6,32/11,48/13,87	7,07/13,7/17	14,78/16,67/19,03	16,4/18,9/21,9
Sensible capacity [2]		kW	3,14/3,97/4,25	5,04/9,19/11,23	4,94/9,48/11,89	4,93/9,94/12,5	10,68/12,27/14,23	11,4/13,3/15,5
Water flow [2]		l/h	765/919/965	1191/1982/2302	1091/1982/2395	1221/2365/2935	2552/2878/3286	2832/3263/3781
Water pressure drop [2]		kPa	27,4/39,2/43,5	7,9/19,8/26,1	6,8/19,6/27,6	8,5/28,7/43,5	14,7/18,3/23,3	13,6/17,6/23
Heating capacity [3]		kW	4,06/5,53/6,7	6,6/12/15,48	7,2/14/18,01	6,95/13,9/17,8	15/17,4/20,9	15,4/17,9/21,5
Water flow [3]		l/h	701/955/1157	1140/2072/2673	1243/2417/3110	1200/2400/3073	2590/3004/3609	2659/3091/3712
Water pressure drop [3]		kPa	24,1/43,5/63,2	5/17,9/26,3	6,1/16,1/24,3	12,4/21,8/34,1	11,4/21,9/28,1	10,7/21/27,3
4-pipes								
Total cooling capacity [2]		kW	4,05/4,84/5,08	6,38/10,08/11,33	6,77/11,18/12,83	7,75/14,38/17,43	13,68/15,27/17,13	14,78/16,77/19,13
Sensible capacity [2]		kW	2,86/3,57/3,8	4,76/8,42/10,13	5,01/9,13/11,13	5,45/10,58/13,23	10,18/11,67/13,33	10,68/12,27/14,23
Water flow [2]		l/h	699/836/877	1102/1740/1956	1169/1930/2215	1338/2483/3009	2362/2637/2958	2552/2896/3303
Water pressure drop [2]		kPa	31/43/47,2	5,8/13,3/16,9	6,9/17,1/22,6	11,1/34,9/50,9	20,1/24,7/30,6	13,5/17/21,5
Heating capacity [4]		kW	5,5/7/7,7	9,6/17/21	9,7/17,06/21	9,7/17,1/21	10,9/12,9/15,2	18,5/25/29,6
Water flow [4]		l/h	475/604/665	829/1468/1813	837/1473/1813	837/1476/1813	941/1114/1312	1597/2158/2555
Water pressure drop [4]		kPa	9/13,3/15	32,7/92,1/134	20,2/56,1/80	20,2/56,1/80	30,8/39/49,5	38,8/67,2/82
Sound levels								
Sound power return - radiated [5]	2-pipes	dB(A)	57/60/63	52/66/72	54/66/74	52/66/72	65/69/73	65/69/73
	4-pipes	dB(A)	54/60/63	52/66/72	52/66/72	52/66/72	65/69/73	65/69/73
Sound power - discharge [5]	2-pipes	dB(A)	53/59/62	52/64/71	52/64/71	52/64/71	64/67/72	64/67/72
	4-pipes	dB(A)	53/59/62	52/64/71	52/64/71	52/64/71	64/67/72	64/67/72
Sound pressure [6]	2-pipes	dB(A)	33/39/42	31/45/51	31/45/51	31/45/51	44/48/52	44/48/52
	4-pipes	dB(A)	33/39/42	31/45/51	31/45/51	31/45/51	44/48/52	44/48/52
NR [6]	2-pipes		27/34/37	27/40/47	27/40/47	27/40/47	40/44/48	40/44/48
	4-pipes		27/34/37	27/40/47	27/40/47	27/40/47	40/44/48	40/44/48
Ventilation								
Number of fans			1	1	1	1	1	1
Filter			G3	G3	G3	G3	G3	G3
Air flow [5]	2-pipes	m³/h	703/977/1125	960/2112/2830	960/2112/2830	960/2112/2830	2040/2413/3436	2040/2413/3736
	4-pipes	m³/h	586/824/974	960/2112/2830	960/2112/2830	960/2112/2830	2040/2413/3436	2040/2413/3736
External static pressure	2-pipes	Pa	30/50/70	15/50/90	15/50/90	15/50/90	35/50/75	35/50/75
	4-pipes	Pa	25/50/70	15/50/90	15/50/90	15/50/90	35/50/75	35/50/75
Electrical data								
Power supply	Voltage	V	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Consumption		W	132/182/222	180/421/675	180/421/675	180/421/675	420/530/673	420/530/673
Electric heater		W	2000	3000	3000	3000	3000	3000
Water connections								
Connection type			Female gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
2-pipes		Inch	½	1	1 ¼	1 ¼	1 ¼	1 ¼
4-pipes	Cooling	Inch	½	1	1	1	1 ¼	1 ¼
	Heating	Inch	½	¾	¾	¾	¾	¾
Dimension and weight								
Dimension	H x W x D	mm	250 x 1200 x 698	375 x 1380 x 798	375 x 1380 x 798	375 x 1380 x 798	450 x 1500 x 798	450 x 1500 x 798
Weight		kg	42	63	65	67	76	80

Energy efficiency class [7]

Flex Air fan coil – High static duct AC fan								
2-pipes	**FCEER**	**A to E**	**D**	**D**	**D**	**D**	**D**	**D**
	FCCOP	**A to E**	**C**	**C**	**C**	**C**	**D**	**D**
4-pipes	**FCEER**	**A to E**	**D**	**D**	**D**	**D**	**D**	**D**
	FCCOP	**A to E**	**C**	**C**	**C**	**C**	**D**	**D**

1) Fan standard factory set speeds. 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) According to Eurovent 6/10 (air flow test method) and 8/12 (sound test method). 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 21 dB(A). 7) According to Eurovent. *Data with I configuration with rectangular return and discharge.

ErP | SUPER QUIET | COMMERCIAL SMART EDGE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE

Flex Air fan coil – High static duct EC fan

Fan coil high static pressure ductable units with cooling and heating.
Cooling capacity: 3,2 to 21,9 kW.
Heating capacity: 2,5 to 24,1 kW.

Optional controller. WRC remote control.

Optional controller. SRC - mini BMS controller.

Optional controller. Electronic controller TControl POD glass.

Optional controller. Electronic controller TControl EASY 3S.

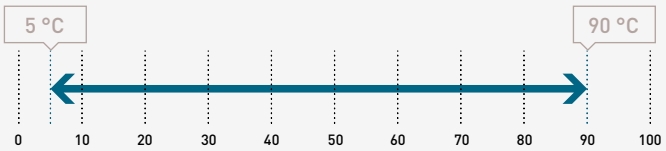
Optional controller. Wired remote controller with touch control.
PAW-FC-907EC

Optional controller. Wired remote controller.
PAW-FC-903EC

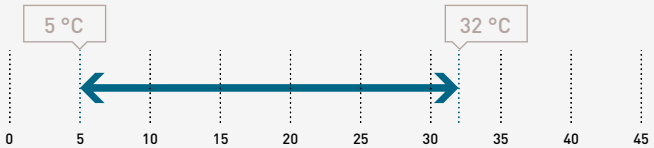
SEE PAGE 572 FOR MORE DETAILS ABOUT FAN COIL CONTROLLERS

Operating limits

Entering water temperature (without glycol).



Indoor air temperature.



The range at a glance

- Versions: 2-pipes, 2-pipes + electric heater and 4-pipes
- 6 sizes
- Low energy consumption EC fan: 100% controllable via a 0-10 V signal or 3 operating speeds
- Air flow from 320 to 3568 m³/h
- High available static pressure up to 220 Pa
- Left or right water / electric connections

Advantages

- Excellent performances: FCEER and FCCOP up to "A"
- Very low acoustic level at low speed (double skin insulation available as an accessory)
- Selection of hydraulic and electric service side
- Ease of installation and maintenance
- 100% factory tested

Accessories and options
2W or 3W - 2 way or 3 way valves
Auxiliary drain pan
CB - Circuit breakers
PUMP - Drain pump
ERP - Double Skin - M0
ECO - Ecospeed 3 board (with terminal block)
EH - Electric heaters (from 1000 W to 3000 W)
RANØ100 or 125 - Fresh air intake
FH - Fuse holder
G3/G4 filter
Inlet and outlet plenums for circular ducts (07 only)
C/O - Electromechanical sensor for automatic changeover
Other speeds configuration (standard factory set speeds in technical table)

Accessories supplied loose
Suspension kit
KIT Plogic - Kit Plogic control board
KIT WRC - Kit wall-mounted remote control LCD (only with Plogic control board)
KIT MB2 - Kit Plogic Modbus board
SRC - Smart remote control - Mini building management system (only with Modbus RTU)
TCEASY 2P/4P - Kit controller, HMI-integrated, 2-pipe, 4-pipe, AC fan speed
TCEASY 2P+C/O - Kit controller, HMI-integrated, 2-pipe + changeover, AC fan speed
TCPOD WHITE (BLACK) 2P/4P - Kit controller, Modbus, HMI-integrated, 2-pipe, 4-pipe, EC fan speed, white (black)
TCPOD WHITE (BLACK) 2P+EH - Kit controller, Modbus, HMI-integrated, 2-pipe+ electrical heater, EC fan speed, white (black)
PAW-FC-907EC - Wired remote controller with touch control
PAW-FC-903EC - Wired remote controller

AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

Technical performance

Flex Air fan coil – High static duct EC fan			P-FH7	P-FH15	P-FH18	P-FH21	P-FH24	P-FH27
Fan speed [1]			**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**	**Min / Med / Max**
2-pipes								
Total cooling capacity [2]		kW	3,26/4,90/5,88	7,93/10,1/11,1	8,98/11,7/12,8	9,79/12,7/13,9	10,6/16,1/17,6	11,7/18,1/19,9
Sensible capacity [2]		kW	2,05/3,59/4,56	6,08/8,05/8,9	6,71/9,02/10	7,14/9,55/10,60	7,84/12,4/13,7	8,43/13,6/15,1
Water flow [2]		l/h	562/844/1013	1369/1744/1917	1551/2020/2210	1690/2193/2400	1826/2780/3039	2022/3125/3436
Water pressure drop [2]		kPa	15/33,5/48,1	13,2/19,8/23	9,1/14,2/16,7	10,2/15,4/17,9	8,04/18,4/21,4	7,58/19,1/22,5
Heating capacity [3]		kW	2,47/5,61/9,26	8,66/11,7/13	9,48/13,1/14,6	9,99/14,1/15,8	10,9/17,6/19,5	11,6/19,1/21,4
Water flow [3]		l/h	425/966/1595	1495/2020/2245	1637/2262/2521	1725/2435/2728	1872/3039/3367	1993/3298/3695
Water pressure drop [3]		kPa	7,2/33,7/89,0	12,2/20,6/24,9	8,2/14,2/17,3	8,3/15/18,5	10,9/21,5/25,8	6,38/17,1/20,9
4-pipes								
Total cooling capacity [2]		kW	3,22/4,74/5,54	6,57/8,21/8,91	7,4/9,26/10	8,92/11,3/12,4	9,51/14/15,2	10,2/15,3/16,8
Sensible capacity [2]		kW	2,12/3,48/4,25	5,2/6,76/7,43	5,7/7,48/8,24	6,66/8,75/9,64	7,13/11/12,1	7,52/11,8/13,1
Water flow [2]		l/h	555/817/954	1134/1418/1538	1278/1599/1727	1540/1951/2141	1642/2417/2624	1761/2642/2901
Water pressure drop [2]		kPa	20,6/41,4/55,3	6,6/10,2/12	8/11,2/12,7	11,2/16,7/19,4	9,4/18,7/21,9	6,6/13,9/16,4
Heating capacity [4]		kW	3,93/6,81/9,05	5,85/7,45/8,13	10/12,9/14,2	10/11,9/14,2	8/11,9/13	7,71/11,7/12,9
Water flow [4]		l/h	338/586/779	505/643/702	863/1114/1226	863/1114/1226	691/1027/1122	666/1010/1114
Water pressure drop [4]		kPa	5,6/12,5/19,5	14,1/21,4/25	28,7/43,6/51	22,8/34,8/40,8	13,5/27,5/32,1	5,2/11,3/13,4
Sound levels								
Sound power return - radiated [5]	2-pipes	dB(A)	54/60/63	56/65/67	56/65/67	56/65/67	67/69/73	67/69/73
	4-pipes	dB(A)	54/60/63	56/65/67	56/65/67	56/65/67	58/69/73	58/69/73
Sound power - discharge [5]	2-pipes	dB(A)	53/59/62	56/64/65	56/64/65	56/64/65	66/67/72	66/67/72
	4-pipes	dB(A)	53/59/62	56/64/65	56/64/65	56/64/65	58/67/72	58/67/72
Sound pressure [6]	2-pipes	dB(A)	33/39/42	35/44/46	35/44/46	35/44/46	37/48/52	37/48/52
	4-pipes	dB(A)	33/39/42	35/44/46	35/44/46	35/44/46	37/48/52	37/48/52
NR [6]	2-pipes		27/34/37	31/40/42	31/40/42	31/40/42	33/44/48	33/44/48
	4-pipes		27/34/37	31/40/42	31/40/42	31/40/42	33/44/48	33/44/48
Ventilation								
Number of fans			1	1	1	1	1	1
Filter			G3	G3	G3	G3	G3	G3
Air flow [5]	2-pipes	m³/h	347/849/1293	1360/2044/2335	1360/2044/2335	1360/2044/2335	1519/2700/3098	1519/2700/3098
	4-pipes	m³/h	320/803/1229	1360/2044/2335	1360/2044/2335	1360/2044/2335	1519/2700/3098	1519/2700/3098
External static pressure	2-pipes	Pa	8/50/116	22/50/65	22/50/65	22/50/65	16/50/66	16/50/66
	4-pipes	Pa	8/50/117	22/50/65	22/50/65	22/50/65	16/50/66	16/50/66
Electrical data								
Power supply	Voltage	V	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Consumption	2-pipes	W	10/62/197	61/172/246	61/172/246	61/172/246	57/237/364	57/237/364
	4-pipes	W	10/60/189	61/172/246	61/172/246	61/172/246	57/237/364	57/237/364
Electric heater		W	2000	3000	3000	3000	3000	3000
Water connections								
Connection type			Female gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
2-pipes		Inch	½	1	1 ¼	1 ¼	1 ¼	1 ¼
4-pipes	Cooling	Inch	½	1	1	1	1 ¼	1 ¼
	Heating	Inch	½	¾	¾	¾	¾	¾
Dimension and weight								
Dimension	H x W x D	mm	250 x 1200 x 698	375 x 1380 x 798	375 x 1380 x 798	375 x 1380 x 798	450 x 1500 x 798	450 x 1500 x 798
Weight		kg	42	63	65	67	76	80

Energy efficiency class [7]

Flex Air fan coil – High static duct EC fan								
2-pipes	**FCEER**	**A to E**	**—**	**A**	**A**	**A**	**B**	**A**
	FCCOP	**A to E**	**—**	**A**	**A**	**A**	**A**	**A**
4-pipes	**FCEER**	**A to E**	**—**	**B**	**B**	**A**	**A**	**A**
	FCCOP	**A to E**	**—**	**B**	**A**	**A**	**B**	**B**

1) Fan standard factory set speeds (voltage). 2) According to Eurovent standard. Air: 27 °C DB/19 °C WB, chilled water: 7 °C/12 °C. 3) According to Eurovent standard. Air: 20 °C, hot water: 45 °C/40 °C. 4) According to Eurovent standard. Air: 20 °C, hot water: 65 °C/55 °C. 5) According to Eurovent 6/10 (air flow test method) and 8/12 (sound test method). 6) Informative data, considering an hypothetical sound attenuation of the room and installation of 9 dB(A). 7) According to Eurovent. *Data with I configuration with rectangular return and discharge.

ErP | EC MOTOR GREEN VENTILATION | SUPER QUIET | VERY HIGH PERFORMANCE | COMMERCIAL SMART EDGE

ErP compliant following COMMISSION REGULATION (EU) 2016/2281.

EUROVENT CERTIFIED PERFORMANCE

Flex Air fan coils controllers

Panasonic has a wide, technological range of controllers and control systems suitable for installation within a wide variety of locations such as office, hotel, and residential applications. These controllers are compatible with AC and EC fans and allow users to take advantage of the improved performance and efficiency and thus energy savings. Most of our controllers have an intuitive user interface to easily setup the desired configurations.

1 Individual controllers

Thanks to these controllers it is possible to control one fan coil unit individually. All our controllers fall into this category. Depending on the model, they can have different features: possibility to set the desired temperature, compatibility with AC and EC fans, LCD display, wall or unit mounting.

2 Group controllers

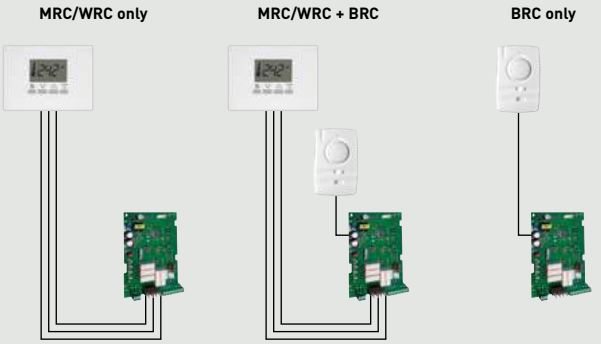
These controllers allow the control of more than one fan coil unit per controller but maintaining the same fan and temperature settings (a slight temperature variation is possible within the same zone). Plogic is the Panasonic group controller that allows you to control multiple units with a single control.

3 Centralized and group controller

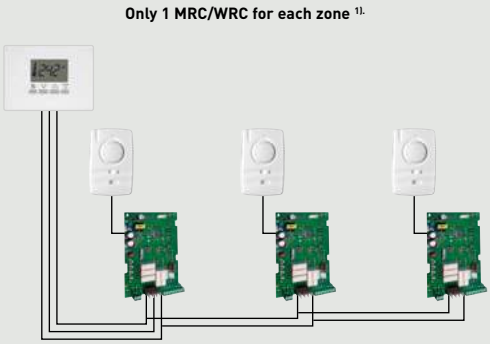
Due to the advanced technical capability, it is possible to control different climatic zones with different settings and ambient conditions. The combination of Plogic + BMS and SRC are the perfect example for this type of control.

Plogic (zone controller) with remote control.

1| Plogic. Different individual control possibilities.

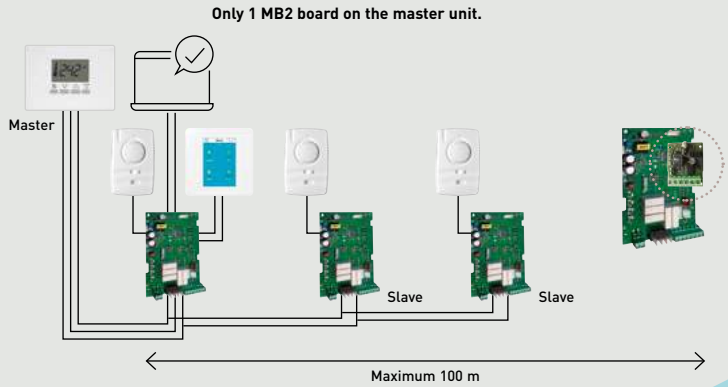


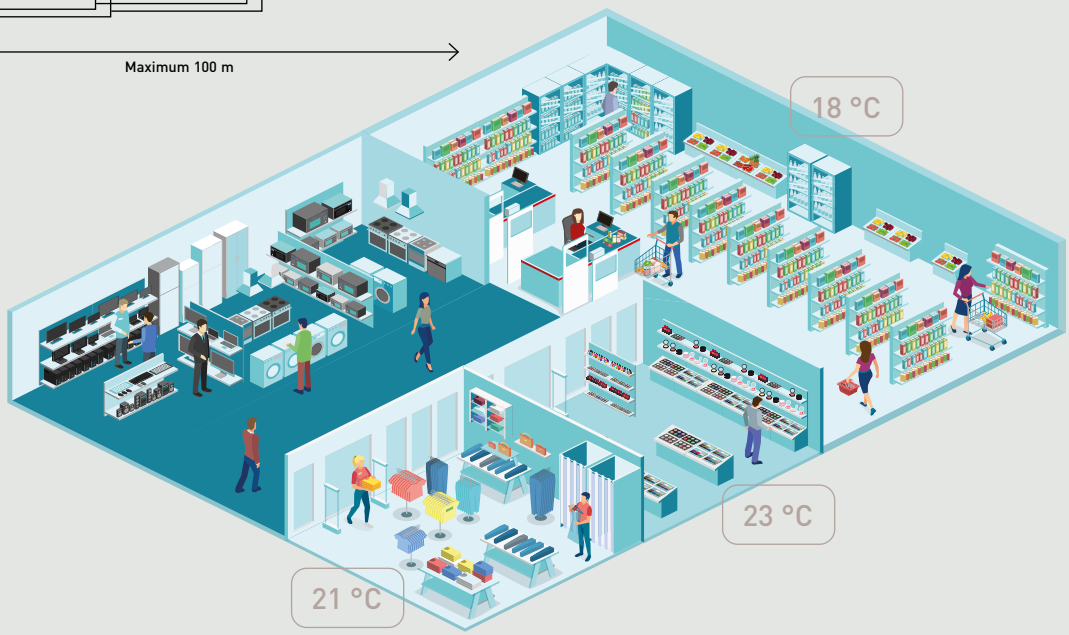
2| Plogic. Group control (without BMS).



1) Up to 15 Plogic/fan coil units. Fan coil units can be of different types, with AC or EC fan motor.

3| Centralized and group control with BMS and SRC.





Flex Air control systems

Flex Air Smart fan coils controls

	Individual controllers				Centralised controllers		
	CZ-RTC6WBLW2 / CZ-RTC6BLW2	CZ-RTC5B	CZ-RWS3**	PAW-FC-903EC PAW-FC-907EC	CZ-ANC3	CZ-64ESMC3	CZ-256ESMC3
2-pipes / 4-pipes compatibility	✔	✔	✔	✔	✔	✔	✔
BMS connection	✗	✗	✗	Modbus	✗	✗	✗
SRC mini BMS compatibility	✗	✗	✗	✔	✗	✗	✗
Operation mode setting	Manual / Auto	Manual / Auto	Manual / Auto	Manual	Only ON / OFF	✔	✔
Fan control	✔	✔	✔	0-10 V	✗	✔	✔
Fan speed selection	Manual / Auto	Manual / Auto	Manual / Auto	Manual / Auto	✗	Manual / Auto	Manual / Auto
Fan operations	Cyclic [1]	Cyclic [1]	Cyclic [1]	Continuous [2] or cyclic [1]	✗	Cyclic [1]	Cyclic [1]
Motorised flap control	✔	✔	✔	✗	✗	✔	✔
Weekly timer	✔ With app	✔	✔ With app + Wi-Fi adapter	✗	✗	✔	✔
Grouping	Up to 8 units	Up to 8 units	Up to 8 units	✗	✗	Up to 64 units	Up to 256 units
nanoe™ X function	✔	✔	✔	✗	✗	✗	✗
Econavi function	✔	✔	✔	✗	✗	✔	✔
Panasonic Comfort Cloud App	✔	✗	✔ With app + Wi-Fi adapter	✗	✗	✗	✗
Mounting type	Wall	Wall	Infrared	Wall	Wall	Wall	Wall
Fan coils compatibility	FK1 and FF1	FK1	FK1 and FF1	FK1 and FF1	FK1	FK1	FK1

1) Cyclic: fan operates in minimum fan speed after the set point is reached. 2) Continuous: fan continues running after the set point is reached. *Electrical heaters maximum power may vary according to the controller without a relay. **The Econavi function is only available when the optional part CZ-CENSC1 is installed.

Commercial Smart Edge.

Manage the entire Panasonic HVAC portfolio from a single platform – on-site or remotely, 24/7.

Model code	Control points	Indoor unit connections [1]
PAW-CSE-1B	100	4
PAW-CSE-2B	200	10
PAW-CSE-10	1000	50
PAW-CSE-20	2000	100

1) The final number of connected indoor units may vary depending on the range. *For the detail information, please contact an authorised Panasonic dealer.

COMPATIBLE WITH ENTIRE HVAC RANGE

SIMPLIFIED COMMISSIONING

OPTIMISED PLANT MANAGEMENT

ADVANCED ANALYTICS

P-SMART EDGE

P-Smart Edge*.
A powerful smart control platform designed for single-site installations, giving you seamless management of the complete Panasonic HVAC range.

P-Smart Nexus

P-Smart Nexus*.
An online multi-site control solution that provides remote, centralised supervision of all your locations worldwide.

*Edge controller box (PAW-CSE**) is required.

Flex Air fan coils controls

		Individual controllers						
		Plogic	Tcontrol Easy	T-CONTROL POD	PAW-FC-903EC PAW-FC-907EC	PAW-FC-903AC PAW-FC-907AC	PAW-FC-RC1	TRM-FA
2-pipes / 4-pipes compatibility	2-pipes (cooling or heating)	✔	✔	✔	✔	✔	✔	✔
	2-pipes heat pump	✔	✔	✔	✗	✗	✗	✔
	2-pipes cooling + electric heater (<2000 W)	✔	✗	✔	✗	✗	✗	✔
	2-pipes heat pump + electric heater (<2000 W)	✔	✗	✗	✗	✗	✗	✗
	4-pipes	✔	✔	✔	✔	✗	✔	✔
BMS connection		Modbus (with MB2 card)	✗	Modbus	Modbus	✗	Modbus	✗
SRC mini BMS compatibility		✔	✗	✔	✔	✗	✔	✗
Operation mode setting		Manual / Auto [1]	Manual / Auto [1]	Manual / Auto [1] / Centralised	Manual	Manual	Manual / Auto	Manual
Fan control	EC	0-10 V	Ecospeed card	0-10 V	0-10 V	✗	Ecospeed card	Ecospeed card
	AC	✔	✔	✔	✗	✔	✔	✔
Fan speed selection		Manual / Auto	Manual / Auto	Manual / Auto	Manual / Auto	Manual / Auto	Manual / Auto	Manual
Fan operations		Continuous [3] or cyclic [2]	Continuous [3] or cyclic [2]	Continuous [3] or cyclic [2]	Continuous [3] or cyclic [2]	Continuous [3] or cyclic [2]	✗	Cyclic [2]
Weekly timer		✗	✗	✔	✗	✗	✗	✗
Grouping		Up to 15 units	✗	✗	✗	✗	✗	✗
Valve compatibility	ON / OFF 230 V	✔	✔	✔	✔	✔	✔	✔
Mounting type		Unit	Wall	Wall	Wall	Wall	Wall	Wall
Fan coils compatibility		FC, FQ, FW, FD and FH	FC, FQ, FW, FD and FH	FC, FQ, FW, FD and FH	FC, FQ, and, FD	FC, FQ, FW and FH	FC, FQ, FW and FH	FC, FQ, FW, FD and FH

1) Changeover Auto with water pipe sensor. 2) Cyclic: fan stops when the set point is reached. 3) Continuous: fan continues running after the set point is reached. *Electrical heaters maximum power may vary according to the controller without a relay.

Remote controls.

Plogic. Wall mounting (surface) or mounted on the unit.

WRC / MRC [1]

BRC

IRC [1]

1) Integrated temperature sensor.

SRC - mini BMS controller.

Smart controller. Mini building management system.

- Can be used as a mini BMS or a remote control
- Manage up to 15 zones and 31 units
- Communicate via Modbus protocol
- Time programming function

Accessories and control - Aquarea Air Smart fan coils

Aquarea Air Smart fan coil – Floor standing accessories

Control accessories

Wall-mounted control with Modbus for Aquarea Air Smart fan coils.

PCZ-EEB749

Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.

PCZ-EFB749

Wall-mounted control PCB for Aquarea Air Smart fan coil – Floor standing.

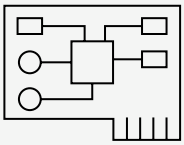
PCZ-ESE845

On-board display with Modbus for Aquarea Air Smart fan coil – Floor standing.

PCZ-ECA844

On-board display with integrated Wi-Fi for Aquarea Air Smart fan coil – Floor standing.

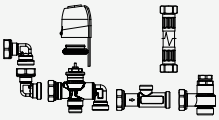
PCZ-EWA844



PCB for analog control (0-10V) for Aquarea Air Smart fan coil – Floor standing.

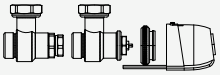
PCZ-B10842

Hydraulic accessories



3 way valve with motor for Aquarea Air Smart fan coil – Floor standing.

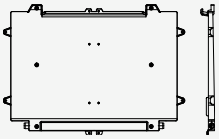
PCZ-V30720



2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.

PCZ-V20139

Installation accessories



Condensate drip tray for horizontal installation. For P-FAL10.

PCZ-GB0520

Condensate drip tray for horizontal installation. For P-FAL20.

PCZ-GB0521

Condensate drip tray for horizontal installation. For P-FAL30.

PCZ-GB0522

Condensate drip tray for horizontal installation. For P-FAL35.

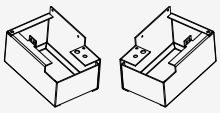
PCZ-GB0523

Condensate drip tray for horizontal installation. For P-FAL40.

PCZ-GB0524

Set of 2 legs to protect water pipes for Aquarea Air Smart fan coil – Floor standing.

PCZ-LC0158



Set of 2 legs to anchor the Aquarea Air Smart fan coil – Floor standing to the floor.

PCZ-LC0606

Aquarea Air Smart fan coil wall-mounted accessories

Control accessories

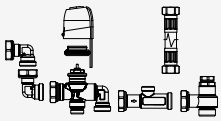
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.

PCZ-EEB749

Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.

PCZ-EFB749

Hydraulic accessories

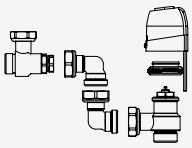


3 way valve with motor for Aquarea Air wall-mounted 10, 15 and 20.

PCZ-V30688

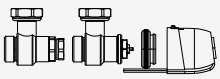
3 way valve with motor for Aquarea Air wall-mounted 40.

PCZ-V30718



2 way valve with motor for Aquarea Air wall-mounted 10, 15 and 20.

PCZ-V20687



2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.

PCZ-V20139

Aquarea Air Smart fan coil – Ducted thin accessories

Control accessories

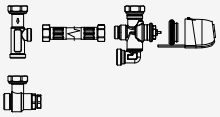
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.

PCZ-EEB749

Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.

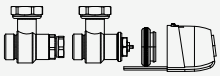
PCZ-EFB749

Hydraulic accessories



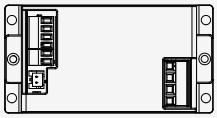
3 way valve with motor for Aquarea Air Smart fan coil – Ducted.

PCZ-V30361



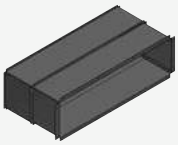
2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.

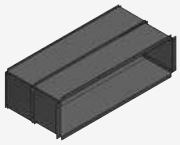
PCZ-V20139



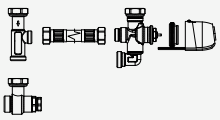
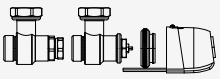
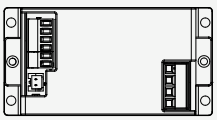
PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.

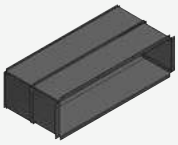
PCZ-EG1028

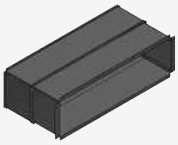
Replacement recirculation filter kit	Delivery plates	Return plenum	90° shooting plenum	Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm	Grille for telescopic kit for rear intake
					
For P-FSN20 and P-FTN15. PCZ-AHRD0491	**With 2 circular inlets DN 160 mm. For P-FTN15.** PCZ-AHRD0561	**With 2 circular inlets DN 160 mm. For P-FTN15.** PCZ-AHRD0566	**For P-FTN15.** PCZ-AHRD0576	**For P-FTN15.** PCZ-AHRD0581	**For P-FTN15.** PCZ-AHRD0586
For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30. PCZ-AHRD0492	**With 3 circular inlets DN 160 mm. For P-FTN20.** PCZ-AHRD0562	**With 3 circular inlets DN 160 mm. For P-FTN20.** PCZ-AHRD0567	**For P-FTN20 and P-FTQ30.** PCZ-AHRD0577	**For P-FTN20.** PCZ-AHRD0582	**For P-FTN20.** PCZ-AHRD0587
For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45. PCZ-AHRD0493	**With 4 circular inlets DN 160 mm. For P-FTN25.** PCZ-AHRD0563	**With 4 circular inlets DN 160 mm. For P-FTN25.** PCZ-AHRD0568	**For P-FTN25 and P-FTQ45.** PCZ-AHRD0578	**For P-FTN25.** PCZ-AHRD0583	**For P-FTN25.** PCZ-AHRD0588
For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60. PCZ-AHRD0494	**With 6 circular inlets DN 160 mm. For P-FTN35.** PCZ-AHRD0564	**With 6 circular inlets DN 160 mm. For P-FTN35.** PCZ-AHRD0569	**For P-FTN35 and P-FTQ60.** PCZ-AHRD0579	**For P-FTN35.** PCZ-AHRD0584	**For P-FTN35.** PCZ-AHRD0589
For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65. PCZ-AHRD0495	**With 7 circular inlets DN 160 mm. For P-FTN45.** PCZ-AHRD0565	**With 7 circular inlets DN 160 mm. For P-FTN45.** PCZ-AHRD0570	**For P-FTN45 and P-FTQ65.** PCZ-AHRD0580	**For P-FTN45.** PCZ-AHRD0585	**For P-FTN45.** PCZ-AHRD0590

Plenum kit for external air connection with damper for room recirculation	Ducting plate plenum kit for outdoor air connection with damper	90° plenum for outdoor air kit with damper	Telescopic kit. For plenum for outdoor air kit with damper	Grille for telescopic kit. For plenum for outdoor air kit with damper
				
For P-FTN15. ———— PCZ-AHRD0571	**For P-FTN15.** ———— PCZ-AHRD0611	**For P-FTN15.** ———— PCZ-AHRD0616	**For P-FTN15.** ———— PCZ-AHRD0621	**For P-FTN15.** ———— PCZ-AHRD0626
For P-FTN20 and P-FTQ30. ———— PCZ-AHRD0572	**For P-FTN20 and P-FTQ30.** ———— PCZ-AHRD0612	**For P-FTN20 and P-FTQ30.** ———— PCZ-AHRD0617	**For P-FTN20 and P-FTQ30.** ———— PCZ-AHRD0622	**For P-FTN20 and P-FTQ30.** ———— PCZ-AHRD0627
For P-FTN25 and P-FTQ45. ———— PCZ-AHRD0573	**For P-FTN25 and P-FTQ45.** ———— PCZ-AHRD0613	**For P-FTN25 and P-FTQ45.** ———— PCZ-AHRD0618	**For P-FTN25 and P-FTQ45.** ———— PCZ-AHRD0623	**For P-FTN25 and P-FTQ45.** ———— PCZ-AHRD0628
For P-FTN35 and P-FTQ60. ———— PCZ-AHRD0574	**For P-FTN35 and P-FTQ60.** ———— PCZ-AHRD0614	**For P-FTN35 and P-FTQ60.** ———— PCZ-AHRD0619	**For P-FTN35 and P-FTQ60.** ———— PCZ-AHRD0624	**For P-FTN35 and P-FTQ60.** ———— PCZ-AHRD0629
For P-FTN45 and P-FTQ65. ———— PCZ-AHRD0575	**For P-FTN45 and P-FTQ65.** ———— PCZ-AHRD0615	**For P-FTN45 and P-FTQ65.** ———— PCZ-AHRD0620	**For P-FTN45 and P-FTQ65.** ———— PCZ-AHRD0625	**For P-FTN45 and P-FTQ65.** ———— PCZ-AHRD0630

Aquarea Air Smart fan coil – Ducted accessories

Control accessories		Hydraulic accessories		
				
Wall-mounted control with Modbus for Aquarea Air Smart fan coils. ———— PCZ-EEB749	**Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.** ———— PCZ-EFB749	**3 way valve with motor for Aquarea Air Smart fan coil – Ducted.** ———— PCZ-V30361	**2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.** ———— PCZ-V20139	**PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.** ———— PCZ-EG1028

Replacement recirculation filter kit	Delivery plates	Return plenum	90° shooting plenum	Telescopic kit for rear or directly coupled suction. 153 mm - 270 mm	Grille for telescopic kit for rear intake
					
For P-FSN20 and P-FTN15. ———— PCZ-AHRD0491	**With 2 circular inlets DN 160 mm. For P-FSN20.** ———— PCZ-AHRD0431	**With 2 circular inlets DN 160 mm. For P-FSN20.** ———— PCZ-AHRD0461	**For P-FSN20.** ———— PCZ-AHRD0521	**For P-FSN20.** ———— PCZ-AHRD0531	**For P-FSN20.** ———— PCZ-AHRD0541
For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30. ———— PCZ-AHRD0492	**With 3 circular inlets DN 160 mm. For P-FSN25.** ———— PCZ-AHRD0432	**With 3 circular inlets DN 160 mm. For P-FSN25.** ———— PCZ-AHRD0462	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0522	**For P-FSN25.** ———— PCZ-AHRD0532	**For P-FSN25.** ———— PCZ-AHRD0542
For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45. ———— PCZ-AHRD0493	**With 4 circular inlets DN 160 mm. For P-FSN35.** ———— PCZ-AHRD0433	**With 4 circular inlets DN 160 mm. For P-FSN35.** ———— PCZ-AHRD0463	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0523	**For P-FSN35.** ———— PCZ-AHRD0533	**For P-FSN35.** ———— PCZ-AHRD0543
For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60. ———— PCZ-AHRD0494	**With 6 circular inlets DN 160 mm. For P-FSN45.** ———— PCZ-AHRD0434	**With 6 circular inlets DN 160 mm. For P-FSN45.** ———— PCZ-AHRD0464	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0524	**For P-FSN45.** ———— PCZ-AHRD0534	**For P-FSN45.** ———— PCZ-AHRD0544
For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65. ———— PCZ-AHRD0495	**With 7 circular inlets DN 160 mm. For P-FSN55.** ———— PCZ-AHRD0435	**With 7 circular inlets DN 160 mm. For P-FSN55.** ———— PCZ-AHRD0465	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0525	**For P-FSN55.** ———— PCZ-AHRD0535	**For P-FSN55.** ———— PCZ-AHRD0545

Plenum kit for external air connection with damper for room recirculation	Ducting plate plenum kit for outdoor air connection with damper	90° plenum for outdoor air kit with damper	Telescopic kit. For plenum for outdoor air kit with damper	Grille for telescopic kit. For plenum for outdoor air kit with damper
				
For P-FSN20. ———— PCZ-AHRD0639	**For P-FSN20.** ———— PCZ-AHRD0651	**For P-FSN20.** ———— PCZ-AHRD0656	**For P-FSN20.** ———— PCZ-AHRD0661	**For P-FSN20.** ———— PCZ-AHRD0666
For P-FSN25 and P-FSQ30. ———— PCZ-AHRD0640	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0652	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0657	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0662	**For P-FSN25 and P-FSQ30.** ———— PCZ-AHRD0667
For P-FSN35 and P-FSQ45. ———— PCZ-AHRD0641	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0653	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0658	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0663	**For P-FSN35 and P-FSQ45.** ———— PCZ-AHRD0668
For P-FSN45 and P-FSQ60. ———— PCZ-AHRD0642	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0654	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0659	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0664	**For P-FSN45 and P-FSQ60.** ———— PCZ-AHRD0669
For P-FSN55 and P-FSQ75. ———— PCZ-AHRD0643	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0655	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0660	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0665	**For P-FSN55 and P-FSQ75.** ———— PCZ-AHRD0670

Aquarea Air Smart fan coil – Ducted multi zone thin accessories

Control accessories

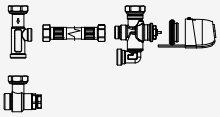
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.

————
PCZ-EEB749

Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.

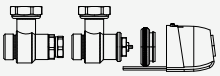
————
PCZ-EFB749

Hydraulic accessories



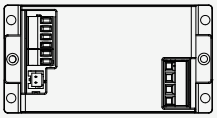
3 way valve with motor for Aquarea Air Smart fan coil – Ducted.

————
PCZ-V30361



2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.

————
PCZ-V20139



PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.

————
PCZ-EG1028

Replacement recirculation filter kit

For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30.
————
PCZ-AHRD0492

For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45.
————
PCZ-AHRD0493

For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60.
————
PCZ-AHRD0494

For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65.
————
PCZ-AHRD0495

Return plenum

With 2 circular inlets DN 160 mm. For P-FTQ30.
————
PCZ-AHRD0682

With 3 circular inlets DN 160 mm. For P-FTQ45.
————
PCZ-AHRD0683

With 4 circular inlets DN 160 mm. For P-FTQ60.
————
PCZ-AHRD0684

With 5 circular inlets DN 160 mm. For P-FTQ65.
————
PCZ-AHRD0685

90° shooting plenum

For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0577

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0578

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0579

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0580

Plenum kit for external air connection with damper for room recirculation

For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0572

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0573

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0574

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0575

Ducting plate plenum kit for outdoor air connection with damper

For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0612

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0613

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0614

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0615

90° plenum for outdoor air kit with damper

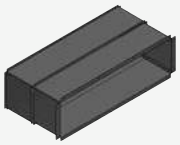
For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0617

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0618

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0619

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0620

Telescopic kit. For plenum for outdoor air kit with damper



For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0622

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0623

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0624

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0625

Grille for telescopic kit. For plenum for outdoor air kit with damper

For P-FTN20 and P-FTQ30.
————
PCZ-AHRD0627

For P-FTN25 and P-FTQ45.
————
PCZ-AHRD0628

For P-FTN35 and P-FTQ60.
————
PCZ-AHRD0629

For P-FTN45 and P-FTQ65.
————
PCZ-AHRD0630

Non-return damper

Non-return damper. For P-FTQ and P-FSQ.

————
PCZ-AHRD0519

Aquarea Air Smart fan coil – Ducted multi zone accessories

Control accessories

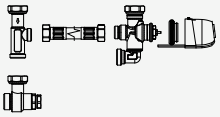
Wall-mounted control with Modbus for Aquarea Air Smart fan coils.

PCZ-EEB749

Wall-mounted control with integrated Wi-Fi for Aquarea Air Smart fan coils.

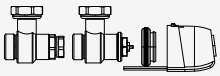
PCZ-EFB749

Hydraulic accessories



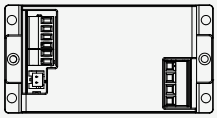
3 way valve with motor for Aquarea Air Smart fan coil – Ducted.

PCZ-V30361



2 way valve with motor for Aquarea Air Smart fan coil – Floor standing, wall-mounted 40 and ducted.

PCZ-V20139



PCB for underfloor heating valve control. Requires PCZ-EEB749 or PCZ-EFB749.

PCZ-EG1028

Replacement recirculation filter kit

For P-FSN25, P-FTN20, P-FSQ30 and P-FTQ30.

PCZ-AHRD0492

For P-FSN35, P-FTN25, P-FSQ45 and P-FTQ45.

PCZ-AHRD0493

For P-FSN45, P-FTN35, P-FSQ60 and P-FTQ60.

PCZ-AHRD0494

For P-FSN55, P-FTN45, P-FSQ75 and P-FTQ65.

PCZ-AHRD0495

Return plenum

With 2 circular inlets DN 160 mm. For P-FSQ30.

PCZ-AHRD0466

With 3 circular inlets DN 160 mm. For P-FSQ45.

PCZ-AHRD0467

With 4 circular inlets DN 160 mm. For P-FSQ60.

PCZ-AHRD0468

With 5 circular inlets DN 160 mm. For P-FSQ75.

PCZ-AHRD0469

90° shooting plenum

For P-FSN25 and P-FSQ30.

PCZ-AHRD0522

For P-FSN35 and P-FSQ45.

PCZ-AHRD0523

For P-FSN45 and P-FSQ60.

PCZ-AHRD0524

For P-FSN55 and P-FSQ75.

PCZ-AHRD0525

Plenum kit for external air connection with damper for room recirculation

For P-FSN25 and P-FSQ30.

PCZ-AHRD0640

For P-FSN35 and P-FSQ45.

PCZ-AHRD0641

For P-FSN45 and P-FSQ60.

PCZ-AHRD0642

For P-FSN55 and P-FSQ75.

PCZ-AHRD0643

90° plenum for outdoor air kit with damper

For P-FSN25 and P-FSQ30.

PCZ-AHRD0657

For P-FSN35 and P-FSQ45.

PCZ-AHRD0658

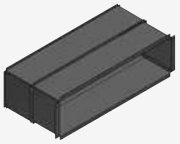
For P-FSN45 and P-FSQ60.

PCZ-AHRD0659

For P-FSN55 and P-FSQ75.

PCZ-AHRD0660

Telescopic kit. For plenum for outdoor air kit with damper



For P-FSN25 and P-FSQ30.

PCZ-AHRD0662

For P-FSN35 and P-FSQ45.

PCZ-AHRD0663

For P-FSN45 and P-FSQ60.

PCZ-AHRD0664

For P-FSN55 and P-FSQ75.

PCZ-AHRD0665

Grille for telescopic kit. For plenum for outdoor air kit with damper

For P-FSN25 and P-FSQ30.

PCZ-AHRD0667

For P-FSN35 and P-FSQ45.

PCZ-AHRD0668

For P-FSN45 and P-FSQ60.

PCZ-AHRD0669

For P-FSN55 and P-FSQ75.

PCZ-AHRD0670

Non-return damper

Non-return damper. For P-FTQ and P-FSQ.

PCZ-AHRD0519

Control – Flex Air Smart fan coils

Flex Air Smart fan coil – Wall-mounted

CONEX wired remote controller (non-wireless), white.

CZ-RTC6W

CONEX wired remote controller with Bluetooth®, white.

CZ-RTC6WBL

CONEX wired remote controller with Wi-Fi and Bluetooth®, white.

CZ-RTC6WBLW2

CONEX wired remote controller (non-wireless), black.

CZ-RTC6

CONEX wired remote controller with Bluetooth®, black.

CZ-RTC6BL

CONEX wired remote controller with Wi-Fi and Bluetooth®, black.

CZ-RTC6BLW2

Design wired remote controller with Econavi function.

CZ-RTC5B

Infrared remote controller.

CZ-RWS3

Econavi energy saving sensor.

CZ-CENSC1

Wired remote controller for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

PAW-FC-903EC

System controller for 64 indoor units with weekly timer.

CZ-64ESMC3

Intelligent controller (touch screen/web server) to control up to 256 indoors with included load distribution ratio (LDR).

CZ-256ESMC3

Central ON / OFF controller, up to 16 groups, 64 indoor units.

CZ-ANC3

Flex Air Smart fan coil – Medium static pressure duct

Smart controller. Mini building management system, up to 15 zones and 31 units.

SRC

CONEX wired remote controller (non-wireless), white.

CZ-RTC6W

CONEX wired remote controller with Bluetooth®, white.

CZ-RTC6WBL

CONEX wired remote controller with Wi-Fi and Bluetooth®, white.

CZ-RTC6WBLW2

CONEX wired remote controller (non-wireless), black.

CZ-RTC6

CONEX wired remote controller with Bluetooth®, black.

CZ-RTC6BL

CONEX wired remote controller with Wi-Fi and Bluetooth®, black.

CZ-RTC6BLW2

Infrared remote controller and receiver for all indoor units.

CZ-RWS3 + CZ-RWRC3

Wired remote controller with touch control for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

PAW-FC-907EC

Wired remote controller for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

PAW-FC-903EC

Control – Flex Air fan coils

Flex Air fan coils

Electro-mechanical controller (supplied loose).

————

TRM-FA

Electronic controller.

————

Plogic

Electronic controller.

————

TControl EASY 3S

Electronic controller.

————

TControl POD glass

Wired remote controller with touch control for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

————

PAW-FC-907EC

Wired remote controller with touch control for 2-pipe, AC fan coil (control only).

————

PAW-FC-907AC

Wired remote controller for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

————

PAW-FC-903EC

Wired remote controller for 2-pipe, AC fan coil (control only).

————

PAW-FC-903AC

Advanced wired remote controller for fan coil.

————

PAW-FC-RC1

Smart controller. Mini building management system, up to 15 zones and 31 units.

————

SRC

Plogic remote control with integrated temperature sensor.

————

WRC / MRC

Plogic remote control.

————

BRC

Plogic remote control with integrated temperature sensor.

————

IRC

Panasonic

Rooftops

Rooftop units provide air-based cooling and heating for commercial buildings to ensure thermal comfort and proper indoor air quality (IAQ) through ventilation. Easy installation, space savings and customisation allow you to meet all your needs.

ABOUT

Quick selection guide - Rooftops cooling only → 588

Quick selection guide - Rooftops reversible → 588

Energy recovery system configurations → 589

PRODUCT SPECIFICATIONS

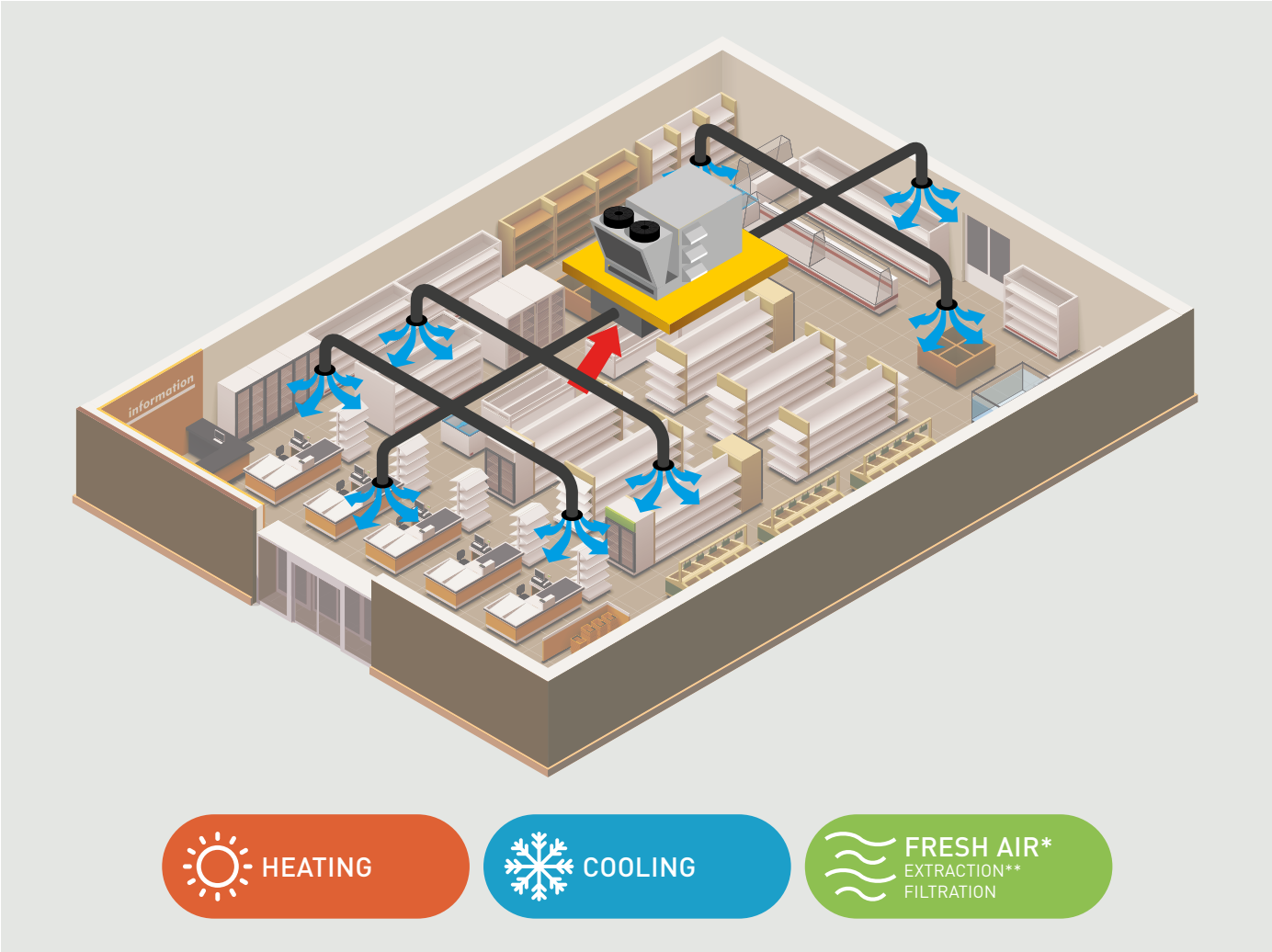
ECOi-RT-Z 105-140 H · R32 → 590

ECOi-RT 65-190 C · R410A → 592

Rooftops

A complete monobloc solution for large buildings.

With rooftop units, you get a complete compact and monobloc solution to heat and cool large buildings such as shopping centers, industries or airports that need high capacities. It is an easy to install, space saving solution, directly on the roof or close to a building.



SELF-CONTAINED SOLUTION, COMPACT AND MONOBLOC

CAPACITY RANGE FROM 63 TO 197 KW

R32 R410A REFRIGERANTS: R32 / R410A

HIGH SEER AND SCOP

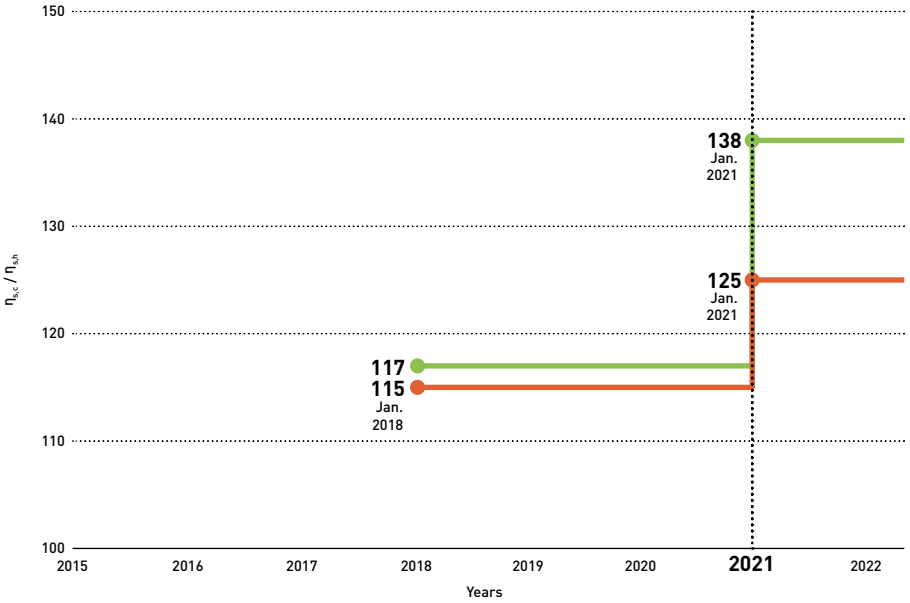
HIGH ESP VERY HIGH EXTERNAL STATIC PRESSURE

EXTRACTIBLE DRAIN PAN

MANY CONFIGURATIONS AND OPTIONS

*With 2 or 3 dampers configurations. **Available only with 3 dampers configuration.

Ecodesign



Air to air rooftops cooling only.

Minimum $\eta_{s,c}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) 2016/2281.

Air to air rooftops reversible.

Minimum $\eta_{s,h}$ to be Ecodesign compliant.
COMMISSION REGULATION (EU) No813/2013.

Quick selection guide - Rooftops cooling only

Page	Size	Cooling capacity (kW)	Nominal air flow (m³/h)	Sound power (lwo - dB(A))	Dimension L x H x W (mm)
ECOi-RT C · R410A					
P. 592	65	62,80	11500	83	3250 x 1800 x 2030
	80	79,00	14300	80	3250 x 1800 x 2030
	95	89,27	17500	85	3740 x 2110 x 2285
	160	164,98	28000	91	5505 x 2110 x 2285
	190	197,06	30000	92	5505 x 2110 x 2285

Quick selection guide - Rooftops reversible

Page	Size	Cooling and heating capacity (kW)	Nominal air flow (m³/h)	Sound power (lwo - dB(A))	Dimension L x H x W (mm)
ECOi-RT-Z 105-140 H · R32					
R32 **P. 590**	105	106,0 / 106,0	19200	79,8	3740 x 2150 x 2285
	120	119,0 / 117,0	21500	79,8	3740 x 2150 x 2285
	140	139,0 / 142,0	25500	86,1	3740 x 2150 x 2285

*Heat pump version with EC fans.

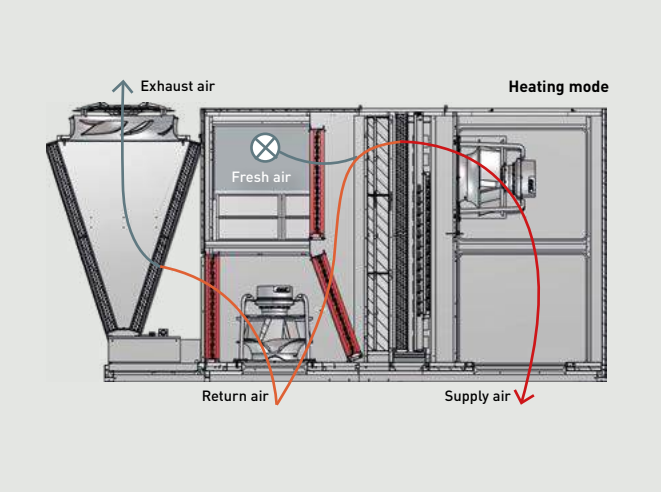
Energy recovery system configurations

RECO - standard energy recovery (3 dampers)

Energy recovery on the exhaust air.

	Pc	EER	Ph	COP
3 dampers + RECO 30% fresh air	+1%	+2%	+7%	+4%
3 dampers + RECO 60% fresh air	+2%	+4%	+14%	+8%

*Nominal conditions. Pc: cooling capacity / Ph: heating capacity.

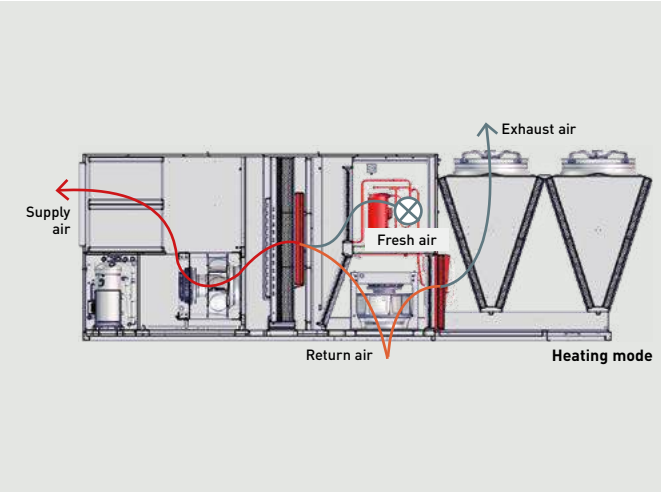


TRECO - thermodynamic energy recovery (3 dampers)

Active energy recovery between the exhaust air and the fresh air using dedicated thermodynamic system.

	Pc	EER	Ph	COP
3 dampers + TRECO 20% fresh air	+21%	0%	+20%	+3%
3 dampers + TRECO 60% fresh air	+20%	-2%	+21%	+4%

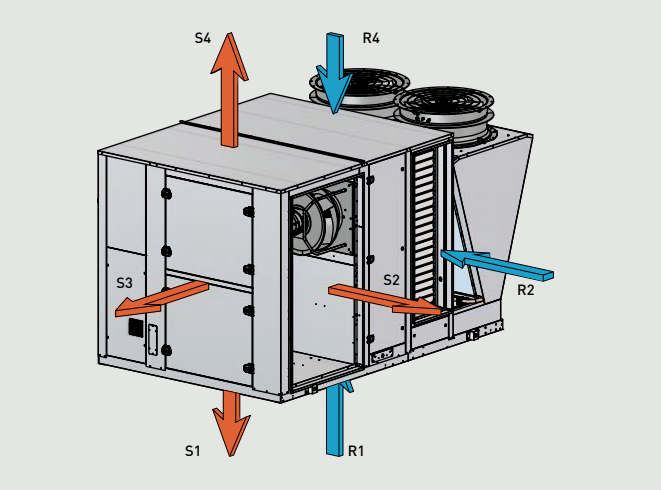
*Nominal conditions. Pc: cooling capacity / Ph: heating capacity.
**TRECO is not available for the R32 rooftops.



Supply and return air configurations

Supply air	S1 bottom side supply air
	S2 left side supply air
	S3 front side supply air
	S4 top side supply air
Return air	R1 bottom side return air
	R2 left side return air
	R4 top side return air [1]

1) Not available with the 3 dampers - RECO system configuration.



AC SELECT.

Smart and user-friendly selection tool.

Configure your air conditioning solution at required conditions: https://acselect.panasonic.eu/

ECOi-RT-Z 105-140 H · R32

Rooftop reversible units.

Cooling capacity: 106 to 139 kW.
Heating capacity: 106 to 142 kW.

CO_2 carbon footprint reduced by -80%*

*Impact considering only the refrigerants and not the units as a whole.

R32 REFRIGERANT

The range at a glance

- Reversible version
- SEER up to 3,8 and SCOP up to 3,56
- 3 sizes
- Nominal air flow from 19200 to 25500 m³/h
- Additional heaters available
- Many supply and return air configurations
- 1 energy recovery system configuration (RECO)

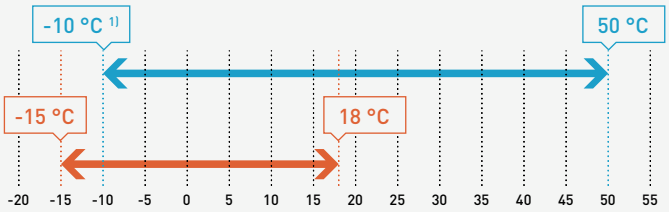
Advantages

- Low GWP R32 refrigerant (GWP= 675)
- Very low sound levels
- Safety ventilation system
- Low energy consumption EC fans
- Many supply and return air configurations
- Thermal/acoustic insulation: double skin (25 mm glass wool)
- Dehumidification function (option)
- 100% factory tested

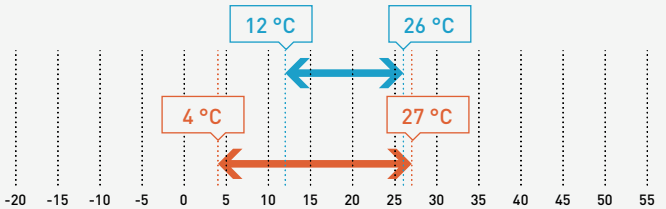
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature (DB).



Temperature before indoor coil 2).



1) Using fan speed control option. 2) Cooling: °C (WB). Heating: °C (DB).

Equipment

- 2 refrigerant circuits for an optimised defrost logic, completely closed in a separate compartment to reduce noise level. Each circuit comprises of 1 Scroll compressor, indoor and outdoor coils, 4 way reversing valve, filter dryer, sight glass, thermostatic expansion valve, high and low pressure switches, defrosting pressure switch, and temperature sensors
- 2 Scroll compressors - 1 per circuit - covered with sound jackets. Each compressor is equipped with a crankcase heater and mounted on rubber pads to eliminate noise and vibration transmissions. The motors are equipped with an overload protection and have direct start-up. A phase sequence monitor is supplied as standard
- The new advanced control system includes, among others, Modbus protocols, optimised defrost logic, very high security envelope, Modbus control of the indoor fans, and a dehumidification function. The controls are grouped and wired in the unit, factory tested and shipped READY TO USE. They are located in a sealed compartment isolated from the air flow. The electrical equipment is compliant with EC standards and EN60204-1
- The outdoor and indoor heat exchangers are made of seamless copper tubes mechanically expanded into aluminium fins. They have a highly optimised design providing a refrigerant charge reduction of 40% (compared to a unit operating with R410A). Outdoor coils are largely dimensioned to optimise performance and defrost cycles. They are also equipped with a protective grille to prevent shocks - Bluefin treatment
- The unit casing is of heavy duty galvanized steel, painted with a special anti-corrosion process (RAL 9001). The complete unit is covered with double skin panels to ensure perfect thermal insulation. For full unit access, all service panels are removable. Under the indoor heat exchanger, an extractable condensate drain pan allows hygienic cleaning
- The indoor fans are plug fan type with EC motors
- A safety ventilation system ensures venting of the refrigerant gas to atmosphere in case of leak

ECOi-RT-Z 105-140 H · R32 units are available in 3 configurations:

- No damper: unit working with 100% recycled air
- 2 dampers: with outdoor air inlet
- 3 dampers - RECO system: energy recovery system on the exhaust air. This configuration is equipped with 2 return EC plug fans

Technical performance

Size			105	120	140
ECOi-RT-Z 105-140 H - reversible			**P-RTZ0105HA**	**P-RTZ0120HA**	**P-RTZ0140HA**
Cooling capacity [1]		kW	106	119	139
Input power [1]		kW	31,5	36,8	43,0
EER [1]			3,37	3,23	3,24
Pdesign [2] [3]		**kW**	**106**	**119**	**139**
SEER [2] [3]			**3,82**	**3,82**	**3,67**
Energy efficiency class [2] [3]		**A+ to E**	**B**	**B**	**B**
$\eta_{s,c}$ [2] [3]			**150**	**150**	**144**
Heating capacity [1]		kW	106	117	142
Input power [1]		kW	27,0	30,3	38,0
COP [1]			3,72	3,89	3,69
Pdesign [2] [3]		**kW**	**100**	**118**	**140**
SCOP [2] [3]			**3,36**	**3,56**	**3,32**
Energy efficiency class [2] [3]		**A+ to E**	**B**	**B**	**B**
$\eta_{s,h}$ [2] [3]			**131**	**130**	**130**
Electrical data					
Power supply	Voltage	V	400	400	400
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Maximum operating intensity		A	79,0	85,0	105,0
Refrigerant and compressors					
Number of refrigerant circuits			2	2	2
Compressors	Number / type		2 / Scroll	2 / Scroll	2 / Scroll
Mounting type			Single	Single	Single
Capacity steps		%	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100
Indoor coil					
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			4	4	4
Front surface		m²	3,24	3,24	3,24
Outdoor coil					
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			3	3	3
Front surface		m²	1,50	1,50	1,50
Indoor fans - EC type					
Fan type			Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal
Number of fans			2	2	2
Air flow rate	Min. / Nominal / Max.	m³/h	15360 / 19200 / 23040	17200 / 21500 / 25800	20400 / 25500 / 30600
Motor power		kW	4,23	4,60	5,72
Outdoor fans					
Fan	Number / type		2 / Axial	2 / Axial	2 / Axial
Motor power		kW	1,51	1,51	1,51
Sound levels					
Sound power		dB(A)	79,8	79,8	86,1
Supply sound power		dB(A)	84,2	84,2	91,3
Sound pressure at 10 m		dB(A)	48,8	48,8	55,1
Dimension and weight					
Dimension	Length total / floor	mm	3740 / 3295	3740 / 3295	3740 / 3295
	Width / Height	mm	2285 / 2150	2285 / 2150	2285 / 2150
Weight (without option)		kg	1685	1805	1855

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.

Accessories and options
2 dampers - for external air inlet
3 dampers RECO - return EC plug fans included (HPF or LFP) + Recovery
Anti-vibration mounts
Clogged filter sensor (1 or 2 stages)
Compressor soft starter
Container transportation compatibility
Dehumidification function
Electric heater 48 kW
Energy meter

Accessories and options
Fan speed control
G4, G4+F7 or G4+F9 filters
Hot water coil
Local and additional remote keyboard
Many aeraulic configurations
Room temperature sensor
Sensors (enthalpy, CO_2)
Smoke detector
Supply EC LPF plug fans

Accessories supplied loose	
P-575505	Kit adjustable roof curb S1R1 - 0/2 Dampers without gas

R32 REFRIGERANT | HIGH SEER 3,82 | HIGH SCOP 3,56 | ErP ✔ | EC MOTOR GREEN VENTILATION | SCROLL COMPRESSOR | VERY HIGH PERFORMANCE | ENERGY RECOVERY | PS COMMERCIAL SMART EDGE

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

ECOi-RT 65-190 C · R410A

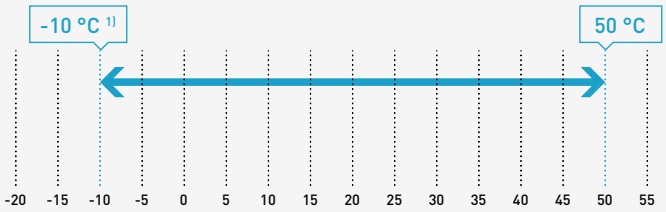
Rooftop cooling only units.

Cooling capacity: 62,8 to 197 kW.

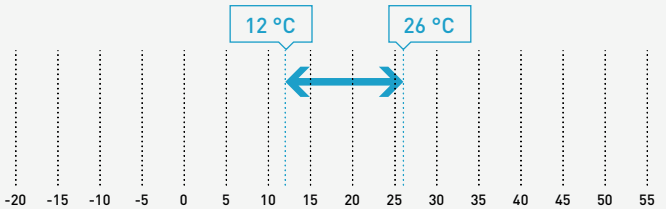
Operating limits

To be confirmed with AC SELECT:
https://acselect.panasonic.eu/

Ambient temperature (DB).



Temperature before indoor coil 2).



1) Using fan speed control option. 2) Cooling: °C (WB).

The range at a glance

- 1 version: C (cooling only)
- SEER up to 3,94
- 5 sizes
- Nominal air flow from 11500 to 30000 m³/h
- Additional heaters available
- Many aeraulic configurations
- 2 energy recovery system configurations (RECO and TRECO)

Advantages

- Low energy consumption EC fans
- Wide operating limits
- Thermal/acoustic insulation: double skin (25 mm glass wool)
- 100% factory tested

Equipment

- 2 refrigerant circuits for an optimised defrost logic, completely closed in a separate compartment to reduce noise level. Each circuit comprises of Scroll compressor(s) (2 per circuit from size 160), indoor and outdoor coils, filter dryer, sight glass, thermostatic or electronic expansion valve (from 160 to 190), high and low pressure switches, defrosting pressure switch, intake temperature sensor, and a liquid accumulation bottle (for sizes from 160 to 190)
- 2 or 4 Scroll compressors - 1 per circuit from 65 to 95 and 2 per circuit for 160 to 190 assembled together in tandem. Each compressor is equipped with a crankcase heater and mounted on rubber pads to eliminate noise and vibration transmissions. The motors are equipped with overload protection and have direct start-up. A phase sequence monitor is supplied as standard
- The controls are grouped and wired in the unit, factory tested and shipped READY TO USE. They are located in a sealed compartment that is isolated from the air flow. The electrical equipment is compliant with EC standards and EN60204-1
- The outdoor and indoor heat exchangers are made of seamless copper tubes mechanically expanded into aluminium fins. Outdoor coils are largely dimensioned to optimise performance and defrost cycles. They are also equipped with a protective grille to prevent shocks - Bluefin treatment applicable to reversible type
- The unit casing is of heavy duty galvanized steel, painted with a special anti-corrosion process (RAL 9001). The complete unit is covered with double skin panels to ensure perfect thermal insulation. For full unit access, all service panels are removable. Under the indoor heat exchanger, an extractable condensate drain pan allows hygienic cleaning
- The indoor fan(s) are plug type with EC motors; low pressure or high pressure according to the configuration selected by the customer.

Technical performance

Size			65	80	95	160	190
ECOi-RT C EC fan - cooling only			**P-RTE0065CA**	**P-RTE0080CA**	**P-RTE0095CA**	**P-RTE0160CA**	**P-RTE0190CA**
Cooling capacity [1]		kW	62,80	79,00	89,27	164,98	197,06
Input power [1]		kW	19,44	23,24	28,80	51,19	60,61
EER [1]			3,23	3,40	3,10	3,22	3,25
Pdesign [2] [3]		**kW**	**62,81**	**79,00**	**95,10**	**164,98**	**197,06**
SEER [2] [3]			**3,58**	**3,74**	**3,54**	**3,91**	**3,94**
Energy efficiency class [2] [3]		**A+ to E**	**B**	**B**	**B**	**B**	**B**
$\eta_{s,c}$ [2] [3]			**140**	**147**	**139**	**154**	**154**
Electrical data							
Power supply	Voltage	V	400	400	400	400	400
	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50
Maximum operating intensity		A	57,60	74,60	83,80	157,80	161,80
Start intensity (without soft starter)		A	175,00	184,60	225,80	266,80	303,80
Start intensity (with soft starter)		A	85,68	113,60	125,40	198,10	203,40
Refrigerant and compressors							
Number of refrigerant circuits			2	2	2	2	2
Compressors	Number / type		2 / Scroll	2 / Scroll	2 / Scroll	4 / Scroll	4 / Scroll
Mounting type			Single	Single	Single	Tandem	Tandem
Capacity steps		%	0 / 50 / 100	0 / 50 / 100	0 / 50 / 100	0 / 25 / 50 / 75 / 100	0 / 25 / 50 / 75 / 100
Crankcase heater		W	2 x 70	2 x 70	2 x 70	4 x 70	4 x 70
Indoor coil							
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			3	4	3	4	6
Front surface		m²	1,80	2,25	2,25	3,24	3,24
Indoor fan(s) - EC type							
Fan type			Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal	Backward curved centrifugal
Number of fans			1	2	2	2	2
Air flow rate	Min. / Nominal / Max.	m³/h	9200 / 11500 / 13800	11440 / 14300 / 17160	14000 / 17500 / 21000	24000 / 28000 / 33600	25400 / 30000 / 36000
Motor power		kW	5,7	5,8	7	13,5	13,5
Outdoor coil							
Coil type			Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins	Copper tubes and aluminium fins
Number of rows			2	3	2	2	3
Front surface		m²	1,01	1,01	1,50	2,70	2,70
Outdoor fans							
Fan type			Axial	Axial	Axial	Axial	Axial
Number of fans			2	2	2	4	4
Diameter		mm	710	710	800	800	800
Air flow rate	Nominal	m³/h	13000	13000	20000	15500	15500
Motor power		kW	0,94	0,94	1,65	0,84	0,84
Sound levels							
Sound power (lwo) - outside		dB(A)	83	80	85	91	92
Sound power (lwi) - in supply duct		dB(A)	94	89	90	91	92
Dimension and weight							
Dimension	Length total / floor	mm	3250 / 2895	3250 / 2895	3740 / 3295	5505 / 5050	5505 / 5050
	Width / Height	mm	2030 / 1800	2030 / 1800	2285 / 2110	2285 / 2110	2285 / 2110
Weight (without option)		kg	1155	1225	1470	2350	2555

1) Following EN 14511 2018. 2) Following EN 14825 2017. 3) Following COMMISSION REGULATION (EU) 2016/2281.

Accessories and options
Anti-vibration mounts
Clogged filter sensor (1 or 2 stages)
Container transportation compatibility
Compressor soft starter
EC or EC HP plug fan
Electric heaters
Epoxy treatment (indoor/outdoor coils)
Fan speed control
2-dampers configuration including free-cooling/free-heating functions
G4, G4+F7 or G4+F9 filters

Accessories and options
Gas heater
Hot water coil
Local and additional remote keyboard
Modbus / BACnet
Many aeraulic configurations (bottom, side, front, top)
RECO or TRECO energy recovery systems including 3-dampers and exhaust fan
FRECO energy recovery system
Room temperature sensor
Sensors (VOC, enthalpy, CO_2)
Smoke detector

Accessories supplied loose	
P-372062	Kit adjustable roof curb S1R1 – 0/2 dampers with/without gas for sizes 65-80
P-575505	Kit adjustable roof curb S1R1 – 0/2 dampers with/without gas for size 95
P-575506	Kit adjustable roof curb S1R1 – 0/2 dampers without gas for sizes 160-190
P- 374372	Kit adjustable roof curb S1R1 – 0/2 dampers with gas for sizes 160-190

Accessories supplied loose	
P- 372627	Kit adjustable roof curb S1R1 – 3 dampers with/without gas for sizes 65-80
P- 372628	Kit adjustable roof curb S1R1 – 3 dampers with/without gas for size 95
P- 372629	Kit adjustable roof curb S1R1 – 3 dampers without gas for sizes 160-190

HIGH SEER 3,94 | ErP | EC MOTOR GREEN VENTILATION | SCROLL COMPRESSOR | VERY HIGH PERFORMANCE | ENERGY RECOVERY | COMMERCIAL SMART EDGE

ErP: ECOi-RT C 160/190 need to be equipped with EC fans to be ErP compliant.
Eurovent certication from size 65 to 95.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

iCO2RE
iCOOL

Moving to more sustainable refrigeration solutions – iCO2RE and iCOOL ranges

15 years CO_2

Panasonic's iCO2RE and iCOOL condensing units offer a complete line of cooling solutions using CO_2, A2L, and HFC/HFO refrigerants – ideal for retail stores, supermarkets, HoReCa, gas stations, food processing, and cold storage. As the industry transitions toward greener technologies, Panasonic provides systems that address both immediate needs and long-term goals in energy efficiency and enhanced environmental responsibility.

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Solutions with high energy saving → 598
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ABOUT

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A more sustainable refrigeration systems in your food retail → 604
The safe refrigeration systems for your healthcare business → 605
iCO2RE OCU-CR CO_2 Series → 606
Technology by Panasonic → 608
Control and connectivity → 610
iCO2RE OCU/SCU-CRC Custom-fit CO_2 Series → 614

PRODUCT SPECIFICATIONS

iCO2RE CO_2 range product specifications and capacity tables
iCO2RE OCU-CR CO_2 Series · R744 → 612
iCO2RE OCU/SCU-CRC Custom-fit CO_2 Series · R744 → 616
iCO2RE NCU-CTC CO_2 Series · R744 → 617

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ABOUT

iCOOL A2L and HFC/HFO range – Inverter solutions for today and tomorrow → 624
iCOOL SE Series - A2L and HFC/HFO condensing units → 626
iCOOL OCU/SCU Series - HFC/HFO condensing units → 632
iCOOL LCU/WCU Series - HFC/HFO compressor base/condensing units → 640

PRODUCT SPECIFICATIONS

iCOOL A2L and HFC/HFO range product specifications and capacity tables
iCOOL SE Series – OCU-LRE/LRC – A2L-ready MT models · R454C / R455A / R448A / R449A / R134a / R513A → 627
iCOOL SE Series – OCU-LRE – A2L-ready LT models · R454C / R455A / R448A / R449A → 628
iCOOL SE Series – OCU-KRE – HFC/HFO models · R448A / R449A / R134a / R513A → 630
iCOOL OCU Series · R448A / R449A / R134a / R513A → 633
iCOOL SCU Series · R448A / R449A / R134a / R513A → 637
iCOOL LCU Series (remote compressor base) · R448A / R449A / R134a / R513A → 642
iCOOL WCU Series (water/glycol cooled condensing units) · R448A / R449A / R134a / R513A → 644

Customisation options for iCOOL A2L and HFC/HFO range → 648
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ABOUT

PACi NX Elite can cool rooms down to 8 °C → 650
Bringing nature's balance indoors → 652

PRODUCT SPECIFICATIONS

PACi NX Elite product specifications
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Accessories and control – PACi NX → 659

Refrigeration engineered for excellence

Step toward more sustainable cooling solutions.

Panasonic introduces its most extensive and versatile commercial refrigeration range to date.

This milestone reflects a significant strategic evolution.

The world keeps moving. So must cooling. Meet our refrigeration portfolio.

Complete line of cooling solutions using CO_2, HFO and HFC refrigerants.

Panasonic unveils iCO2RE and iCOOL refrigeration ranges.

The portfolio introduces two distinct product ranges, designed to provide commercial refrigeration to a wide range of applications including retail stores, supermarkets, HoReCa sector, gas stations and cold storage applications:

iCO2RE

Move to natural refrigerants.

CO_2
R744

iCOOL

Reduce your energy bills with advanced Inverter technology.

A2L R454C | A2L R455A

R448A | R449A | R134a | R513A

iCO2RE

Move to natural refrigerants.
Panasonic's flagship range of CO_2 condensing units, representing the core of future-proof, natural refrigerant technology.
The iCO2RE range offers a broad selection of cooling capacities, with up to 29 kW for medium temperature applications, and up to 15 kW for low temperature requirements.

iCOOL

Reduce your energy bills with advanced Inverter technology.
A comprehensive range of Inverter HFC and A2L-ready solutions, designed to meet today's market needs while supporting the transition to lower-GWP refrigerants. The iCOOL range covers a wide spectrum of cooling capacities – up to 42 kW for medium temperature applications, and up to 14 kW for low temperature needs.

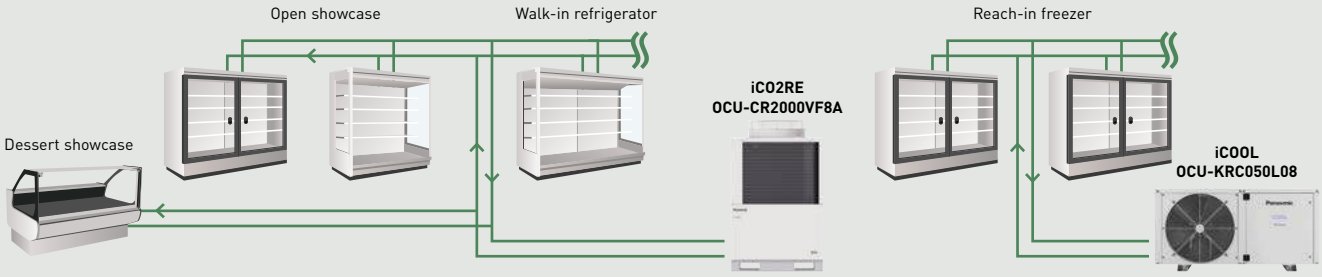
These brands reflect Panasonic's dual commitment: first, to lead the transition to more sustainable refrigerants; and second, to deliver long-term energy savings and lower electricity bills through advanced Inverter technology, benefiting both today's systems and those ready for the future.

Solutions with high energy saving

Panasonic's iCO2RE and iCOOL ranges of condensing units offer a reliable solution for a wide range of applications, including convenience stores, supermarkets, gas stations and cold rooms.

Showcases.

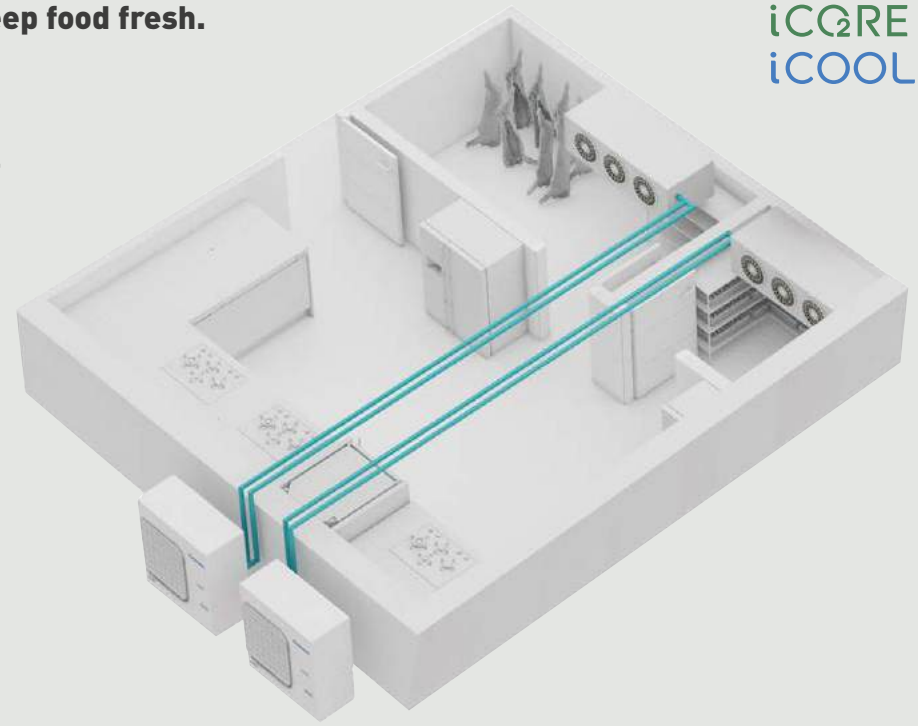
Convenience stores, supermarkets, gas stations.



Cold room application to keep food fresh.

Multiple installation capabilities.
Unparalleled flexibility:

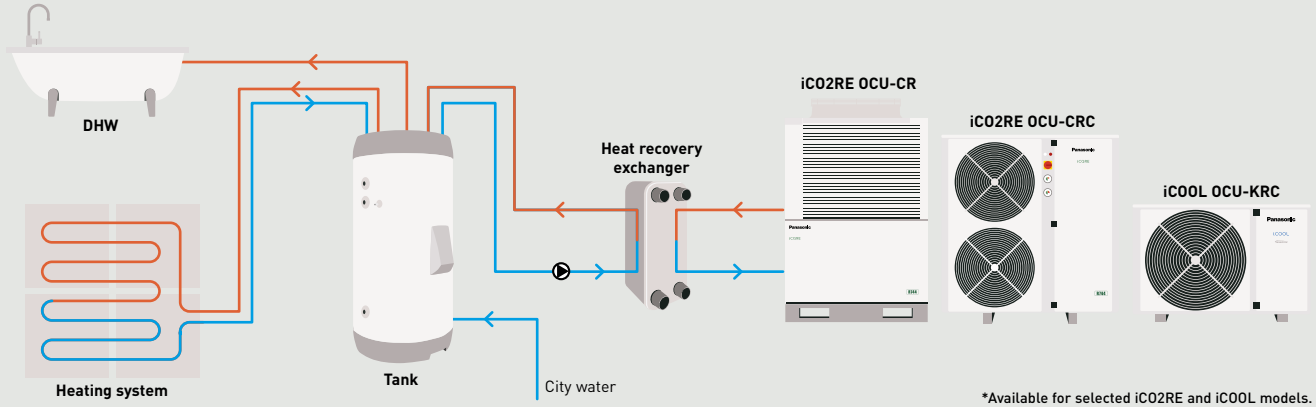
- Food retail applications (convenience store, supermarkets, gas stations)
- Food service applications (restaurants, canteens, schools)
- Non-food applications (warehousing, industrial storage, healthcare)



Heat recovery function for heating.

This function offers refrigeration combined with heating all in one system. The ground-breaking solution allows for increased opportunity to cut running costs by utilizing exhausted heat from refrigeration and transferring to the energy source for heating.

What is heat recovery function?
Solution example.
Heat recovery system can produce both heating and refrigeration.



*Available for selected iCO2RE and iCOOL models.

REF PRO DESIGNER

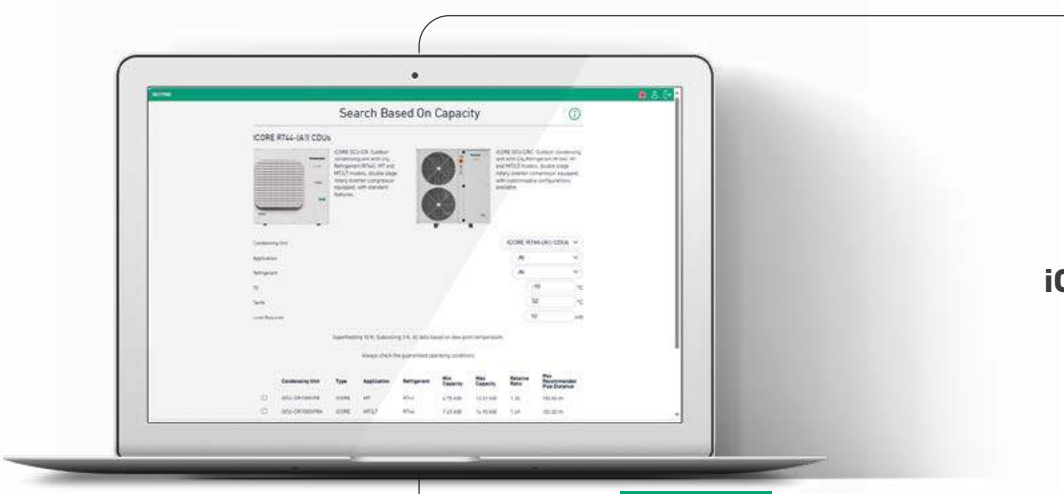
Think beyond unit selection.

REF PRO DESIGNER - An advanced design tool that supports engineers, installers, and technicians in designing advanced systems for commercial refrigeration installations.

ONE TOOL. ONE WORKFLOW

BETTER DECISIONS EARLIER. FEWER REDESIGNS LATER

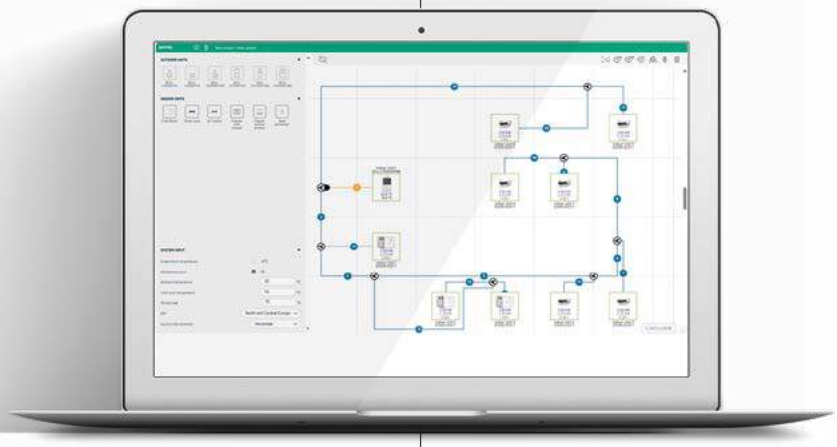
ACCESS IT ANYTIME, ANYWHERE- IN YOUR LANGUAGE



Select the optimal iCO2RE/iCOOL unit for your application.

Panasonic REF PRO DESIGNER

Design your installation with confidence and precision.



Ready to work on all devices, computers, tablets and smartphones!

- Evaporation temperature selection
- Cooling capacity calculation
- Refrigerant piping calculation
- EEV expansion valves calculation
- Refrigerant charge calculation
- Oil charge calculation

Download the comprehensive project report.

PRO Club

www.panasonicproclub.com

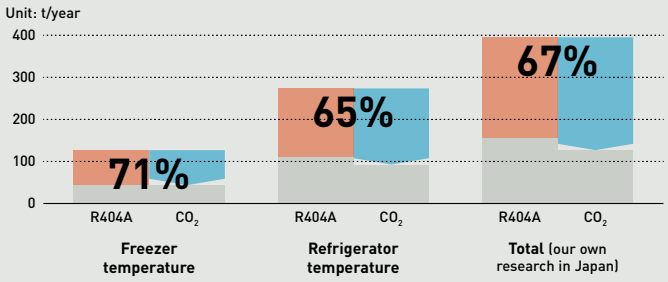
Or connect simply with your smartphone to the PRO Club using this QR

iCO2RE CO_2 range – Naturally efficient cooling

iCO2RE

Panasonic's iCO2RE range is a new generation of CO_2 condensing units, built on more sustainability, energy efficiency, and flexibility. Using CO_2 – a natural refrigerant – iCO2RE supports today's environmental goals while delivering reliable, high-performance cooling.

Comparison of CO_2 emissions.



Energy saving
25,4% freezer
16,2% refrigeration

CO_2 emission
67% reduction

Direct influence [1] Indirect influence [2]

1) Direct influence presents the effect of refrigerant leakage comparing R744 (CO_2) with R404A. 2) Indirect influence presents CO_2 emissions linked to power consumption of CO_2 unit and conventional units.
By Panasonic research in Japan. Comparing 6 shops average for R404A Inverter multi condensing unit.

The range includes the OCU-CR CO_2 Series – value-packed units designed for the evolving, eco-conscious market – and the OCU/SCU/NCU Custom Fit CO_2 Series, offering factory-integrated, and fully tested options for faster installation and reduced on-site labour.

iCO2RE is the core of an efficient, future-ready refrigeration system – combining ecological responsibility with practical performance to meet a wide range of market needs.

iCO2RE OCU-CR CO_2 Series · R744.

R744

From 4 to 29 kW MT and from 2 to 15 kW LT.

MADE IN JAPAN

iCO2RE OCU/SCU-CRC Custom-fit CO_2 Series · R744.

R744

From 6 to 21 kW MT and from 3 to 7 kW LT.

MADE IN EUROPE

NEW! iCO2RE NCU CO_2 Series · R744.

R744

Up to 1,8 kW MT and up to 0,9 kW LT.

MADE IN EUROPE

Choose a greener solution by Panasonic.

iCO2RE range – CO_2 condensing units for medium and low temperature refrigeration applications, tailored for demanding needs.

System reliability and precise temperature control are critical to maintaining product quality and ensuring food safety for end customers. Panasonic's solutions are also designed for high energy efficiency, helping businesses reduce operational costs while supporting their environmental responsibilities.

Why CO_2?: Natural refrigerant

EU F-Gas regulation is a key priority for European countries. It ensures compliance with the Kigali Amendment supporting international climate commitments on greenhouse gases and leading the global transition to climate-friendly HFC-free technologies.
Carbon dioxide (R744) is regaining its place in the refrigeration world. Driven by environmental concerns, legislation now requires increased adoption of 'alternative' refrigerants, such as CO_2.
CO_2 is an climate-friendly solution, with zero ODP and "GWP" (Global Warming Potential)=1 means natural substance in the atmosphere.
In Europe a step-by-step HFC reduction has been in place since the F-Gas regulation was introduced in 2015.
Countries all over the world have actively been preparing to enact the necessary domestic legislation to implement the agreement to reduce the use of HFCs.
The following table shows how well R744 (CO_2) performs regarding environmental impact and safety.

Panasonic provides a solution in Europe with CO_2 refrigeration systems to prevent global warming and to support climate-friendly retail operations

ODP (Ozone Depletion Potential)=0 - GWP (Global Warming Potential)=1

	Next generation refrigerant			Current refrigerant	
	CO_2	Ammonia	Isobutane	R410A	R404A
ODP	**0**	0	0	0	0
GWP	**1**	0	4	2090	3920
Flammability	**Non flammable**	Light flammable	Flammable	Non flammable	Non flammable
Toxicity	**No**	Yes	No	No	No

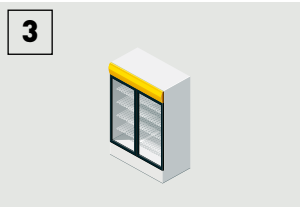
A more sustainable refrigeration systems in your food retail

CO_2 refrigerant is the choice to curb carbon footprint of any business organization, especially to food retailers, to whom it brings key advantages.
Panasonic professionals strongly supports your projects to meet customer's request!

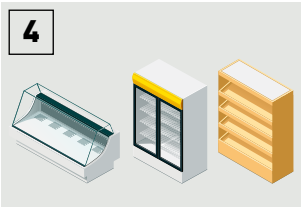
*Case study based on iCO2RE OCU-CR CO_2 Series CO_2 units.

10 HP MT TYPE (OCU-CR1000VF8).

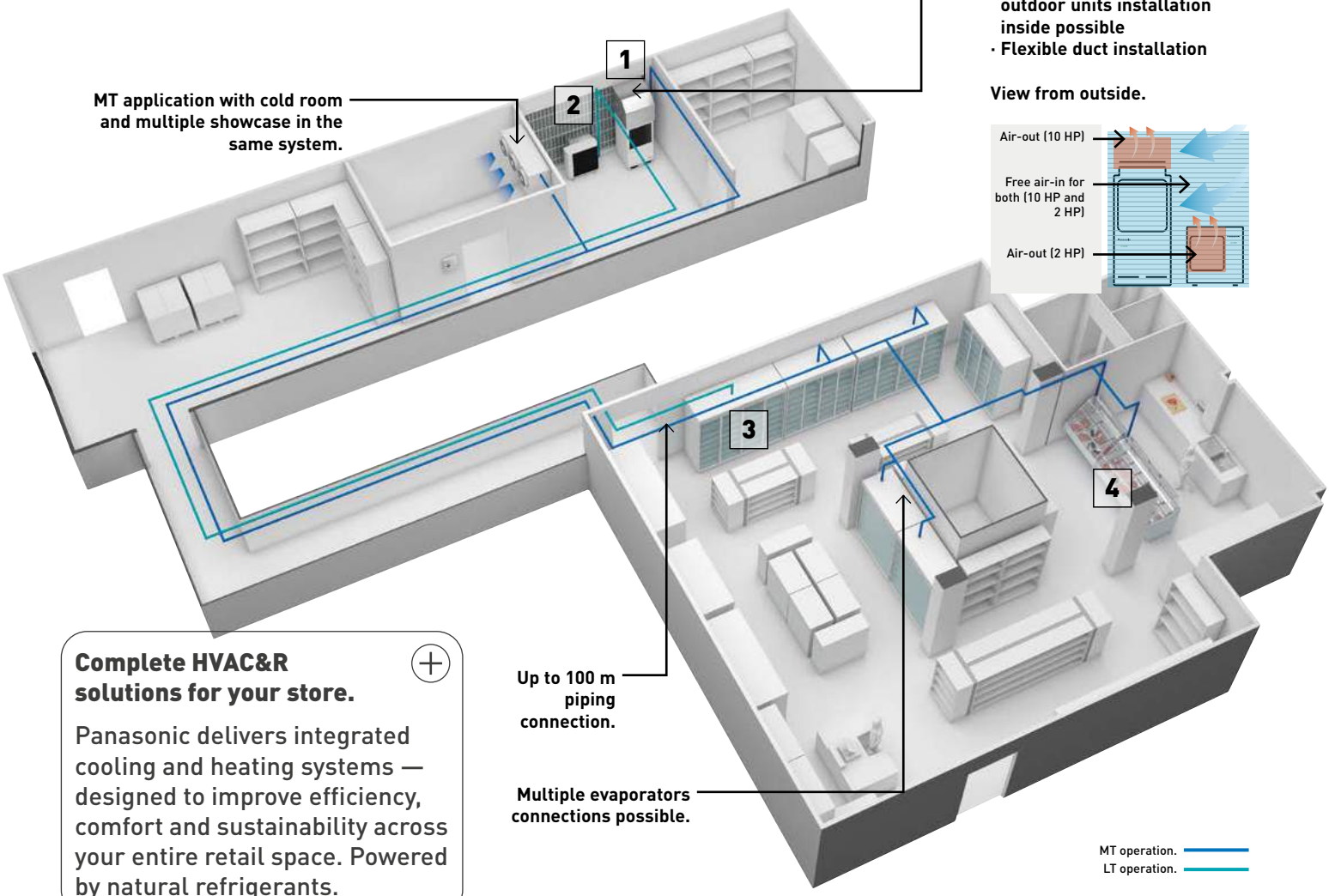
2 HP MT/LT TYPE (OCU-CR200VF5A).



Reach-in freezer (field supplied).



Serve-over counters, showcase and walk-in refrigerator (field supplied).



- **Quiet operation makes outdoor units installation inside possible**
- **Flexible duct installation**

View from outside.

Complete HVAC&R solutions for your store.

Panasonic delivers integrated cooling and heating systems — designed to improve efficiency, comfort and sustainability across your entire retail space. Powered by natural refrigerants.

Nolan's Supermarket.
Nolan's Supermarket celebrated its 60th year in business with an extension and full refurbishment which completely overhauled the existing store.
A particular focus of the project was to create a state-of-the-art refrigeration system operating on the 'Zero Ozone Depletion' plus ultralow GWP of 1 natural refrigerant CO_2 and as part of the scheme. Panasonic CO_2 condensing units - iCO2RE OCU-CR CO_2 Series have been chosen because of the high performance and reliable quality.

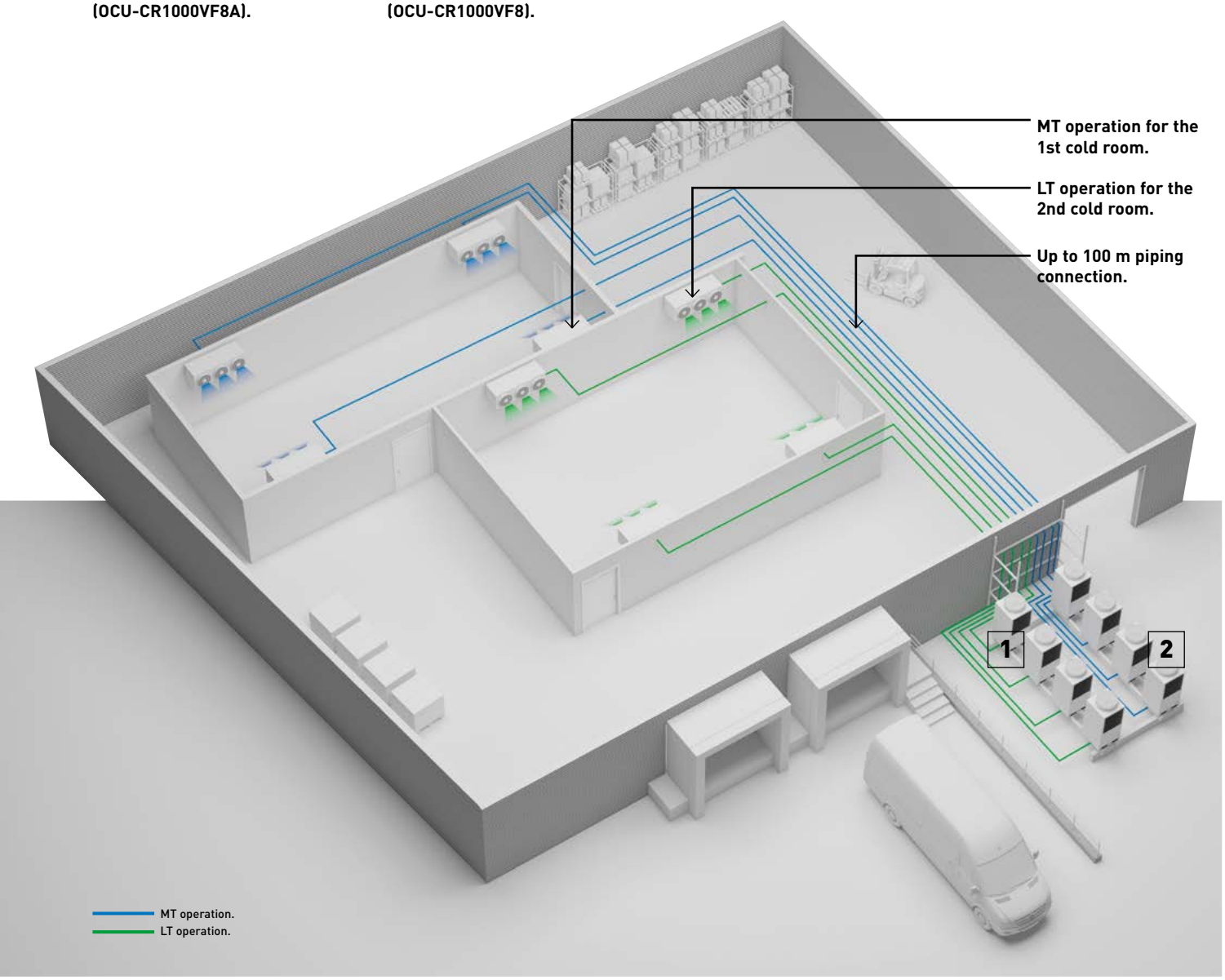
The safe refrigeration systems for your healthcare business

CO_2 is the right refrigerant to curb carbon footprint of any business organization. In addition, there are advantages specially for healthcare business. The project example shows one of the warehouse in the healthcare laboratory which requires several cold rooms there to keep bio-products safely.

*Case study based on iCO2RE OCU-CR CO_2 Series CO_2 units.

10 HP LT TYPE (OCU-CR1000VF8A).

10 HP MT TYPE (OCU-CR1000VF8).



STEMCELL Technologies.
STEMCELL Technologies is a global biotechnology company that develops, manufactures and sells products and provides services that support academic and industrial scientists.
Panasonic CO_2 condensing units - iCO2RE OCU-CR CO_2 Series have been chosen to fulfill the expectation of climate-friendly and safety requirements.
The products with reliable quality and high performance was also an essential point.

iCO2RE OCU-CR CO_2 Series

CO_2 transcritical condensing units. iCO2RE OCU-CR CO_2 Series offer a wide range of refrigeration systems, meeting the specific needs of various commercial applications.

MADE IN JAPAN

Superior cooling capacity at each evaporating temperature.

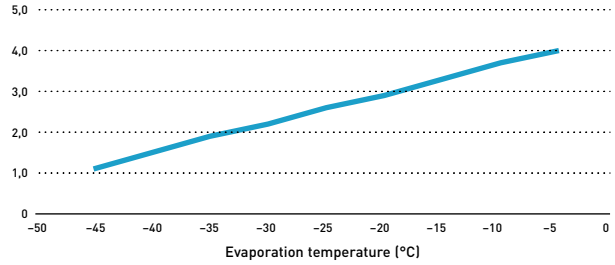
CO_2 transcritical condensing units - iCO2RE OCU-CR CO_2 Series have a high cooling capacity at each set point. The CO_2 2-stage compressor developed by Panasonic is designed to compress CO_2 refrigerant twice; it reduces the load in operation by half (compared to 1-stage refrigerant compression) and delivers increased durability and reliability.
Units can be programmed to run at low and medium temperatures at initial set-up. These settings can then be modified by turning a simple and user-friendly rotary switch to further enhance energy savings.

MT/LT type: 200VF5A - 3,7 / 1,9 kW.

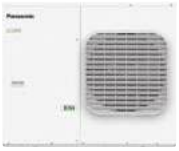
3,83 SEPR cooling.
1,92 SEPR freezing.

*SEPR values has been tested at 3-part laboratory.

OCU-CR200VF5A[1].
Cooling capacity (kW)



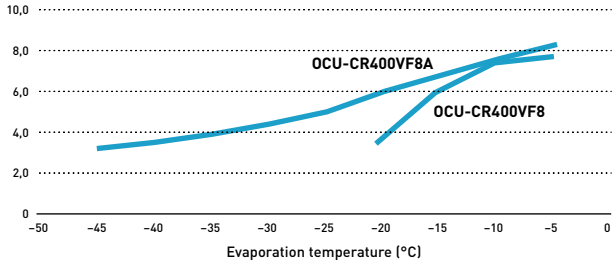
MT type: 400VF8 - 6,9 kW. MT/LT type: 400VF8A - 7,5 / 3,8 kW.



2,45 SEPR cooling.
1,56 SEPR freezing.

*Model 400VF8A.

OCU-CR400VF8 / OCU-CR400VF8A[2].
Cooling capacity (kW)

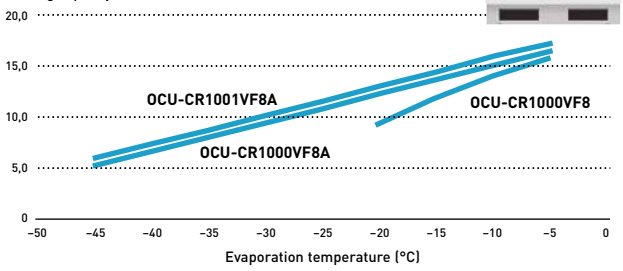


MT type: 1000VF8 - 13,5 kW. MT/LT type: 1000VF8A - 14,9 / 7,6 kW. NEW! MT/LT type: 1001VF8A - 16,0 / 8,6 kW.

3,00* SEPR cooling.
1,67* SEPR freezing.

*Model 1001VF8A.

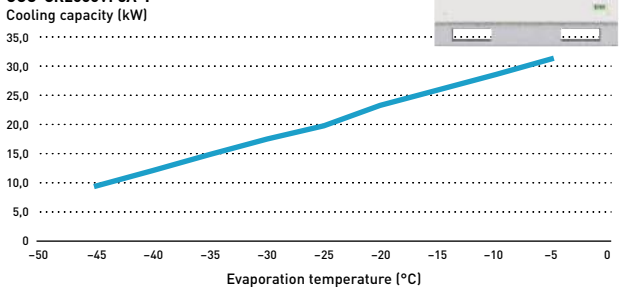
OCU-CR1000VF8 / OCU-CR1000VF8A / OCU-CR1001VF8A[2].
Cooling capacity (kW)



MT/LT type: 2000VF8A - 28,7 / 14,6 kW.

3,10 SEPR cooling.
1,64 SEPR freezing.

OCU-CR2000VF8A[2].
Cooling capacity (kW)



1) Ambient temperature: 32 °C, 230 V, refrigerant: R744, suction gas temperature: 18 °C. 2) Ambient temperature: 32 °C, 400 V, refrigerant: R744, suction gas temperature:18 °C.

1 Superior efficiency with reliable quality

- Panasonic has combined the 2-stage compressor with the split cycle for increased efficiency
- High seasonal performance. SEPR: maximum 3,83 in cooling, 1,92 in freezing*
- High COP at high ambient temperature

*200VF5A.

2 Heat recovery port [1] as renewable energy

- Maximum 16,7 kW [2] of heating for free
- Optional possibility to get subsidy (depending on location)
- Easy connection process

1) For models 1000VF8A, 1001VF8A and 2000VF8A. 2) For model 1000VF8A.

3 Flexible installation

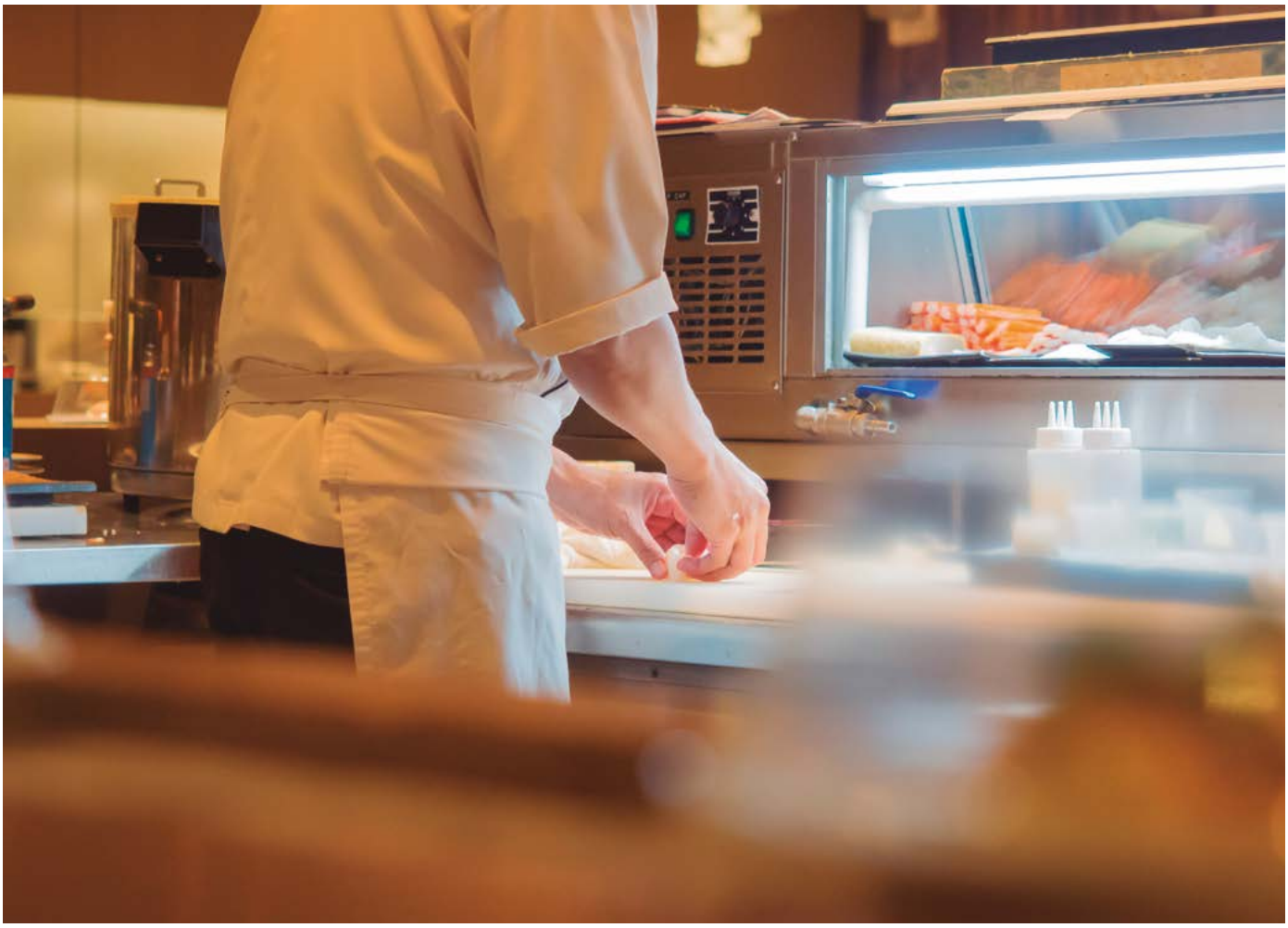
- Set-points at medium or low temperature available depending on applications
- Compact unit
- Silent operation
- Long piping length: maximum 100 m*
- High external static pressure
- Transfer pressure control for stable EEV expansion valve control in showcases*

*For models 400VF8/A, 1000VF8A, 1001VF8A and 2000VF8A.

Technology by Panasonic

Reliability is our main target.

We ensure excellent quality control established by skilled factory team.



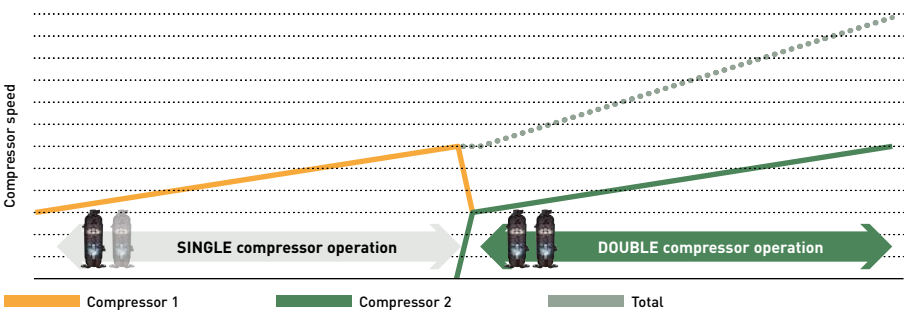
iCO2RE OCU-CR CO_2 Series 20 HP MT/LT model.

The iCO2RE OCU-CR CO_2 Series now includes 20 HP MT/LT model, a highly efficient multi compressor solution.

· Multi-compressor systems
· Smaller footprint
· Maximum piping length of 100 m
· Cooling capacity can be controlled from 25 to 100% under partial load
· Flexible and precise control capabilities with digital input/output

Energy efficient multi compressors operation.
By distributing the workload between two compressors, the system operates efficiently, adjusting capacity to match the varying cooling demands. Compressors 1 and 2 alternate every 10 days to ensure even load distribution.

Example of compressor operation.



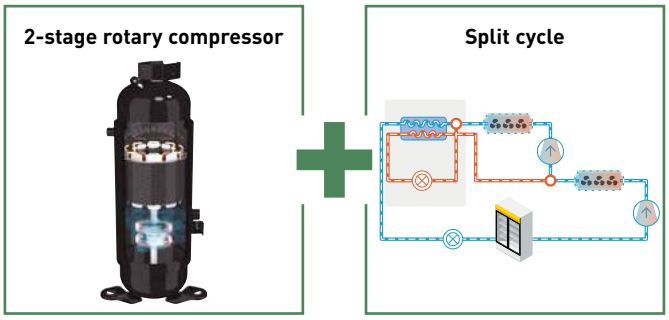
OCU-CR2000VF8A

Panasonic's combined technology of the 2-stage compressor with the split cycle.

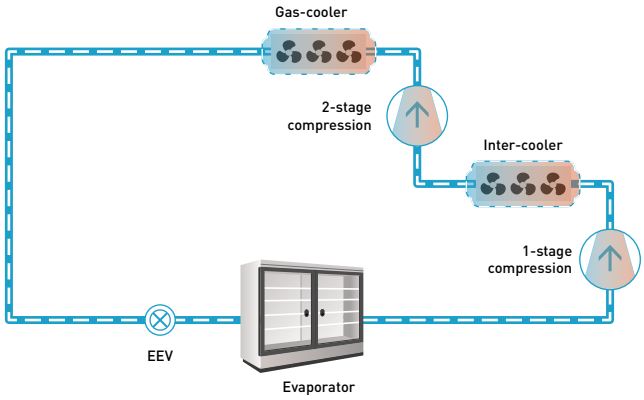
- Panasonic 2-stage rotary compressor delivering powerful performance for more than 20 years
- Split cycle* enhances cooling effect

*Available for 200VF5A, 400VF8A, 1000VF8A and 2000VF8A models.
**In the case that the standard cycle with 1-stage rotary compressor was compared.

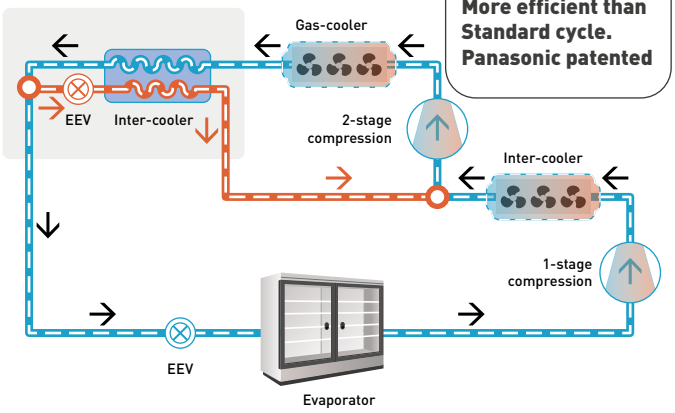
Watch the highlighted technology video.



Standard cycle.



Split cycle.



Up to 50% More efficient than Standard cycle. Panasonic patented**

Reliable CO_2 technology by Panasonic.

15 years CO_2

- Reliable quality: 15 years of CO_2 cold chain production in Japan
- 26500 units sold and installed in more than 6500 retail operations such as convenience stores and supermarkets in Japan*
- Excellent quality control established by skilled factory team
- Panasonic offers 5 year warranties on compressors and 2 years on components
- The 5 year compressor warranty matches the products long lifespan

*As of the end of August 2025.

Control and connectivity

Panasonic CO_2 condensing units - iCO2RE OCU-CR CO_2 Series is optimized with Panel-C intelligent controller and a service checker for professionals.

It can be easily integrated with major monitoring systems.

Modbus compatibility with monitoring system.

Panasonic CO_2 condensing units - iCO2RE OCU-CR CO_2 Series can be supervised by major monitoring system such as CAREL, Eliwell, COPELAND, Danfoss, RDM and Pego. Monitoring system ensures the recording, monitoring and reporting of temperature conditions etc... of entire CO_2 condensing units - iCO2RE OCU-CR CO_2 Series system at shops.

Monitoring system					
CAREL	Danfoss	eliwell by Schneider Electric	Copeland Controls Xweb	Resource Data Management	Pego
Standard boss & boss-mini	AK-SM Series*	TelevisGo	Xweb	DMTOUCH	TeleNET

*M2M1-10 gateway (Model code: FDS021) is required in addition to the monitoring system. M2M1-10 gateway is a field supply.
X-Gate (Model code : 080G0345 + AK-PS 063 0800Z0057) is required in addition to the Danfoss monitoring system AK-SM 800A. X-Gate gateway is a field supply.

Control panel and EEV expansion valves.

Panel-C, an intelligent controller with a compact chassis. This controller has the smart program especially for showcases and cold rooms. EEV expansion valves are ready with 8 different sizes to meet precisely the field demand and it's delivered with Panel-C as a kit.

Intelligent controller with compact chassis. Panel-C.
- MPXPRO control fully pre-programmed for MT and LT on the same panel
- Compact structure size: 300 x 220 x 120 mm
- Necessary cables, EEV stator, temperature and pressure probes as standard equipment
- Ultracap technology as standard equipment for emergency EEV's closing in the event of mains power failure
- Smart defrost functions, advanced superheat control, light and showcase curtain management, etc
- Own display user terminal plus keypad for programming, built-in switching power supply, Modbus, etc
- Management of HACCP alarms

EEV expansion valves line-up.
- EEV´s E2V-CW with 3/8" ODF copper fittings for high pressure applications (CO_2)
- Operation refrigerant temperature: -40 T 70 °C
- Maximum operating pressure for all the models 03, 05, 09, 11, 14, 18, 24 and 30 (MOP) 140 bar
- Maximum operating pressure difference for 03, 05, 09, 11, 14, 18, (MOPD) 120 bar, 24 (MOPD) 85 bar, and 30 (MOPD) 90 bar
- Bipolar stator hermetic IP69K as standard equipment (supplied on panel)
- Mechanical strainer as standard equipment (500 mm mesh)
- Equipercentile control particularly effective at partial load with reliable operation even after 1,2 billion steps

*Please refer the model references in page 620.

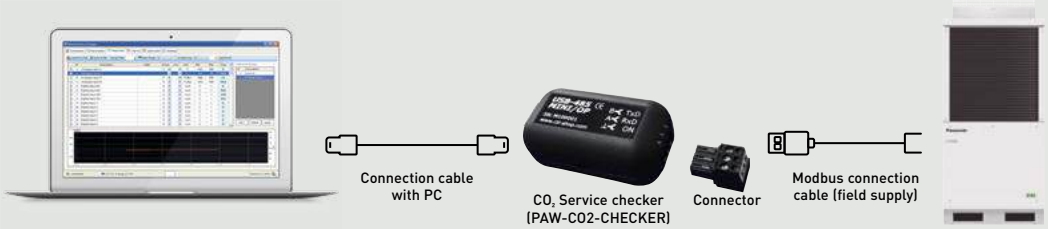
CO_2 service checker.

PAW-CO2-CHECKER
The service checker is a useful tool which supports your technical tasks on the field such as commissioning, maintenance and troubleshooting for Panasonic CO_2 condensing units - iCO2RE OCU-CR CO_2 Series.

Main features:
- Reading and recording variable technical parameters
- Main technical parameters available*: pressures, temperatures, opening of expansion valves, states of solenoid valves, rotational speeds of the gas-cooler fan motor, frequency and compressor's current, etc.
- Setting change of operating values possible
- 2D graph visualization for the detailed analysis
- Monitoring an alarm status, for example the status of the compressor oil level, etc.

*Please check all the parameters available in the manual.

To use it, is necessary to download free Device Manager software from the Eliwell website:
Visit: https://www.eliwell.com/en/Family/DeviceManager.html using this QR.
Eliwell product name: Device Manager 100. Eliwell part number: DMP1000002000.



iCO2RE OCU-CR CO_2 Series · R744

Specifications and capacity tables.

R744

MODEL		OCU-CR	200VF5A	400VF8	400VF8A	1000VF8	1000VF8A*	1001VF8A**	2000VF8A
Compressor			**Single compressor**	**Single compressor**	**Single compressor**	**Single compressor**	**Single compressor**	**Single compressor**	**Tandem compressor**
Refrigerants			**R744**	**R744**	**R744**	**R744**	**R744**	**R744**	**R744**
PED category			**I**	**II**	**II**	**II**	**II**	**II**	**II**
Application			**MT / LT**	**MT**	**MT / LT**	**MT**	**MT / LT**	**MT / LT**	**MT / LT**
Power supply	Voltage	V	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Phase		Single phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity at ET -35 °C AT 32 °C	Min ~ Max	kW	1,1 - 1,9	—	1,9 - 3,8	—	3,8 - 7,6	3,3 - 8,6	3,8 - 14,6
Cooling capacity at ET -10 °C AT 32 °C	Min ~ Max	kW	2,1 - 3,7	3,4 - 6,9	3,8 - 7,5	6,8 - 13,5	7,5 - 14,9	6,2 - 16,0	7,5 - 28,7
SEPR freezing at ET -35 °C AT 32 °C			**1,92**	**—**	**1,73**	**—**	**1,49**	**1,67**	**1,64**
SEPR cooling at ET -10 °C AT 32 °C			**3,83**	**3,17**	**3,20**	**2,62**	**2,86**	**3,00**	**3,10**
Annual electricity consumption at ET -35 °C AT 32 °C		**kWh/a**	**8021**	**—**	**16255**	**—**	**39985**	**38392**	**66760**
Annual electricity consumption at ET -10 °C AT 32 °C		**kWh/a**	**6797**	**13384**	**14488**	**32815**	**32409**	**32822**	**57076**
Evaporator connection			Multiple	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple
Evaporation temperature	Min ~ Max	°C	-45 ~ -5	-20 ~ -5	-45 ~ -5	-20 ~ -5	-45 ~ -5	-45 ~ -5	-45 ~ -5
Ambient temperature	Min ~ Max	°C	-20 ~ +43	-20 ~ +45	-20 ~ +45	-20 ~ +43	-20 ~ +43	-20 ~ +45	-20 ~ +45
PS line	Suction	bar	80	80	80	80	80	80	80
	Liquid	bar	120	80	80	80	80	80	80
User system external alarm. Non-voltage contact			Yes	Yes	Yes	Yes	Yes	Yes	Yes
Liquid tube electromagnetic valve output		Vac	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	—	—
Showcase operation ON / OFF signal. Digital input. Non-voltage contact			Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modbus communication line (RS485)		Ports	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Compressor type			2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary
Dimension	W x H x D	mm	900 x 930 x 437	1143 x 948 x 609	1143 x 948 x 609	890 x 1941 x 890	890 x 1941 x 890	890 x 1941 x 890	1190 x 1941 x 890
Weight		Kg	70	136	149	293	320	315	494
Connections [1]	Suction	Inch (mm)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	3/4 (19,05)	3/4 (19,05)	3/4 (19,05)	7/8 (22,22)
	Liquid	Inch (mm)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)
Maximum recommended pipe distance		m	25	50 [2]	50 [2]	100 [2]	100 [2]	100 [2]	100 [2]
Air flow		m³/min	54	59	59	220	220	220	220
External static pressure		Pa	17	50	50	58	58	58	58
Performance - additional data	Ambient temperature	°C	32	32	32	32	32	32	32
	Evaporating temperature	°C	-10 -35	-10	-10 -35	-10	-10 -35	-10 -35	-10 -35
	Nominal load ampere	A	7,94 7,26	6,14	7,2 6,2	12,6	12,6 11,6	13,9 TBC	24,31 20,49
	Sound level [3]	dB(A)	35,5	33,0	36,1	36,0 [4]	36,0 [4]	39,5 (36,5 [4])	42,0 (39,0 [4])

1) These diameters correspond to the output of the unit. The required diameter must be calculated with Refrigeration designer available on PRO Club. 2) PZ-68S (refrigeration oil) must be added according to Refrigeration designer available on PRO Club. 3) ET -10 °C, at maximum speed, 10 m from product. 4) Performance in a silent mode. *CR1000VF8A: subject to availability. **Available in Summer 2026.

CHECK PAGES 620 - 623 FOR A WIDER SELECTION OF ACCESSORIES

CO_2 R744 · INVERTER+ · HIGH EFFICIENCY COMPRESSOR · SUPER QUIET · 45 °C AMBIENT TEMPERATURE* · ANTI CORROSION COATING · HEAT RECOVERY PORT · AUTOMATIC FAN · 5 YEARS COMPRESSOR WARRANTY · BMS CONNECTIVITY

*45 °C AMBIENT TEMPERATURE: For OCU-CR400VF8/A, OCU-CR1001VF8A and OCU-CR2000VF8A.

R744

MT/LT	Cooling capacity at							R744			
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR200VF5A	AT	32 °C	Min - Max	kW	0,7 - 1,2	1,1 - 1,9	1,3 - 2,3	1,5 - 2,6	1,9 - 3,3	2,1 - 3,7	2,3 - 4,0
		38 °C	Min - Max	kW	0,6 - 1,1	1,0 - 1,8	1,2 - 2,1	1,4 - 2,5	1,8 - 3,1	2,0 - 3,5	2,2 - 3,8
		43 °C	Min - Max	kW	0,6 - 1,0	0,9 - 1,6	1,1 - 2,0	1,3 - 2,3	1,6 - 2,9	1,8 - 3,2	2,0 - 3,5

MT	Cooling capacity at							R744			
	ET				—	—	—	—	-15 °C	-10 °C	-5 °C
OCU-CR400VF8	AT	32 °C	Min - Max	kW	—	—	—	—	2,9 - 5,9	3,4 - 6,9	3,7 - 7,4
		38 °C	Min - Max	kW	—	—	—	—	2,7 - 5,3	3,1 - 6,2	3,3 - 6,7
		43 °C	Min - Max	kW	—	—	—	—	2,3 - 4,6	2,7 - 5,4	2,9 - 5,8

MT/LT	Cooling capacity at							R744			
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR400VF8A	AT	32 °C	Min - Max	kW	1,7 - 3,3	1,9 - 3,8	2,2 - 4,4	2,6 - 5,1	3,4 - 6,7	3,8 - 7,5	4,1 - 7,4
		38 °C	Min - Max	kW	1,5 - 3,1	1,7 - 3,5	2,0 - 4,0	2,3 - 4,7	3,1 - 6,2	3,5 - 6,1	3,8 - 5,6
		43 °C	Min - Max	kW	1,4 - 2,7	1,5 - 3,1	1,8 - 3,6	2,1 - 4,2	2,8 - 5,0	3,2 - 4,7	3,4 - 4,2

MT	Cooling capacity at							R744			
	ET				—	—	—	—	-15 °C	-10 °C	-5 °C
OCU-CR1000VF8	AT	32 °C	Min - Max	kW	—	—	—	—	5,8 - 11,6	6,8 - 13,5	7,4 - 14,8
		38 °C	Min - Max	kW	—	—	—	—	4,9 - 9,9	5,8 - 11,6	6,4 - 12,8
		43 °C	Min - Max	kW	—	—	—	—	3,6 - 7,3	4,4 - 8,8	4,9 - 9,7

MT/LT	Cooling capacity at							R744			
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR1000VF8A	AT	32 °C	Min - Max	kW	2,6 - 5,1	3,8 - 7,6	4,5 - 9,1	5,3 - 10,5	6,7 - 13,5	7,5 - 14,9	8,1 - 16,2
		38 °C	Min - Max	kW	2,3 - 4,7	3,5 - 7,1	4,2 - 8,4	4,9 - 9,8	6,3 - 12,7	7,0 - 14,0	7,6 - 15,3
		43 °C	Min - Max	kW	2,0 - 4,0	3,1 - 6,2	3,8 - 7,5	4,4 - 8,8	5,8 - 11,5	6,4 - 12,8	7,0 - 14,0

MT/LT	Cooling capacity at							R744			
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR1001VF8A	AT	32 °C	Min - Max	kW	TBC	3,3-8,6	TBC	TBC	TBC	6,2-16,0	TBC
		38 °C	Min - Max	kW	TBC	TBC	TBC	TBC	TBC	TBC	TBC
		43 °C	Min - Max	kW	TBC	3,0-7,7	TBC	TBC	TBC	4,7-12,2	TBC

Tentative data

MT/LT	Cooling capacity at							R744			
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR2000VF8A	AT	32 °C	Min - Max	kW	2,6 - 9,7	3,8 - 14,6	4,6 - 17,4	5,3 - 20,2	6,8 - 25,9	7,5 - 28,7	8,2 - 31,3
		38 °C	Min - Max	kW	2,4 - 9,2	3,6 - 13,9	4,3 - 16,4	5,0 - 19,1	6,4 - 24,6	7,1 - 27,1	7,8 - 29,6
		43 °C	Min - Max	kW	2,3 - 8,6	3,4 - 12,9	4,0 - 15,4	4,7 - 18,0	6,1 - 23,1	6,7 - 25,6	7,3 - 27,9

REF PRO DESIGNER.

Think beyond unit selection.

An advanced design tool that supports engineers, installers, and technicians in designing advanced systems for commercial refrigeration installations: http://www.panasonicproclub.com

iCO2RE OCU/SCU-CRC Custom-fit CO_2 Series

MADE IN EUROPE

Complement of the Panasonic's existing R744 units offering maintenance friendly solutions and customisation features.

MT/LT type:
OCU-CRC060A08

6,0 kW (MT).
3,0 kW (LT).

MT/LT type:
OCU-CRC150A08

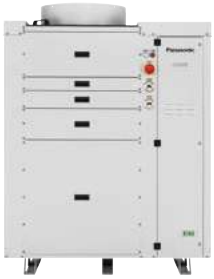
15,2 kW (MT).
7,3 kW (LT).

MT type:
OCU-CRC210M08

20,6 kW (MT).

MT/LT type:
SCU-CRC150A08

15,2 kW (MT).
7,3 kW (LT).



SMART INTERFACE (LOCAL WIRELESS ACCESS)

SERVICE DOOR + PANEL WITH SERVICE VALVE CONNECTIONS

QUICK-CHANGE COMPRESSOR SKID. BASED ON PLATE AND ELASTIC HOSES CONNECTIONS, DECREASING THE VIBRATIONS AND NOISE

FRONT WALL INTEGRATED MANOMETERS

Refrigeration factory in Europe.

Wrocław, Poland.

Equipped with a dedicated in-house R&D team focused on advancing refrigeration technologies, the site will also house its training hub and a state-of-the-art refrigeration laboratory. With local production and a streamlined supply chain, ensuring shorter delivery times across Europe—helping you get the solutions you need, faster.

iCO2RE OCU/SCU-CRC Custom-fit CO_2 Series · R744

Specifications and capacity tables.

R744

MODEL			OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08
Compressor			**Single compressor**	**Single compressor**	**Single compressor**	**Single compressor**
Refrigerants			**R744**	**R744**	**R744**	**R744**
PED category			**II**	**II**	**III**	**II**
Application			**MT / LT**	**MT / LT**	**MT**	**MT / LT**
Power supply	Voltage	V	380 - 420	380 - 420	380 - 420	380 - 420
	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Cooling capacity at ET -35 °C AT 32 °C	Min ~ Max	kW	1,2 - 3,0	3,0 - 7,3	—	3,0 - 7,3
Cooling capacity at ET -10 °C AT 32 °C	Min ~ Max	kW	2,7 - 6,0	6,8 - 15,2	6,0 - 20,6	6,8 - 15,2
SEPR freezing at ET -35 °C AT 32 °C			**—**	**1,64**	**—**	**1,64**
SEPR cooling at ET -10 °C AT 32 °C			**2,78**	**3,07**	**3,00**	**3,07**
Annual electricity consumption at ET -35 °C AT 32 °C		**kWh/a**	**17883**	**33650**	**—**	**33650**
Annual electricity consumption at ET -10 °C AT 32 °C		**kWh/a**	**13371**	**30019**	**42050**	**30019**
Evaporator connection			Multiple	Multiple	Multiple	Multiple
Evaporation temperature	Min ~ Max	°C	-35 ~ -5	-35 ~ 0	-20 ~ -5	-35 ~ 0
Ambient temperature	Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43
PS line	Suction	bar	80	80	80	80
	Liquid	bar	80	80	90	80
User system external alarm. Non-voltage contact			Yes	Yes	Yes	Yes
Liquid tube electromagnetic valve output		Vac	—	—	—	—
Showcase operation ON / OFF signal. Digital output. Non-voltage contact			Yes	Yes	Yes	Yes
Modbus communication line (RS485)		Ports	Yes	Yes	Yes	Yes
Compressor type			2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary
Dimensions	W x H x D	mm	1426 x 1100 x 541	1426 x 1516 x 541	1600 x 1600 x 908	1326 x 1724 x 790
Weight		kg	200	290	390	300
Connections	Suction	Inch (mm)	3/8 (9,52)	1/2 (12,70)	5/8 (15,88)	1/2 (12,70)
	Liquid	Inch (mm)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)
Maximum recommended pipe distance		m	40	80	80	80
Air flow		m³/h	1x5700	2x4600	2x7500	1x8200
External static pressure		Pa	120 [1]	N/A	N/A	120
Performance - additional data	Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz	A	9,4	18,3	26,9	20,6
	Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A	11,2	23,4	30,1	26,0
	Sound level at 10 m	dB(A)	41,5	40,4	52,6	55,0

1) Value of the static pressure for the model with "P" high-pressure fan customisation option (OCU-CRC060A08-P)

MT/LT	Cooling capacity at				R744					
	ET				-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CRC060A08	AT	32 °C	Min - Max	kW	1,2 - 3,0	1,4 - 3,5	1,7 - 4,0	2,3 - 5,3	2,7 - 6,0	3,0 - 6,7
		38 °C	Min - Max	kW	1,0 - 2,8	1,2 - 3,2	1,5 - 3,8	2,0 - 4,9	2,3 - 5,5	2,6 - 6,0
		43 °C	Min - Max	kW	0,9 - 2,4	1,1 - 2,9	1,3 - 3,4	1,8 - 4,4	2,0 - 4,8	2,3 - 5,3

MT/LT	Cooling capacity at				R744					
	ET				-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CRC150A08	AT	32 °C	Min - Max	kW	3,0 - 7,3	3,7 - 8,7	4,3 - 10,2	5,9 - 13,5	6,8 - 15,2	7,7 - 16,8
		38 °C	Min - Max	kW	2,9 - 7,0	3,3 - 8,3	3,9 - 9,6	5,2 - 12,6	6,0 - 14,0	6,8 - 15,4
		43 °C	Min - Max	kW	— - —	3,3 - 7,8	3,8 - 9,0	4,8 - 11,5	5,5 - 12,8	6,2 - 13,9

MT	Cooling capacity at				R744					
	ET				—	—	—	-15 °C	-10 °C	-5 °C
OCU-CRC210M08	AT	32 °C	Min - Max	kW	—	—	—	5,1 - 18,6	6,0 - 20,6	6,9 - 22,8
		38 °C	Min - Max	kW	—	—	—	4,7 - 17,2	5,4 - 18,6	5,8 - 19,7
		43 °C	Min - Max	kW	—	—	—	3,2 - 15,5	3,5 - 15,9	3,3 - 15,8

MT/LT	Cooling capacity at				R744					
	ET				-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
SCU-CRC150A08	AT	32 °C	Min - Max	kW	3,0 - 7,3	3,7 - 8,7	4,3 - 10,2	5,9 - 13,5	6,8 - 15,2	7,7 - 16,8
		38 °C	Min - Max	kW	2,9 - 7,0	3,3 - 8,3	3,9 - 9,6	5,2 - 12,6	6,0 - 14,0	6,8 - 15,4
		43 °C	Min - Max	kW	— - —	3,3 - 7,8	3,8 - 9,0	4,8 - 11,5	5,5 - 12,8	6,2 - 13,9

CHECK PAGES 620 - 623 FOR A WIDER SELECTION OF ACCESSORIES

CO_2 R744 | INVERTER+ | HIGH EFFICIENCY COMPRESSOR | SUPER QUIET | 43 °C AMBIENT TEMPERATURE | CUSTOMIZATION OPTIONS | BMS CONNECTIVITY

NEW! iCO2RE NCU CO_2 Series · R744

Specifications and capacity tables.

Non-housing compact units for small MT/LT commercial applications.
Cost-effective solution with natural refrigerant. Indoor and outdoor installation.

NEW

Ultra compact CO_2 solution

R744

MODEL			NCU-CTC018M05*	NCU-CTC009L05*
Compressor			**2-stage compressor**	**2-stage compressor**
Refrigerants			**R744**	**R744**
PED category			**I**	**I**
Application			**MT**	**LT**
Power supply	Voltage	V	230 / PE+N (TN-S)	230 / PE+N (TN-S)
	Phase		1	1
	Frequency	Hz	50	50
Evaporation temperature	Min ~ Max	°C	-20 ~ 0	-35 ~ -20
Ambient temperature	Min ~ Max	°C	-20 ~ +43	-20 ~ +43
PS line	Suction	bar	80	80
	Liquid	bar	130	130
Dimensions	W x H x D	mm	750 x 590 x 285	750 x 590 x 285
Weight		kg	45	45
Connections	Suction	Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)
Maximum recommended pipe distance		m	15	15

*Tentative model name. Panasonic reserves right to change it. Available in Autumn 2026

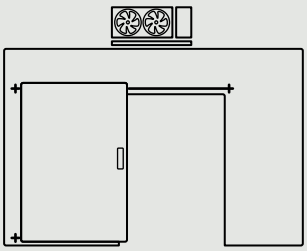
Tentative data

MT	Cooling capacity at				R744					
	ET				—	—	—	-15 °C	-10 °C	-5 °C
NCU-CTC018M05	AT	32 °C	Min - Max	kW	—	—	—	1,38	1,78	2,02
		38 °C	Min - Max	kW	—	—	—	1,28	1,48	1,78
		43 °C	Min - Max	kW	—	—	—	1,20	1,38	1,46

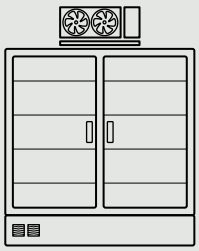
Tentative data

LT	Cooling capacity at				R744					
	ET				-35 °C	-30 °C	-25 °C	—	—	—
NCU-CTC009L05	AT	32 °C	Min - Max	kW	0,71	0,88	1,04	—	—	—
		38 °C	Min - Max	kW	0,65	0,85	0,99	—	—	—
		43 °C	Min - Max	kW	0,49	0,78	0,93	—	—	—

Applications: Small cold rooms / cooling equipment.



Cold rooms.
Conventional usage of condensing units.



Cooling equipment.
Integrated into cooling equipment, cabinets, blast chillers, etc.

EFFICIENT COMPRESSOR BY PANASONIC

AFFORDABLE CO_2 SOLUTION

MINIMAL FOOTPRINT

CHECK PAGES 620 - 623 FOR A WIDER SELECTION OF ACCESSORIES

CO_2 R744 | HIGH EFFICIENCY COMPRESSOR | 43 °C AMBIENT TEMPERATURE

Customisation options for iCO2RE CO_2 range

The series offers customisable models that meet customer requirements.

Customisation options for iCO2RE OCU/SCU-CRC Custom-fit CO_2 Series.

- Factory pre-assembled options (customisation options), tested and ready-to-use options list – cutting installation time and reducing labour costs
- Up to 3 customisation options selectable*
- The final model name is composed with the customisation selections

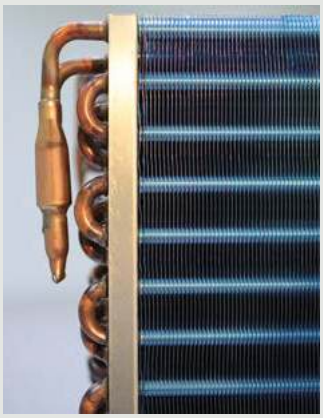
*Available configurations vary by series.

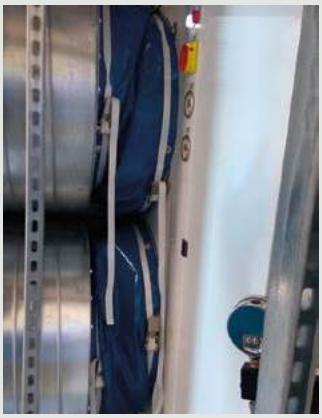
COATING*

HEAT RECOVERY – DIRECT CONNECTIONS

HIGH PRESSURE FAN

PRESSURE RELIEF VALVE (PRV) SUCTION





*Blygold gas-cooler coating.

iCO2RE OCU/SCU-CRC Custom-fit CO_2 Series – CO_2 condensing units

Series	Application	Base model	Customisation options				Model
			Coating (C)	Heat recovery (D)	HP Fan (P)	Suction PRV (S)	
OCU-CRC	MT/LT	OCU-CRC060A08	Base model. No options chosen.				OCU-CRC060A08
			✔	Not available	—	—	OCU-CRC060A08-C
			—		✔	—	OCU-CRC060A08-P
			✔		✔	—	OCU-CRC060A08-CP
		OCU-CRC150A08	Base model. No options chosen.				OCU-CRC150A08
			✔	—	Not available	—	OCU-CRC150A08-C
			—	✔		—	OCU-CRC150A08-D
			—	—		✔	OCU-CRC150A08-S
			✔	✔		—	OCU-CRC150A08-CD
			✔	—		✔	OCU-CRC150A08-CS
	MT	OCU-CRC210M08	Base model. No options chosen.				OCU-CRC210M08
			✔	Not available	Not available	Not available	OCU-CRC210M08-C
SCU-CRC	MT/LT	SCU-CRC150A08	Base model. No options chosen.				SCU-CRC150A08
			✔	—	Standard	Not available	SCU-CRC150A08-C

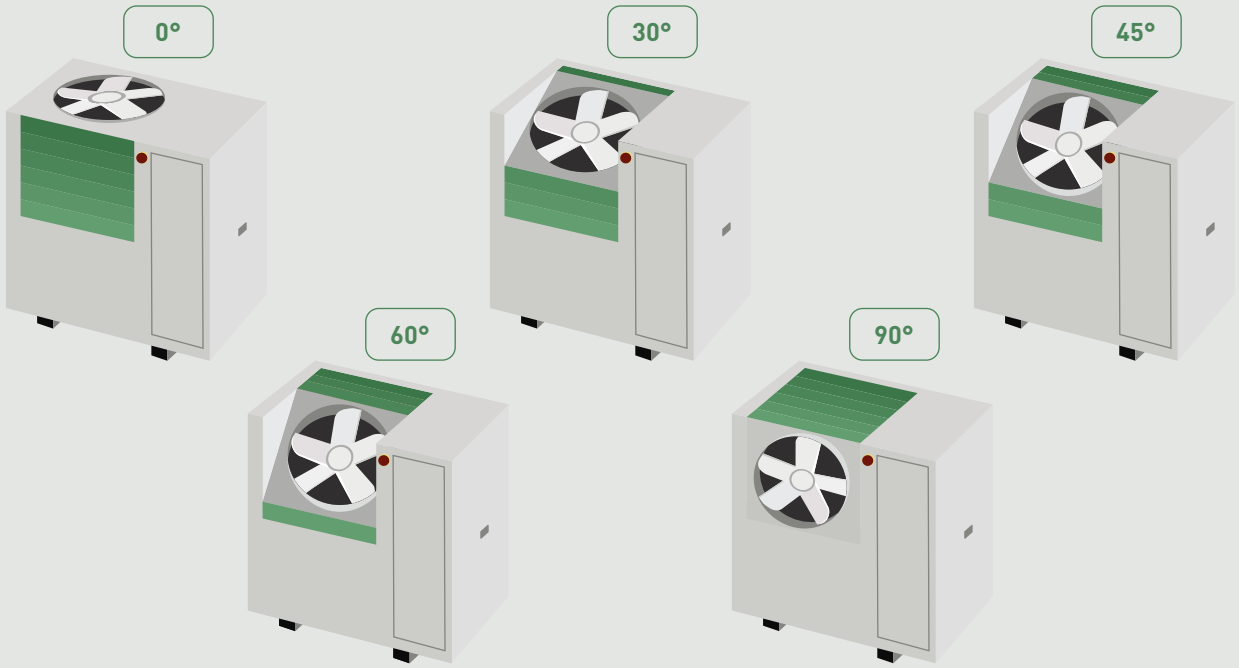
For customisation options for iCO2RE NCU-CTC CO_2 Series, please contact an authorised Panasonic dealer.

High pressure fan ready solution for iCO2RE SCU-CRC Custom-fit CO_2 Series.

SCU-CRC150A08 model with high pressure fan for indoor mounting.

A Plug & Play solution designed specifically for indoor installations. This compact unit helps minimise installation time and reduce overall costs compared to central systems with remote condensers.
The high pressure fan feature for indoor mounting (factory-assembled customised option: stronger fan + special flange to connect the air duct to take out the hot air outside the building) is available when ordering a basic model, which was designed for indoor mounting from the very beginning.

Special high pressure fan with 0-90° adjustable angle flange. Choose the most convenient way to connect your exhaust duct on field.



REF PRO DESIGNER.

Think beyond unit selection.

An advanced design tool that supports engineers, installers, and technicians in designing advanced systems for commercial refrigeration installations: http://www.panasonicproclub.com

Accessories and control – iCO2RE CO_2 range

Control panels and EEV expansion valves

Control panel (Panel-C) with EEV expansion valve included.
Panel-C includes MPXPRO control, stator, probes, etc.

EEV size E2V03CWAC0.	EEV size E2V05CWAC0.	EEV size E2V09CWAC0.	EEV size E2V11CWAC0.	EEV size E2V14CWAC0.	EEV size E2V18CWAC0.	EEV size E2V24CWAC0.	EEV size E3V30CWM00.
KIT-CO2-PANEL-C-03	KIT-CO2-PANEL-C-05	KIT-CO2-PANEL-C-09	KIT-CO2-PANEL-C-11	KIT-CO2-PANEL-C-14	KIT-CO2-PANEL-C-18	KIT-CO2-PANEL-C-24	KIT-CO2-PANEL-C-30

Cold room management via condensing unit interface - Options 1-2-3 + Cold room display - For OCU/SCU-CRC units

Option 1

Room board for EEV control connection box*.

*Room board for 1×EEV control allows to connect Carel, Danfoss and Saginomiya EEV. Sensors and EEV valve not included.

CZ-CO2-EEV-BOX

Option 2

Room board for EEV control connection kit*.

*Room board for 1×EEV control allows to connect Carel, Danfoss and Saginomiya EEV. KIT includes sensors. EEV valve not included.

CZ-CO2-EEV-KIT

Option 3

Room board for EEV control connection kit, with sensors and EEV.

EEV size E2V03CWAC0.	EEV size E2V05CWAC0.	EEV size E2V09CWAC0.	EEV size E2V11CWAC0.	EEV size E2V14CWAC0.	EEV size E2V18CWAC0.	EEV size E2V24CWAC0.	EEV size E3V30CWM00.
CZ-CO2-EEV-KIT-03	CZ-CO2-EEV-KIT-05	CZ-CO2-EEV-KIT-09	CZ-CO2-EEV-KIT-11	CZ-CO2-EEV-KIT-14	CZ-CO2-EEV-KIT-18	CZ-CO2-EEV-KIT-24	CZ-CO2-EEV-KIT-30

Cold room display

Wall-mounted LED display. To be combined with options 1-2-3.

CZ-CO2-DISPLAY

CO_2 service checker - For OCU-CR units

CO_2 service checker for commissioning, maintenance and troubleshooting.

PAW-CO2-CHECKER

External CO_2 receivers - For OCU/SCU-CRC units

External CO_2 receiver, 24 L 80 bar, Housed (up to 8 kg additional refrigerant volume). Delivered with proper insulation.

CZ-CO2-R24L80-H

External CO_2 receiver, 24 L 90 bar, Housed (up to 8 kg additional refrigerant volume). Delivered with proper insulation.

CZ-CO2-R24L90-H

External CO_2 receiver, 24 L 80 bar, non-housed (up to 8 kg additional refrigerant volume). Delivered with proper insulation.

CZ-CO2-R24L80-E

External CO_2 receiver, 24 L 90 bar, non-housed (up to 8 kg additional refrigerant volume). Delivered with proper insulation.

CZ-CO2-R24L90-E

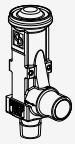
Other accessories

Service adaptor for vacuum and service (HP and LP port).

SPK-TU125

Lubrication oil PZ-68S (0,5L).

CZ-CO2LBROL500



Pressure release valve (PRV) ⅜" (9,52) NPT x G ½" (12,70) Pset= 60,0 bar.

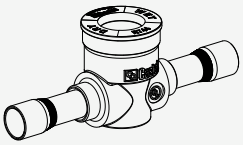
PAW-CO2-PRV60

Pressure release valve (PRV) ⅜" (9,52) NPT x G ½" (12,70) Pset= 80,0 bar.

PAW-CO2-PRV80

Pressure release valve (PRV) ⅜" (9,52) NPT x G ½" (12,70) Pset= 120,0 bar.

PAW-CO2-PRV120



Sight glass, 130 bar, ¼" (6,35) ODS.

PAW-SGT-GLASS-1/4

Sight glass, 130 bar, ⅜" (9,52) ODS.

PAW-SGT-GLASS-3/8

Sight glass, 130 bar, ½" (12,70) ODS.

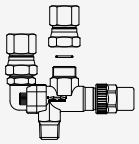
PAW-SGT-GLASS-1/2

Sight glass, 130 bar, ⅝" (15,88) - 16 mm ODS.

PAW-SGT-GLASS-5/8

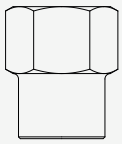
Sight glass, 130 bar, ¾" (19,05) ODS.

PAW-SGT-GLASS-3/4



Changeover valve, ⅜" (9,52) NPT x ⅜" (9,52) NPT.

PAW-CO2-CHANGE-O



Racord ⅜" (9,52) NPT x ⅜" (9,52) ODS (for K65 pipe connection).

PAW-CO2-RACORD-3/8

Racord ⅜" (9,52) NPT x ½" (12,70) ODS (for K65 pipe connection).

PAW-CO2-RACORD-1/2

Racord ⅜" (9,52) NPT x ⅝" (15,88) ODS (for K65 pipe connection).

PAW-CO2-RACORD-5/8

Racord, ⅜" (9,52) NPT x ¾" (19,05) ODS (for K65 pipe connection).

PAW-CO2-RACORD-3/4

Spare parts for service and maintenance

S-006T suction filter, ¾" (19,05) (outer Ø welding)*.

*Sample image – actual product appearance may vary.

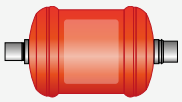
80203514142000

S-008T1 suction filter, ¾" (19,05) (outer Ø welding).

80203514139000 (1)

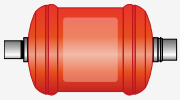
D-155T filter dryer, ⅝" (15,88) (in Ø welding) (type CO-085-S).

80203513180000 (2)



DCY-P8 165 S filter dryer, ⅝" (16,10) (in Ø welding).

80203513187000 (3)

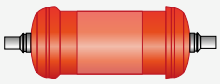


DCY-P8 306 S filter dryer, ¾" (19,05) (outer Ø welding).

80203513188000

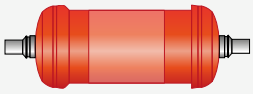
D-152T filter dryer, ¼" (6,35) (in Ø welding) (type CO-082-S).

80203513179000 (4)



DCY-P8 093S filter dryer, ⅜" (9,60) (in Ø welding).

80203513190000



DCY-P12 092 S filter dryer, ¼" (6,40) (in Ø welding).

80203513186000 (5)

CHECK THE COMPATIBILITY IN ACCESSORIES COMPATIBILITY – ICO2RE CO_2 RANGE TABLE

Accessories compatibility – iCO2RE CO_2 range

Accessories (can be ordered separately)														
Series		OCU-CR							OCU-CRC			SCU-CRC	NCU	
Model		OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR1001VF8A	OCU-CR2000VF8A	OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08	NCU-CTC018M05	NCU-CTC009L05
Compatibility: • Optional accessory / •• Mandatory accessory / ••• One pc. always included as standard with the unit.														
Control panels and EEV expansion valves kit														
Panel-C + MPXPRO, stator, probes, etc + EEV E2V03CWAC0.	**KIT-CO2-PANEL-C-03**	•	•	•	•	•	•	•	•	•	•	•	•	•
Panel-C + MPXPRO, stator, probes, etc + EEV E2V05CWAC0.	**KIT-CO2-PANEL-C-05**	•	•	•	•	•	•	•	•	•	•	•	•	
Panel-C + MPXPRO, stator, probes, etc + EEV E2V09CWAC0.	**KIT-CO2-PANEL-C-09**	•	•	•	•	•	•	•	•	•	•	•		
Panel-C + MPXPRO, stator, probes, etc + EEV E2V11CWAC0.	**KIT-CO2-PANEL-C-11**	•	•	•	•	•	•	•	•	•	•	•		
Panel-C + MPXPRO, stator, probes, etc + EEV E2V14CWAC0.	**KIT-CO2-PANEL-C-14**	•	•	•	•	•	•	•	•	•	•	•		
Panel-C + MPXPRO, stator, probes, etc + EEV E2V18CWAC0.	**KIT-CO2-PANEL-C-18**	•	•	•	•	•	•	•	•	•	•	•		
Panel-C + MPXPRO, stator, probes, etc + EEV E2V24CWAC0.	**KIT-CO2-PANEL-C-24**	•	•	•	•	•	•	•	•	•	•	•		
Panel-C + MPXPRO, stator, probes, etc + EEV E3V30CWM00.	**KIT-CO2-PANEL-C-30**	•	•	•	•	•	•	•	•	•	•	•		
Cold room management via condensing unit interface - Options 1-2-3 + Cold room display														
Option 1														
Room board for EEV control connection box.	**CZ-CO2-EEV-BOX**								•	•	•	•		
Option 2														
Room board for EEV control connection kit.	**CZ-CO2-EEV-KIT**								•	•	•	•		
Option 3														
Room board for EEV control connection kit, with sensors and EEV, E2V03CWAC0.	**CZ-CO2-EEV-KIT-03**								•	•	•	•		
Room board for EEV control connection kit, with sensors and EEV, E2V05CWAC0.	**CZ-CO2-EEV-KIT-05**								•	•	•	•		
Room board for EEV control connection kit, with sensors and EEV, E2V09CWAC0.	**CZ-CO2-EEV-KIT-09**								•	•	•	•		
Room board for EEV control connection kit, with sensors and EEV, E2V11CWAC0.	**CZ-CO2-EEV-KIT-11**								•	•	•	•		
Room board for EEV control connection kit, with sensors and EEV, E2V14CWAC0.	**CZ-CO2-EEV-KIT-14**								•	•	•	•		
Room board for EEV control connection kit, with sensors and EEV, E2V18CWAC0.	**CZ-CO2-EEV-KIT-18**								•	•	•	•		
Room board for EEV control connection kit, with sensors and EEV, E2V24CWAC0.	**CZ-CO2-EEV-KIT-24**								•	•	•	•		
Room board for EEV control connection kit, with sensors and EEV, E3V30CWM00.	**CZ-CO2-EEV-KIT-30**								•	•	•	•		
Cold room display														
Wall-mounted LED display. To be combined with options 1-2-3.	**CZ-CO2-DISPLAY**								•	•	•	•		
Oil														
CO_2 Lubrication oil PZ-68S (0,5L).	**CZ-CO2LBROL500**	•	•	•	•	•	•	•	•	•	•	•	•	•
Pressure release valves (PRV) for K65														
Pressure release valve (PRV) Pset= 60,0 bar (PRV for suction line all units*). *For OCU-CRC units a suction PRV is available also as customisation option.	**PAW-CO2-PRV60**	•	•	•	•	•	•	•	•	•	•	•	•	•
Pressure release valve (PRV) Pset= 80,0 bar (PRV for suction line all units* or for liquid receiver for OCU-CR400VF8(A), OCU-CR1000VF8(A), OCU-CR1001VF8A and OCU-CR2000VF8A). *For OCU-CRC units a suction PRV is available also as customisation option.	**PAW-CO2-PRV80**	•	•	•	•	•	•	•	•	•	•	•	•	•
Pressure release valve (PRV) Pset= 120,0 bar (PRV for liquid receiver for OCU-CR200VF5A) and all NCU-CTC models.	**PAW-CO2-PRV120**	•											•	•
Changeover valve for dual PRV connection.	**PAW-CO2-CHANGE-O**	•	•	•	•	•	•	•	•	•	•	•	•	•

Accessories (can be ordered separately)

Series		OCU-CR							OCU-CRC			SCU-CRC	NCU	
Model		OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR1001VF8A	OCU-CR2000VF8A	OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08	NCU-CTC018M05	NCU-CTC009L05
Compatibility: • Optional accessory / •• Mandatory accessory / ••• One pc. always included as standard with the unit.														
Racords for PRV and for K65 pipe														
Racord ⅜ (9,52) NPT x ⅜ (9,52) ODS (for K65 pipe connection).	**PAW-CO2-RACORD-3/8**	•	•	•	•	•	•	•	•	•	•	•	•	•
Racord ⅜ (9,52) NPT x ½ (12,70) ODS (for K65 pipe connection).	**PAW-CO2-RACORD-1/2**	•	•	•	•	•	•	•	•	•	•	•		
Racord ⅜ (9,52) NPT x ⅝ (15,88) ODS (for K65 pipe connection).	**PAW-CO2-RACORD-5/8**		•	•	•	•	•	•	•	•	•	•		
Racord, ⅜ (9,52) NPT x ¾ (19,05) ODS (for K65 pipe connection).	**PAW-CO2-RACORD-3/4**				•	•	•	•		•	•	•		
Sight glass for K65 pipe														
Sight glass, 130 bar, ¼ (6,35) ODS.	**PAW-SGT-GLASS-1/4**	•	•	•	•	•	•	•	•	•	•	•	•	•
Sight glass, 130 bar, ⅜ (9,52) ODS.	**PAW-SGT-GLASS-3/8**	•	•	•	•	•	•	•	•	•	•	•		
Sight glass, 130 bar, ½ (12,70) ODS.	**PAW-SGT-GLASS-1/2**	•	•	•	•	•	•	•	•	•	•	•		
Sight glass, 130 bar, ⅝ (15,88) - 16 mm ODS.	**PAW-SGT-GLASS-5/8**		•	•	•	•	•	•	•	•	•	•		
Sight glass, 130 bar, ¾ (19,05) ODS.	**PAW-SGT-GLASS-3/4**				•	•	•	•		•	•	•		
External CO_2 receivers for K65														
External CO_2 receiver, 24 L 80 bar, Housed.	**CZ-CO2-R24L80-H**								•	•		•		
External CO_2 receiver, 24 L 90 bar, Housed.	**CZ-CO2-R24L90-H**										•			
External CO_2 receiver, 24 L 80 bar, non-housed.	**CZ-CO2-R24L80-E**								•	•		•		
External CO_2 receiver, 24 L 90 bar, non-housed.	**CZ-CO2-R24L90-E**										•			
Service accessories														
CO_2 service checker for commissioning, maintenance and troubleshooting.	**PAW-CO2-CHECKER**	•	•	•	•	•	•	•						
Service pipe adaptor* for vacuum and service (HP and LP port) [1]. 2 pcs. are recommended for OCU-CR2000VF8A. *OCU/SCU-CRC units include the service connection valves in standard.	**SPK-TU125**	••	••	••	••	••		••						
Service valve adaptor* [1]. *OCU/SCU-CRC units include the service connection valves in standard.	**80223307145000**	•••	•••	•••	•••	•••	•••	•••						
S-006T suction filter, ¾ (19,05) (outer Ø welding).	**80203514142000**		•••	•••			•••		••					
S-008T1 suction filter, ¾ (19,05) (outer Ø welding).	**80203514139000 (1)**				•••	•••		•••		••	••	••		
D-155T filter dryer, ⅝ (15,88) (in Ø welding) (type CO-085-S).	**80203513180000 (2)**				•••	•••								
DCY-P8 165 S filter dryer, ⅝ (16,10) (in Ø welding).	**80203513187000 (3)**				•••	•••	•••							
D-152T filter dryer, ¼ (6,35) (in Ø welding) (type CO-082-S).	**80203513179000 (4)**	•••												
DCY-P8 093S filter dryer, ⅜ (9,60) (in Ø welding).	**80203513190000**		•••	•••										
DCY-P8 306 S filter dryer , ¾ (19,05) (outer Ø welding).	**80203513188000**							•••						
DCY-P12 092 S filter dryer, ¼ (6,40) (in Ø welding).	**80203513186000 (5)**	•••												

1) After Summer 2026, the service pipe adaptor accessory will be replaced by the service valve adaptor delivered in standard of all OCU-CR units.
Compatibility relationship: (2) and (3) are compatible; (4) and (5) are compatible; (2) and (4) until end of stock.
*Accessories compatibility data for OCU-CR1001VF8A, NCU-CTC018M05 and NCU-CTC009L05 is tentative.

CHECK THE FULL DESCRIPTION IN ACCESSORIES AND CONTROL – ICO2RE CO_2 RANGE TABLE

iCOOL A2L and HFC/HFO range – Inverter solutions for today and tomorrow

iCOOL

INVERTER

Panasonic's iCOOL range is built on flexibility and performance. iCOOL range units operate with HFO and HFC refrigerants – including next-generation A2L options with low Global Warming Potential (GWP) – providing a reliable bridge between today's needs and tomorrow's environmental goals.

Designed for high energy efficiency, each unit helps reduce operational costs and environmental impact while ensuring reliable, high-performance operation.

MADE IN EUROPE

iCOOL range is the smart choice for a market in transition – delivering future-ready innovation without compromising the needs of today.

- EASY ONLINE SELECTION
- EASY INSTALLATION
- EASY COMMISSIONING
- EASY MAINTENANCE
- LOW NOISE
- 43 °C AMBIENT TEMPERATURE UP TO 43 °C

1 Easy Selection

· Online selection software
· Support to select the best HFC or A2L solution for any application

2 Easy installation

· Lightweight units
· Integrated options from factory
· Flexible and fast delivery

3 Easy maintenance

· 180° access to all components
· ModBus ready

4 Easy commissioning

· Less than 3 minutes
· Local language assistance
· 100% functionally tested

5 Advanced control

· Simple user interface
· Smooth start and stop function
· Working envelope control
· Oil return function

iCOOL is the modular solution of Inverter condensing unit that saves you time during installation and commissioning, as the unit is factory customised to your needs.

Thanks to its large modulation capacity and its multi-refrigerant compliance, it can be used for any commercial refrigeration application providing service down to a minimum of 500 W for a single evaporator.
With a very simple user interface, low energy consumption, fast commissioning and easy maintenance, iCOOL is the perfect solution for convenience stores, restaurant cold rooms, fuel stations, food stores, milk cooling and ice making equipment.

iCOOL SE Series - A2L and HFC/HFO condensing units

INVERTER

Inverter technology at the cost of ON / OFF.

iCOOL SE Series - A2L and HFC/HFO condensing units - Simple Engineering solution.

From 2,5 to 10,0 kW MT and from 1,2 to 3,0 kW LT.
Easy to install, with a simplified commissioning process. Inverter technology has never been this easy.
Save time and operation cost with our energy efficient units based on Inverter compressors.

- Similar investment cost and significant energy savings vs. ON / OFF technology
- Full BLDC Inverter technology
- Dedicated PLC controller
- Low noise operation
- Suitable for multi-evaporator applications (MT models)
- Designed and manufactured in Europe

NEW! iCOOL SE A2L-ready - OCU-LRE Series.

Upgrade of the entire existing range of iCOOL SE HFC - OCU-KRE Series to meet the A2L requirements.

- **Multi-refrigerant compatibility (install today with HFC, retrofit to A2L after the new F-gas ban dates)**
- **A2L safety components (additional compressor's compartment ventilation fan + differential air-pressure switch + isolated e-box)**

A2L refrigerants are a class of low Global Warming Potential (GWP) gases that serve as alternatives to traditional HFCs, offering mild flammability and low toxicity.

*Available in Summer 2026.

A2L R454C | A2L R455A | R448A | R449A | R134a | R513A

NEW! iCOOL SE Series – OCU-LRE/LRC – A2L-ready MT models · R454C / R455A / R448A / R449A / R134a / R513A

Specifications and capacity tables.

A2L READY

NEW

Model				OCU-LRE025M05*	OCU-LRE045M05*	OCU-LRE070M05*	OCU-LRC100M08
Compressor				**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**
Compatible refrigerants				**R454C, R455A, R448A, R449A, R134a, R513A**	**R454C, R455A, R448A, R449A, R134a, R513A**	**R454C, R455A, R448A, R449A, R134a, R513A**	**R454C, R455A, R448A, R449A, R134a, R513A**
PED category				**I**	**I**	**I**	**III**
Application				**MT**	**MT**	**MT**	**MT**
Cooling capacity at ET -35 °C AT 32 °C, R454C		Min ~ Max	kW	—	—	—	—
Cooling capacity at ET -10 °C AT 32 °C, R454C		Min ~ Max	kW	0,5 - 2,4	1,2 - 4,2	1,9 - 5,3	1,7 - 7,8
SEPR freezing at ET -35 °C AT 32 °C				**TBC**	**TBC**	**TBC**	**TBC**
SEPR cooling at ET -10 °C AT 32 °C				**TBC**	**TBC**	**TBC**	**TBC**
Annual electricity consumption at ET -35 °C AT 32 °C			**kWh/a**	**TBC**	**TBC**	**TBC**	**TBC**
Annual electricity consumption at ET -10 °C AT 32 °C			**kWh/a**	**TBC**	**TBC**	**TBC**	**TBC**
COP at ET -35°C, AT 32 °C				**TBC**	**TBC**	**TBC**	**TBC**
COP at ET -10°C, AT 32 °C				**TBC**	**TBC**	**TBC**	**TBC**
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz			A	6,7	11,9	14,7	8,7
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)			A	7,9	13,5	17,4	11,7
Maximum power consumption			kW	1,6	2,8	3,6	5,2
Dimensions	W x H x D		mm	1000 x 605 x 450	1000 x 605 x 450	1100 x 805 x 450	1286 x 858 x 471
Weight			kg	75	75	85	170
Sound level at 10 m			dB(A)	42,5	42,5	42,5	39,0
Condenser	Fans x diameter		mm	1x450	1x450	1x500	1x710
Condenser	Air flow		m³/h	3600	3600	5200	6700
Condenser	Fan power supply		V / ph / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 277 / 1 / 50
Condenser	Fan power consumption		W	170	170	230	280
Condenser	Nominal fan current		A	1,4	1,4	2,1	1,2
Compressor	Model			C-6RVN63L0B	C-7RVN113L0B	C-7RVN153L0B	C-8RZ420L4AAL
Compressor	Volumetric flow		m³/h	0,6 - 4,1	1,25 - 7,5	1,7 - 10,4	2,3 - 15,1
Compressor	Rotation range		rps	30 - 90	30 - 90	30 - 90	20 - 90
Compressor	Current	Full load amperage	A	4	7,6	9,4	7,6
Compressor	Current	Peak current limit / Locked rotor amperage	A	15 / —	25 / —	25 / —	25 / —
Compressor	Oil type			FV68S	FV68S	FV68S	FV68S (PVE)
Compressor	Oil compressor charge		dm³	0,6	0,7	0,7	1,35 + 0,6
Compressor	Crankcase heater power consumption		W	35	35	35	35
Connections	Suction		Inch	1/2	5/8	3/4	7/8
Connections	Liquid		Inch	3/8	3/8	3/8	1/2
Liquid receiver			dm³	3,9	3,9	5,3	10,0
CU power supply	Voltage		V / ph / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	3x400 / 50 PE+N (TN-S)
CU power supply	Recommended minimum cable cross-section		mm²	3x2,5	3x2,5	3x2,5	5x4,0
CU power supply	Recommended minimum protection			C16	C20	C20	C25
Maximum recommended pipe distance			m	30	30	30	40
Maximum height distance		Evaporator above	m	7	7	7	12
Maximum height distance		Evaporator below	m	7	7	7	12
Which pipes needs to be insulated		Suction / liquid / both		Suction	Suction	Suction	Suction
Recommended insulation thickness			mm	13	13	13	13
Maximum quantity of evaporators connected			Qty.	3	3	3	7
Evaporation temperature		Min ~ Max	°C	-15 ~ 0	-15 ~ 0	-15 ~ 0	-15 ~ 5
Ambient temperature		Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43

*Available in Summer 2026.

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | SUPER QUIET | 43 °C AMBIENT TEMPERATURE | AUTOMATIC FAN | BMS CONNECTIVITY

NEW! iCOOL SE Series – OCU-LRE – A2L-ready LT models · R454C / R455A / R448A / R449A

Specifications and capacity tables.

A2L READY

NEW

Model				OCU-LRE012L05*	OCU-LRE022L05*	OCU-LRE030L05*
Compressor				**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**
Compatible refrigerants				**R454C, R455A, R448A, R449A**	**R454C, R455A, R448A, R449A**	**R454C, R455A, R448A, R449A**
PED category				**I**	**I**	**I**
Application				**LT**	**LT**	**LT**
Cooling capacity at ET -35 °C AT 32 °C, R454C	Min ~ Max		kW	0,1 - 0,7	0,4 - 1,5	0,6 - 1,8
Cooling capacity at ET -10 °C AT 32 °C, R454C	Min ~ Max		kW	—	—	—
SEPR freezing at ET -35 °C AT 32 °C				**TBC**	**TBC**	**TBC**
SEPR cooling at ET -10 °C AT 32 °C				**TBC**	**TBC**	**TBC**
Annual electricity consumption at ET -35 °C AT 32 °C			**kWh/a**	**TBC**	**TBC**	**TBC**
Annual electricity consumption at ET -10 °C AT 32 °C			**kWh/a**	**TBC**	**TBC**	**TBC**
COP at ET -35°C, AT 32 °C				**TBC**	**TBC**	**TBC**
COP at ET -10°C, AT 32 °C				**TBC**	**TBC**	**TBC**
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz			A	5,5	9,5	12,4
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)			A	7,2	12,7	17
Maximum power consumption			kW	1,4	2,6	3,6
Dimensions	W x H x D		mm	1000 x 605 x 450	1000 x 605 x 450	1000 x 605 x 450
Weight			kg	75	75	75
Sound level at 10 m			dB(A)	42,5	42,5	42,5
Condenser	Fans x diameter		mm	1x450	1x450	1x450
	Air flow		m³/h	3600	3600	3600
	Fan power supply		V / ph / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	Fan power consumption		W	170	170	170
	Nominal fan current		A	1,4	1,4	1,4
Compressor	Model			C-6RVN63L0B	C-7RVN113L0B	C-7RVN153L0B
	Volumetric flow		m³/h	0,6 - 4,1	1,25 - 7,5	1,7 - 10,4
	Rotation range		rps	30 - 90	30 - 90	30 - 90
	Current	Full load amperage	A	3,6	7,1	9,6
		Peak current limit / Locked rotor amperage	A	15 / —	25 / —	25 / —
	Oil type			FV68S	FV68S	FV68S
	Oil compressor charge		dm³	0,6	0,7	0,7
	Crankcase heater power consumption		W	35	35	35
Connections	Suction		Inch	1/2	5/8	3/4
	Liquid		Inch	3/8	3/8	3/8
Liquid receiver			dm³	3,9	3,9	3,9
CU power supply	Voltage		V / ph / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	Recommended minimum cable cross-section		mm²	3x2,5	3x2,5	3x2,5
	Recommended minimum protection			C16	C20	C20
Maximum recommended pipe distance			m	20	20	20
Maximum height distance		Evaporator above	m	7	7	7
		Evaporator below	m	7	7	7
Which pipes needs to be insulated		Suction / liquid / both		Suction	Suction	Suction
Recommended insulation thickness			mm	19	19	19
Maximum quantity of evaporators connected			Qty.	3	3	3
Evaporation temperature		Min ~ Max	°C	-35 ~ -15	-35 ~ -15	-35 ~ -15
Ambient temperature		Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43

*Available in Autumn 2026.

Tentative data

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | SUPER QUIET | 43 °C AMBIENT TEMPERATURE | AUTOMATIC FAN | BMS CONNECTIVITY

iCOOL SE Series – OCU-LRE/LRC – A2L ready models · R454C / R455A / R448A / R449A / R134a / R513A

Specifications and capacity tables.

A2L READY

MT	Cooling capacity at				R454C			R455A			R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-LRE025M05	AT	32 °C	Min - Max	kW	0,4 - 2	0,5 - 2,4	0,6 - 2,8	TBC	TBC	TBC	0,7 - 2,1	0,8 - 2,6	1,0 - 3,0	0,4 - 1,2	0,5 - 1,5	0,6 - 1,8
		38 °C	Min - Max	kW	0,4 - 1,8	0,5 - 2,1	0,6 - 2,6	TBC	TBC	TBC	0,6 - 2,0	0,8 - 2,4	0,9 - 2,7	0,3 - 1,1	0,4 - 1,3	0,5 - 1,7
		43 °C	Min - Max	kW	0,3 - 1,6	0,4 - 1,9	0,5 - 2,4	TBC	TBC	TBC	0,6 - 1,8	0,7 - 2,0	0,8 - 2,2	0,3 - 1,0	0,4 - 1,2	0,5 - 1,5

Tentative data

MT	Cooling capacity at				R454C			R455A			R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-LRE045M05	AT	32 °C	Min - Max	kW	1,0 - 3,6	1,2 - 4,2	1,4 - 5	1,1 - 3,7	1,3 - 4,4	1,6 - 5,2	1,3 - 3,9	1,6 - 4,6	1,9 - 5,4	0,7 - 2,2	0,9 - 2,7	1,1 - 3,4
		38 °C	Min - Max	kW	0,9 - 3,2	1,1 - 3,9	1,3 - 4,6	1,0 - 3,4	1,3 - 4,0	1,5 - 4,7	1,2 - 3,7	1,5 - 4,1	1,8 - 4,6	0,6 - 2,0	0,8 - 2,5	1,0 - 3,1
		43 °C	Min - Max	kW	0,8 - 3,0	1,0 - 3,6	1,2 - 4,3	1,0 - 3,0	1,2 - 3,6	1,4 - 4,3	1,2 - 3,0	1,4 - 3,1	1,7 - 3,4	0,6 - 1,8	0,7 - 2,3	0,9 - 2,8

Tentative data

MT	Cooling capacity at				R454C			R455A			R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-LRE070M05	AT 32 °C		Min - Max	kW	1,6 - 4,4	1,9 - 5,3	2,3 - 6,3	TBC	TBC	TBC	1,9 - 5,5	2,3 - 6,6	2,8 - 7,6	0,9 - 3,1	1,2 - 3,9	1,5 - 4,8
	AT 38 °C		Min - Max	kW	1,4 - 4,0	1,7 - 4,8	2,1 - 5,7	TBC	TBC	TBC	1,8 - 5,0	2,2 - 6,0	2,6 - 6,8	0,9 - 2,8	1,1 - 3,5	1,4 - 4,4
	AT 43 °C		Min - Max	kW	1,3 - 3,7	1,6 - 4,5	2,0 - 5,3	TBC	TBC	TBC	1,7 - 4,6	2,0 - 5,3	2,4 - 5,9	0,8 - 2,6	1,0 - 3,3	1,3 - 4,0

Tentative data

MT	Cooling capacity at				R454C			R455A			R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-LRC100M08	AT	32 °C	Min - Max	kW	1,4 - 6,4	1,7 - 7,8	2,0 - 9,3	1,5 - 7,5	1,8 - 8,8	2,2 - 10,3	1,6 - 7,7	2,0 - 9,3	2,4 - 11,1	1,0 - 4,8	1,2 - 5,9	1,5- 7,1
		38 °C	Min - Max	kW	1,3 - 6,0	1,6 - 7,3	1,9 - 8,7	1,5 - 6,8	1,7 - 8,1	2,1 - 9,5	1,5 - 7,1	1,9 - 8,6	2,3 - 10,3	0,9 - 4,4	1,1 - 5,4	1,4 - 6,6
		43 °C	Min - Max	kW	1,2 - 5,7	1,5 - 6,8	1,8 - 8,0	1,4 - 6,2	1,6 - 7,4	1,9 - 8,8	1,4 - 6,6	1,8 - 8,0	2,1 - 9,6	0,8 - 4,1	1,0 - 5,0	1,3 - 6,1

LT	Cooling capacity at				R454C			R455A			R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C
OCU-LRE012L05	AT	32 °C	Min - Max	kW	0,1 - 0,7	0,2 - 1,0	0,3 - 1,3	TBC	TBC	TBC	0,3 - 1,0	0,4 - 1,2	0,5 - 1,5
		38 °C	Min - Max	kW	0,1 - 0,6	0,2 - 0,9	0,2 - 1,2	TBC	TBC	TBC	0,3 - 0,9	0,3 - 1,1	0,4 - 1,4
		43 °C	Min - Max	kW	0,1 - 0,6	0,2 - 0,8	0,2 - 1,1	TBC	TBC	TBC	0,2 - 0,8	0,3 - 1,0	0,4 - 1,3

Tentative data

LT	Cooling capacity at				R454C			R455A			R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C
OCU-LRE022L05	AT	32 °C	Min - Max	kW	0,4 - 1,5	0,5 - 1,9	0,7 - 2,4	0,4 - 1,5	0,5 - 2,0	0,7 - 2,5	0,6 - 1,8	0,7 - 2,2	0,9 - 2,8
		38 °C	Min - Max	kW	0,3 - 1,3	0,4 - 1,7	0,6 - 2,2	0,4 - 1,4	0,5 - 1,9	0,7 - 2,3	0,5 - 1,6	0,7 - 2,0	0,8 - 2,5
		43 °C	Min - Max	kW	0,3 - 1,2	0,4 - 1,6	0,5 - 2,0	0,4 - 1,3	0,5 - 1,7	0,6 - 2,1	0,5 - 1,5	0,6 - 1,9	0,8 - 2,3

Tentative data

LT	Cooling capacity at				R454C			R455A			R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C
OCU-LRE030L05	AT	32 °C	Min - Max	kW	0,6 - 1,8	0,8 - 2,3	1,0 - 2,9	TBC	TBC	TBC	0,8 - 2,4	1,0 - 2,9	1,3 - 3,6
		38 °C	Min - Max	kW	0,6 - 1,6	0,8 - 2,1	0,9 - 2,6	TBC	TBC	TBC	0,7 - 2,2	0,9 - 2,7	1,2 - 3,3
		43 °C	Min - Max	kW	0,5 - 1,5	0,7 - 1,9	0,9 - 2,4	TBC	TBC	TBC	0,7 - 2,0	0,9 - 2,4	1,1 - 3,0

Tentative data

REF PRO DESIGNER.

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Panasonic REF PRO DESIGNER

iCOOL SE Series – OCU-KRE – HFC/HFO models · R448A / R449A / R134a / R513A

Specifications and capacity tables.

Model			OCU-	KRE025M05	KRE045M05	KRE070M05	KRE012L05	KRE022L05	KRE030L05
Compressor				**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**
Compatible refrigerants				**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A**	**R448A, R449A**	**R448A, R449A**
PED category				**I**	**I**	**I**	**I**	**I**	**I**
Application				**MT**	**MT**	**MT**	**LT**	**LT**	**LT**
Cooling capacity at ET -35 °C AT 32 °C		Min ~ Max	kW	—	—	—	0,3 - 1,0	0,6 - 1,8	0,8 - 2,4
Cooling capacity at ET -10 °C AT 32 °C		Min ~ Max	kW	0,8 - 2,6	1,6 - 4,6	2,3 - 6,6	—	—	—
SEPR freezing at ET -35 °C AT 32 °C (R448A)				**—**	**—**	**—**	**—**	**—**	**2,14**
SEPR cooling at ET -10 °C AT 32 °C (R448A-OCU-K, R455A-OCU-L)				**—**	**—**	**3,80**	**—**	**—**	**—**
Annual electricity consumption at ET -35 °C AT 32 °C (R448A)			**kWh/a**	**—**	**—**	**—**	**—**	**—**	**8475**
Annual electricity consumption at ET -10 °C AT 32 °C (R448A-OCU-K, R455A-OCU-L)			**kWh/a**	**—**	**—**	**10749**	**—**	**—**	**—**
COP at ET -35°C, AT 32 °C (R448A)				**—**	**—**	**—**	**0,95**	**0,98**	**—**
COP at ET -10°C, AT 32 °C (R448A)				**1,88**	**1,89**	**—**	**—**	**—**	**—**
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz			A	6,7	11,9	14,7	5,5	9,5	12,4
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)			A	7,9	13,5	17,4	7,2	12,7	17
Maximum power consumption			kW	1,6	2,8	3,6	1,4	2,6	3,6
Dimensions	W x H x D		mm	1000 x 605 x 450	1000 x 605 x 450	1100 x 805 x 450	1000 x 605 x 450	1000 x 605 x 450	1000 x 605 x 450
Weight			kg	70	70	80	70	70	80
Sound level at 10 m			dB(A)	42,5	42,5	42,5	42,5	42,5	42,5
Condenser	Fans x diameter		mm	1x450	1x450	1x500	1x450	1x450	1x450
	Air flow		m³/h	3600	3600	5200	3600	3600	3600
	Fan power supply		V / ph / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	Fan power consumption		W	170	170	230	170	170	170
	Nominal fan current		A	1,4	1,4	2,1	1,4	1,4	1,4
Compressor	Model			C-6RVN63L0B	C-7RVN113L0B	C-7RVN153L0B	C-6RVN63L0B	C-7RVN113L0B	C-7RVN153L0B
	Volumetric flow		m³/h	0,6 - 4,1	1,25 - 7,5	1,7 - 10,4	0,6 - 4,1	1,25 - 7,5	1,7 - 10,4
	Rotation range		rps	30 - 90	30 - 90	30 - 90	30 - 90	30 - 90	30 - 90
	Current	Full load amperage	A	4	7,6	9,4	3,6	7,1	9,6
		Peak current limit / Locked rotor amperage	A	15 / —	25 / —	25 / —	15 / —	25 / —	25 / —
	Oil type			FV68S	FV68S	FV68S	FV68S	FV68S	FV68S
	Oil compressor charge		dm³	0,6	0,7	0,7	0,6	0,7	0,7
	Crankcase heater power consumption		W	35	35	35	35	35	35
Connections	Suction		Inch	1/2	5/8	3/4	1/2	5/8	3/4
	Liquid		Inch	3/8	3/8	3/8	3/8	3/8	3/8
Liquid receiver			dm³	3,9	3,9	5,3	3,9	3,9	3,9
CU power supply	Voltage		V / ph / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50
	Recommended minimum cable cross-section		mm²	3x2,5	3x2,5	3x2,5	3x2,5	3x2,5	3x2,5
	Recommended minimum protection			C16	C20	C20	C16	C20	C20
Maximum recommended pipe distance			m	30	30	30	20	20	20
Maximum height distance		Evaporator above	m	7	7	7	7	7	7
		Evaporator below	m	7	7	7	7	7	7
Which pipes needs to be insulated		Suction / liquid / both		Suction	Suction	Suction	Suction	Suction	Suction
Recommended insulation thickness			mm	13	13	13	19	19	19
Maximum quantity of evaporators connected			Qty.	3	3	3	3	3	3
Evaporation temperature		Min ~ Max	°C	-15 ~ 0	-15 ~ 0	-15 ~ 0	-35 ~ -15	-35 ~ -15	-35 ~ -15
Ambient temperature		Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | SUPER QUIET | 43 °C AMBIENT TEMPERATURE | AUTOMATIC FAN | BMS CONNECTIVITY

iCOOL SE Series – OCU-KRE – HFC/HFO models · R448A / R449A / R134a / R513A

Specifications and capacity tables.

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KRE025M05	AT	32 °C	Min - Max	kW	0,7 - 2,1	0,8 - 2,6	1,0 - 3,0	0,4 - 1,2	0,5 - 1,5	0,6 - 1,8
		38 °C	Min - Max	kW	0,6 - 2,0	0,8 - 2,4	0,9 - 2,7	0,3 - 1,1	0,4 - 1,3	0,5 - 1,7
		43 °C	Min - Max	kW	0,6 - 1,8	0,7 - 2,0	0,8 - 2,2	0,3 - 1,0	0,4 - 1,2	0,5 - 1,5

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KRE045M05	AT	32 °C	Min - Max	kW	1,3 - 3,9	1,6 - 4,6	1,9 - 5,4	0,7 - 2,2	0,9 - 2,7	1,1 - 3,4
		38 °C	Min - Max	kW	1,2 - 3,7	1,5 - 4,1	1,8 - 4,6	0,6 - 2,0	0,8 - 2,5	1,0 - 3,1
		43 °C	Min - Max	kW	1,2 - 3,0	1,4 - 3,1	1,7 - 3,4	0,6 - 1,8	0,7 - 2,3	0,9 - 2,8

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KRE070M05	AT 32 °C		Min - Max	kW	1,9 - 5,5	2,3 - 6,6	2,8 - 7,6	0,9 - 3,1	1,2 - 3,9	1,5 - 4,8
	AT 38 °C		Min - Max	kW	1,8 - 5,0	2,2 - 6,0	2,6 - 6,8	0,9 - 2,8	1,1 - 3,5	1,4 - 4,4
	AT 43 °C		Min - Max	kW	1,7 - 4,6	2,0 - 5,3	2,4 - 5,9	0,8 - 2,6	1,0 - 3,3	1,3 - 4,0

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRE012L05	AT	32 °C	Min - Max	kW	0,3 - 1,0	0,4 - 1,2	0,5 - 1,5
		38 °C	Min - Max	kW	0,3 - 0,9	0,3 - 1,1	0,4 - 1,4
		43 °C	Min - Max	kW	0,2 - 0,8	0,3 - 1,0	0,4 - 1,3

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRE022L05	AT	32 °C	Min - Max	kW	0,6 - 1,8	0,7 - 2,2	0,9 - 2,8
		38 °C	Min - Max	kW	0,5 - 1,6	0,7 - 2,0	0,8 - 2,5
		43 °C	Min - Max	kW	0,5 - 1,5	0,6 - 1,9	0,8 - 2,3

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRE030L05	AT	32 °C	Min - Max	kW	0,8 - 2,4	1,0 - 2,9	1,3 - 3,6
		38 °C	Min - Max	kW	0,7 - 2,2	0,9 - 2,7	1,2 - 3,3
		43 °C	Min - Max	kW	0,7 - 2,0	0,9 - 2,4	1,1 - 3,0

iCOOL OCU/SCU Series - HFC/HFO condensing units

INVERTER

The possibility to address a larger audience, covering the Condensing Units (CDUs) market that CO_2 is not yet covering today.

MT/LT type: iCOOL OCU/SCU Series - HFC/HFO condensing units.

From 3,5 to 42,0 kW.
Recognising that HFC/HFO systems still represent the majority of demand in the European refrigeration market, the line-up is designed to support current needs while also enabling a smooth transition for those seeking more climate-friendly alternatives. The iCOOL range addresses this directly, supporting continued use of HFCs and introducing A2L-ready feature, offering customers a flexible, future-proof solution that bridges today's realities with tomorrow's requirements.

- **Complete capacity range of compact CDUs for multi-evaporator applications**
- **Significant energy savings vs. ON / OFF**
- **Low noise units with special silent features: Inverter compressor, EC fan and 6-face soundproof insulation of the compressor compartment**
- **Customisation options – fully tested and factory mounted**

iCOOL OCU Series · R448A / R449A / R134a / R513A

Specifications and capacity tables.

MODEL				OCU-KRC045M08	OCU-KRC070M08	OCU-KRC100M08	OCU-KSC120M08
Compressor				**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**
Compatible refrigerants				**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**
PED category				**I**	**II**	**II**	**II**
Application				**MT**	**MT**	**MT**	**MT**
Cooling capacity at ET -35 °C AT 32 °C		Min ~ Max	kW	—	—	—	—
Cooling capacity at ET -10 °C AT 32 °C		Min ~ Max	kW	0,8 - 4,7	1,2 - 7,2	2,2 - 9,4	3,0 - 11,9
SEPR freezing at ET -35 °C AT 32 °C				**—**	**—**	**—**	**—**
SEPR cooling at ET -10 °C AT 32 °C				**3,28**	**3,60**	**4,29**	**3,48**
Annual electricity consumption at ET -35 °C AT 32 °C			**kWh/a**	**—**	**—**	**—**	**—**
Annual electricity consumption at ET -10 °C AT 32 °C			**kWh/a**	**9070**	**12324**	**13347**	**20141**
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz			A	5,0	6,9	7,2	14,8
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)			A	7,2	10,1	9,8	20,5
Maximum power consumption			kW	3,7	5,6	5,4	9,3
Dimensions	W x H x D		mm	1106 x 559 x 461	1140 x 758 x 439	1280 x 963 x 439	1420 x 963 x 439
Weight			kg	94	110	140	175
Sound level at 10 m			dB(A)	39,0	40,0	41,0	40,0
Condenser	Fans x diameter		mm	1x450	1x630	1x630	1x710
	Air flow		m³/h	3850	6150	6150	6920
	Fan static pressure [1]		Pa	120	160	160	160
	Fan power supply		V / ph / Hz	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50
	Fan power consumption		W	170	220	220	280
	Nominal fan current		A	1,4	1,2	1,2	1,2
Compressor	Model			C-7RVN113L0A	C-7RZ320L4ABL	C-8RZ420L4AAL	C-SBS180H00B
	Volumetric flow		m³/h	1,25 - 7,5	1,7 - 10,4	3,0 - 13,6	5,8 - 19,2
	Rotation range		rps	15 - 90	15 - 90	20 - 90	32 - 100
	Current	Full load amperage	A	5,8	8,7	8,8	15,8
		Peak current limit / Locked rotor amperage	A	17,8 / —	19,2 / —	31,9 / —	40 / —
	Oil type			FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)
	Crankcase heater power consumption		W	35	40	35	70
Oil charge			dm³	0,7 + 0,4	0,7 + 0,4	1,35 + 0,4	2,0 + 0,4
Connections	Suction		Inch	5/8	3/4	7/8	7/8
	Liquid		Inch	3/8	3/8	1/2	1/2
Liquid receiver			dm³	3,9	7,1	10,0	10
CU power supply	Voltage		V / Hz	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)
	Recommended minimum cable cross-section		mm²	5x2,5	5x2,5	5x2,5	5x4,0
	Recommended minimum protection			C16	C16	C20	C25
Maximum recommended pipe distance			m	40	40	40	40
Maximum height distance		Evaporator above	m	12	12	12	12
		Evaporator below	m	12	12	12	12
Which pipes needs to be insulated		Suction / liquid / both		Suction	Suction	Suction	Suction
Recommended insulation thickness			mm	13	13	13	13
Maximum quantity of evaporators connected			Qty.	5	5	7	7
Evaporation temperature		Min ~ Max	°C	-15 ~ 5	-15 ~ 5	-15 ~ 10	-15 ~ 10
Ambient temperature		Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43

1) Pressure in the unit with "P" high-pressure fan customisation option.

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | SUPER QUIET | 43 °C AMBIENT TEMPERATURE | AUTOMATIC FAN | CUSTOMIZATION OPTIONS | BMS CONNECTIVITY

iCOOL OCU Series · R448A / R449A / R134a / R513A

Specifications and capacity tables.

MODEL			OCU-KSC150M08	OCU-KSC160M08	OCU-KSC190M08
Compressor			**Single Inverter compressor**	**Tandem compressor Inverter + ON / OFF**	**Tandem compressor Inverter + ON / OFF**
Compatible refrigerants			**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**
PED category			**II**	**II**	**II**
Application			**MT**	**MT**	**MT**
Cooling capacity at ET -35 °C AT 32 °C	Min ~ Max	kW	—	—	—
Cooling capacity at ET -10 °C AT 32 °C	Min ~ Max	kW	4,2 - 14,7	2,9 - 16,3	2,9 - 18,7
SEPR freezing at ET -35 °C AT 32 °C			**—**	**—**	**—**
SEPR cooling at ET -10 °C AT 32 °C			**3,87**	**3,61**	**3,39**
Annual electricity consumption at ET -35 °C AT 32 °C		**kWh/a**	**—**	**—**	**—**
Annual electricity consumption at ET -10 °C AT 32 °C		**kWh/a**	**23139**	**27903**	**33985**
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz		A	15,2	21,3	26,3
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)		A	22,6	27,9	32,3
Maximum power consumption		kW	10,1	14	17,1
Dimensions	W x H x D	mm	1322 x 1493 x 475	1521 x 1493 x 475	1521 x 1493 x 475
Weight		kg	231	283	285
Sound level at 10 m		dB(A)	44,0	44,0	44,0
Condenser	Fans x diameter	mm	2x630	2x630	2x630
	Air flow	m³/h	11150	11150	11150
	Fan static pressure [1]	Pa	160	N/A	N/A
	Fan power supply	V / ph / Hz	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50
	Fan power consumption	W	2x230	2x230	2x230
	Nominal fan current	A	2x1	2x1	2x1
Compressor	Model		C-SBVN373L0B	C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G
	Volumetric flow	m³/h	9,2 - 24,6	5,8 - 17,4 / 11,6	5,8 - 17,4 / 14,7
	Rotation range	rps	30 - 80	32 - 90	32 - 90
	Current: Full load amperage	A	16,9	14,7 / 8,0	15,2 / 11,9
	Current: Peak current limit / Locked rotor amperage	A	46 / —	34 / 48	34 / 66
	Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)
	Crankcase heater power consumption	W	90	2x70	2x70
Oil charge		dm³	2,0 + 0,6	2,0 + 1,7 + 2x0,4	2,0 + 1,7 + 2x0,4
Connections	Suction	Inch	1 1/8	1 1/8	1 1/8
	Liquid	Inch	5/8	5/8	5/8
Liquid receiver		dm³	15	15	15
CU power supply	Voltage	V / Hz	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)
	Recommended minimum cable cross-section	mm²	5x6,0	5x6,0	5x10,0
	Recommended minimum protection		C32	C32	C40
Maximum recommended pipe distance		m	50	50	50
Maximum height distance	Evaporator above	m	12	12	12
	Evaporator below	m	12	12	12
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction
Recommended insulation thickness		mm	13	13	13
Maximum quantity of evaporators connected		Qty.	7	10	10
Evaporation temperature	Min ~ Max	°C	-15 ~ 10	-15 ~ 10	-15 ~ 10
Ambient temperature	Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43

1) Pressure in the unit with "P" high-pressure fan customisation option.

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ · HIGH EFFICIENCY COMPRESSOR · SUPER QUIET · 43 °C AMBIENT TEMPERATURE · AUTOMATIC FAN · CUSTOMIZATION OPTIONS · BMS CONNECTIVITY

MODEL				OCU-KSC240M08	OCU-KSC280M08	OCU-KSC400M08	OCU-KSC420M08
Compressor				**Tandem compressor Inverter + ON / OFF**	**Tandem compressor Inverter + ON / OFF**	**Tandem compressor Inverter + ON / OFF**	**Tandem compressor Inverter + ON / OFF**
Compatible refrigerants				**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**
PED category				**II**	**II**	**II**	**II**
Application				**MT**	**MT**	**MT**	**MT**
Cooling capacity at ET -35 °C AT 32 °C		Min ~ Max	kW	—	—	—	—
Cooling capacity at ET -10 °C AT 32 °C		Min ~ Max	kW	4,3 - 24,2	4,3 - 27,5	6,5 - 39,7	6,5 - 42,2
SEPR freezing at ET -35 °C AT 32 °C				**—**	**—**	**—**	**—**
SEPR cooling at ET -10 °C AT 32 °C				**4,31**	**4,27**	**3,61**	**3,52**
Annual electricity consumption at ET -35 °C AT 32 °C			**kWh/a**	**—**	**—**	**—**	**—**
Annual electricity consumption at ET -10 °C AT 32 °C			**kWh/a**	**34316**	**39329**	**67049**	**73046**
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz			A	25,9	30,5	40,0	43,9
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)			A	34,8	40,4	53,8	57,3
Maximum power consumption			kW	17,4	20,9	28,5	31,4
Dimensions	W x H x D		mm	1528 x 1488 x 879	1528 x 1488 x 879	1670 x 1695 x 1090	1670 x 1695 x 1090
Weight			kg	397	426	520	520
Sound level at 10 m			dB(A)	44,0	44,0	43,0	43,0
Condenser	Fans x diameter		mm	2x630	2x630	1x800	1x800
	Air flow		m³/h	12600	12600	21000	21000
	Fan static pressure		Pa	N/A	N/A	160	160
	Fan power supply		V / ph / Hz	200 - 240 / 1 / 50	200 - 277 / 1 / 50	380 - 400 / 3 / 50	380 - 400 / 3 / 50
	Fan power consumption		W	2x230	2x230	1950	1950
	Nominal fan current		A	2x1	2x1	2,8	2,8
Compressor	Model			C-SBVN373L0B/ C-SBN453H8G	C-SBVN373L0B/ C-SCN603H8T	4CC149NA04/ C-SCN753H8T	4CC149NA04/ C-SCN903H8T
	Volumetric flow		m³/h	7,7 - 24,6 / 14,7	7,7 - 24,6 / 23,6	10,7 - 39,3 / 30,3	10,7 - 39,3 / 36,2
	Rotation range		rps	31 - 80	31 - 80	21 - 75	21 - 75
	Current	Full load amperage	A	17,2 / 11,9	18,4 / 16,0	26,0 / 19,4	25,8 / 23,2
		Peak current limit / Locked rotor amperage	A	46 / 66	46 / 80	52 / 96	52 / 96
	Oil type			FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)
	Crankcase heater power consumption		W	40	2x90	2x90	2x90
Oil charge			dm³	2,0 + 1,7 + 2x0,6	2,0 + 2,8 + 2x0,6	2x2,8 + 2,0	2x2,8 + 2,0
Connections	Suction		Inch	1 3/8	1 3/8	1 5/8	1 5/8
	Liquid		Inch	7/8	7/8	7/8	7/8
Liquid receiver			dm³	15	15	30	30
CU power supply	Voltage		V / Hz	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)
	Recommended minimum cable cross-section		mm²	5x10,0	5x10,0	5x16,0	5x16,0
	Recommended minimum protection			C40	C50	C63	C63
Maximum recommended pipe distance			m	70	70	70	70
Maximum height distance		Evaporator above	m	12	12	12	12
		Evaporator below	m	12	12	12	12
Which pipes needs to be insulated		Suction / liquid / both		Suction	Suction	Suction	Suction
Recommended insulation thickness			mm	13	13	13	13
Maximum quantity of evaporators connected			Qty.	10	10	20	20
Evaporation temperature		Min ~ Max	°C	-15 ~ 10	-15 ~ 10	-15 ~ 10	-15 ~ 10
Ambient temperature		Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | SUPER QUIET | 43 °C AMBIENT TEMPERATURE | AUTOMATIC FAN | CUSTOMIZATION OPTIONS | BMS CONNECTIVITY

iCOOL OCU Series · R448A / R449A

Specifications and capacity tables.

MODEL				OCU-KRC035L08	OCU-KRC050L08	OCU-KSC090L08	OCU-KSC140L08
Compressor				**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**	**Tandem compressor Inverter + ON / OFF**
Compatible refrigerants				**R448A, R449A**	**R448A, R449A**	**R448A, R449A**	**R448A, R449A**
PED category				**I**	**II**	**II**	**II**
Application				**LT**	**LT**	**LT**	**LT**
Cooling capacity at ET -35 °C AT 32 °C		Min ~ Max	kW	0,4 - 2,8	1,2 - 4,4	1,7 - 6,8	1,7 - 11,6
Cooling capacity at ET -10 °C AT 32 °C		Min ~ Max	kW	—	—	—	—
SEPR freezing at ET -35 °C AT 32 °C				**1,76**	**1,83**	**1,65**	**—**
SEPR cooling at ET -10 °C AT 32 °C				**—**	**—**	**—**	**—**
Annual electricity consumption at ET -35 °C AT 32 °C			**kWh/a**	**10630**	**18315**	**33998**	**—**
Annual electricity consumption at ET -10 °C AT 32 °C			**kWh/a**	**—**	**—**	**—**	**—**
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz			A	5,9	10,1	20,7	32,9
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)			A	7,9	12,8	29,9	43
Maximum power consumption			kW	4,1	7,2	13,6	21
Dimensions	W x H x D		mm	1105 x 559 x 466	1289 x 758 x 439	1322 x 1493 x 475	1528 x 1488 x 879
Weight			kg	96	132	286	460
Sound level at 10 m			dB(A)	39,0	44,0	44,0	44,0
Condenser	Fans x diameter		mm	1x450	1x630	2x630	2x630
	Air flow		m³/h	3850	6150	11150	12600
	Fan static pressure [1]		Pa	120	160	N/A	N/A
	Fan power supply		V / ph / Hz	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50
	Fan power consumption		W	170	220	2x230	2x230
	Nominal fan current		A	1,4	1,2	2x1	2x1
Compressor	Model			C-7RZ320L4ABL	C-9RZ580L4AAL	ACC144NA03	ACC144NA03/ C-SCN603L8H
	Volumetric flow		m³/h	1,7 - 10,4	5,2 - 18,7	10,0 - 37,6	10 - 37,6 / 23,8
	Rotation range		rps	15 - 90	25 - 90	25 - 72	25 - 72
	Current	Full load amperage	A	6,4	10	22,9	21,6 / 14,8
		Peak current limit / Locked rotor amperage	A	19,2 / —	28,4 / —	46 / —	46 / 90
	Oil type			FV68S (PVE)	FV68S (PVE)	FV32S (PVE)	FV32S (PVE)
	Crankcase heater power consumption		W	35	35	90	2x90
Oil charge			dm³	0,7 + 0,4	2,1 + 0,4	2,5 + 0,4	2x2,5 + 2x0,6
Connections	Suction		Inch	7/8	7/8	1 1/8	1 3/8
	Liquid		Inch	3/8	3/8	5/8	7/8
Liquid receiver			dm³	3,9	7,1	15	15
CU power supply	Voltage		V / Hz	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)
	Recommended minimum cable cross-section		mm²	5x2,5	5x2,5	5x6,0	5x10,0
	Recommended minimum protection			C16	C20	C32	C50
Maximum recommended pipe distance			m	40	40	40	50
Maximum height distance		Evaporator above	m	12	12	12	12
		Evaporator below	m	12	12	12	12
Which pipes needs to be insulated		Suction / liquid / both		Suction	Suction	Suction	Suction
Recommended insulation thickness			mm	19	19	19	19
Maximum quantity of evaporators connected			Qty.	5	5	5	7
Evaporation temperature		Min ~ Max	°C	-35 ~ -15	-35 ~ -15	-35 ~ -10	-35 ~ -10
Ambient temperature		Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43

1) Pressure in the unit with "P" high-pressure fan customisation option.

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ · HIGH EFFICIENCY COMPRESSOR · SUPER QUIET · 43 °C AMBIENT TEMPERATURE · AUTOMATIC FAN · CUSTOMIZATION OPTIONS · BMS CONNECTIVITY

iCOOL SCU Series · R448A / R449A / R134a / R513A

Specifications and capacity tables.

MODEL				SCU-KSC160M08	SCU-KSC190M08	SCU-KSC090L08
Compressor				**Tandem compressor Inverter + ON / OFF**	**Tandem compressor Inverter + ON / OFF**	**Single Inverter compressor**
Compatible refrigerants				**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A**
PED category				**II**	**II**	**II**
Application				**MT**	**MT**	**LT**
Cooling capacity at ET -35 °C AT 32 °C		Min ~ Max	kW	—	—	1,7 - 6,8
Cooling capacity at ET -10 °C AT 32 °C		Min ~ Max	kW	2,9 - 16,3	2,9 - 18,7	—
SEPR freezing at ET -35 °C AT 32 °C				**—**	**—**	**—**
SEPR cooling at ET -10 °C AT 32 °C				**3,14**	**3,19**	**—**
Annual electricity consumption at ET -35 °C AT 32 °C			**kWh/a**	**—**	**—**	**—**
Annual electricity consumption at ET -10 °C AT 32 °C			**kWh/a**	**31411**	**35312**	**—**
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz			A	23,6	28,7	23,0
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)			A	30,5	34,9	32,5
Maximum power consumption			kW	14,6	17,7	14,1
Dimensions	W x H x D		mm	1327 x 1558 x 745	1327 x 1558 x 745	1327 x 1558 x 745
Weight			kg	342	344	325
Sound level at 10 m			dB(A)	55,0	55,0	55,0
Condenser	Fans x diameter		mm	1x560	1x560	1x560
	Air flow		m³/h	9000	9000	9000
	Fan static pressure		Pa	120	80	120
	Fan power supply		V / ph / Hz	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50
	Fan power consumption		W	1050	1050	1050
	Nominal fan current		A	4,6	4,6	4,6
Compressor	Model			C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G	ACC144NA03
	Volumetric flow		m³/h	5,8 - 17,4 / 11,6	5,8 - 17,4 / 14,7	10,0 - 37,6
	Rotation range		rps	32 - 90	32 - 90	25 - 72
	Current	Full load amperage	A	14,7 / 8,0	15,2 / 11,9	22,9
		Peak current limit / Locked rotor amperage	A	34 / 48	34 / 66	46 / —
	Oil type			FV68S (PVE)	FV68S (PVE)	FV32S (PVE)
	Crankcase heater power consumption		W	2x70	2x70	90
Oil charge			dm³	2,0 + 1,7 + 2x0,4	2,0 + 1,7 + 2x0,4	2,5 + 0,4
Connections	Suction		Inch	1 1/8	1 1/8	1 1/8
	Liquid		Inch	5/8	5/8	5/8
Liquid receiver			dm³	15	15	15
CU power supply	Voltage		V / Hz	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)
	Recommended minimum cable cross-section		mm²	5x6,0	5x10,0	5x10,0
	Recommended minimum protection			C32	C40	C40
Maximum recommended pipe distance			m	50	50	40
Maximum height distance		Evaporator above	m	12	12	12
		Evaporator below	m	12	12	12
Which pipes needs to be insulated		Suction / liquid / both		Suction	Suction	Suction
Recommended insulation thickness			mm	13	13	19
Maximum quantity of evaporators connected			Qty.	10	10	5
Evaporation temperature		Min ~ Max	°C	-15 ~ 10	-15 ~ 10	-35 ~ -10
Ambient temperature		Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | SUPER QUIET | 43 °C AMBIENT TEMPERATURE | AUTOMATIC FAN | CUSTOMIZATION OPTIONS | BMS CONNECTIVITY

iCOOL OCU/SCU Series · R448A / R449A / R134a / R513A

Specifications and capacity tables.

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KRC045M08	AT	32 °C	Min - Max	kW	0,6 - 3,9	0,8 - 4,7	0,9 - 5,7	— - —	0,5 - 3,4	0,6 - 4,0
		38 °C	Min - Max	kW	0,6 - 3,8	0,8 - 4,6	0,9 - 5,6	— - —	0,5 - 3,2	0,5 - 3,7
		43 °C	Min - Max	kW	0,6 - 3,8	0,7 - 4,6	0,9 - 5,6	— - —	0,4 - 2,9	0,5 - 3,4

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KRC070M08	AT	32 °C	Min - Max	kW	1,0 - 6,1	1,2 - 7,2	1,4 - 8,4	— - —	0,8 - 4,1	1,0 - 4,9
		38 °C	Min - Max	kW	0,9 - 6,0	1,2 - 7,1	1,4 - 8,3	— - —	0,8 - 3,8	0,9 - 4,5
		43 °C	Min - Max	kW	0,9 - 6,0	1,1 - 7,1	1,4 - 8,3	— - —	0,7 - 3,5	0,9 - 4,2

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KRC100M08	AT	32 °C	Min - Max	kW	1,8 - 7,9	2,2 - 9,4	2,6 - 11,1	1,1 - 4,8	1,3 - 5,8	1,6 - 7,0
		38 °C	Min - Max	kW	1,7 - 7,2	2,0 - 8,7	2,4 - 10,2	1,0 - 4,4	1,2 - 5,4	1,5 - 6,6
		43 °C	Min - Max	kW	1,5 - 6,7	1,9 - 8,0	2,3 - 9,5	0,9 - 4,1	1,1 - 5,1	1,4 - 6,1

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KSC120M08	AT	32 °C	Min - Max	kW	2,4 - 9,8	3,0 - 11,9	3,7 - 14,3	1,6 - 5,5	2,1 - 6,8	2,6 - 8,3
		38 °C	Min - Max	kW	2,1 - 9,0	2,7 - 10,8	3,4 - 13,1	1,5 - 5,1	1,9 - 6,3	2,4 - 7,8
		43 °C	Min - Max	kW	2,0 - 8,5	2,5 - 10,3	3,1 - 12,5	1,4 - 4,8	1,8 - 6,0	2,2 - 7,3

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KSC150M08	AT	32 °C	Min - Max	kW	3,4 - 12,1	4,2 - 14,7	5,2 - 17,6	2,1 - 8,4	2,5 - 10,0	3,0 - 12,0
		38 °C	Min - Max	kW	3,1 - 10,8	3,8 - 13,0	4,7 - 15,6	1,9 - 7,6	2,3 - 9,1	2,8 - 11,0
		43 °C	Min - Max	kW	2,8 - 9,7	3,5 - 11,8	4,3 - 14,2	1,7 - 7,0	2,1 - 8,5	2,6 - 10,2

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KSC160M08	AT	32 °C	Min - Max	kW	2,3 - 13,2	2,9 - 16,3	3,6 - 19,8	1,7 - 9,0	2,2 - 10,9	2,8 - 13,2
		38 °C	Min - Max	kW	2,0 - 11,8	2,6 - 14,6	3,2 - 17,9	1,6 - 8,3	2,0 - 10,1	2,6 - 12,3
		43 °C	Min - Max	kW	1,9 - 10,7	2,4 - 13,3	3,0 - 16,4	1,5 - 7,8	1,9 - 9,5	2,4 - 11,5

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KSC190M08	AT	32 °C	Min - Max	kW	2,3 - 15,2	2,9 - 18,7	3,6 - 22,7	1,7 - 10,7	2,2 - 13,1	2,8 - 15,6
		38 °C	Min - Max	kW	2,1 - 13,5	2,6 - 16,7	3,2 - 20,5	— - —	2,0 - 11,9	2,6 - 14,6
		43 °C	Min - Max	kW	— - —	2,4 - 15,2	3,0 - 18,8	— - —	1,9 - 11,5	2,4 - 14,5

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KSC240M08	AT	32 °C	Min - Max	kW	3,4 - 19,8	4,3 - 24,2	5,3 - 29,3	2,7 - 14,4	3,2 - 17,2	3,9 - 20,5
		38 °C	Min - Max	kW	3,1 - 17,5	3,9 - 21,5	4,8 - 26,2	2,4 - 13,0	3,0 - 15,7	3,6 - 18,8
		43 °C	Min - Max	kW	2,9 - 15,7	3,5 - 19,5	4,4 - 23,8	2,2 - 12,0	2,7 - 14,5	3,3 - 17,5

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KSC280M08	AT	32 °C	Min - Max	kW	3,3 - 17,5	4,3 - 27,5	5,3 - 32,8	2,7 - 16,4	3,2 - 19,5	3,9 - 23,3
		38 °C	Min - Max	kW	3,1 - 20,6	3,9 - 24,7	4,8 - 29,5	2,4 - 14,9	3,0 - 17,8	3,6 - 21,4
		43 °C	Min - Max	kW	— - —	3,5 - 22,6	4,4 - 27,0	— - —	2,7 - 16,5	3,3 - 20,0

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KSC400M08	AT	32 °C	Min - Max	kW	5,0 - 32,9	6,5 - 39,7	8,4 - 48,0	2,8 - 19,6	3,5 - 23,9	4,3 - 29,0
		38 °C	Min - Max	kW	4,8 - 30,1	5,9 - 36,3	7,5 - 43,7	2,5 - 18,0	3,1 - 22,0	3,9 - 26,6
		43 °C	Min - Max	kW	4,4 - 28,0	5,4 - 33,6	6,7 - 40,4	2,2 - 16,8	2,8 - 20,4	3,5 - 24,7

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KSC420M08	AT	32 °C	Min - Max	kW	5,0 - 35,0	6,5 - 42,2	8,4 - 50,7	2,8 - 20,7	3,5 - 25,3	4,3 - 30,7
		38 °C	Min - Max	kW	4,8 - 32,0	5,9 - 38,5	7,5 - 46,3	2,5 - 19,1	3,1 - 23,2	3,9 - 28,2
		43 °C	Min - Max	kW	4,4 - 30,0	5,4 - 35,7	6,7 - 42,8	2,2 - 17,8	2,8 - 21,6	3,5 - 26,2

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRC035L08	AT	32 °C	Min - Max	kW	0,4 - 2,8	0,5 - 3,5	0,7 - 4,2
		38 °C	Min - Max	kW	0,4 - 2,8	0,5 - 3,4	0,6 - 4,1
		43 °C	Min - Max	kW	0,4 - 2,7	0,5 - 3,3	0,6 - 4,0

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRC050L08	AT	32 °C	Min - Max	kW	1,2 - 4,4	1,5 - 5,4	1,9 - 6,6
		38 °C	Min - Max	kW	1,1 - 4,0	1,4 - 4,9	1,7 - 6,0
		43 °C	Min - Max	kW	1,0 - 3,6	1,3 - 4,5	1,6 - 5,4

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KSC090L08	AT	32 °C	Min - Max	kW	1,7 - 6,8	2,2 - 8,5	2,8 - 10,6
		38 °C	Min - Max	kW	1,4 - 6,3	1,9 - 7,9	2,5 - 10,0
		43 °C	Min - Max	kW	1,2 - 5,9	1,6 - 7,4	2,2 - 9,3

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KSC140L08	AT	32 °C	Min - Max	kW	1,7 - 11,6	2,2 - 14,2	2,8 - 17,5
		38 °C	Min - Max	kW	1,4 - 10,5	1,9 - 13,0	2,5 - 16,1
		43 °C	Min - Max	kW	1,2 - 9,7	1,6 - 12,1	2,2 - 15,0

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
SCU-KSC160M08	AT	32 °C	Min - Max	kW	2,3 - 13,2	2,9 - 16,3	3,6 - 19,8	1,7 - 8,9	2,2 - 10,8	2,8 - 13,1
		38 °C	Min - Max	kW	2,1 - 11,8	2,6 - 14,6	3,2 - 17,9	1,6 - 8,2	2,0 - 10,0	2,6 - 12,2
		43 °C	Min - Max	kW	1,9 - 10,7	2,4 - 13,3	3,0 - 16,4	— - —	1,9 - 9,4	2,4 - 11,4

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
SCU-KSC190M08	AT	32 °C	Min - Max	kW	2,3 - 15,2	2,9 - 18,7	3,6 - 22,7	1,7 - 10,7	2,2 - 13,1	2,8 - 15,6
		38 °C	Min - Max	kW	2,1 - 13,5	2,6 - 16,7	3,2 - 20,5	— - —	2,0 - 11,9	2,6 - 14,6
		43 °C	Min - Max	kW	— - —	2,4 - 15,2	3,0 - 18,8	— - —	1,9 - 11,5	2,4 - 14,5

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
SCU-KSC090L08	AT	32 °C	Min - Max	kW	1,7 - 6,8	2,2 - 8,5	2,8 - 10,6
		38 °C	Min - Max	kW	1,4 - 6,3	1,9 - 7,9	2,5 - 9,9
		43 °C	Min - Max	kW	1,2 - 5,9	1,6 - 7,4	2,2 - 9,3

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Think beyond unit selection.

An advanced design tool that supports engineers, installers, and technicians in designing advanced systems for commercial refrigeration installations: http://www.panasonicproclub.com

iCOOL LCU/WCU Series - HFC/HFO compressor base/condensing units

INVERTER

The variation of iCOOL to meet demanding installation environment requirements.

iCOOL LCU Series MT/LT type.

Remote compressor base.

MT: From 5,1 to 38,0 kW.
LT: From 2,0 to 8,7 kW.

iCOOL WCU Series MT/LT type.

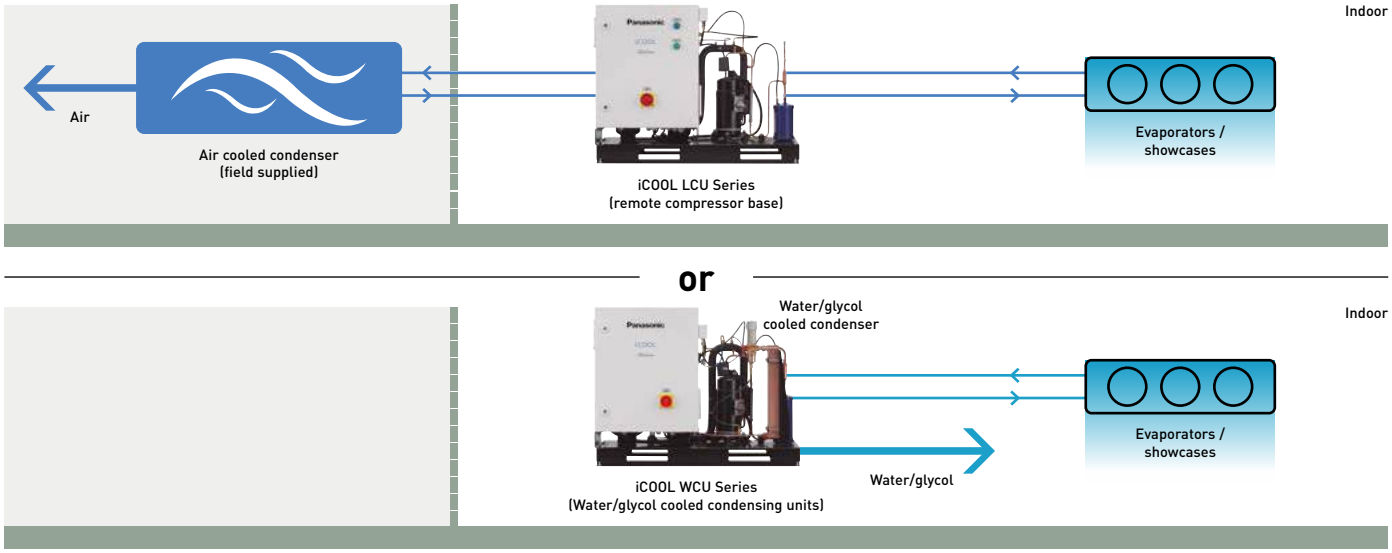
Water/glycol cooled condensing units.

MT: From 5,1 to 38,0 kW.
LT: From 2,0 to 8,7 kW.

A customisation option with a soundproof insulated housing is available for both the LCU and WCU Series.

- **NOISE REDUCTION (INDOOR INSTALLATION)**
- **NO SPACE POLLUTION (CITY-CENTRES FOCUS)**
- **AVAILABLE WITH WATER COOLED CONDENSER OPTION, FOR SHORTER INSTALLATIONS AND HEAT RECLAIM BENEFITS**

Example installation type:
Inverter units dedicated for indoor mounting.



High performance Inverter compressor base or compressor set for large, medium, and small commercial installations. Designed for mid-high or low temperature applications. Equipped with hermetic scroll or rotary compressor. Perfect for low noise and city center applications.

iCOOL LCU Series (remote compressor base) · R448A / R449A / R134a / R513A

Specifications and capacity tables.

MODEL			LCU-KRC045M08	LCU-KRC070M08	LCU-KSC100M08	LCU-KSC160M08	LCU-KSC190M08
Compressor			**Single compressor**	**Single compressor**	**Single compressor**	**Tandem compressor Inverter + ON / OFF**	**Tandem compressor Inverter + ON / OFF**
Compatible refrigerants			**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**
PED category			**I**	**II**	**II**	**II**	**II**
Application			**MT**	**MT**	**MT**	**MT**	**MT**
Cooling capacity at ET -35 °C CT 45 °C	Min ~ Max	kW	—	—	—	—	—
Cooling capacity at ET -10 °C CT 45 °C	Min ~ Max	kW	0,7 - 5,1	1,0 - 7,2	2,3 - 10,0	2,3 - 16,3	2,3 - 19,6
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 400 V 50 Hz		A	4,9	7,5	12,1	19,5	24,5
Maximum operating current (in the most loaded phase at 400 V 50 Hz)		A	7,5	11,4	17,9	25,9	30,3
Maximum power consumption		kW	3,5	5,4	8,4	13,6	16,7
Dimensions	W x H x D	mm	1000 x 705 x 530	1000 x 772 x 507	1200 x 775 x 561	1300 x 874 x 662	1300 x 874 x 662
Weight		kg	85	89	124	209	211
Sound level at 10 m		dB(A)	39,0	42,0	54,0	54,0	54,0
Sound level at 10 m with housing "H" customisation option		dB(A)	36,0	39,0	51,0	51,0	51,0
Compressor	Model		C-7RVN113L0A	C-7RZ320L4ABL	C-SBS180H00B	C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G
	Volumetric flow	m^3/h	1,25 - 7,5	1,7 - 10,4	5,8 - 17,4	5,8 - 17,4 / 11,6	5,8 - 17,4 / 14,7
	Rotation range	rps	15-90	15-90	32-90	32-90	32-90
	Current – Full load amperage	A	5,8	8,7	14,7	14,7 / 8,0	15,2 / 11,9
	Current – Peak current limit / Locked rotor amperage	A	11,2 / —	15 / —	34 / —	34 / 48	34 / 66
	Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)
	Crankcase heater power consumption	W	35	40	70	2x70	2x70
Oil charge		dm^3	0,7 + 0,4	0,7 + 0,4	2,0 + 0,4	2,0 + 1,7 + 2x0,4	2,0 + 1,7 + 2x0,4
Connections	Suction	Inch	5/8	3/4	7/8	1 1/8	1 1/8
	Liquid	Inch	3/8	3/8	1/2	5/8	5/8
Liquid receiver		dm^3	3,9	7,1	10,0	14	14
CU power supply	Voltage	V / Hz	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)
	Recommended minimum cable cross-section	mm^2	5x2,5	5x2,5	5x4,0	5x6,0	5x10,0
	Recommended minimum protection		C16	C16	C25	C32	C40
Maximum recommended pipe distance		m	40	40	40	50	50
Maximum height distance	Evaporator above	m	12	12	12	12	12
	Evaporator below	m	12	12	12	12	12
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	Suction	Suction
Recommended insulation thickness		mm	13	13	13	13	13
Maximum quantity of evaporators connected		Qty.	5	5	7	10	10
Evaporation temperature	Min ~ Max	°C	-15 ~ 5	-15 ~ 5	-15 ~ 10	-15 ~ 10	-15 ~ 10
Ambient temperature	Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | BMS CONNECTIVITY

MODEL				LCU-KSC280M08	LCU-KSC400M08	LCU-KRC020L08	LCU-KRC035L08	LCU-KRC050L08	LCU-KSC090L08
Compressor				**Tandem compressor Inverter + ON / OFF**	**Tandem compressor Inverter + ON / OFF**	**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**
Compatible refrigerants				**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A**	**R448A, R449A**	**R448A, R449A**	**R448A, R449A**
PED category				**II**	**II**	**II**	**I**	**II**	**II**
Application				**MT**	**MT**	**LT**	**LT**	**LT**	**LT**
Cooling capacity at ET -35 °C CT 45 °C		Min ~ Max	kW	—	—	0,2 - 1,6	0,3 - 2,4	1,0 - 4,3	1,8 - 6,9
Cooling capacity at ET -10 °C CT 45 °C		Min ~ Max	kW	4,6 - 27,7	5,4 - 38,0	—	—	—	—
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 400 V 50 Hz			A	28,7	36,9	3,9	6,1	11,7	18,9
Maximum operating current (in the most loaded phase at 400 V 50 Hz)			A	38,4	51	5,7	8,4	14,9	27,9
Maximum power consumption			kW	20,4	26,6	2,7	3,9	7,0	13,1
Dimensions	W x H x D		mm	1650 x 975 x 649	1860 x 975 x 890	1000 x 705 x 530	1000 x 705 x 530	1000 x 772 x 536	1300 x 705 x 530
Weight			kg	301	380	85	85	132	159
Sound level at 10 m			dB(A)	52,0	55,0	39,0	42,0	50,0	55,0
Sound level at 10 m with housing "H" customisation option			dB(A)	49,0	52,0	36,0	39,0	47,0	52,0
Compressor	Model			C-SBVN373L0B/ C-SCN603H8T	4CC149NA04/ C-SCN753H8T	C-7RVN113L0A	C-7RZ320L4ABL	C-9RZ580L4AAL	ACC144NA03
	Volumetric flow		m^3/h	7,7 - 24,6 / 23,6	10,7 - 39,3/30,3	1,25 - 7,5	1,7 - 10,4	5,2 - 18,7	10,0 - 37,6
	Rotation range		rps	31-80	21-75	15-90	15-90	25-90	25-72
	Current	Full load amperage	A	18,4 / 16,0	26,0 / 19,4	4,4	6,4	10	22,9
		Peak current limit/Locked rotor amperage	A	46/80	52/96	11,2/—	15/—	28/—	46/—
	Oil type			FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV32S (PVE)
	Crankcase heater power consumption		W	2x90	2x90	35	35	35	2x90
Oil charge			dm^3	2,0+2,8+2x0,6	2x2,8+2,0	0,7+0,4	0,7+0,4	2,1+0,4	2,5+0,4
Connections	Suction		Inch	1 3/8	1 5/8	5/8	7/8	7/8	1 1/8
	Liquid		Inch	7/8	7/8	3/8	3/8	3/8	5/8
Liquid receiver			dm^3	14	30	3,9	3,9	7,1	14
CU power supply	Voltage		V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)
	Recommended minimum cable cross-section		mm^2	5x10,0	5x16,0	5x2,5	5x2,5	5x4,0	5x6,0
	Recommended minimum protection			C50	C63	C16	C16	C25	C32
Maximum recommended pipe distance			m	70	70	40	40	40	40
Maximum height distance		Evaporator above	m	12	12	12	12	12	12
		Evaporator below	m	12	12	12	12	12	12
Which pipes needs to be insulated		Suction / liquid / both		Suction	Suction	Suction	Suction	Suction	Suction
Recommended insulation thickness			mm	13	13	13	19	19	19
Maximum quantity of evaporators connected			Qty.	10	20	5	5	5	5
Evaporation temperature		Min ~ Max	°C	-15 ~ 10	-15 ~ 10	-35 ~ 5	-35 ~ -15	-35 ~ -15	-35 ~ -10
Ambient temperature		Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | BMS CONNECTIVITY

iCOOL WCU Series (water/glycol cooled condensing units) · R448A / R449A / R134a / R513A

Specifications and capacity tables.

MODEL				WCU-KRC045M08	WCU-KRC070M08	WCU-KSC100M08	WCU-KSC160M08	WCU-KSC190M08
Compressor				**Single compressor**	**Single compressor**	**Single compressor**	**Tandem compressor Inverter + ON / OFF**	**Tandem compressor Inverter + ON / OFF**
Compatible refrigerants				**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**
PED category				**I**	**I**	**II**	**II**	**II**
Application				**MT**	**MT**	**MT**	**MT**	**MT**
Cooling capacity at ET -35 °C WT 30 °C / CT 40 °C		Min ~ Max	kW	—	—	—	—	—
Cooling capacity at ET -10 °C WT 30 °C / CT 40 °C		Min ~ Max	kW	0,7 - 5,4	1,1 - 7,7	2,8 - 11,1	2,8 - 18,1	2,8 - 21,8
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 400 V 50 Hz			A	4,9	7,5	12,1	19,5	24,5
Maximum operating current (in the most loaded phase at 400 V 50 Hz)			A	7,5	11,4	17,9	25,9	30,3
Maximum power consumption			kW	3,5	5,4	8,4	13,6	16,7
Dimensions	W x H x D		mm	1000 x 705 x 530	1000 x 772 x 507	1200 x 775 x 561	1300 x 874 x 662	1300 x 874 x 662
Weight			kg	90	94	134	219	221
Sound level at 10 m			dB(A)	39,0	42,0	54,0	54,0	54,0
Sound level at 10 m with housing "H" customisation option			dB(A)	36,0	39,0	51,0	51,0	51,0
Compressor	Model			C-7RVN113L0A	C-7RZ320L4ABL	C-SBS180H00B	C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G
	Volumetric flow		m^3/h	1,25 - 7,5	1,7 - 10,4	5,8 - 17,4	5,8 - 17,4 / 11,6	5,8 - 17,4 / 14,7
	Rotation range		rps	15 - 90	15 - 90	32 - 90	32 - 90	32 - 90
	Current	Full load amperage	A	5,8	8,7	14,7	14,7/8,0	15,2/11,9
		Peak current limit / Locked rotor amperage	A	11,2/—	15/—	34/—	34/48	34/66
	Oil type			FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)
	Crankcase heater power consumption		W	35	40	70	2x70	2x70
Oil charge			dm^3	0,7+0,4	0,7+0,4	2,0+0,4	2,0+1,7+2x0,4	2,0+1,7+2x0,4
Connections	Suction		Inch	5/8	3/4	7/8	1 1/8	1 1/8
	Liquid		Inch	3/8	3/8	1/2	5/8	5/8
Liquid receiver			dm^3	3,9	7,1	10,0	14	14
CU power supply	Voltage		V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)
	Recommended minimum cable cross-section		mm^2	5x2,5	5x2,5	5x4,0	5x6,0	5x10,0
	Recommended minimum protection			C16	C16	C25	C32	C40
Maximum recommended pipe distance			m	40	40	40	50	50
Maximum height distance		Evaporator above	m	12	12	12	12	12
		Evaporator below	m	12	12	12	12	12
Which pipes needs to be insulated		Suction / liquid / both		Suction	Suction	Suction	Suction	Suction
Recommended insulation thickness			mm	13	13	13	13	13
Maximum quantity of evaporators connected			Qty.	5	5	7	10	10
Evaporation temperature		Min ~ Max	°C	-15 ~ 5	-15 ~ 5	-15 ~ 10	-15 ~ 10	-15 ~ 10
Ambient temperature		Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43
Plate heat exchanger connections		Inlet	Inch	1/2	1/2	1	1	1
		Outlet	Inch	3/4	3/4	1/2	1	1

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | BMS CONNECTIVITY

MODEL			WCU-KSC280M08	WCU-KSC400M08	WCU-KRC020L08	WCU-KRC035L08	WCU-KRC050L08	WCU-KSC090L08
Compressor			**Tandem compressor Inverter + ON / OFF**	**Tandem compressor Inverter + ON / OFF**	**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**	**Single Inverter compressor**
Compatible refrigerants			**R448A, R449A, R134a, R513A**	**R448A, R449A, R134a, R513A**	**R448A, R449A**	**R448A, R449A**	**R448A, R449A**	**R448A, R449A**
PED category			**II**	**II**	**I**	**I**	**I**	**II**
Application			**MT**	**MT**	**LT**	**LT**	**LT**	**LT**
Cooling capacity at ET -35 °C WT 30 °C / CT 40 °C	Min ~ Max	kW	—	—	0,2 - 1,7	0,3 - 2,6	1,1 - 4,6	2,0 - 7,3
Cooling capacity at ET -10 °C WT 30 °C / CT 40 °C	Min ~ Max	kW	5,0 - 30,5	5,9 - 41,0	—	—	—	—
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 400 V 50 Hz		A	28,7	36,9	3,9	6,1	11,7	18,9
Maximum operating current (in the most loaded phase at 400 V 50 Hz)		A	38,4	51	5,7	8,4	14,9	27,9
Maximum power consumption		kW	20,4	26,6	2,7	3,9	7,0	13,1
Dimensions	W x H x D	mm	1650 x 975 x 649	1860 x 975 x 890	1000 x 705 x 530	1000 x 705 x 530	1000 x 772 x 536	1300 x 705 x 530
Weight		kg	316	395	92	92	139	169
Sound level at 10 m		dB(A)	52,0	55,0	39,0	42,0	50,0	55,0
Sound level at 10 m with housing "H" customisation option		dB(A)	49,0	52,0	36,0	39,0	47,0	52,0
Compressor	Model		C-SBVN373L0B/ C-SCN603H8T	4CC149NA04/ C-SCN753H8T	C-7RVN113L0A	C-7RZ320L4ABL	C-9RZ580L4AAL	ACC144NA03
	Volumetric flow	m³/h	7,7 - 24,6 / 23,6	10,7 - 39,3/30,3	1,25 - 7,5	1,7 - 10,4	5,2 - 18,7	10,0 - 37,6
	Rotation range	rps	31 - 80	21 - 75	15 - 90	15 - 90	25 - 90	25 - 72
	Current – Full load amperage	A	18,4 / 16,0	26,0 / 19,4	4,4	6,4	10	22,9
	Current – Peak current limit / Locked rotor amperage	A	46 / 80	52 / 96	11,2 / —	15 / —	28 / —	46 / —
	Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV32S (PVE)
	Crankcase heater power consumption	W	2x90	2x90	35	35	35	2x90
Oil charge		dm³	2,0 + 2,8 + 2x0,6	2x2,8 + 2,0	0,7 + 0,4	0,7 + 0,4	2,1 + 0,4	2,5 + 0,4
Connections	Suction	Inch	1 3/8	1 5/8	5/8	7/8	7/8	1 1/8
	Liquid	Inch	7/8	7/8	3/8	3/8	3/8	5/8
Liquid receiver		dm³	14	30	3,9	3,9	7,1	14
CU power supply	Voltage	V / Hz	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)	3x400 / 50 PE+N (TN-S)
	Recommended minimum cable cross-section	mm²	5x10,0	5x16,0	5x2,5	5x2,5	5x4,0	5x6,0
	Recommended minimum protection		C50	C63	C16	C16	C25	C32
Maximum recommended pipe distance		m	70	70	40	40	40	40
Maximum height distance	Evaporator above	m	12	12	12	12	12	12
	Evaporator below	m	12	12	12	12	12	12
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	Suction	Suction	Suction
Recommended insulation thickness		mm	13	13	13	19	19	19
Maximum quantity of evaporators connected		Qty.	10	20	5	5	5	5
Evaporation temperature	Min ~ Max	°C	-15 ~ 10	-15 ~ 10	-35 ~ 5	-35 ~ -15	-35 ~ -15	-35 ~ -10
Ambient temperature	Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43
Plate heat exchanger connections	Inlet	Inch	1 1/2	1 1/2	3/4	1/2	1/2	1
	Outlet	Inch	1	1	3/4	3/4	3/4	1

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES

INVERTER+ | HIGH EFFICIENCY COMPRESSOR | BMS CONNECTIVITY

iCOOL LCU/WCU Series · R448A / R449A / R134a / R513A

Specifications and capacity tables.

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KRC045M08	CT	40 °C	Min - Max	kW	0,6 - 4,5	0,7 - 5,4	0,9 - 6,5	0,4 - 2,4	0,5 - 3,0	0,6 - 3,6
		45 °C	Min - Max	kW	0,5 - 4,2	0,7 - 5,1	0,8 - 6,1	0,4 - 2,3	0,5 - 2,8	0,5 - 3,4
		50 °C	Min - Max	kW	0,5 - 3,9	0,6 - 4,7	0,7 - 5,7	0,3 - 2,1	0,4 - 2,6	0,5 - 3,2

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KRC070M08	CT	40 °C	Min - Max	kW	0,9 - 6,4	1,1 - 7,7	1,3 - 9,3	0,5 - 3,4	0,6 - 4,2	0,7 - 5,1
		45 °C	Min - Max	kW	0,8 - 5,9	1,0 - 7,2	1,2 - 8,7	0,5 - 3,2	0,6 - 3,9	0,7 - 4,8
		50 °C	Min - Max	kW	0,7 - 5,5	0,9 - 6,7	1,1 - 8,1	0,5 - 2,9	0,5 - 3,6	0,6 - 4,5

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC100M08	CT	40 °C	Min - Max	kW	1,9 - 8,8	2,8 - 11,1	3,8 - 13,9	1,8 - 4,9	2,2 - 6,1	2,7 - 7,6
		45 °C	Min - Max	kW	1,4 - 7,7	2,3 - 10,0	3,3 - 12,7	1,6 - 4,6	2,0 - 5,8	2,5 - 7,2
		50 °C	Min - Max	kW	0,8 - 6,7	1,9 - 9,0	2,9 - 11,6	1,5 - 4,3	1,9 - 5,4	2,3 - 6,8

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC160M08	CT	40 °C	Min - Max	kW	1,9 - 14,2	2,8 - 18,1	3,8 - 22,8	1,8 - 8,8	2,2 - 10,8	2,7 - 13,3
		45 °C	Min - Max	kW	1,4 - 12,6	2,3 - 16,3	3,3 - 20,8	1,6 - 8,2	2,0 - 10,1	2,5 - 12,5
		50 °C	Min - Max	kW	0,8 - 11,1	1,9 - 14,7	2,9 - 19,0	1,5 - 7,7	1,9 - 9,5	2,3 - 11,7

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC190M08	CT	40 °C	Min - Max	kW	1,9 - 17,0	2,8 - 21,8	3,8 - 27,4	1,8 - 10,9	2,2 - 13,3	2,7 - 16,3
		45 °C	Min - Max	kW	1,4 - 15,1	2,3 - 19,6	3,3 - 25,0	1,6 - 10,1	2,0 - 12,4	2,5 - 15,3
		50 °C	Min - Max	kW	0,8 - 13,3	1,9 - 17,7	2,9 - 22,8	1,5 - 9,4	1,9 - 11,6	2,3 - 14,3

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC280M08	CT	40 °C	Min - Max	kW	4,0 - 24,5	5,0 - 30,5	6,2 - 37,9	2,0 - 15,9	2,6 - 19,9	3,3 - 24,8
		45 °C	Min - Max	kW	3,7 - 22,4	4,6 - 27,7	5,7 - 34,4	1,7 - 14,6	2,3 - 18,1	2,9 - 22,5
		50 °C	Min - Max	kW	3,3 - 20,4	4,2 - 25,2	5,2 - 31,2	1,5 - 13,3	2,0 - 16,4	2,6 - 20,4

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC400M08	CT	40 °C	Min - Max	kW	4,7 - 33,3	5,1 - 41,0	7,4 - 50,7	2,9 - 23,5	3,6 - 29,0	4,5 - 35,7
		45 °C	Min - Max	kW	4,4 - 30,9	5,4 - 38,0	6,7 - 46,8	2,7 - 21,7	3,4 - 26,7	4,2 - 32,8
		50 °C	Min - Max	kW	3,8 - 28,7	4,9 - 35,2	6,1 - 43,2	2,5 - 20,0	3,1 - 24,5	3,9 - 30,1

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
LCU-KRC020L08	CT	40 °C	Min - Max	kW	0,2 - 1,7	0,3 - 2,2	0,4 - 2,8
		45 °C	Min - Max	kW	0,2 - 1,6	0,3 - 2,0	0,3 - 2,6
		50 °C	Min - Max	kW	— - —	0,2 - 1,8	0,3 - 2,3

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
LCU-KRC035L08	CT	40 °C	Min - Max	kW	0,3 - 2,6	0,4 - 3,3	0,5 - 4,1
		45 °C	Min - Max	kW	0,3 - 2,4	0,4 - 3,0	0,5 - 3,8
		50 °C	Min - Max	kW	— - —	0,3 - 2,8	0,4 - 3,5

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
LCU-KRC050L08	CT	40 °C	Min - Max	kW	1,1 - 4,6	1,4 - 5,8	1,7 - 7,3
		45 °C	Min - Max	kW	1,0 - 4,3	1,3 - 5,4	1,6 - 6,8
		50 °C	Min - Max	kW	— - —	1,2 - 5,0	1,5 - 6,3

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
LCU-KSC090L08	CT	40 °C	Min - Max	kW	2,0 - 7,3	2,6 - 9,1	3,3 - 11,4
		45 °C	Min - Max	kW	1,8 - 6,9	2,3 - 8,7	3,0 - 10,9
		50 °C	Min - Max	kW	— - —	2,0 - 8,3	2,6 - 10,3

*ET: Evaporation Temperature. CT: Condensing Temperature.

MT	Cooling capacity at						R449A/R448A			R134a/R513A		
	ET						-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
WCU-KRC045M08	WT	15 °C	CT	30 °C	Min - Max	kW	0,7 - 5,2	0,9 - 6,3	1,0 - 7,4	0,4 - 2,6	0,5 - 3,2	0,6 - 4,0
		30 °C		40 °C	Min - Max	kW	0,6 - 4,5	0,7 - 5,4	0,9 - 6,5	0,4 - 2,4	0,5 - 3,0	0,6 - 3,6
		40 °C		50 °C	Min - Max	kW	0,5 - 3,9	0,6 - 4,7	0,7 - 5,7	0,3 - 2,1	0,4 - 2,6	0,5 - 3,2

MT	Cooling capacity at						R449A/R448A			R134a/R513A		
	ET						-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
WCU-KRC070M08	WT	15 °C	CT	30 °C	Min - Max	kW	1,1 - 7,4	1,3 - 8,9	1,6 - 10,5	0,5 - 3,7	0,6 - 4,5	0,7 - 5,5
		30 °C		40 °C	Min - Max	kW	0,9 - 6,3	1,1 - 7,7	1,3 - 9,3	0,5 - 3,4	0,6 - 4,2	0,7 - 5,1
		40 °C		50 °C	Min - Max	kW	0,7 - 5,5	0,9 - 6,7	1,1 - 8,1	0,5 - 2,9	0,5 - 3,6	0,6 - 4,5

MT	Cooling capacity at						R449A/R448A			R134a/R513A		
	ET						-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
WCU-KSC100M08	WT	15 °C	CT	30 °C	Min - Max	kW	3,3 - 11,2	4,0 - 13,7	4,8 - 16,6	2,1 - 5,5	2,6 - 6,8	3,2 - 8,5
		30 °C		40 °C	Min - Max	kW	1,9 - 8,8	2,8 - 11,1	3,8 - 13,9	1,8 - 4,9	2,2 - 6,1	2,7 - 7,6
		40 °C		50 °C	Min - Max	kW	0,8 - 6,7	1,9 - 9,0	2,9 - 11,6	1,5 - 4,3	1,9 - 5,4	2,3 - 6,8

MT	Cooling capacity at						R449A/R448A			R134a/R513A		
	ET						-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
WCU-KSC160M08	WT	15 °C	CT	30 °C	Min - Max	kW	3,3 - 17,9	4,0 - 22,2	4,8 - 27,2	2,1 - 10,1	2,6 - 12,4	3,2 - 15,1
		30 °C		40 °C	Min - Max	kW	1,9 - 14,2	2,8 - 18,1	3,8 - 22,8	1,8 - 8,8	2,2 - 10,8	2,7 - 13,3
		40 °C		50 °C	Min - Max	kW	0,8 - 11,1	1,9 - 14,7	2,9 - 19,0	1,5 - 7,7	1,9 - 9,5	2,3 - 11,7

MT	Cooling capacity at						R449A/R448A			R134a/R513A		
	ET						-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
WCU-KSC190M08	WT	15 °C	CT	30 °C	Min - Max	kW	3,3 - 21,4	4,0 - 26,6	4,8 - 32,7	2,1 - 12,5	2,6 - 15,2	3,2 - 18,6
		30 °C		40 °C	Min - Max	kW	1,9 - 17,0	2,8 - 21,8	3,8 - 27,4	1,8 - 10,9	2,2 - 13,3	2,7 - 16,3
		40 °C		50 °C	Min - Max	kW	0,8 - 13,3	1,9 - 17,7	2,9 - 22,8	1,5 - 9,4	1,9 - 11,6	2,3 - 14,3

MT	Cooling capacity at						R449A/R448A			R134a/R513A		
	ET						-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
WCU-KSC280M08	WT	15 °C	CT	30 °C	Min - Max	kW	4,7 - 29,2	5,9 - 36,9	7,4 - 46,0	2,5 - 18,8	3,3 - 23,8	4,1 - 29,9
		30 °C		40 °C	Min - Max	kW	4,0 - 24,5	5,0 - 30,5	6,2 - 37,9	2,0 - 15,9	2,6 - 19,9	3,3 - 24,8
		40 °C		50 °C	Min - Max	kW	3,3 - 20,4	4,2 - 25,2	5,2 - 31,2	1,5 - 13,3	2,0 - 16,4	2,6 - 20,4

MT	Cooling capacity at						R449A/R448A			R134a/R513A		
	ET						-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
WCU-KSC400M08	WT	15 °C	CT	30 °C	Min - Max	kW	5,1 - 38,3	6,8 - 47,7	9,2 - 59,4	3,3 - 27,4	4,2 - 34,0	5,2 - 42,0
		30 °C		40 °C	Min - Max	kW	4,7 - 33,3	5,9 - 41,0	7,4 - 50,7	2,9 - 23,5	3,6 - 29,0	4,5 - 35,7
		40 °C		50 °C	Min - Max	kW	3,8 - 28,7	4,9 - 35,2	6,1 - 43,2	2,5 - 20,0	3,1 - 24,5	3,9 - 30,1

LT	Cooling capacity at						R449A/R448A		
	ET						-35 °C	-30 °C	-25 °C
WCU-KRC020L08	WT	15 °C	CT	30 °C	Min - Max	kW	0,3 - 2,2	0,4 - 2,7	0,5 - 3,4
		30 °C		40 °C	Min - Max	kW	0,2 - 1,7	0,3 - 2,2	0,4 - 2,8
		40 °C		50 °C	Min - Max	kW	— - —	0,2 - 1,8	0,3 - 2,3

LT	Cooling capacity at						R449A/R448A		
	ET						-35 °C	-30 °C	-25 °C
WCU-KRC035L08	WT	15 °C	CT	30 °C	Min - Max	kW	0,4 - 3,3	0,5 - 4,0	0,7 - 4,9
		30 °C		40 °C	Min - Max	kW	0,3 - 2,6	0,4 - 3,3	0,5 - 4,1
		40 °C		50 °C	Min - Max	kW	— - —	0,3 - 2,8	0,4 - 3,5

LT	Cooling capacity at						R449A/R448A		
	ET						-35 °C	-30 °C	-25 °C
WCU-KRC050L08	WT	15 °C	CT	30 °C	Min - Max	kW	1,2 - 5,8	1,5 - 7,1	1,9 - 8,7
		30 °C		40 °C	Min - Max	kW	1,1 - 4,6	1,4 - 5,8	1,7 - 7,3
		40 °C		50 °C	Min - Max	kW	— - —	1,2 - 5,0	1,5 - 6,3

LT	Cooling capacity at						R449A/R448A		
	ET						-35 °C	-30 °C	-25 °C
WCU-KSC090L08	WT	15 °C	CT	30 °C	Min - Max	kW	2,6 - 8,2	3,3 - 10,1	4,2 - 12,6
		30 °C		40 °C	Min - Max	kW	2,0 - 7,3	2,6 - 9,1	3,3 - 11,4
		40 °C		50 °C	Min - Max	kW	— - —	2,0 - 8,3	2,6 - 10,3

*ET: Evaporating Temperature. WT: Water (or glycol) inlet temperature. CT: Condensing Temperature.

Customisation options for iCOOL A2L and HFC/HFO range

The series offers customisable models that meet customer requirements.

- **Factory pre-assembled options (customisation options), tested and ready-to-use options list – cutting installation time and reducing labour costs***
- **Up to 3 customisation options selectable****

*The final model name is composed with the customisation selections. **Only for iCOOL OCU/SCU Series. Available configurations vary by series. ***Blygold condenser coating.

COATING***

HEAT RECOVERY – DIRECT CONNECTIONS

HIGH PRESSURE FAN

iCOOL SE Series – A2L and HFC/HFO condensing units

Series	Application	Base model	Customisation options		Model
			Coating (C)	Heat recovery (D)	
iCOOL SE	MT	OCU-LRC100M08	Base model. No options chosen.		OCU-LRC100M08
			✔	—	OCU-LRC100M08-C
	Other iCOOL SE models are not customizable				

iCOOL OCU/SCU Series – HFC/HFO condensing units

Series	Application	Base model	Customisation options			Model
			Coating (C)	Heat recovery (D)	HP Fan (P)	
OCU	MT	OCU-KRC045M08 OCU-KRC070M08 OCU-KRC100M08	Base model. No options chosen.			OCU-KRC***M08
			✔	—	—	OCU-KRC***M08-C
			—	✔	—	OCU-KRC***M08-D
			—	—	✔	OCU-KRC***M08-P
			✔	✔	—	OCU-KRC***M08-CD
			✔	—	✔	OCU-KRC***M08-CP
			—	✔	✔	OCU-KRC***M08-DP
			✔	✔	✔	OCU-KRC***M08-CDP
		OCU-KSC120M08 OCU-KSC150M08	Base model. No options chosen.			OCU-KSC***M08
			✔	—	—	OCU-KSC***M08-C
			—	✔	—	OCU-KSC***M08-D
			—	—	✔	OCU-KSC***M08-P
			✔	✔	—	OCU-KSC***M08-CD
			✔	—	✔	OCU-KSC***M08-CP
			—	✔	✔	OCU-KSC***M08-DP
			✔	✔	✔	OCU-KSC***M08-CDP
		OCU-KSC160M08 OCU-KSC190M08 OCU-KSC240M08 OCU-KSC280M08	Base model. No options chosen.			OCU-KSC***M08
			✔	—	—	OCU-KSC***M08-C
			—	✔	—	OCU-KSC***M08-D
			✔	✔	—	OCU-KSC***M08-CD
		OCU-KSC400M08 OCU-KSC420M08	Base model. No options chosen.			OCU-KSC***M08
			—	✔	Standard	OCU-KSC***M08-D
OCU	LT	OCU-KRC035L08 OCU-KRC050L08	Base model. No options chosen.			OCU-KRC***L08
			✔	—	—	OCU-KRC***L08-C
			—	✔	—	OCU-KRC***L08-D
			—	—	✔	OCU-KRC***L08-P
			✔	✔	—	OCU-KRC***L08-CD
			✔	—	✔	OCU-KRC***L08-CP
			—	✔	✔	OCU-KRC***L08-DP
			✔	✔	✔	OCU-KRC***L08-CDP
OCU	LT	OCU-KSC090L08 OCU-KSC140L08	Base model. No options chosen.			OCU-KSC***L08
			✔	—	—	OCU-KSC***L08-C
			—	✔	—	OCU-KSC***L08-D
			✔	✔	—	OCU-KSC***L08-CD
SCU	MT	SCU-KSC160M08 SCU-KSC190M08	Base model. No options chosen.			SCU-KSC***M08
			✔	—	Standard	SCU-KSC***M08-C
			—	✔		SCU-KSC***M08-D
			✔	✔		SCU-KSC***M08-CD
	LT	SCU-KSC090L08	Base model. No options chosen.			SCU-KSC090L08
			✔	—	Standard	SCU-KSC090L08-C
			—	✔		SCU-KSC090L08-D
			✔	✔		SCU-KSC090L08-CD

iCOOL LCU/WCU Series – HFC/HFO compressor base/condensing units

Series	Application	Base model	Customisation options	Example model
			Housing (H)	
LCU	MT	LCU-KRC***M08 / LCU-KSC***M08 / LCU-KRC***L08 / LCU-KSC***L08	Base model. No options chosen.	LCU-KRC***M08
WCU	LT	WCU-KRC***M08 / WCU-KSC***M08 / WCU-KRC***L08 / WCU-KSC***L08	✔	LCU-KRC***M08-H

Accessories and compatibility – iCOOL A2L and HFC/HFO range

Oil	
Compressor oil FV68S 2,0 l.	CZ-HFC-FV68SL20
Compressor oil FV68S 500 ml.	CZ-HFC-FV68SL05

Oil	
Compressor oil FV32S 2,0 l.	CZ-HFC-FV32SL20
Compressor oil FV32S 500 ml.	CZ-HFC-FV32SL05

Accessories (can be ordered separately)

iCOOL SE Series – A2L and HFC/HFO condensing units*

Model	OCU-	LRE/KRE025M05	LRE/KRE045M05	LRE/KRE070M05	LRC100M08	LRE/KRE012L05	LRE/KRE022L05	LRE/KRE030L05
Compressor oil FV68S 2,0 l.	CZ-HFC-FV68SL20	•	•	•	•	•	•	•
Compressor oil FV68S 500 ml.	CZ-HFC-FV68SL05	•	•	•	•	•	•	•
Compressor oil FV32S 2,0 l.	CZ-HFC-FV32SL20							
Compressor oil FV32S 500 ml.	CZ-HFC-FV32SL05							

iCOOL OCU/SCU Series – HFC/HFO condensing units

Model		OCU-KRC 045M08	OCU-KRC 070M08	OCU-KRC 100M08	OCU-KSC 120M08	OCU-KSC 150M08	OCU-KSC 160M08	OCU-KSC 190M08	OCU-KSC 240M08	OCU-KSC 280M08
Compressor oil FV68S 2,0 l.	CZ-HFC-FV68SL20	•	•	•	•	•	•	•	•	•
Compressor oil FV68S 500 ml.	CZ-HFC-FV68SL05	•	•	•	•	•	•	•	•	•
Compressor oil FV32S 2,0 l.	CZ-HFC-FV32SL20									
Compressor oil FV32S 500 ml.	CZ-HFC-FV32SL05									

Model		OCU-KSC 400M08	OCU-KSC 420M08	OCU-KRC 035L08	OCU-KRC 050L08	OCU-KSC 090L08	OCU-KSC 140L08	SCU-KSC 160M08	SCU-KSC 190M08	SCU-KSC 090L08
Compressor oil FV68S 2,0 l.	CZ-HFC-FV68SL20	•	•	•	•			•	•	
Compressor oil FV68S 500 ml.	CZ-HFC-FV68SL05	•	•	•	•			•	•	
Compressor oil FV32S 2,0 l.	CZ-HFC-FV32SL20					•	•			•
Compressor oil FV32S 500 ml.	CZ-HFC-FV32SL05					•	•			•

iCOOL LCU Series – HFC/HFO compressor base units

Model		LCU-KRC 045M08	LCU-KRC 070M08	LCU-KSC 100M08	LCU-KSC 160M08	LCU-KSC 190M08	LCU-KSC 280M08	LCU-KSC 400M08	LCU-KRC 020L08	LCU-KRC 035L08	LCU-KRC 050L08	LCU-KSC 090L08
Compressor oil FV68S 2,0 l.	CZ-HFC-FV68SL20	•	•	•	•	•	•	•	•	•	•	
Compressor oil FV68S 500 ml.	CZ-HFC-FV68SL05	•	•	•	•	•	•	•	•	•	•	
Compressor oil FV32S 2,0 l.	CZ-HFC-FV32SL20											•
Compressor oil FV32S 500 ml.	CZ-HFC-FV32SL05											•

iCOOL WCU Series – HFC/HFO condensing units

Model		WCU-KRC 045M08	WCU-KRC 070M08	WCU-KSC 100M08	WCU-KSC 160M08	WCU-KSC 190M08	WCU-KSC 280M08	WCU-KSC 400M08	WCU-KRC 020L08	WCU-KRC 035L08	WCU-KRC 050L08	WCU-KSC 090L08
Compressor oil FV68S 2,0 l.	CZ-HFC-FV68SL20	•	•	•	•	•	•	•	•	•	•	
Compressor oil FV68S 500 ml.	CZ-HFC-FV68SL05	•	•	•	•	•	•	•	•	•	•	
Compressor oil FV32S 2,0 l.	CZ-HFC-FV32SL20											•
Compressor oil FV32S 500 ml.	CZ-HFC-FV32SL05											•

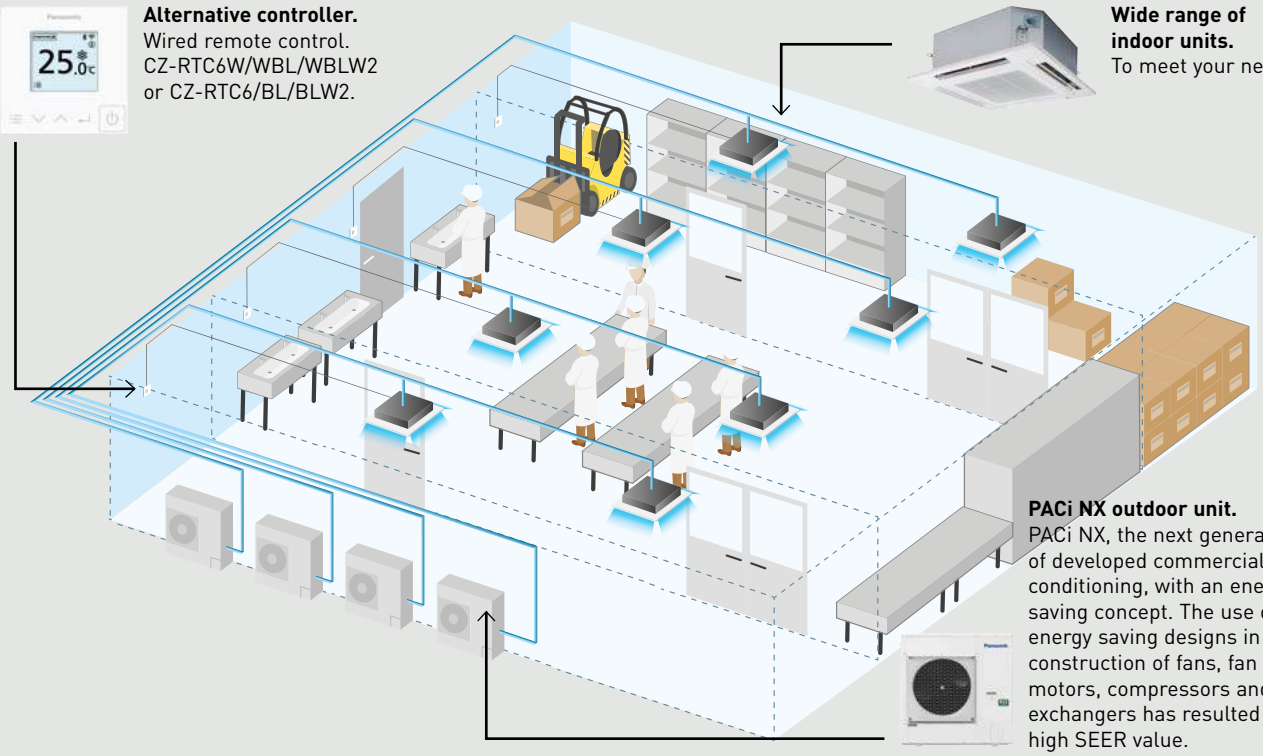
*Accessories compatibility data for iCOOL SE OCU-LRE models is tentative.

PACi NX Elite can cool rooms down to 8 °C

PACi

Panasonic PACi NX Elite offers a high quality and efficient solution for high temperature refrigeration applications for facilities such as wine cellars, food processing facilities and supermarkets.

Cooling rooms between 8 °C WB and 24 °C WB

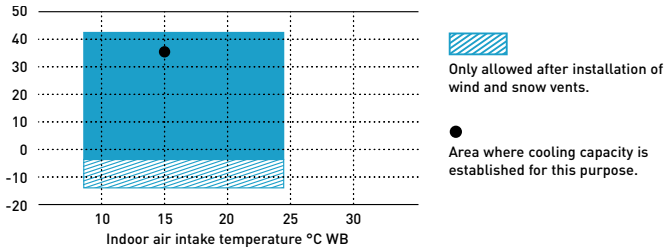


- Flexibility with different type of indoors
- Benefits of hydroxyl radicals
- Provides wide scale of control options (individual, central, remote multi-site monitoring)
- Redundancy for 2 systems with CONEX controller range and up to 4 indoor unit groups with PAW-PACR4 optional redundancy controller

Wine cellars and special high temperature rooms

One of the main features of the PACi NX series is the possibility of adjusting the product for special applications, not just for regular cooling applications. The purpose of this product information is to explain in detail these special applications that need a cooling operation to maintain the room temperature at +8 ~ +24 °C WB (or +10 ~ +30 °C DB). In order to do this in terms of enthalpy, the indoor unit needs to be overdimensioned and certain parameters need to be adjustable.

Temperature range for wine cellar.
In cooling. Outdoor air intake temperature °C DB.



Temperature range		
	Indoor	Outdoor
Cooling operation	+8 ~ +24 °C WB	-5 (-15) ~ 43 °C DB

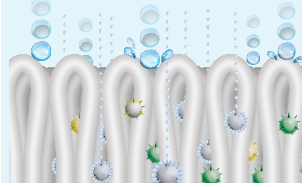
Bringing nature's balance indoors

nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.

2 | Contained in tiny water particles, nanoe™ X has a long lifespan, which is about 600 seconds, to spread easily around the room.

Huge quantity.

3 | nanoe X Generator Mark 3 produces 48 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.

The image shows nanoe X Generator Mark 3.

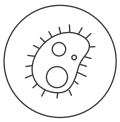
4 | No service and maintenance required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X – Panasonic unique technology

Deodorises

Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses

Mould

Allergens

Pollen

Hazardous substances

Moisturises

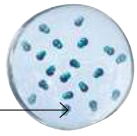
Skin and hair

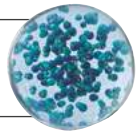
*Refer to https://aircon.panasonic.eu for more details and validation data.

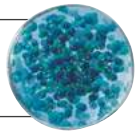
First nanoe™ device was developed by Panasonic in 2003

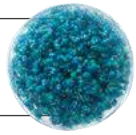
Generator: nanoe™	Generator: nanoe™ X		
2003	**Mark 1** - 2016	**Mark 2** - 2019	**Mark 3** - 2022
480 billion hydroxyl radicals/sec	4,8 trillion hydroxyl radicals/sec	9,6 trillion hydroxyl radicals/sec	48 trillion hydroxyl radicals/sec
Ion particle structure	**10x times**	**20x times**	**100x times**

Hydroxyl radicals









nanoe™ X, internationally-validated technology in testing facilities.

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Japan and China.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed. Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

	Tested contents		Generator	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Influenza (H1N1)	Mark 2	98,3% inhibited	30 m³	1,5 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2003WT8888-00889
		Bacteriophage ΦX174	Mark 1	99,2% inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	Mark 1	99,7% inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	24_0301_1
Adhering	Virus	SARS-CoV-2	Mark 1	91,4% inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	Mark 1	99,9% inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Bacteriophage ΦX174	Mark 1	99,8% inhibited	Approx. 25 m³	8 h	Japan Food Research Laboratories	13001265005-01
		Xenotropic murine leukemia virus	Mark 1	99,999% inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Coxsackie virus (CA16)	Mark 2	99,9% inhibited	30 m³	4 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2002WT8888-00439
		Bacteriophage	**Mark 3**	98,81% inhibited	Approx. 139,3 m³	4 h	SGS Inc	SHES210901902584
		MS2 Phage Virus	**Mark 3**	99,99% inhibited	Approx. 25 m³	2 h	Shokukanken, Inc.	227131N
	Bacteria	Staphylococcus aureus	Mark 1	99,9% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Cedar pollen	**Mark 3**	99% inhibited	Approx. 24 m³	12 h	Panasonic Product Analysis Center	H21YA017-1
		Ambrosia pollen	Mark 1	99,4% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Mark 1	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04
			Mark 3	Odour intensity reduced 1,7 levels	Approx. 139,3 m³	0,5 h	SGS Inc	SHES210901902478

Meets the requirements of VDI 6022 and HACCP

Certified under VDI 6022, meeting one of the strictest hygiene requirements on the market for HVAC systems, and aligned with HACCP-based food-safety practices.

VDI 6022 – Part 5 [1] Certification.

Avoidance of allergenic exposure.
Inhibits a wide range of harmful bacteria, viruses, mould, pollen and allergens.

VDI 6022 – Part 1 [1] & 1.1 [2] Certification.

Ventilation and indoor-air quality.
Panasonic nanoe™ X technology improving indoor air quality.

HACCP Food Safety Certified [3] – Europe's first HVAC manufacturer.

1) Certification mark only valid for nanoe X Generator Mark 3. 2) Certification mark only valid for nanoe X Generator Mark 2 and Mark 3. 3) Applicable to PACi NX and ECOi indoor units equipped with nanoe X Generator Mark 3.

nanoe™ X: improving protection 24/7.

Acts to clean the work area, such as meat or fish handling in hotel kitchens, food handling in industrial processes, laboratories, wine cellars, etc. So that the indoor environment can be a cleaner and more pleasant place to be all day long and keep the processes in better bacterial conditions.
nanoe™ X works together with the cooling function when during the day but can work independently when the area is not occupied.
Give the system the strength to increase the protection of persons, air, colds stuffs and working surfaces with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App.

Cleans the air even when there is no work activity.
Leave the nanoe™ X mode ON to inhibit certain pollutants and deodorize before start the work activity again.

Improves your environment and better protects the products handled when you are or not at work.
Enjoy a cleaner comfortable space both when working indoors and simply when it comes to better protecting products in the cold room.

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment

Wall-mounted.
Built-in nanoe X Generator Mark 3.

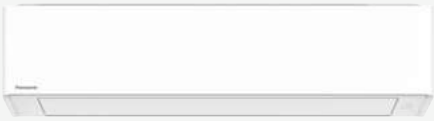
Ceiling.
Built-in nanoe X Generator Mark 2.

4 Way 90x90 cassette.
Built-in nanoe X Generator Mark 1.

Adaptive ducted unit.
Built-in nanoe X Generator Mark 2.

PACi NX Series Elite wall-mounted - PK4 · R32

For light refrigeration applications.



nanoe™ X as a standard.

							High temperature				
KIT				36	50	60	71	100	125	140
INDOOR UNIT - 1				S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E
INDOOR UNIT - 2							S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E
OUTDOOR UNIT				U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH4E5/8	U-100PZH4E5/8	U-125PZH4E5/8	U-140PZH4E5/8
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,90	8,80	11,60	13,00
		EER		4,27	3,83	3,45	3,40	3,15	3,41	3,61
		Input power	kW	0,82	1,28	1,68	2,03	2,79	3,40	3,60
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,01	10,56	11,83
		EER		3,96	3,55	3,21	3,16	2,93	3,17	3,35
		Input power	kW	0,80	1,25	1,65	1,99	2,73	3,33	3,53
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,28	6,96	7,80
		EER		3,28	2,94	2,66	2,62	2,42	2,62	2,78
		Input power	kW	0,64	1,00	1,31	1,58	2,18	2,65	2,81
Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	7,04	9,42	12,41	13,91
		EER		4,96	4,45	3,75	3,69	3,66	3,97	4,20
		Input power	kW	0,75	1,18	1,58	1,91	2,57	3,13	3,31
	Indoor 12 °C (WB)	Cooling capacity	kW	3,43	4,80	5,39	6,42	8,62	11,37	12,74
		EER		4,65	4,17	3,49	3,44	3,43	3,71	3,93
		Input power	kW	0,74	1,15	1,55	1,87	2,51	3,06	3,24
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,28	6,96	7,80
		EER		3,66	3,28	2,88	2,83	2,70	2,92	3,09
		Input power	kW	0,57	0,90	1,21	1,46	2,15	2,38	2,52
Indoor unit		Dimension (H x W x D)	mm	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249
		Net weight	kg	14	14	14	14	14	14	14
		nanoe X Generator		Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3
Outdoor unit		Dimension (H x W x D)	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
		Net weight	kg	42	42	43	66	84	86	86

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3	Infrared remote controller

Accessories	
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor

Technical focus

- Modern, flat design with a stylish matte white finish featuring
- DC fan for better efficiency and control
- Five-direction automatic air flow adjustment for cooling and heating
- Six directional piping outlet
- Quiet operation
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

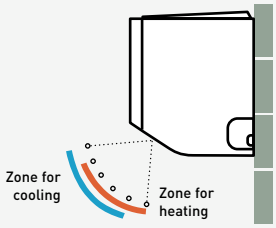
Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making the installation work more flexible.

Air distribution is automatically altered depending on the operational mode of the unit



PACi NX Series Elite 4 way 90x90 cassette - PU3 · R32

For light refrigeration applications.

nanoe™ X as a standard.

							High temperature					
KIT				36	50	60	71	100	125	140	200	250
INDOOR UNIT - 1				S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
INDOOR UNIT - 2				—	—	—	—	—	—	S-1014PU3E	S-1014PU3E	S-1014PU3E
OUTDOOR UNIT				U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH4E5/8	U-100PZH4E5/8	U-125PZH4E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,90	8,80	11,60	13,00	18,50	23,20
		EER		5,12	4,05	3,81	3,67	4,09	3,47	3,82	3,38	2,97
		Input power	kW	0,68	1,21	1,52	1,88	2,15	3,34	3,40	5,48	7,82
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,01	10,56	11,83	16,84	21,11
		EER		4,78	3,76	3,54	3,41	3,80	3,22	3,55	3,13	2,75
		Input power	kW	0,67	1,19	1,49	1,84	2,11	3,27	3,33	5,37	7,66
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,28	6,96	7,80	11,10	13,92
		EER		3,96	3,12	2,94	2,82	3,15	2,67	2,94	2,60	2,28
		Input power	kW	0,53	0,94	1,19	1,47	1,68	2,61	2,65	4,27	6,10
Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	7,04	9,42	12,41	13,91	20,17	25,29
		EER		5,99	4,71	4,14	3,98	4,76	4,04	4,45	4,00	3,51
		Input power	kW	0,63	1,11	1,43	1,77	1,98	3,07	3,13	5,04	7,19
	Indoor 12 °C (WB)	Cooling capacity	kW	3,43	4,80	5,39	6,42	8,62	12,41	12,74	18,50	23,20
		EER		5,60	4,41	3,86	3,71	4,46	4,04	4,16	3,75	3,30
		Input power	kW	0,61	1,09	1,40	1,73	1,94	3,07	3,06	4,93	7,04
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,28	6,96	7,80	11,10	13,92
		EER		4,41	3,47	3,18	3,06	3,51	2,98	3,28	2,89	2,54
		Input power	kW	0,48	0,85	1,09	1,35	1,51	2,34	2,38	3,84	5,47
Indoor unit		Dimension (H x W x D)	mm	256x840x840	256x840x840	256x840x840	319x840x840	319x840x840	319x840x840	319x840x840	319x840x840	319x840x840
		Net weight	kg	19	19	20	25	25	25	25	25	25
		nanoe X Generator		Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1
Outdoor unit		Dimension (H x W x D)	mm	695x875x320	695x875x320	695x875x320	996x980x370	996x980x370	996x980x370	996x980x370	996x1140x460	996x1140x460
		Net weight	kg	42	42	43	66	84	86	86	109	109

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRU3	Infrared remote controller and receiver

Accessories	
CZ-KPU3A	Econavi exclusive panel, white (RAL9003)
CZ-KPU3B	Standard panel, graphite black (RAL9011)
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-FDU3 + CZ-ATU2	Fresh air-intake kit

Technical focus

- High performance turbo fan
- Econavi: An optional intelligent sensor to reduce waste of energy
- nanoe™ X (Generator Mark 1: 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X plus dry operation
- Graphite black and white panels providing options to suit a variety of light commercial applications
- Lower noise in low fan operation
- Light weight, easy piping and integrated drain pump for quick installation
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3 + CZ-ATU2)

White and graphite black panels available for the 4 way 90x90 cassette.

Standard panel, white (RAL9003).
CZ-KPU3

Econavi panel, white (RAL9003).
CZ-KPU3A

Standard panel, graphite black (RAL9011).
CZ-KPU3B

PACi NX Series Elite ceiling - PT3 · R32

For light refrigeration applications.

nanoe™ X as a standard.

				High temperature								
KIT				36	50	60	71	100	125	140	200	250
INDOOR UNIT - 1				S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
INDOOR UNIT - 2				—	—	—	—	—	—	S-1014PT3E	S-1014PT3E	S-1014PT3E
OUTDOOR UNIT				U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH4E5/8	U-100PZH4E5/8	U-125PZH4E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,60	8,80	11,20	13,00	18,50	23,20
		EER		4,67	3,71	3,63	3,53	3,76	3,15	3,40	3,32	2,92
		Input power	kW	0,75	1,32	1,60	1,87	2,34	3,56	3,82	5,57	7,94
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,01	8,01	10,19	11,83	16,84	21,11
		EER		4,33	3,45	3,37	3,28	3,49	2,92	3,16	3,08	2,71
		Input power	kW	0,74	1,29	1,57	1,83	2,29	3,49	3,74	5,46	7,78
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	3,96	5,28	6,72	7,80	11,10	13,92
		EER		3,59	2,86	2,79	2,71	2,89	2,42	2,62	2,55	2,25
		Input power	kW	0,59	1,03	1,25	1,46	1,83	2,78	2,98	4,34	6,19
Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	6,73	9,42	11,98	13,91	20,17	25,29
		EER		5,43	4,32	3,93	3,83	4,37	3,66	3,96	3,94	3,46
		Input power	kW	0,69	1,21	1,50	1,76	2,15	3,28	3,51	5,12	7,30
	Indoor 12 °C (WB)	Cooling capacity	kW	3,43	4,80	5,39	6,14	8,62	10,98	12,74	18,50	23,20
		EER		5,08	4,04	3,66	3,57	4,09	3,43	3,71	3,69	3,25
		Input power	kW	0,68	1,19	1,47	1,72	2,11	3,20	3,44	5,01	7,15
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	3,96	5,28	6,72	7,80	11,10	13,92
		EER		4,00	3,18	3,02	2,94	3,22	2,70	2,92	2,85	2,50
		Input power	kW	0,53	0,92	1,15	1,35	1,64	2,49	2,67	3,90	5,56
Indoor unit		Dimension (H x W x D)	mm	235x1275x690	235x1275x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690
		Net weight	kg	34	34	40	40	40	40	40	40	40
		nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit		Dimension (H x W x D)	mm	695x875x320	695x875x320	695x875x320	996x980x370	996x980x370	996x980x370	996x980x370	996x1140x460	996x1140x460
		Net weight	kg	42	42	43	66	84	86	86	109	109

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function

Accessories	
CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor

Technical focus

- Wide air distribution for large rooms
- Horizontal air flow reaches maximum 9,5 m
- Fresh air connection available on the unit
- Slim design with 235 mm height fits narrow space
- Silent operation
- nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Further comfort improvement with air flow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.
The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, increasing the degree of comfort.

PACi NX Series Elite adaptive ducted unit - PF3 · R32

For light refrigeration applications.

nanoe™ X as a standard.

				High temperature								
KIT				36	50	60	71	100	125	140	200	250
INDOOR UNIT - 1				S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
INDOOR UNIT - 2				—	—	—	—	—	—	S-1014PF3E	S-1014PF3E	S-1014PF3E
OUTDOOR UNIT				U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH4E5/8	U-100PZH4E5/8	U-125PZH4E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,60	8,80	11,20	13,00	18,50	23,20
		EER		3,98	3,20	3,52	3,37	3,79	3,21	3,59	3,50	3,08
		Input power	kW	0,88	1,53	1,65	1,96	2,32	3,49	3,62	5,29	7,54
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,01	8,01	10,19	11,83	16,84	21,11
		EER		3,69	2,97	3,26	3,13	3,52	2,98	3,33	3,25	2,86
		Input power	kW	0,86	1,50	1,62	1,92	2,27	3,42	3,55	5,18	7,39
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	3,96	5,28	6,72	7,80	11,10	13,92
		EER		3,06	2,46	2,70	2,59	2,92	2,47	2,76	2,69	2,37
		Input power	kW	0,69	1,19	1,29	1,53	1,81	2,72	2,82	4,13	5,88
Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	6,73	9,42	11,98	13,91	20,17	25,29
		EER		4,63	3,72	3,81	3,65	4,41	3,73	4,18	4,14	3,65
		Input power	kW	0,81	1,41	1,55	1,84	2,13	3,21	3,33	4,87	6,94
	Indoor 12 °C (WB)	Cooling capacity	kW	3,43	4,80	5,39	6,14	8,62	10,98	12,74	18,50	23,20
		EER		4,33	3,49	3,55	3,40	4,13	3,49	3,91	3,89	3,42
		Input power	kW	0,79	1,38	1,52	1,80	2,09	3,14	3,26	4,76	6,79
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	3,96	5,28	6,72	7,80	11,10	13,92
		EER		3,41	2,75	2,93	2,81	3,25	2,75	3,08	3,00	2,64
		Input power	kW	0,62	1,07	1,19	1,41	1,62	2,44	2,53	3,70	5,28
Indoor unit		Dimension (H x W x D)	mm	250x1000x730	250x1000x730	250x1000x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730
		Net weight	kg	30	30	30	39	39	39	39	39	39
		nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit		Dimension (H x W x D)	mm	695x875x320	695x875x320	695x875x320	996x980x370	996x980x370	996x980x370	996x980x370	996x1140x460	996x1140x460
		Net weight	kg	42	42	43	66	84	86	84	109	109

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform

Accessories	
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy saving sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E
PAW-APF800F	BION air pollutant filter for S-3650PF3E
PAW-APF1000F	BION air pollutant filter for S-6071PF3E
PAW-APF1400F	BION air pollutant filter for S-1014PF3E

Technical focus

- 2 installation possibilities (horizontal / vertical)
- Maximum external static pressure: 150 Pa
- Selectable inlet air position (rear / bottom entry)
- Improved drain pan suitable for both horizontal / vertical installation
- Drain pump included
- nanoe™ X (Generator Mark 2: 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
- BION air pollutant filter for certain types of pollutants, such as nitrogen dioxide (NO_2), nitrogen oxides (NO_x) and Ozone (O_3) (optional)
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®

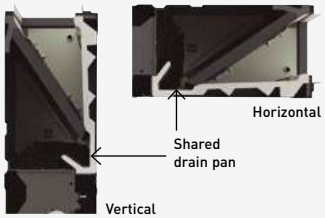
*The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.

2 installation possibilities (horizontal / vertical)

Vertical installation is available. External static pressure 150 Pa, sufficient for remotely installing units away from the rooms.

Improved drain pan design

Just one drain pan for both horizontal and vertical installations. No need to modify the unit.



PACi NX Jet Air Stream · R32

For light refrigeration applications.

				High temperature	
KIT				**140**	**250**
INDOOR UNIT [1]				**P-VTVF140**	**P-VTVF250**
OUTDOOR UNIT				**U-140PZH4E5/8**	**U-250PZH4E8**
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	14,85	23,77
		EER		2,41	3,17
		Input power	kW	6,15	7,49
	Indoor 12 °C (WB)	Cooling capacity	kW	13,56	21,70
		EER		2,25	2,95
		Input power	kW	6,03	7,34
	Indoor 8 °C (WB)	Cooling capacity	kW	11,83	18,93
		EER		2,02	2,65
		Input power	kW	5,87	7,14
Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	15,94	25,51
		EER		2,54	3,33
		Input power	kW	6,28	7,65
	Indoor 12 °C (WB)	Cooling capacity	kW	14,49	23,19
		EER		2,35	3,09
		Input power	kW	6,16	7,50
	Indoor 8 °C (WB)	Cooling capacity	kW	12,46	19,94
		EER		2,08	2,73
		Input power	kW	6,00	7,30
Indoor unit		Dimension (H x W x D)	mm	802 x 1105 x 893	1026 x 1458 x 953
		Net weight	kg	88	130
Outdoor unit		Dimension (H x W x D)	mm	996 x 980 x 370	996 x 1140 x 460
		Net weight	kg	86	109

1) The CONEX controller CZ-RTC6 (-BL/-BLW2) is not required.

Optional configurations*		**Front panel type**	**Air flow (m³/h)**
P-VTVF140NC5-PE	Jet Air Stream Standard	Manual nozzles	2500
P-VTVF250NC5-PE	Jet Air Stream Standard	Manual nozzles	5000
P-VTVF140PC5-PE	Jet Air Stream Ducted	Ducted front panel	2500
P-VTVF250PC5-PE	Jet Air Stream Ducted	Ducted front panel	5000

*The product technical data is the same as Jet Air Stream Smart.

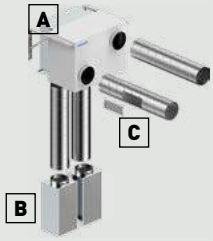
Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC2	Commercial Wi-Fi Adaptor

Accessories	
PCZ-AHRX0051	Ducted air intake plenum (1 x DN 355 mm) for VTVF140N and VTVF140P
PCZ-AHRX0052	Ducted air intake plenum (2 x DN 355 mm) for VTVF250N and VTVF250P
PCZ-AHRX0061	Ground air intake module (VTVF250 requires two of them)
PCZ-AHRX0071	Air supply grille for ducts

Accessories for remote air intake configurations.

Manual version.

Ducted version.



A: PCZ-AHRX0051 / PCZ-AHRX0052
B: PCZ-AHRX0061
C: PCZ-AHRX0071

Technical focus

- Energy saving solution for year-round heating and cooling in large and high spaces
- High air volume up to 5000 m³/h and long maximum air throw distance of 30 m
- Optimal comfort with Smart Jet - self-directing nozzles

Accessories and control – PACi NX

Panels

Standard panel for 4 way 90x90 cassette, white (RAL9003).

CZ-KPU3

Econavi panel for 4 way 90x90 cassette, white (RAL9003).

CZ-KPU3A

Standard panel for 4 way 90x90 cassette, graphite black (RAL9011).

CZ-KPU3B

IAQ filter for adaptive ducted unit

*Tentative image.

BION air pollutant filter for S-3650PF3E.

PAW-APF800F

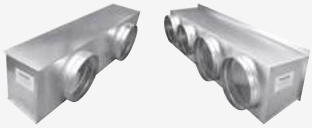
BION air pollutant filter for S-6071PF3E.

PAW-APF1000F

BION air pollutant filter for S-1014PF3E.

PAW-APF1400F

Plenums



Air outlet plenum for S-3650PF3E.

CZ-56DAF2

Air outlet plenum for S-6071PF3E.

CZ-90DAF2

Air outlet plenum for S-1014PF3E.

CZ-160DAF2

Special outdoor supports

Tray for condenser water compatible with outdoor elevation platform.

PAW-WTRAY

Outdoor elevation platform.
Dimension (H x W x D): 400 x 900 x 400 mm

PAW-GRDSTD40

Outdoor base ground support for noise and vibration absorption.
Dimension (H x W x D): 600 x 95 x 130 mm
Safe working load: 500 kg

PAW-GRDBSE20

Individual controls

CONEX wired remote controller (non-wireless), white.

CZ-RTC6W

CONEX wired remote controller with Bluetooth®, white.

CZ-RTC6WBL

CONEX wired remote controller with Wi-Fi and Bluetooth®, white.

CZ-RTC6WBLW2

CONEX wired remote controller (non-wireless), black.

CZ-RTC6

CONEX wired remote controller with Bluetooth®, black.

CZ-RTC6BL

CONEX wired remote controller with Wi-Fi and Bluetooth®, black.

CZ-RTC6BLW2

Design Wired remote controller with Econavi function.

CZ-RTC5B

Infrared remote controller for wall-mounted.

CZ-RWS3

Infrared remote controller and receiver for 4 way 90x90 cassette.

CZ-RWS3 + CZ-RWRU3

Infrared remote controller and receiver for ceiling.

CZ-RWS3 + CZ-RWRT3

Infrared remote controller and receiver for all indoor units.

CZ-RWS3 + CZ-RWRC3

Accessories PCB

PCB for server room application, control up to 4 indoor unit groups, redundancy, backup, etc.

PAW-PACR4

Sensors

Econavi energy saving sensor.

CZ-CENSC1

Fresh air-intake kit.

CZ-FDU3+CZ-ATU2

Accessories for Jet Air Stream

Ducted air intake plenum (1 x DN 355 mm) for VTVF140N and VTVF140P.

PCZ-AHRX0051

Ducted air intake plenum (2 x DN 355 mm) for VTVF250N and VTVF250P.

PCZ-AHRX0052

Ground air intake module (VTVF250 requires two of them).

PCZ-AHRX0061

Air supply grille for ducts.

PCZ-AHRX0071

Dimensions

Aquarea

All in One / with Electrical Anode K Series (185 L) → 661
All in One 2 zones K Series (185 L) → 661
All in One / with Electrical Anode K Series (260L) → 662
Bi-bloc K Series → 662
Hydraulic All in One L Series (120 L) → 663
Hydraulic All in One / with Electrical Anode L Series (185 L) → 663
Hydraulic All in One 2 zones L Series (185 L) → 664
Hydraulic Bi-bloc L Series → 664
Hydraulic All in One M Series (120 L) → 665
Hydraulic All in One / with Electrical Anode M Series (185 L) → 665
Hydraulic All in One / with Electrical Anode M Series (260 L) → 666
Hydraulic Bi-bloc M Series → 666
EcoFleX → 667
Outdoor units → 668
Aquarea Air Smart fan coils → 673
Aquarea Loop → 682
Buffer tanks → 682
Enamelled DHW tanks → 684
Stainless steel DHW tank → 686
Heat recovery ventilation unit → 687

Domestic

Wall-mounted Etherea → 688
Wall-mounted TZ super-compact → 690
Wall-mounted BZ super-compact → 692
Wall-mounted UZ super-compact → 693
Floor console → 694
Low static pressure hide-away → 695
4 Way 60x60 cassette → 696
Outdoor units Multi system → 697
RAC Solo → 700

Commercial

Wall-mounted – PK4 → 701
4 way 60x60 cassette – PY3 → 702
4 way 90x90 cassette – PU3 → 703
Ceiling – PT3 → 704
Adaptive ducted unit – PF3 → 707
Multi zone duct unit → 708
Water Heat Exchanger → 708
Big PACi – PE4 → 709
Jet Air Stream → 710
Outdoor units → 711
Wall-mounted Professional YKEA → 713

VRF Systems

Mini ECOi LZ2 Series → 715
Mini ECOi LE2 / LE1 Series → 716
2-Pipe ECOi EX MZ1 Series / 3-Pipe ECOi EX MF4 → 717
2-Pipe ECOi EX ME2 Series → 717
3-Pipe ECOi EX MF3 Series → 718
3-Pipe Control Box Kit → 719
Water Heat Exchanger → 719
U2 type 4 way 90x90 cassette → 720
Y3 type 4 way 60x60 cassette → 721
L1 type 2 way cassette → 722
D1 type 1 way cassette → 722
F3 type variable static pressure adaptive duct → 723
M2 type slim variable static pressure hide-away concealed duct → 724
E2 type high static pressure hide-away → 725
K3 type wall-mounted → 726
T2 type ceiling → 727
G1 type floor console → 728
P2 type floor-standing → 729
R2 type concealed floor-standing → 730
Hydrokit for ECOi, water at 45 °C → 731

Ventilation

AHU connection kit → 732
Advanced energy recovery ventilation - ZY Series → 732
ERV with DX coil - HRPT Series → 733
Electric air curtain → 735
Air curtain with DX coil → 736
E2 type high static pressure hide-away → 736
Ceiling mounted air-e → 737
Heat recovery ventilation unit → 737

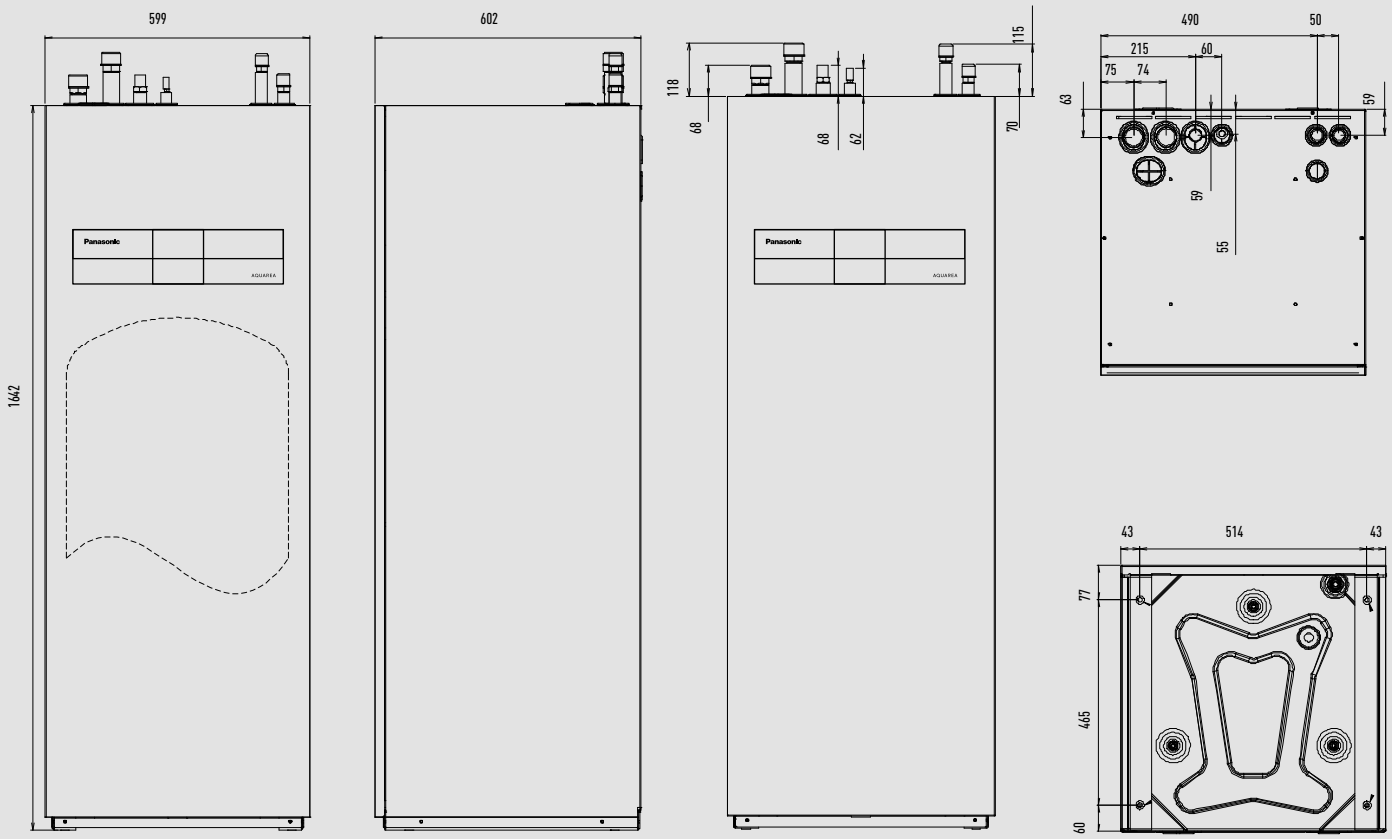
Connectivity

Commercial Wi-Fi Adaptor → 738
CONEX wired remote controller → 738
Design wired remote controller → 738
Econavi sensor → 738
Remote sensor → 738
Intelligent controller (touch screen/web server) → 738
Infrared remote controller → 738
System controller with weekly timer → 739
Local adaptor for ON / OFF control → 739
Communication adaptor → 739
Central ON / OFF controller → 739
Mini Seri-Para I/O Unit 0 -10 V → 739

Refrigeration

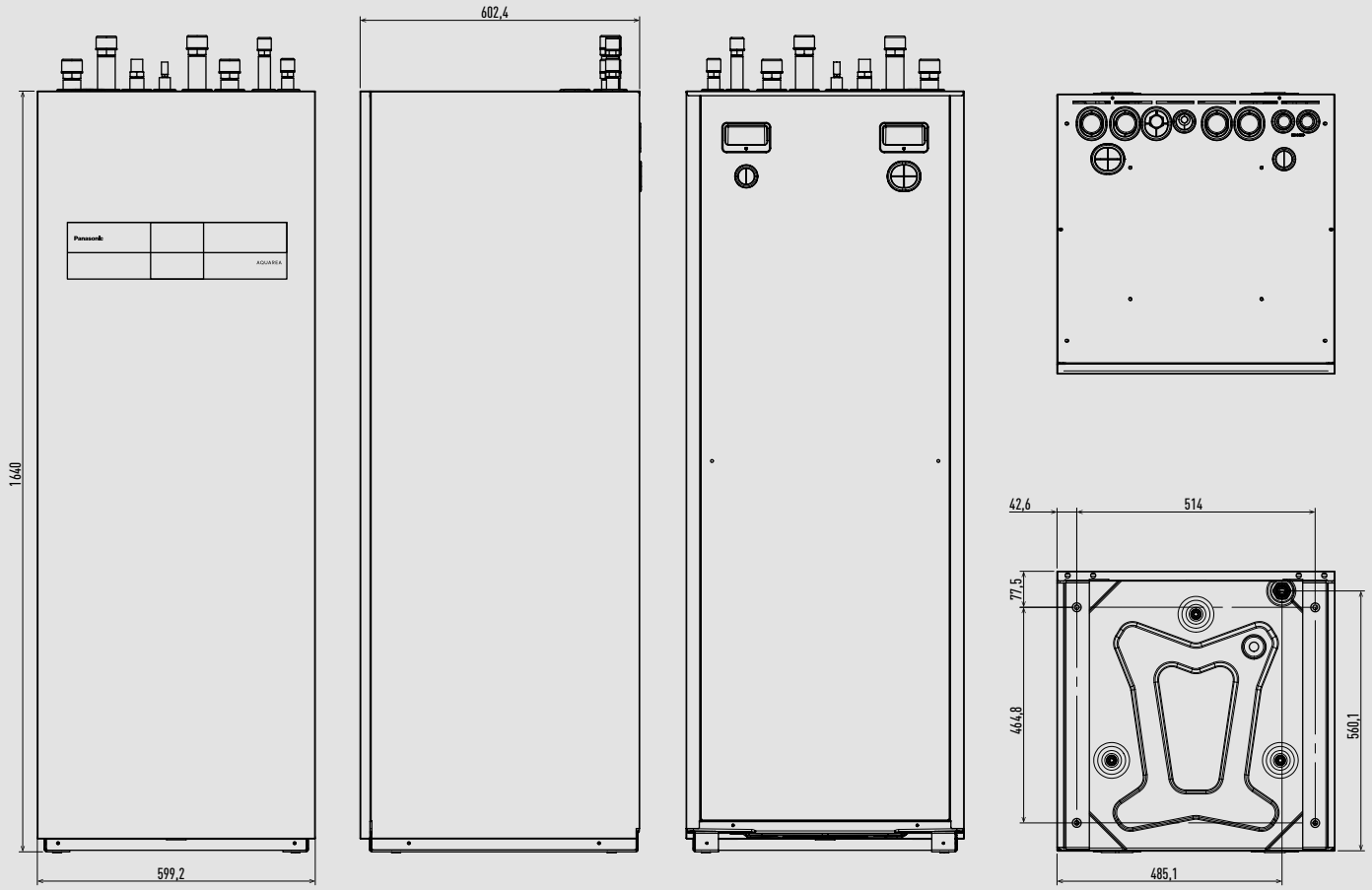
iCO2RE OCU-CR CO_2 Series → 740
iCO2RE OCU-CRC Custom-fit CO_2 Series → 742
iCOOL SE Series → 744
iCOOL OCU Series → 746
iCOOL SCU Series → 752
iCOOL LCU Series → 752
iCOOL WCU Series → 757

Aquarea All in One / with Electrical Anode K Series (185 L).



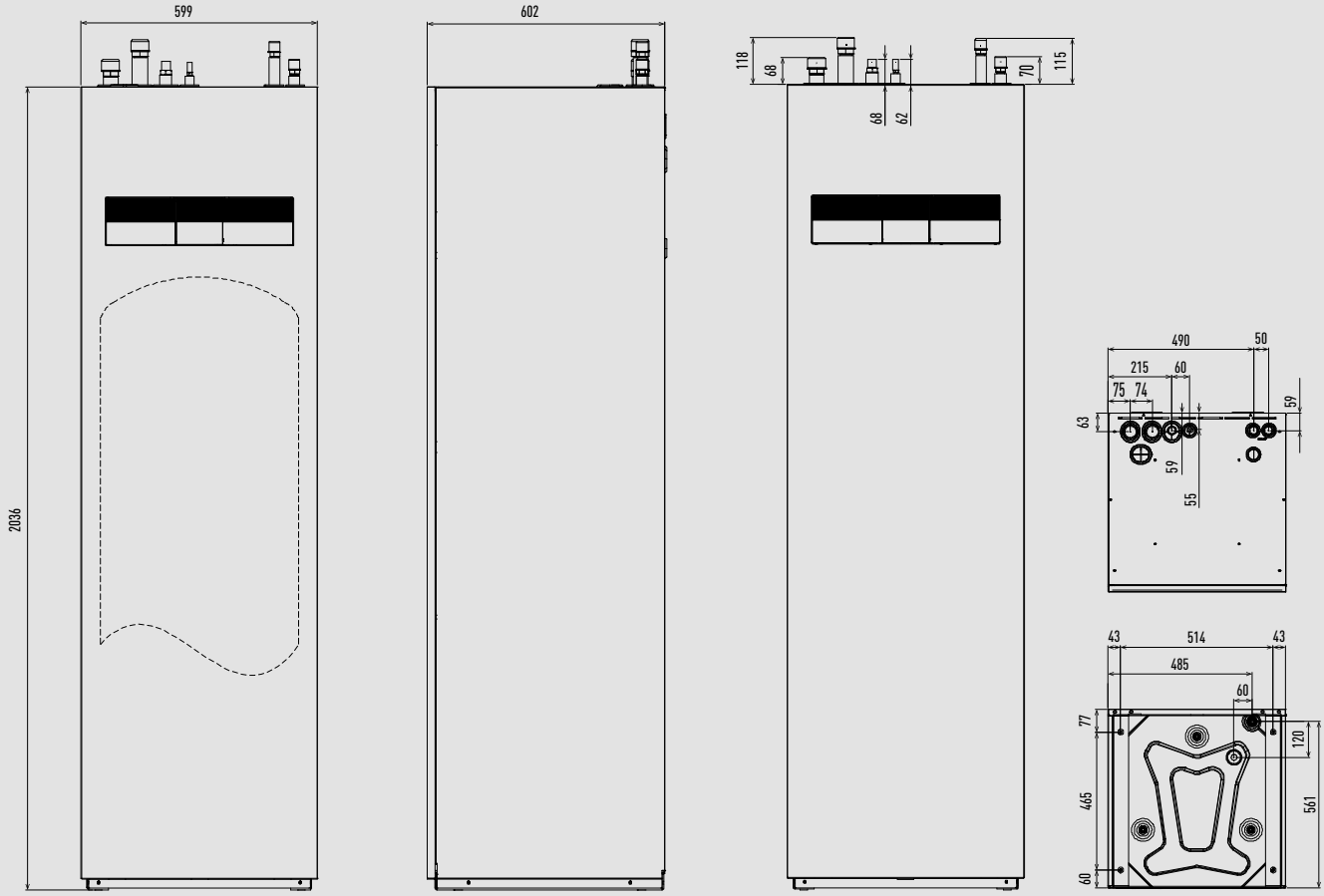
Unit: mm

Aquarea All in One 2 zones K Series (185 L).



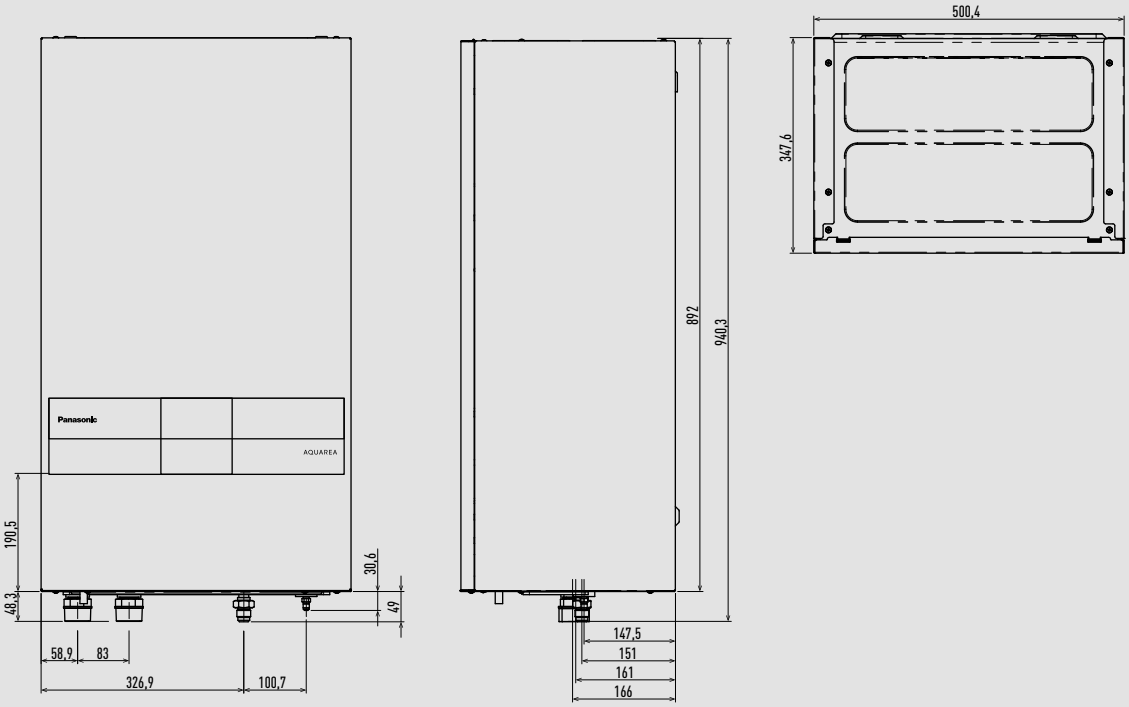
Unit: mm

Aquarea All in One / with Electrical Anode K Series (260L).



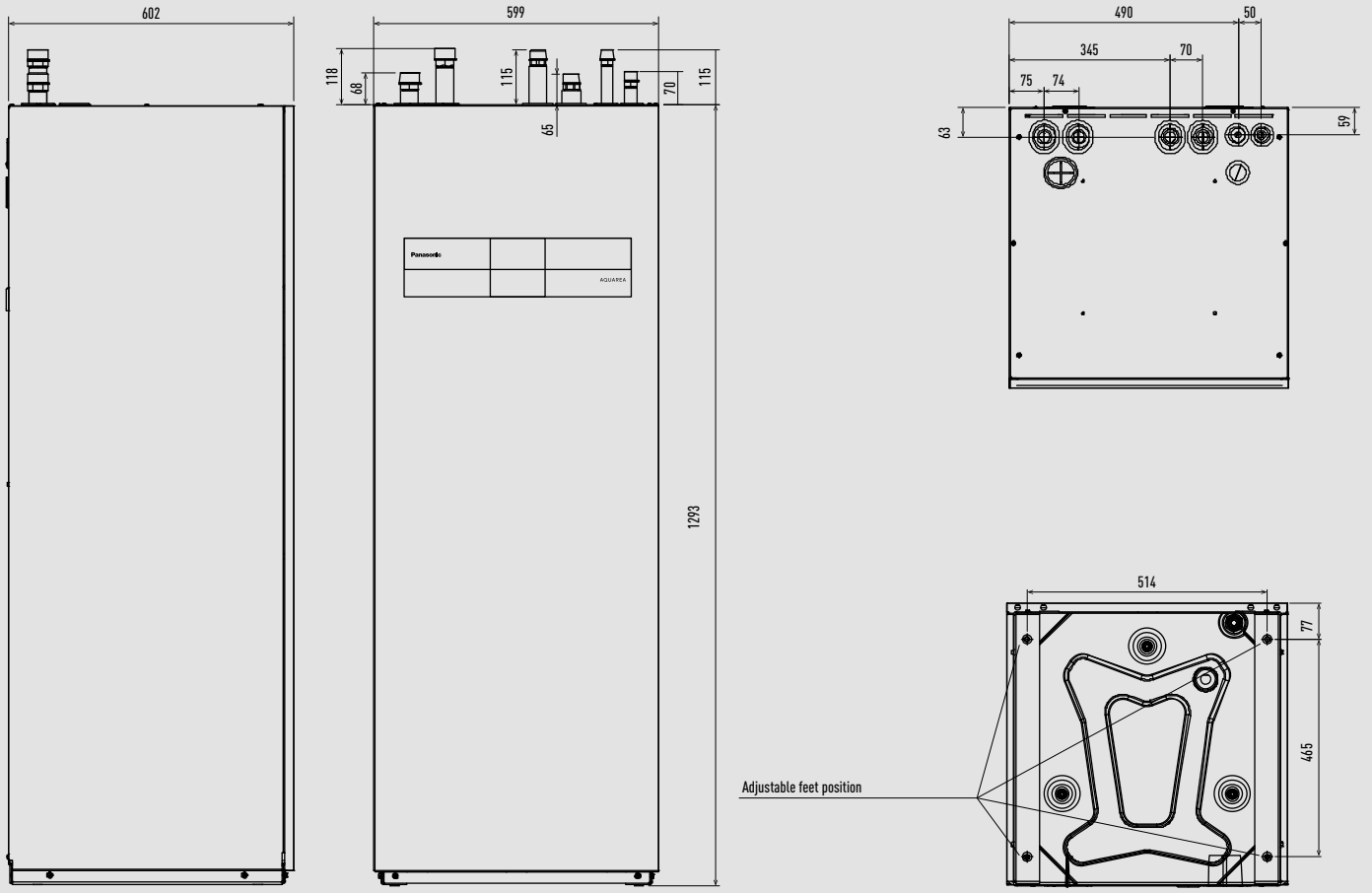
Unit: mm

Aquarea Bi-bloc K Series.



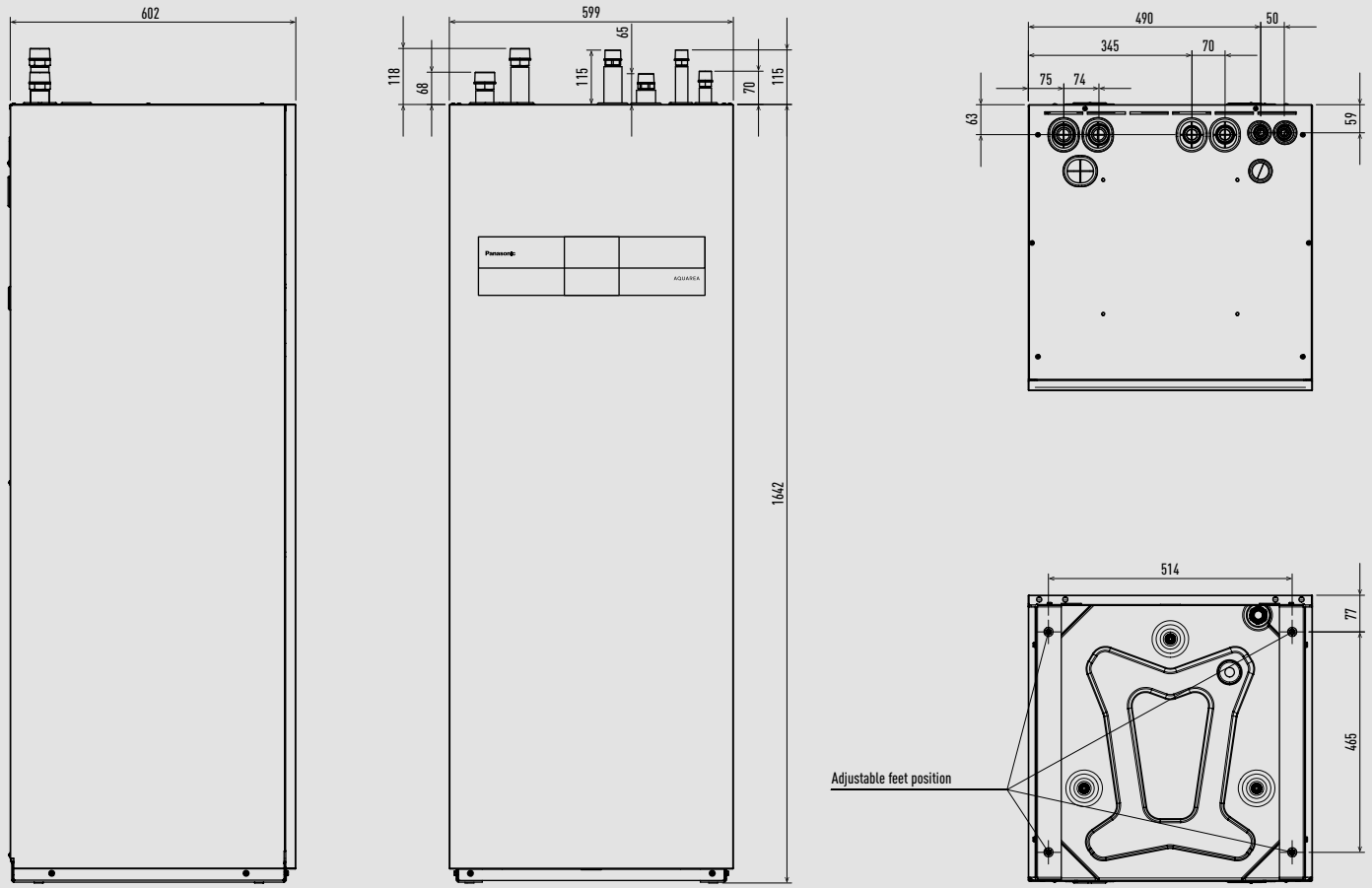
Unit: mm

Aquarea Hydraulic All in One L Series (120 L).



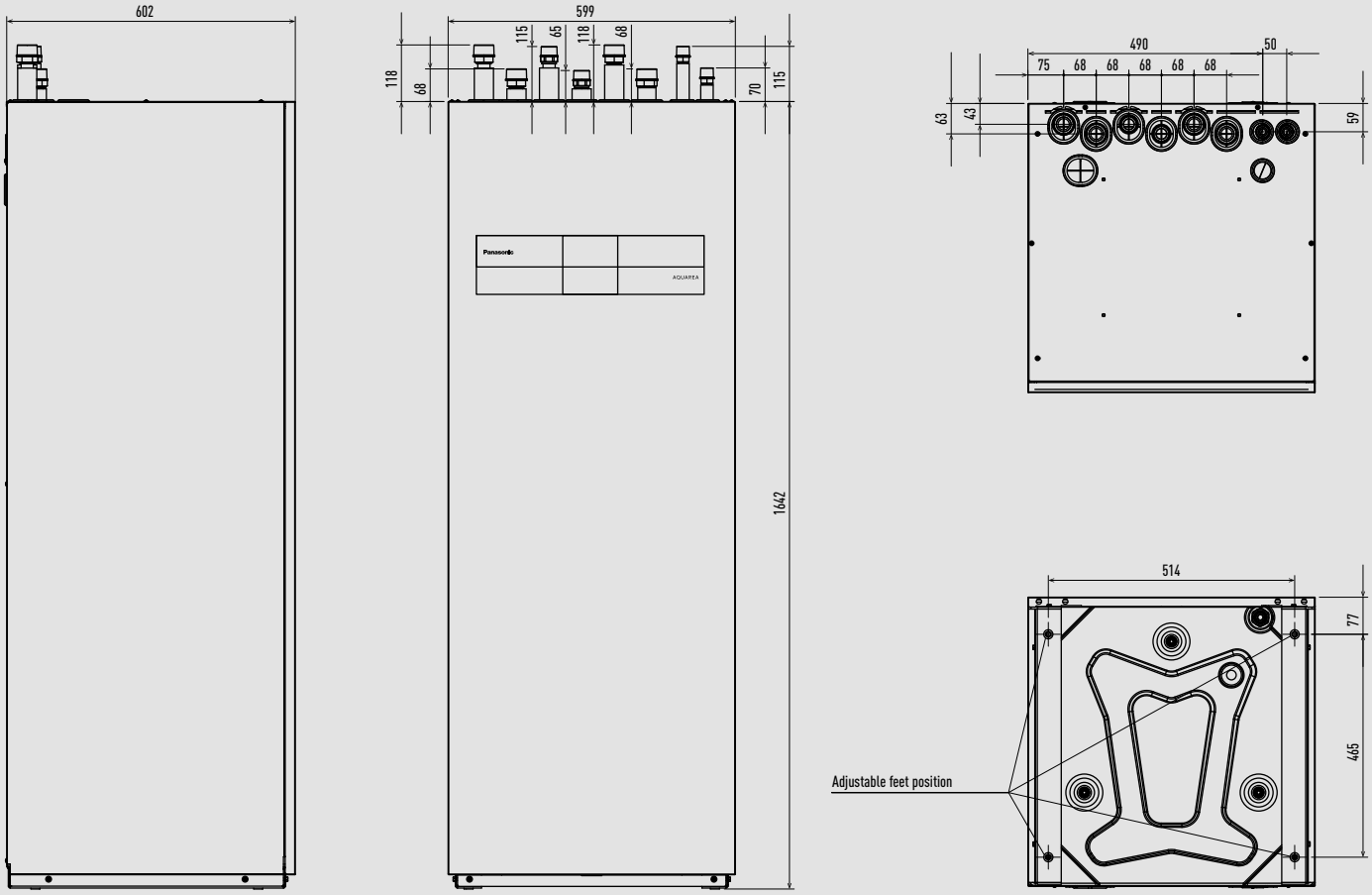
Unit: mm

Aquarea Hydraulic All in One / with Electrical Anode L Series (185 L).



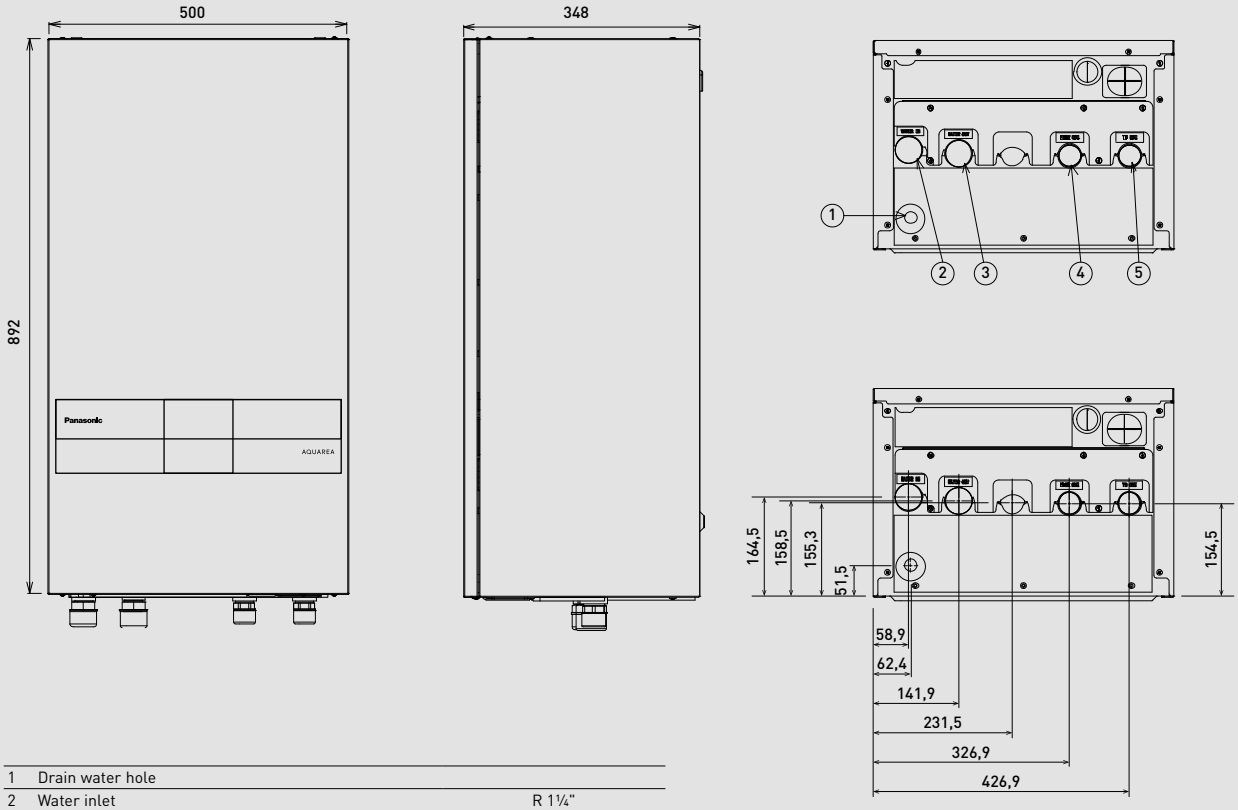
Unit: mm

Aquarea Hydraulic All in One 2 zones L Series (185 L).



Unit: mm

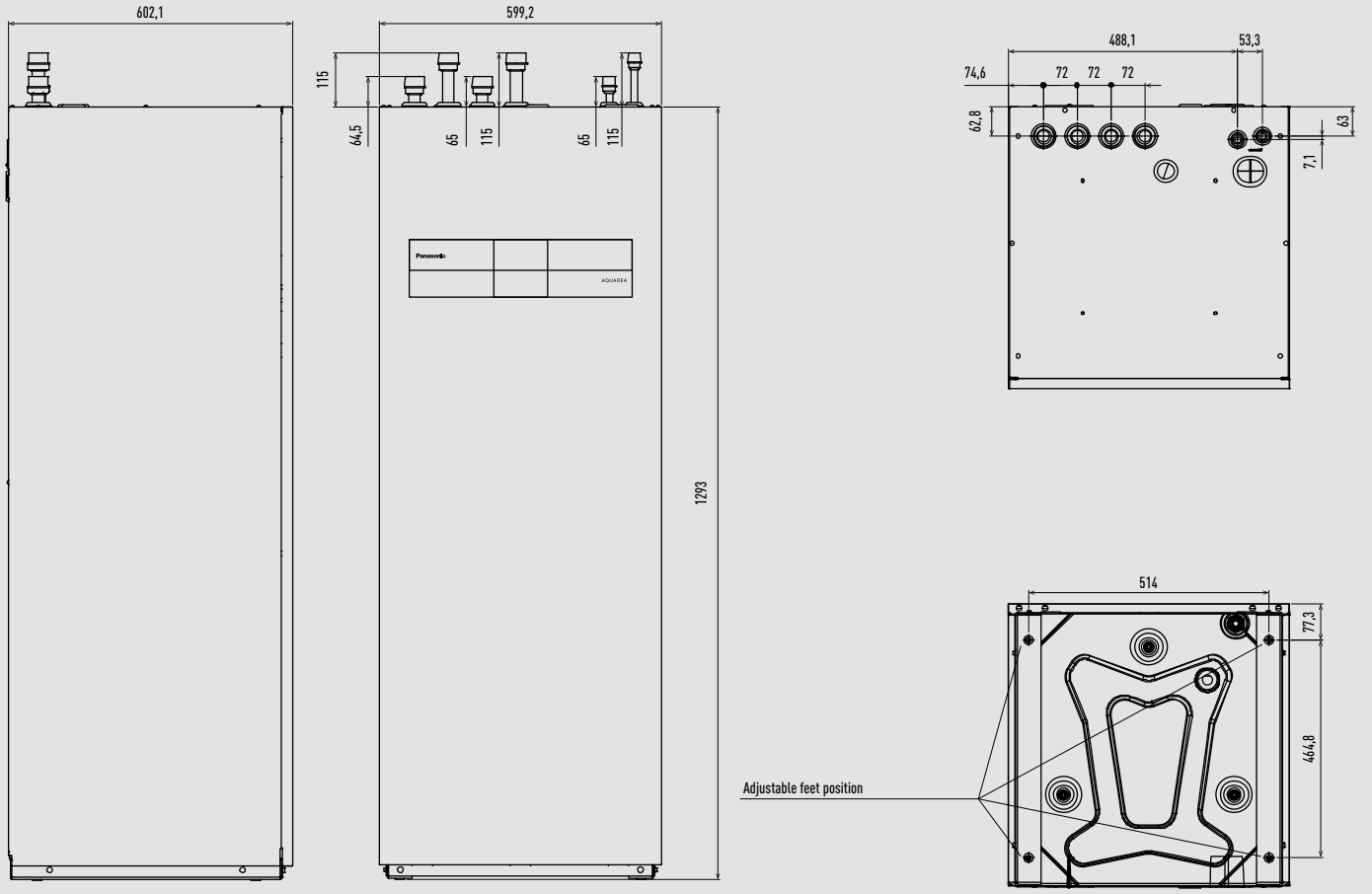
Aquarea Hydraulic Bi-bloc L Series.



1	Drain water hole	
2	Water inlet	R 1¼"
3	Water outlet	R 1¼"
4	Water inlet (from outdoor unit)	R1"
5	Water outlet (to outdoor unit)	R1"

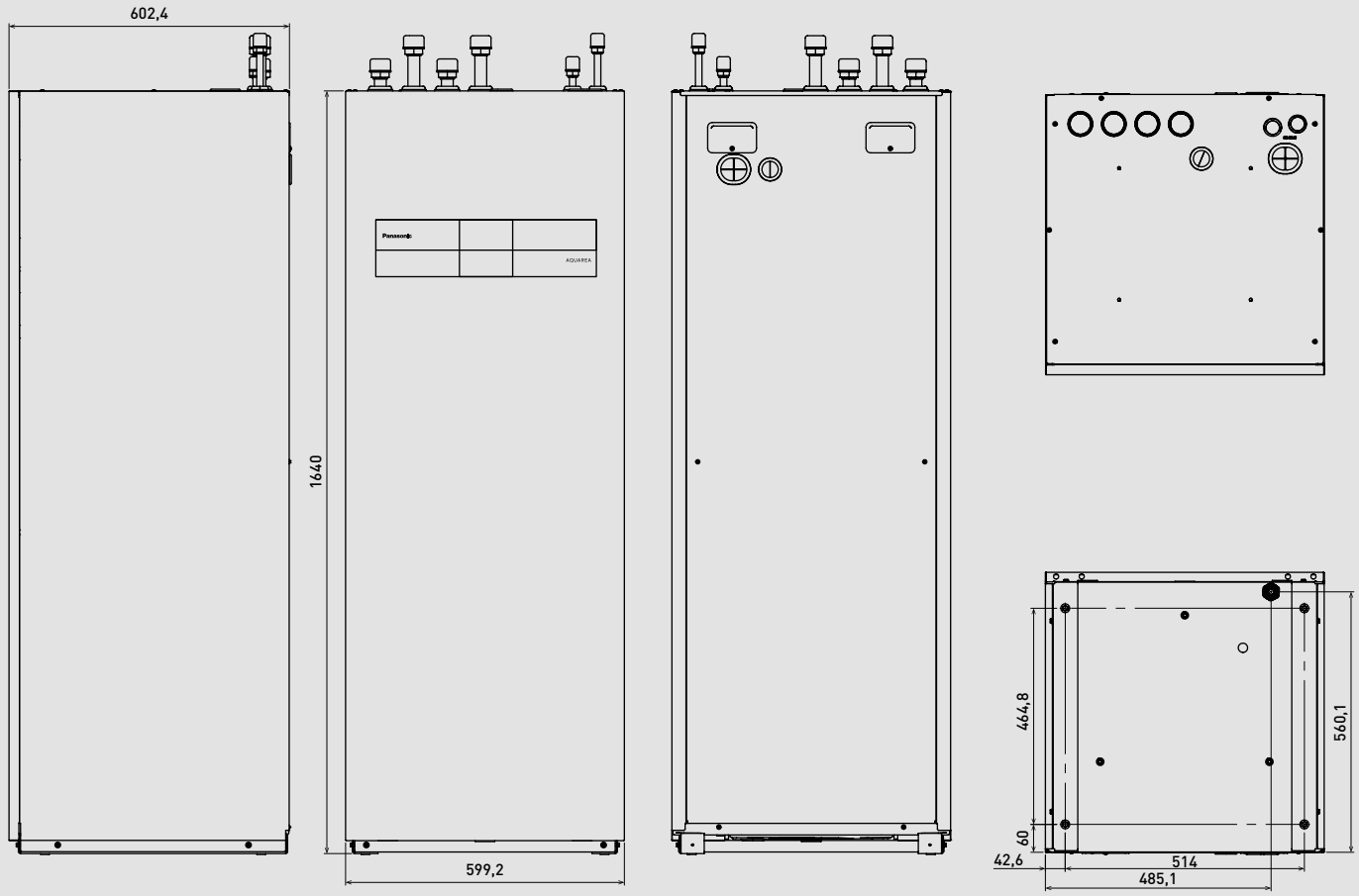
Unit: mm

Aquarea Hydraulic All in One M Series (120 L).



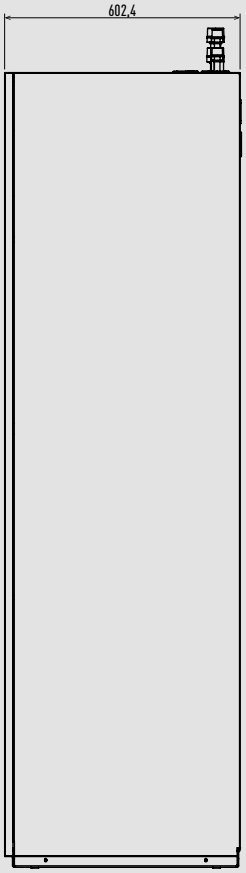
Unit: mm

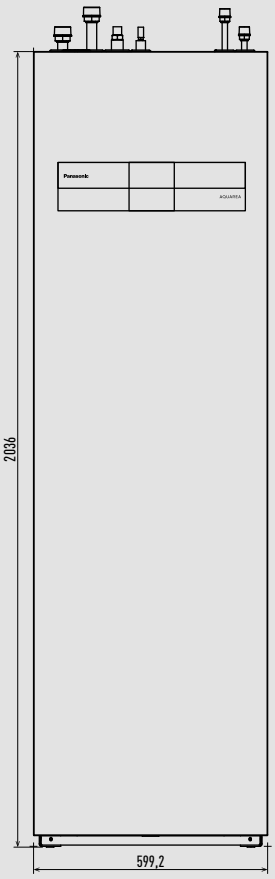
Aquarea Hydraulic All in One / with Electrical Anode M Series (185 L).

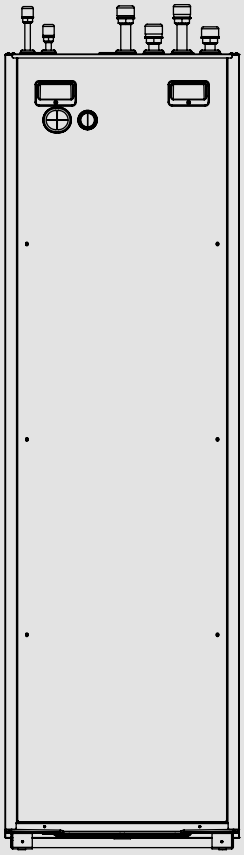


Unit: mm

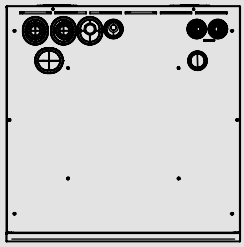
Aquarea Hydraulic All in One / with Electrical Anode M Series (260 L).

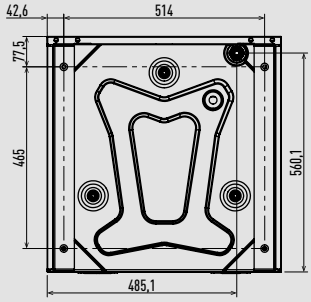






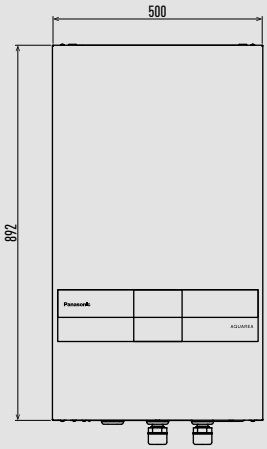
WH-ADC**M9E8*3

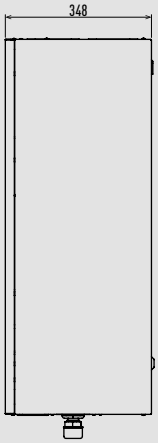


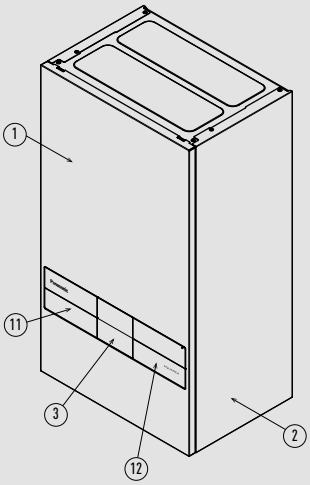


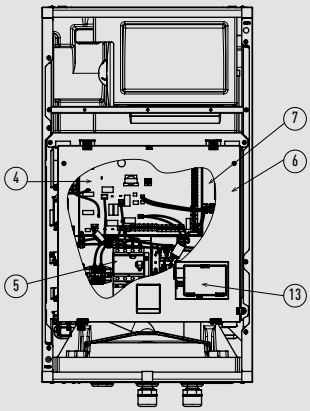
Unit: mm

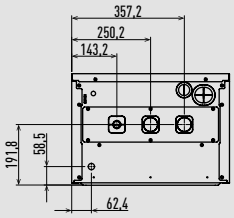
Aquarea Hydraulic Bi-bloc M Series.

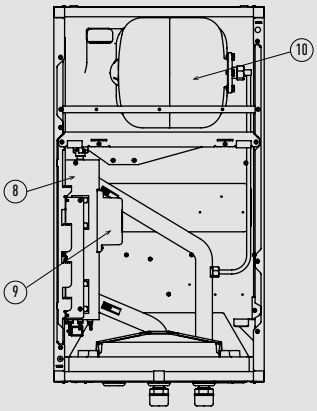


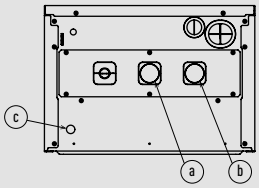










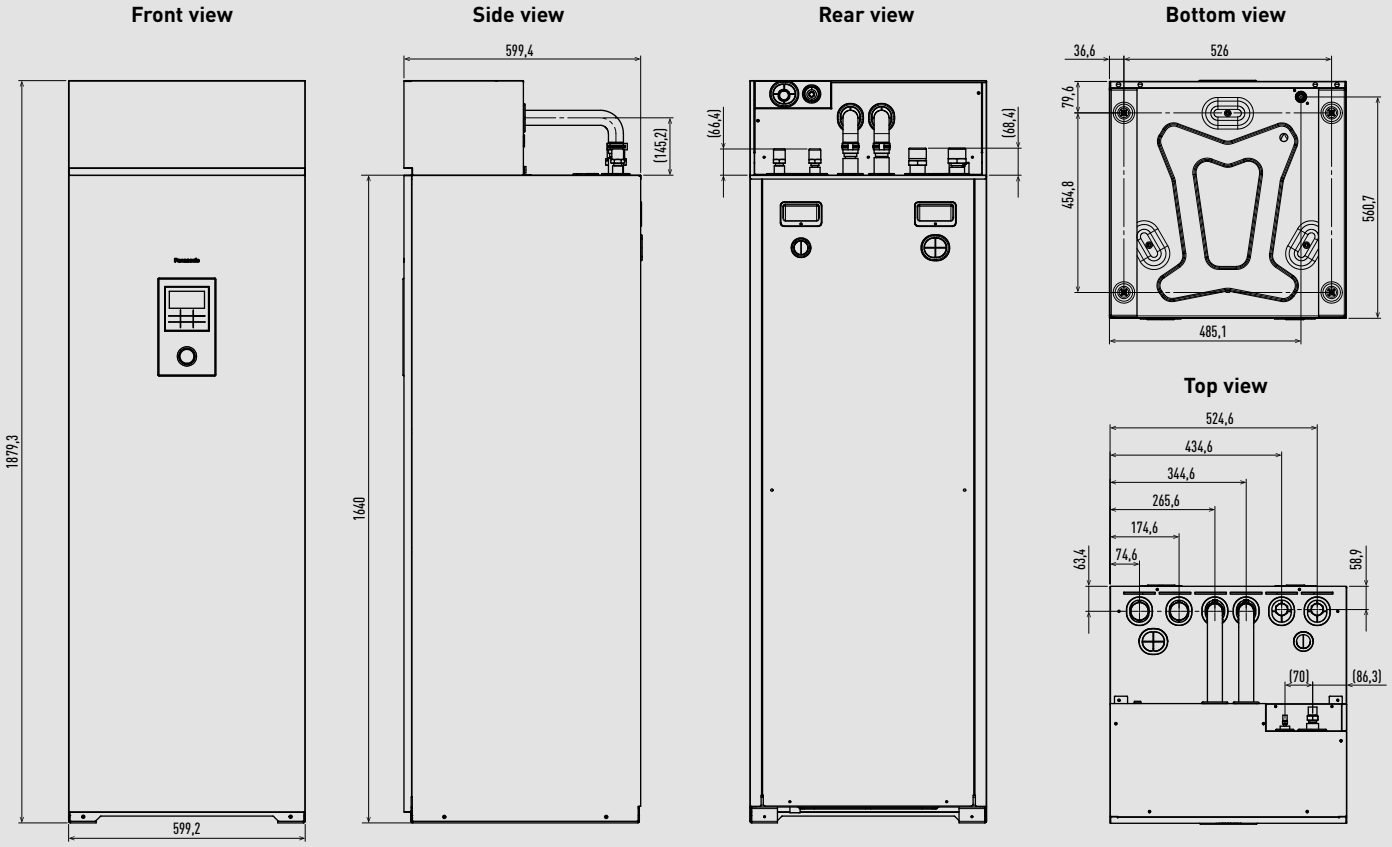


a	Water inlet	R 1¼
b	Water outlet	R 1¼
c	Drain water hole	

1	Cabinet front plate
2	Cabinet side plate
3	Remote controller
4	PCB
5	Three phase RCCB/ELCB
6	Control board cover
7	Control board
8	Backup heater
9	Overload protector
10	Expansion vessel
11	Left decoration panel
12	Right decoration panel
13	Network adaptor holder

Unit: mm

Aquarea EcoFleX tank unit (WH-ADF0309J3E5CM).

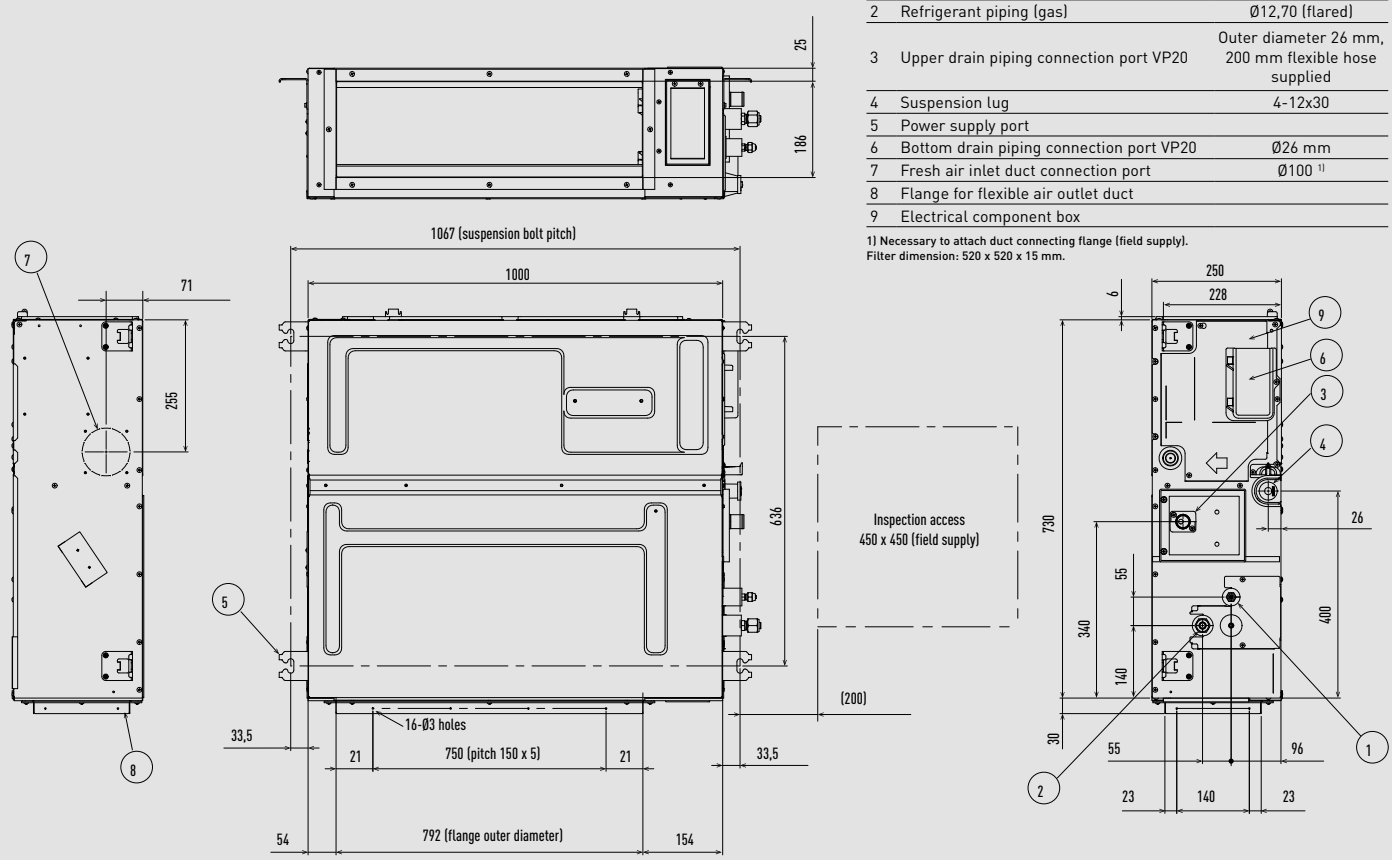


Unit: mm

Aquarea EcoFleX ducted unit (S-71WF3E).

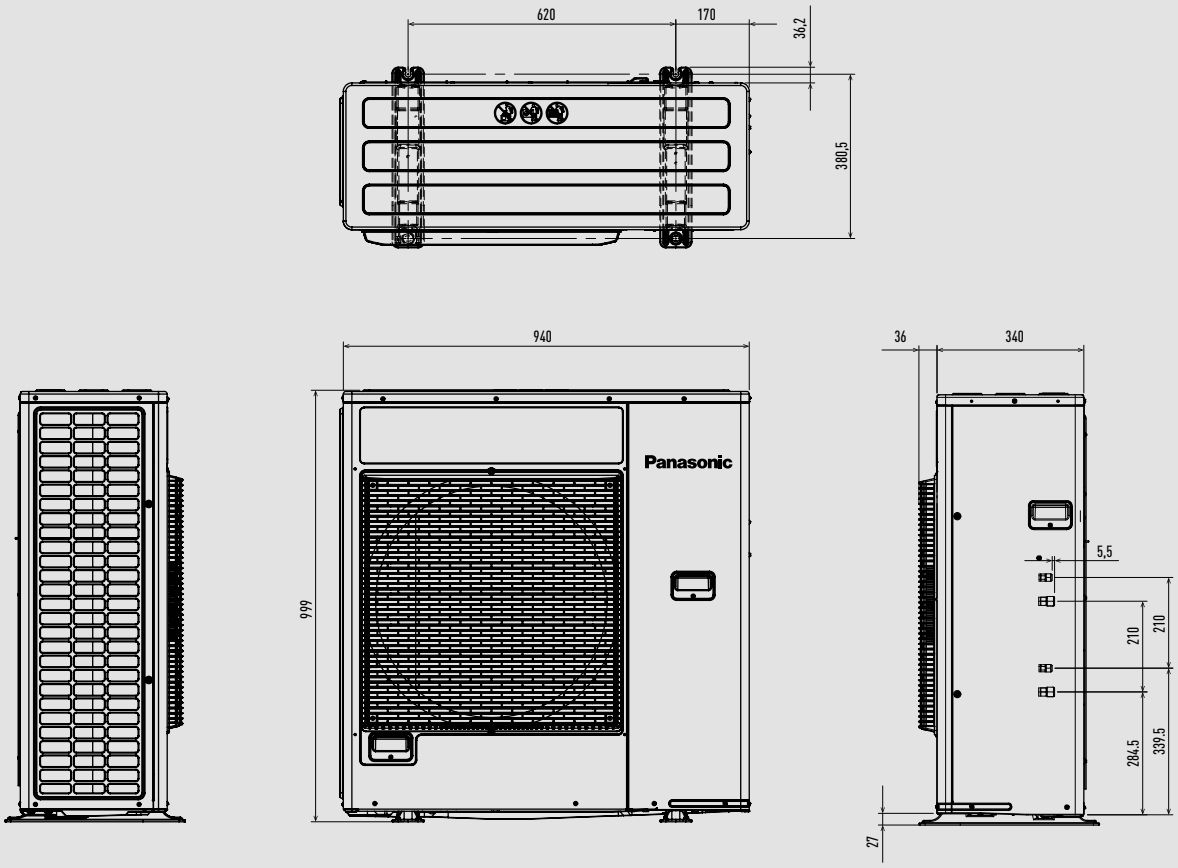
1	Refrigerant piping (liquid)	Ø6,35 (flared)
2	Refrigerant piping (gas)	Ø12,70 (flared)
3	Upper drain piping connection port VP20	Outer diameter 26 mm, 200 mm flexible hose supplied
4	Suspension lug	4-12x30
5	Power supply port	
6	Bottom drain piping connection port VP20	Ø26 mm
7	Fresh air inlet duct connection port	Ø100 [1]
8	Flange for flexible air outlet duct	
9	Electrical component box	

1) Necessary to attach duct connecting flange (field supply).
Filter dimension: 520 x 520 x 15 mm.



Unit: mm

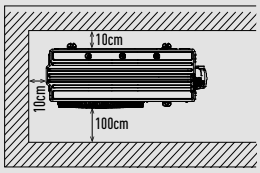
Aquarea EcoFleX outdoor unit.



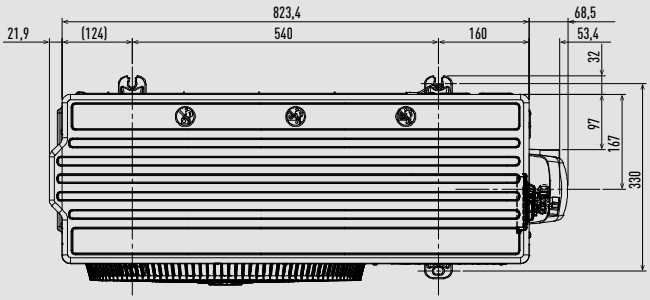
Unit: mm

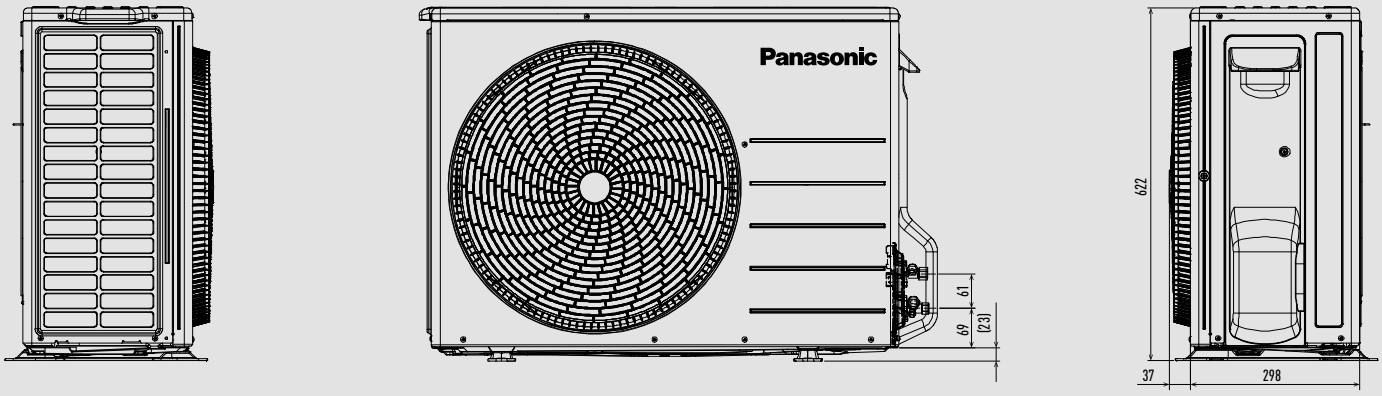
Aquarea High Performance outdoor unit 3 kW K Series.

Space necessary for installation



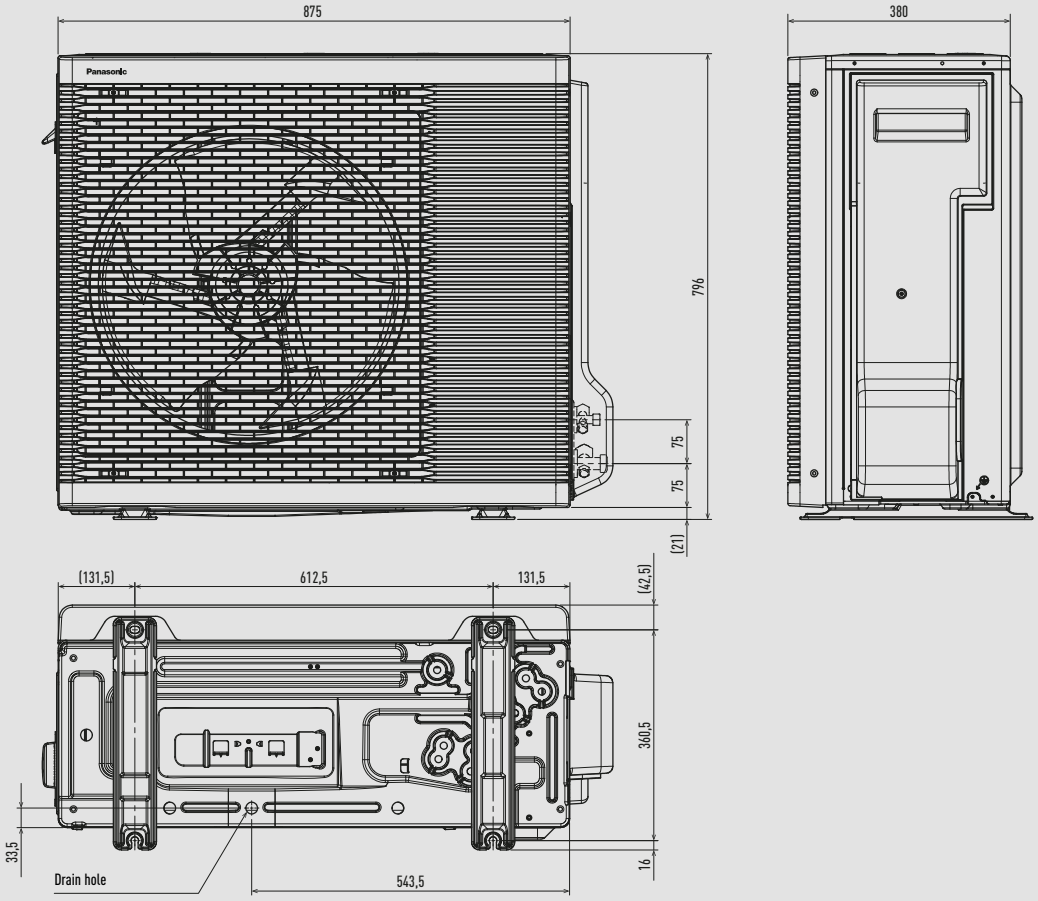
Anchor bolt pitch 355 x 260





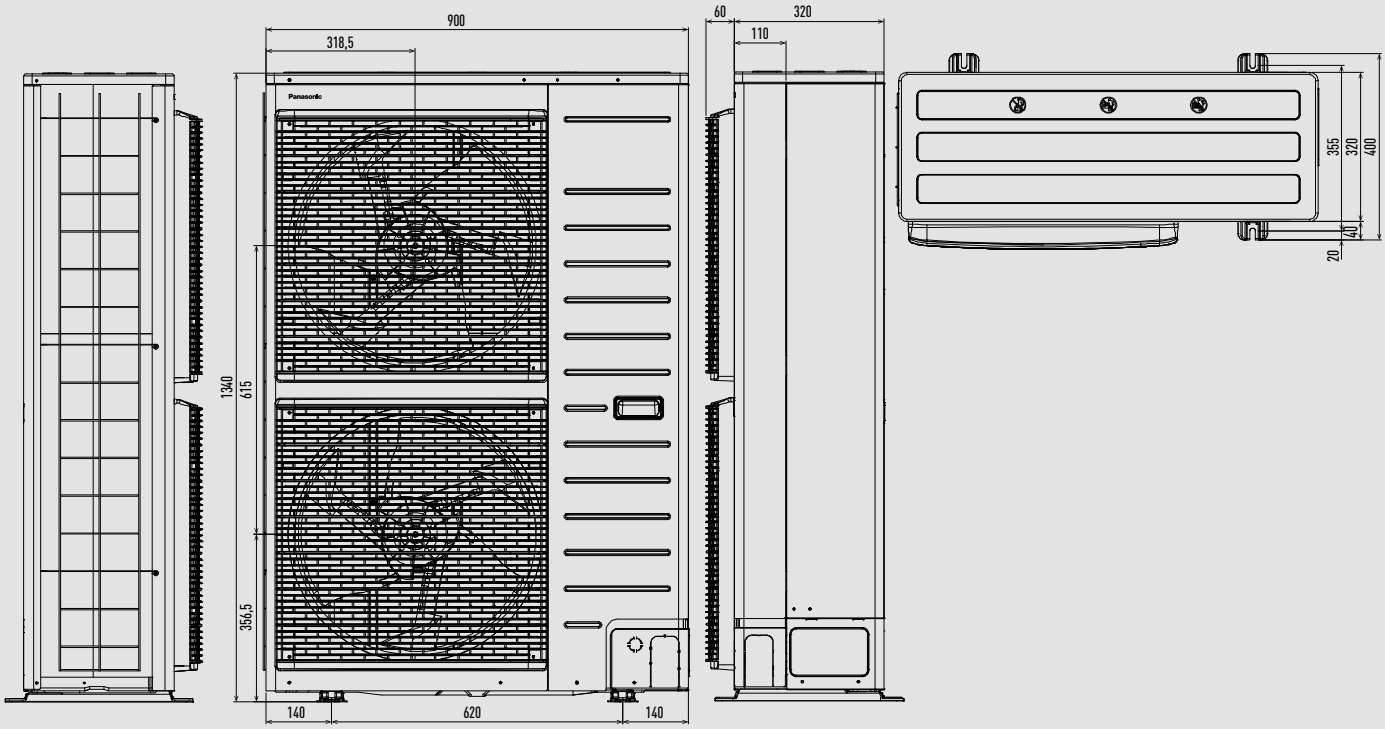
Unit: mm

Aquarea High Performance outdoor units from 5 to 9 kW K Series.



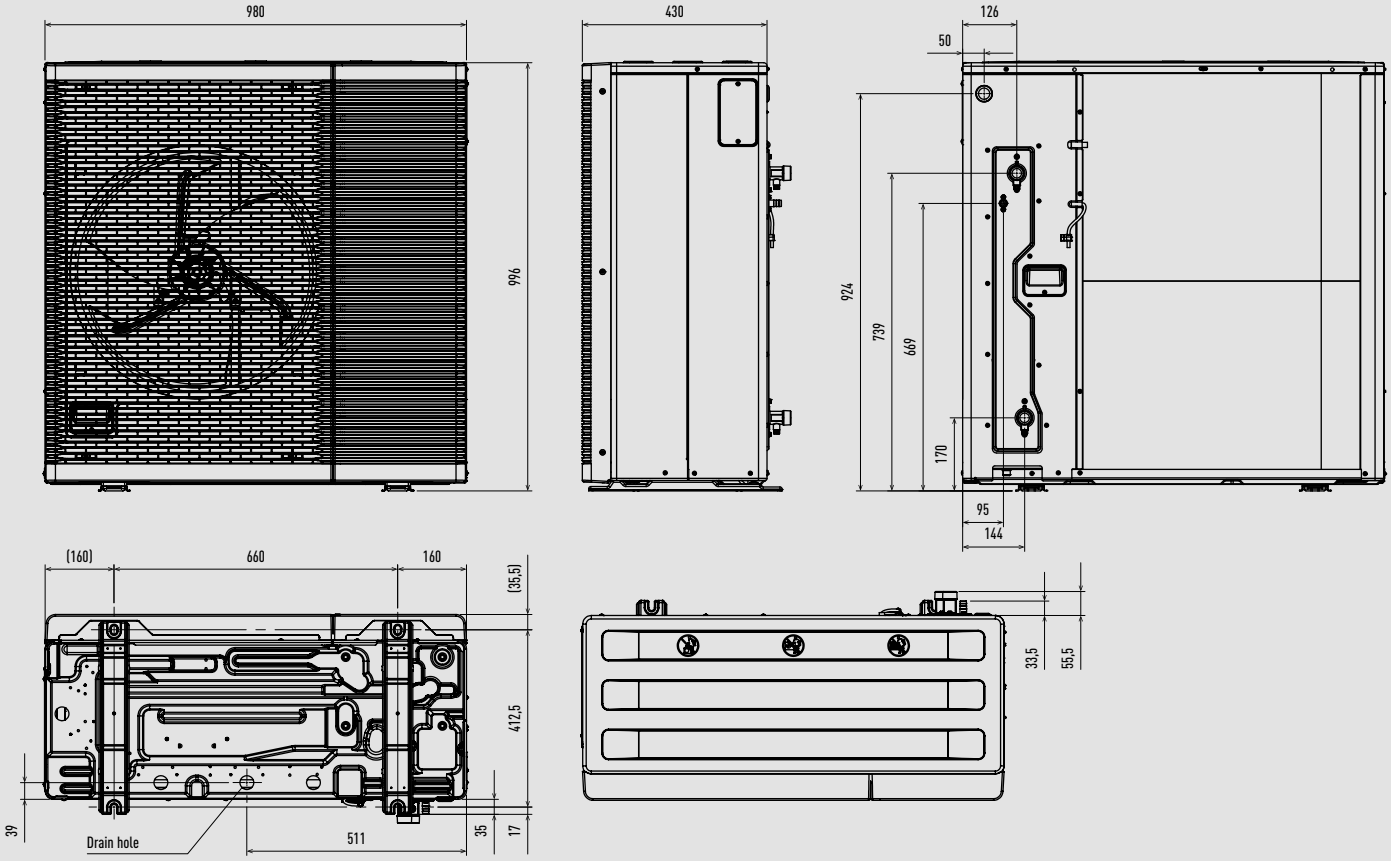
Unit: mm

Aquarea High Performance outdoor units from 12 to 16 kW single phase and 9 to 16 kW three phase K Series. Aquarea T-CAP outdoor units K Series.



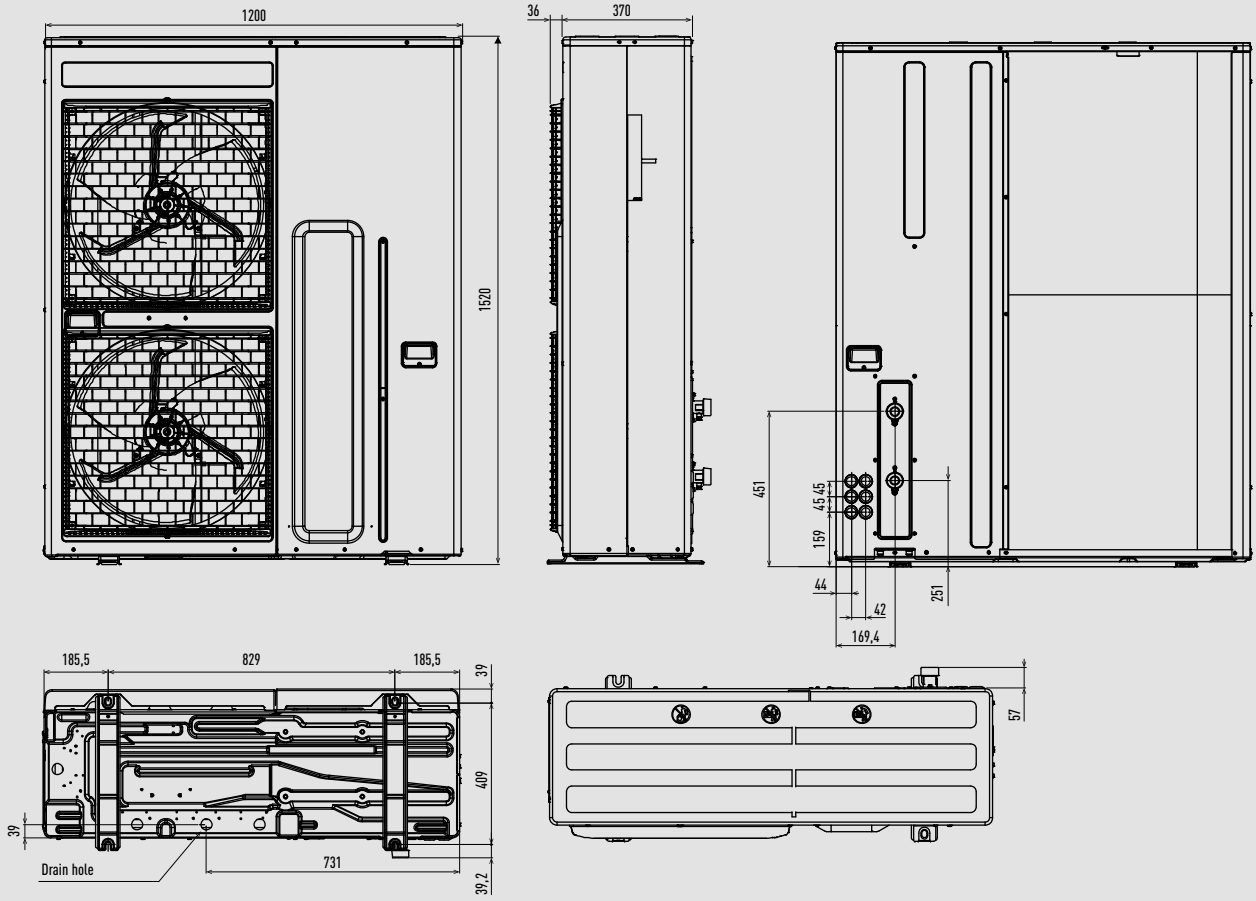
Unit: mm

Aquarea High Performance Hydraulic outdoor units from 5 to 9 kW L Series.



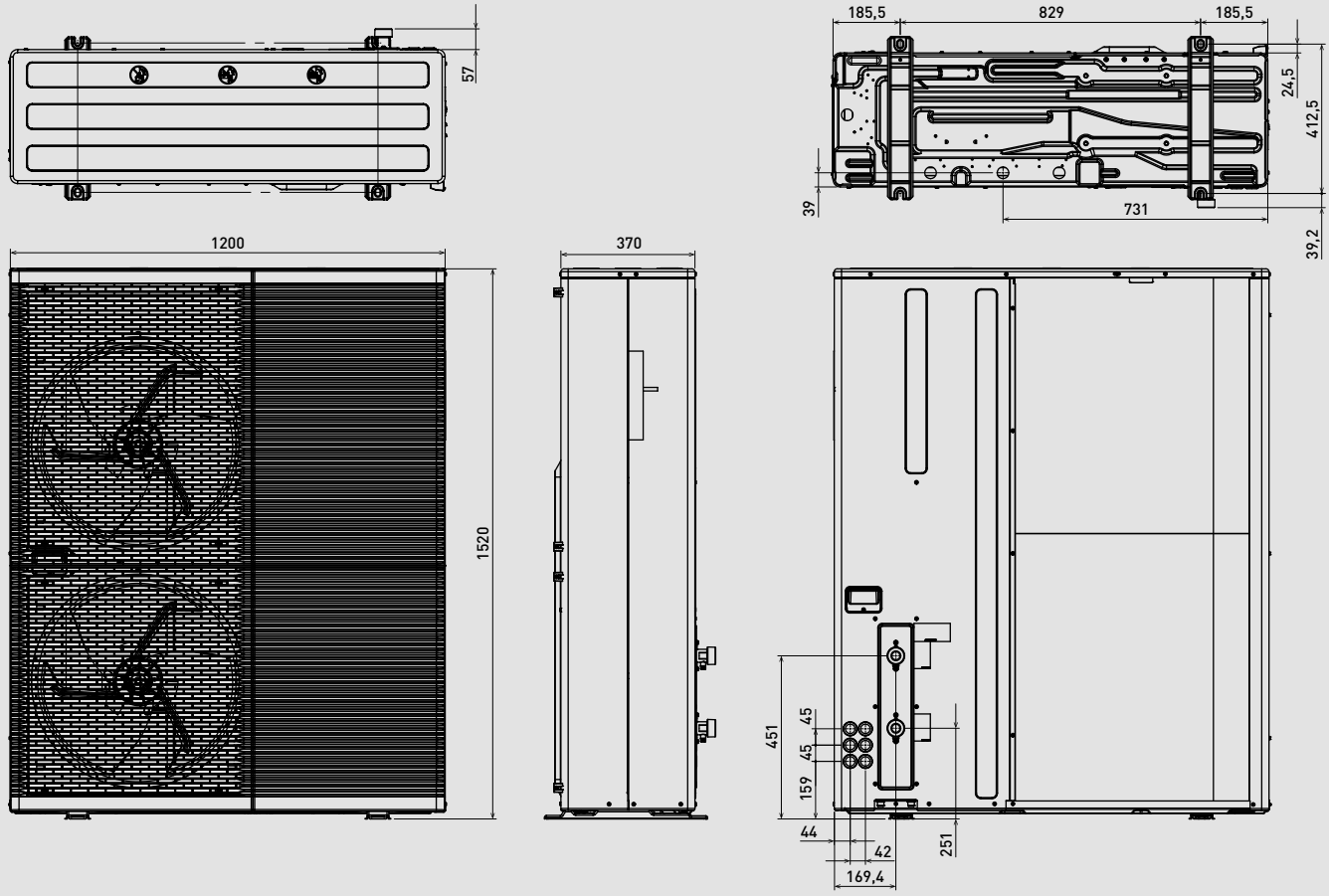
Unit: mm

Aquarea High Performance Hydraulic outdoor units from 9 to 16 kW M Series.



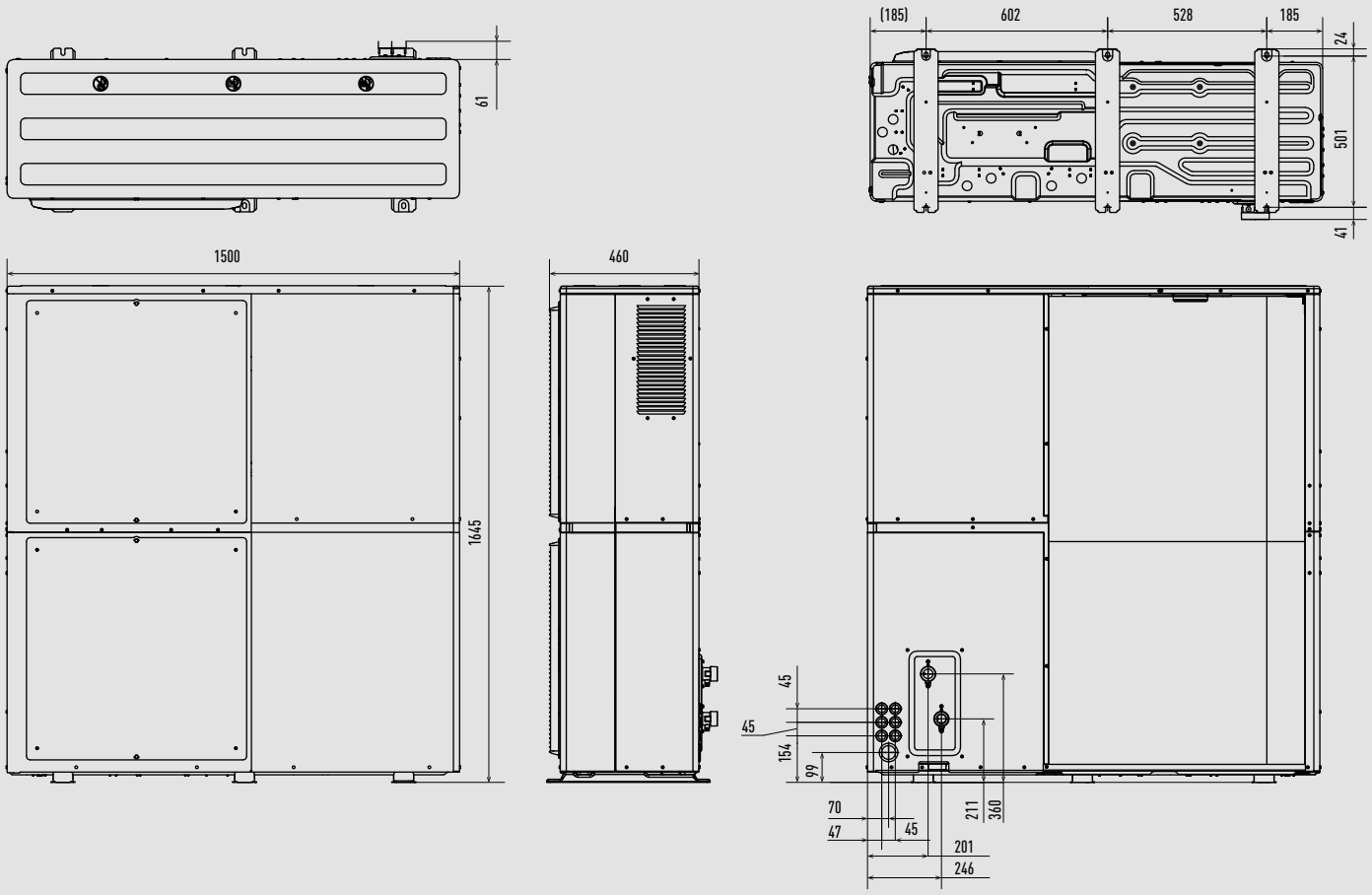
Unit: mm

Aquarea T-CAP Hydraulic M Series outdoor units from 9 to 16 kW.



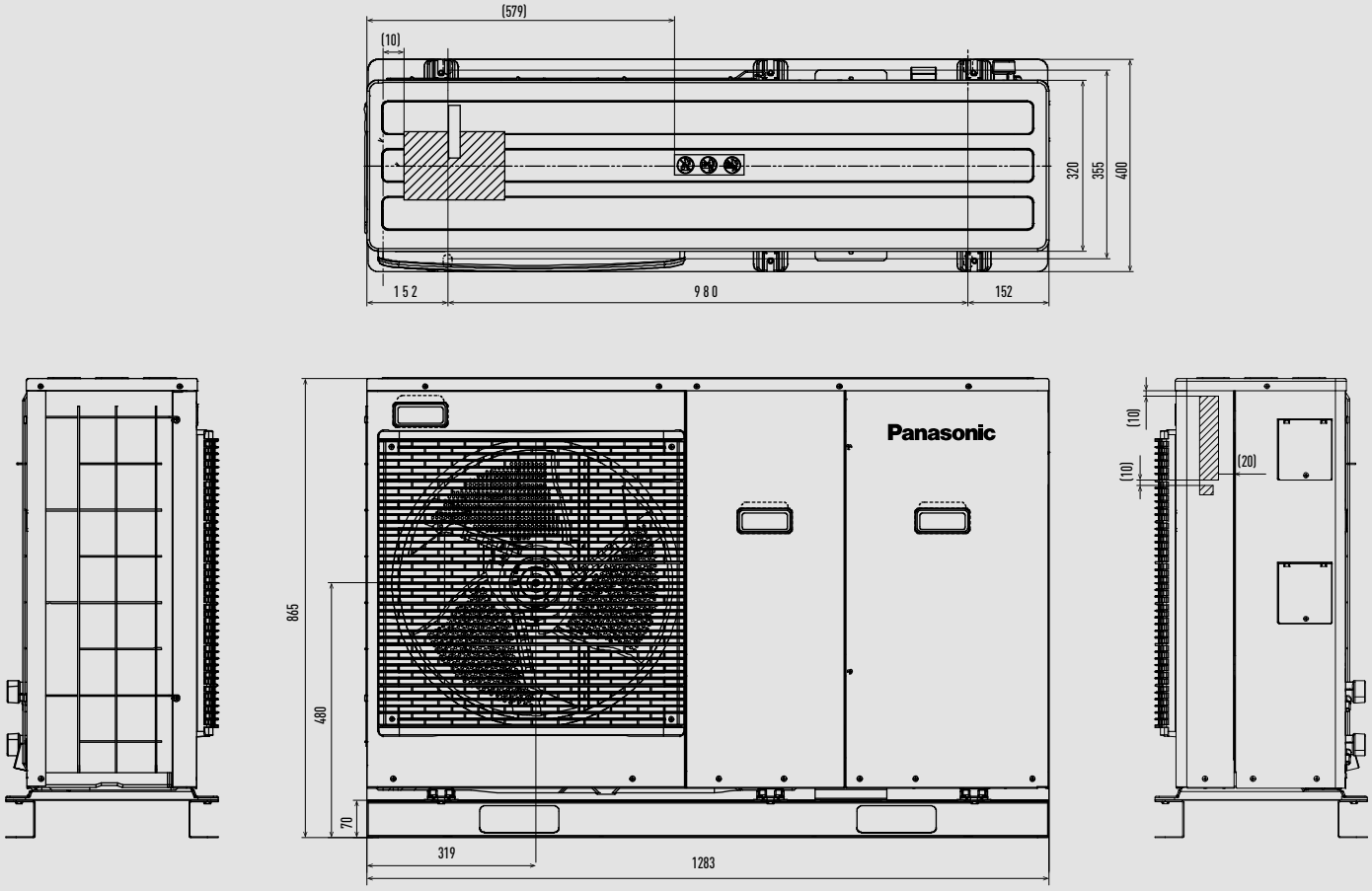
Unit: mm

Aquarea T-CAP outdoor units from 20 to 30 kW M Series.



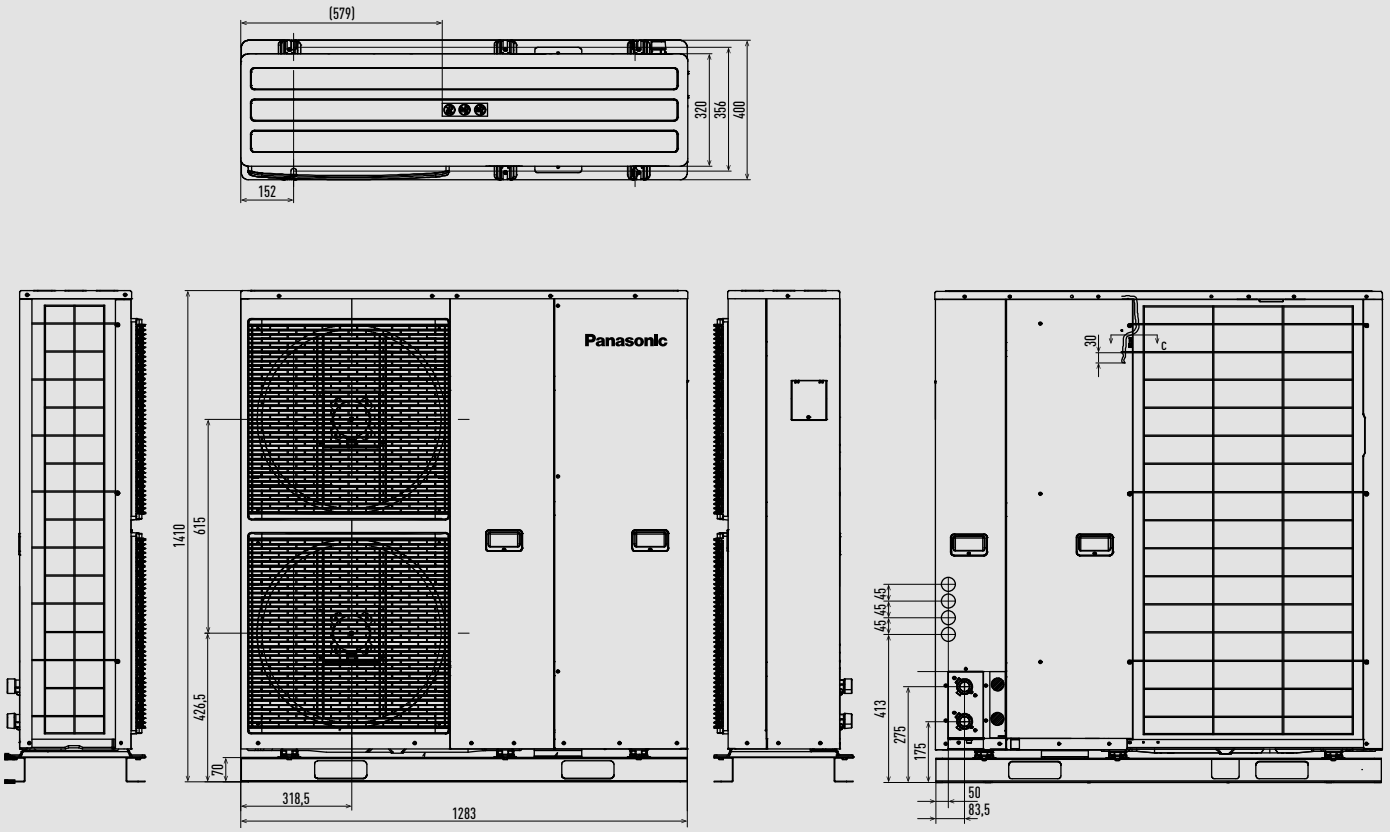
Unit: mm

Aquarea High Performance Mono-bloc J Series outdoor units from 5 to 9 kW.



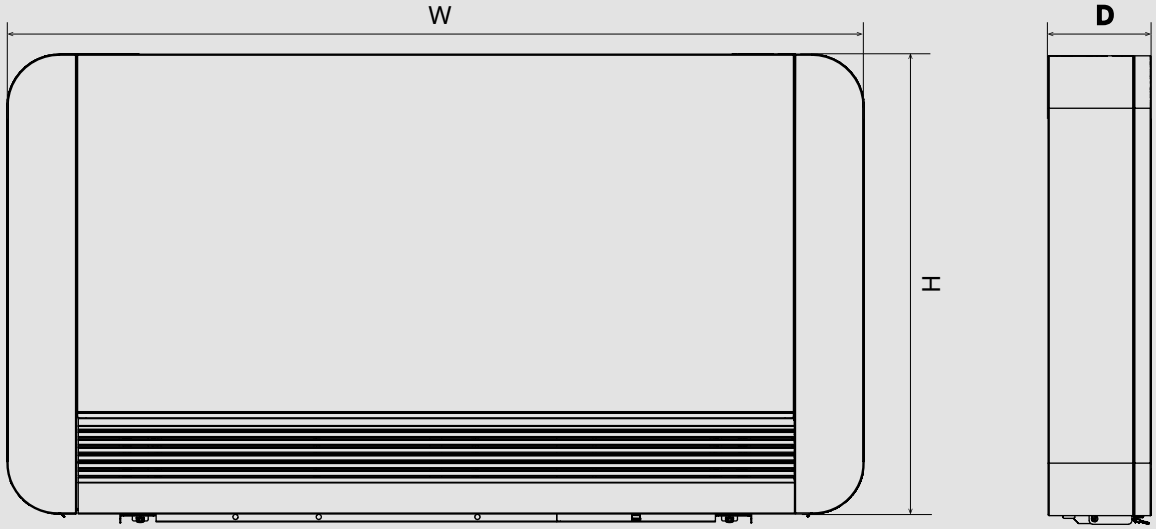
Unit: mm

Aquarea T-CAP Mono-bloc J Series outdoor units and T-CAP K Series Super Quiet outdoor units.



Unit: mm

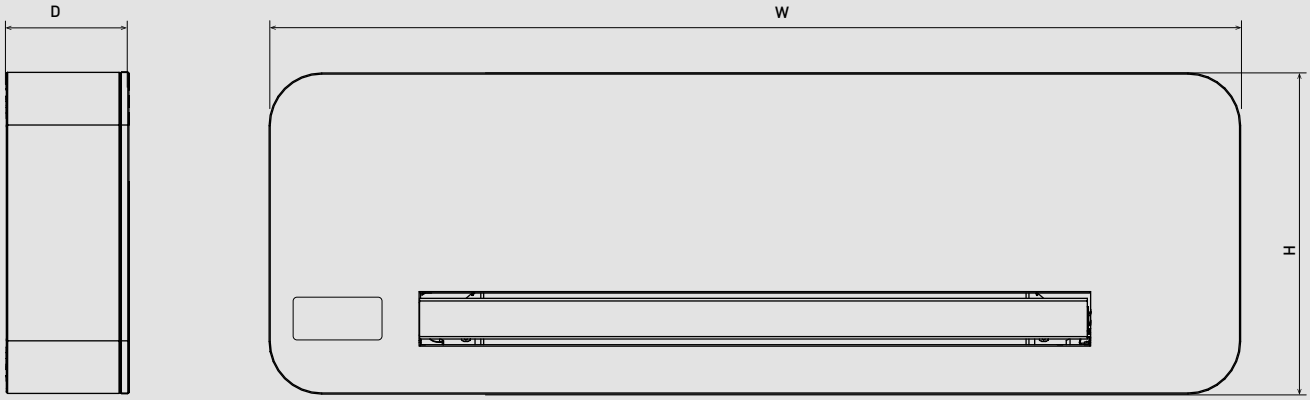
Aquarea Air Smart fan coil – Floor standing.



	H (mm)	W (mm)	D (mm)
P-FAL10	579	735	129
P-FAL20	579	935	129
P-FAL30	579	1135	129
P-FAL35	579	1335	129
P-FAL40	579	1535	129

Unit: mm

Aquarea Air Smart fan coil – Wall-mounted.

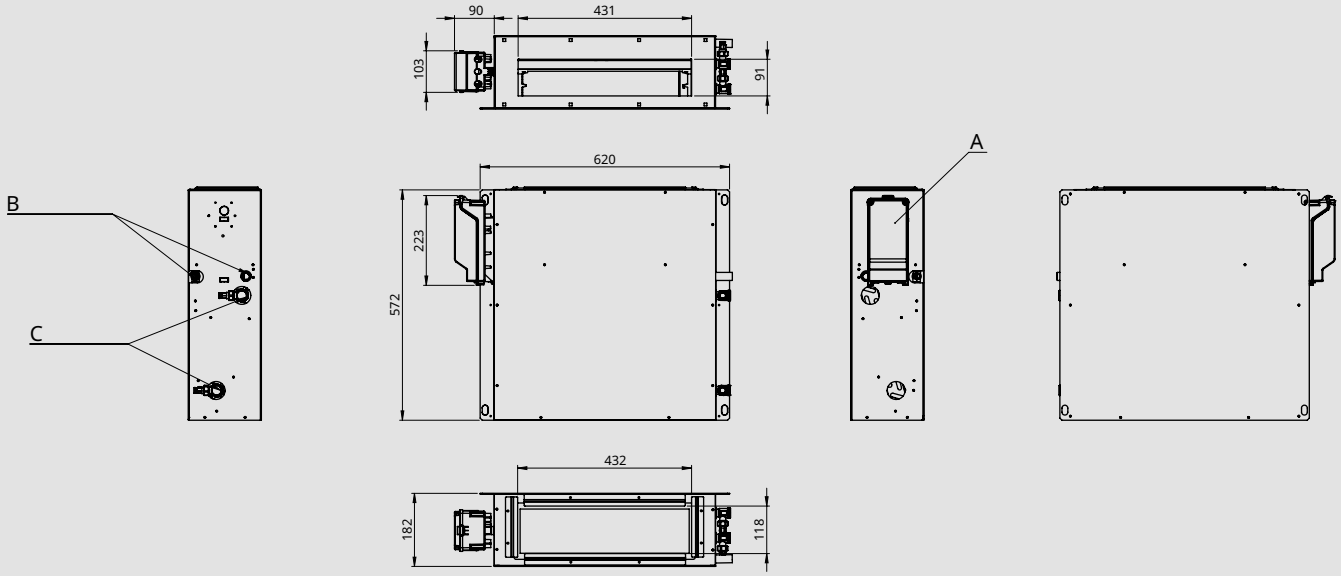


	H (mm)	W (mm)	D (mm)
P-FMM10	335	815	128
P-FMM15	335	1015	128
P-FMM20	335	1215	128
P-FMM40	335	1215	215

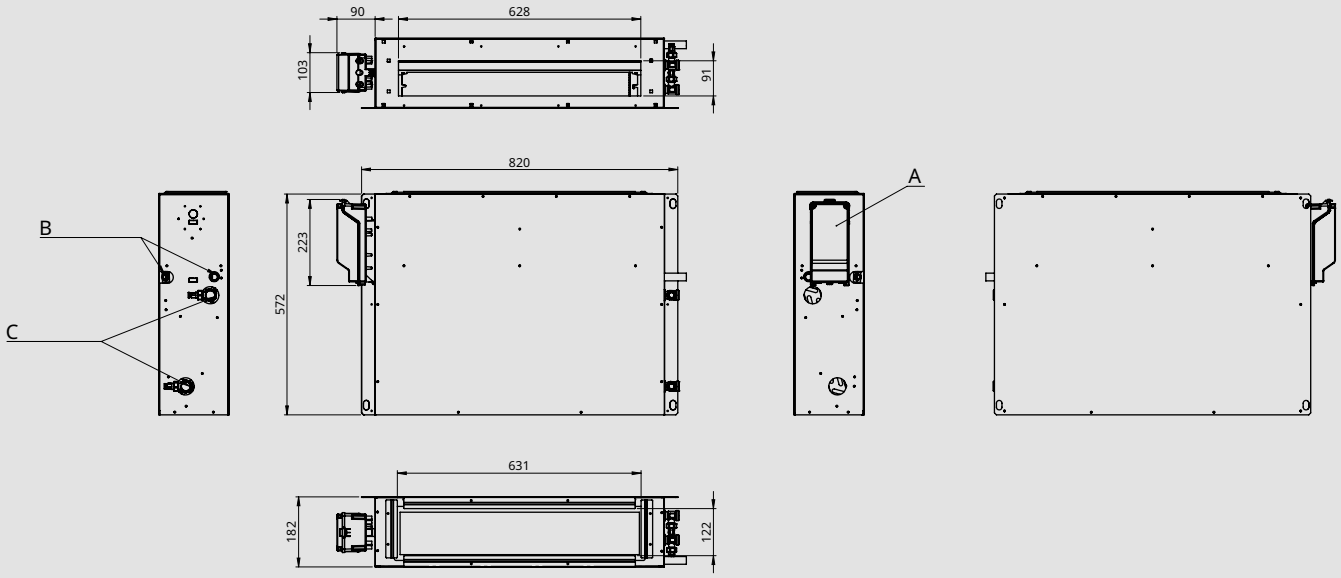
Unit: mm

Aquarea Air Smart fan coil – Ducted thin – P-FTN15 / P-FTN20 / P-FTN25.

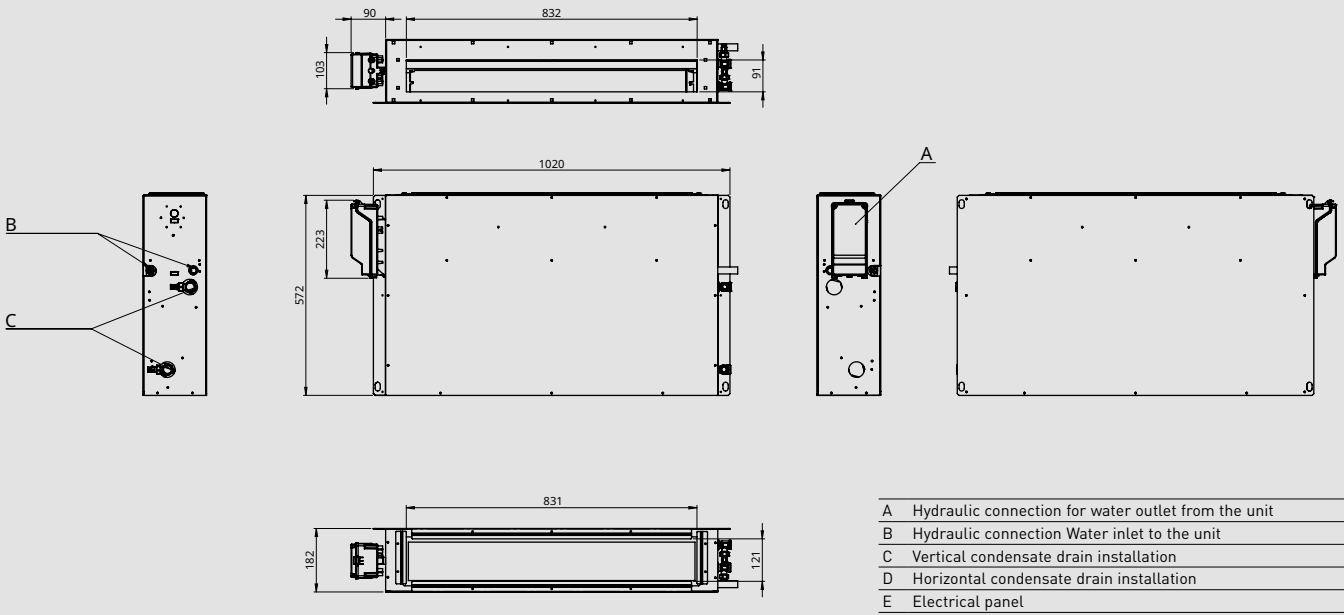
P-FTN15



P-FTN20



P-FTN25

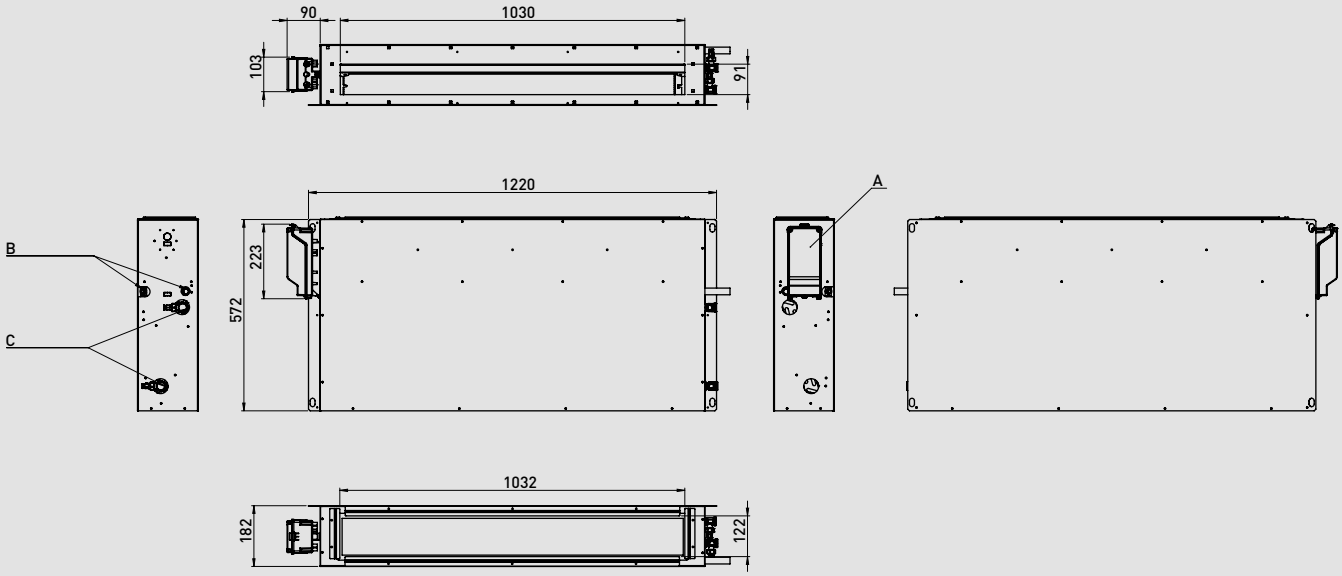


A	Hydraulic connection for water outlet from the unit
B	Hydraulic connection Water inlet to the unit
C	Vertical condensate drain installation
D	Horizontal condensate drain installation
E	Electrical panel

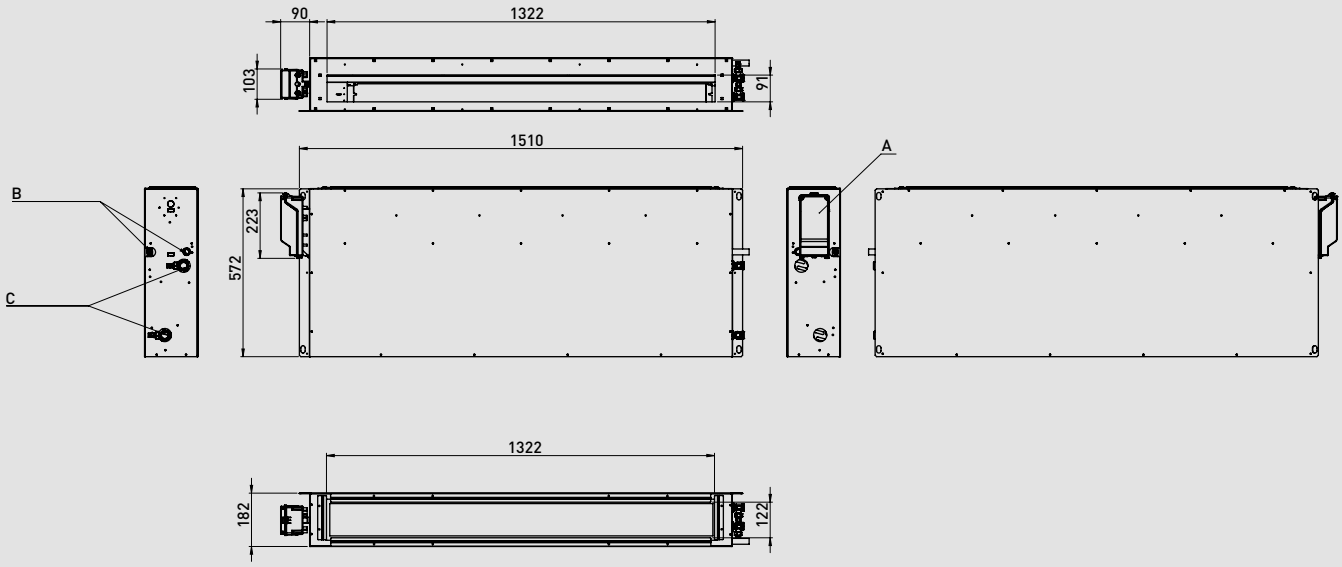
Unit: mm

Aquarea Air Smart fan coil – Ducted thin – P-FTN35 / P-FTN45.

P-FTN35



P-FTN45

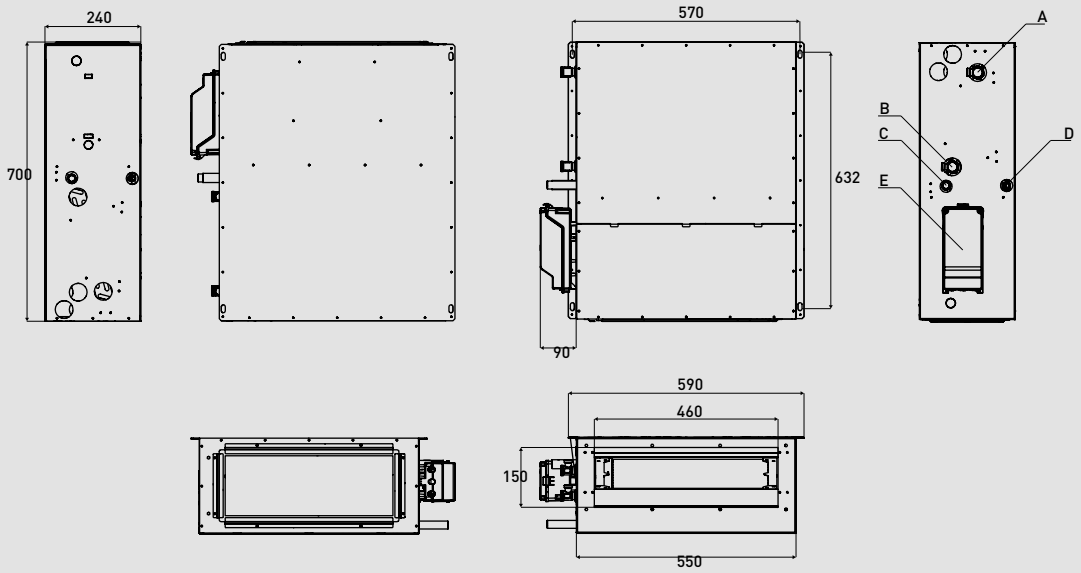


A	Hydraulic connection for water outlet from the unit
B	Hydraulic connection Water inlet to the unit
C	Vertical condensate drain installation
D	Horizontal condensate drain installation
E	Electrical panel

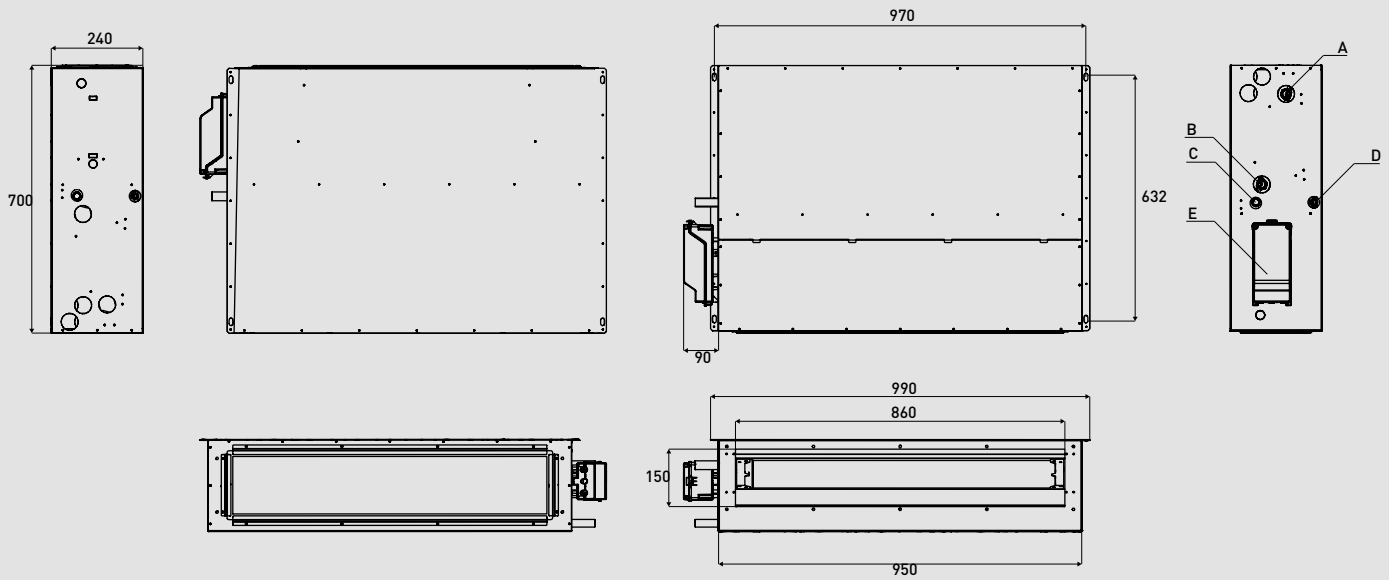
Unit: mm

Aquarea Air Smart fan coil – Ducted – P-FSN20 / P-FSN25 / P-FSN35.

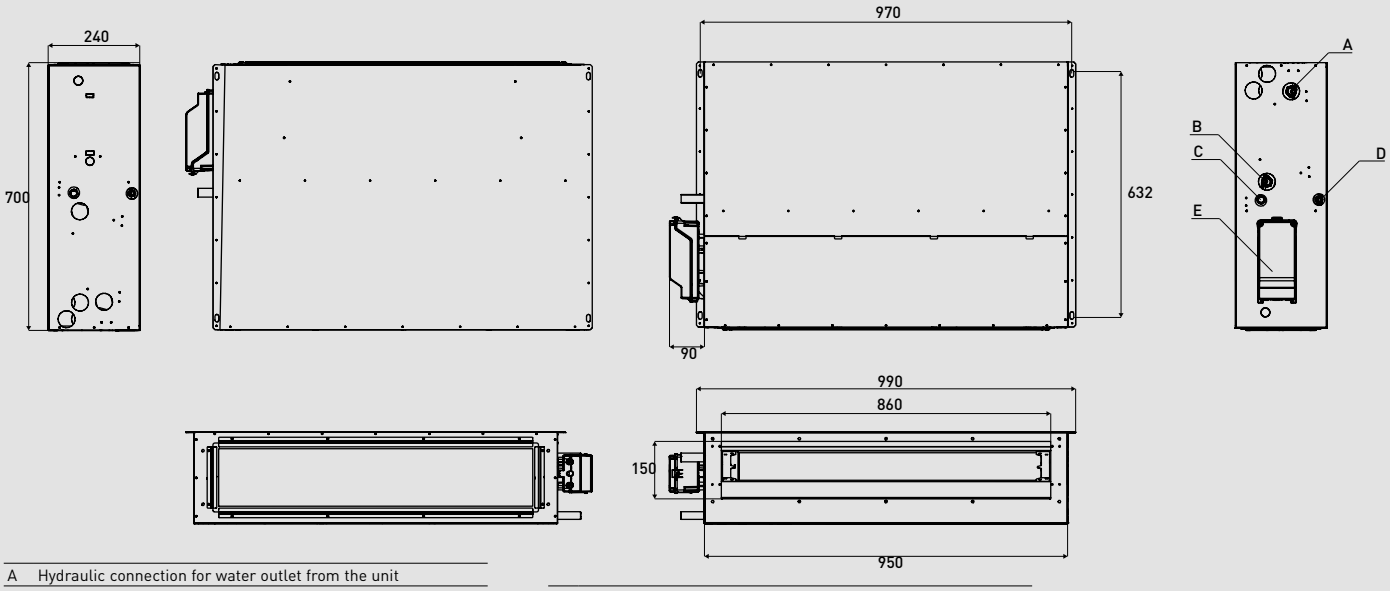
P-FSN20



P-FSN25



P-FSN35

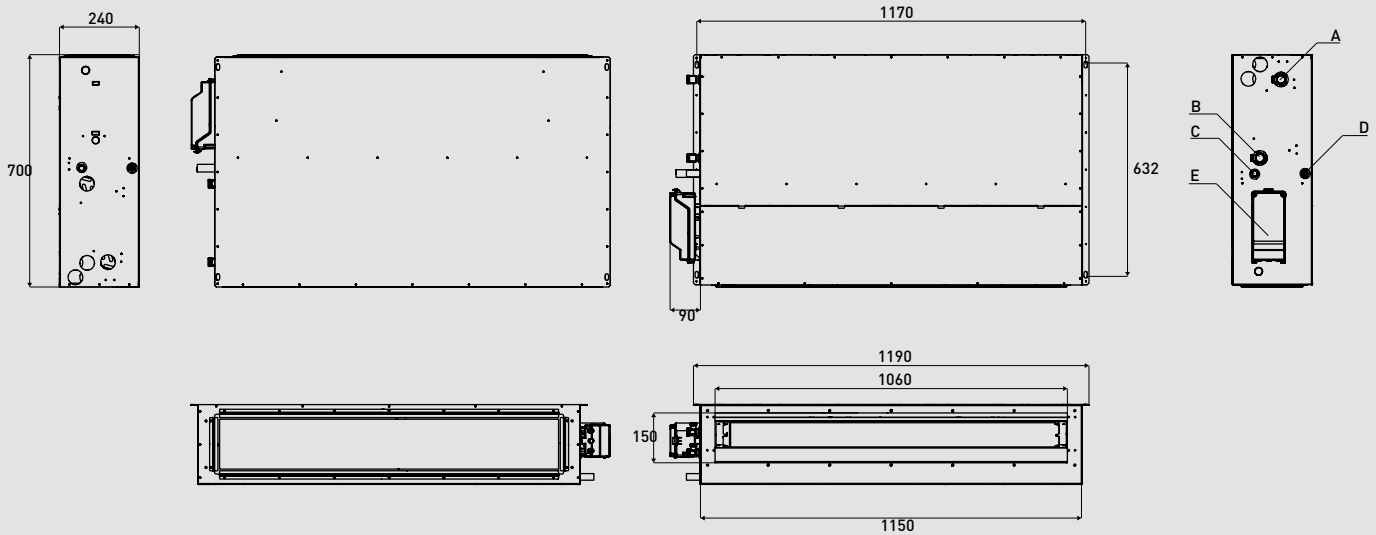


A	Hydraulic connection for water outlet from the unit
B	Hydraulic connection Water inlet to the unit
C	Vertical condensate drain installation
D	Horizontal condensate drain installation
E	Electrical panel

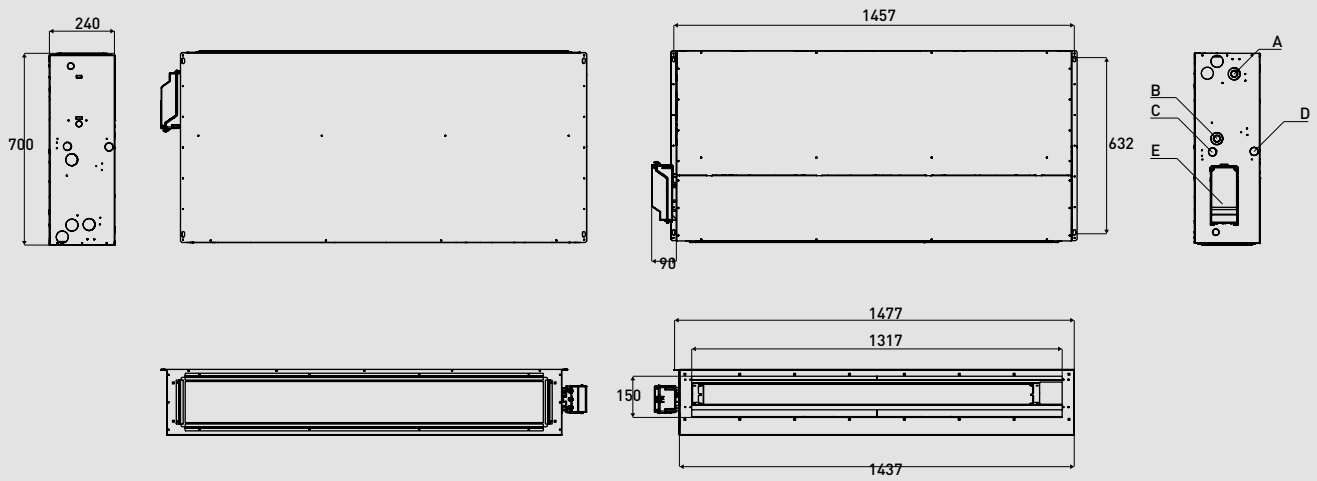
Unit: mm

Aquarea Air Smart fan coil – Ducted – P-FSN45 / P-FSN55.

P-FSN45



P-FSN55

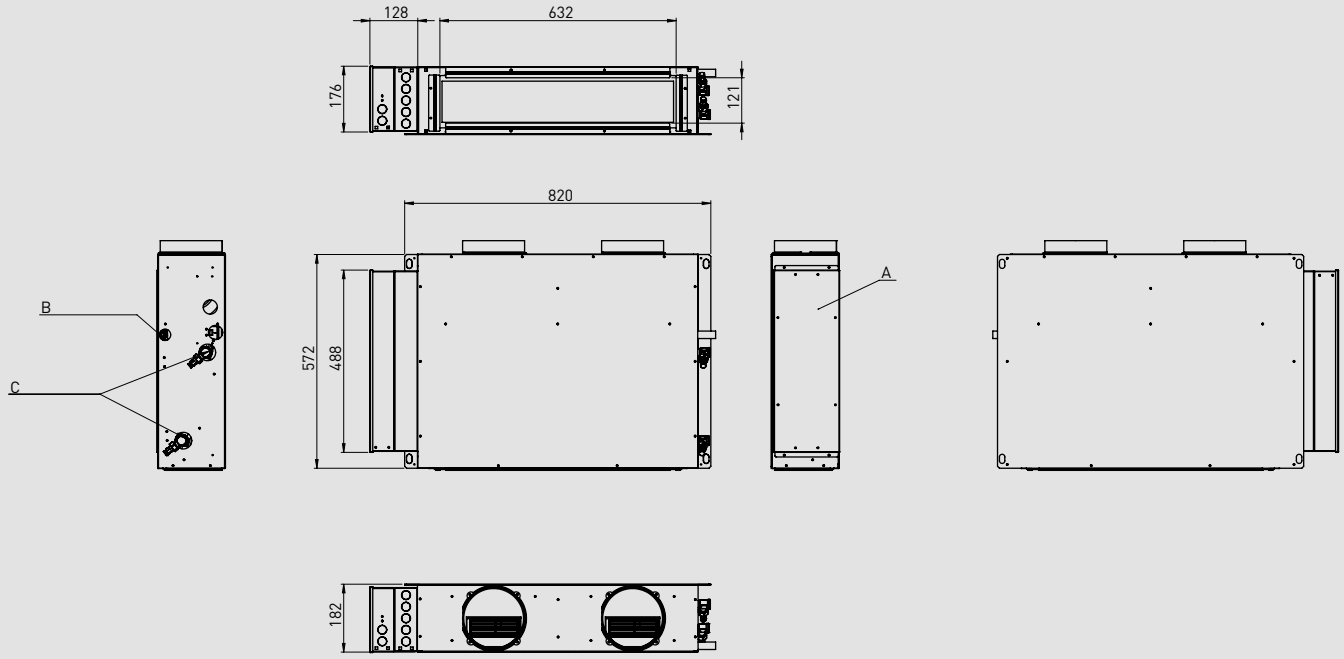


A	Hydraulic connection for water outlet from the unit
B	Hydraulic connection Water inlet to the unit
C	Vertical condensate drain installation
D	Horizontal condensate drain installation
E	Electrical panel

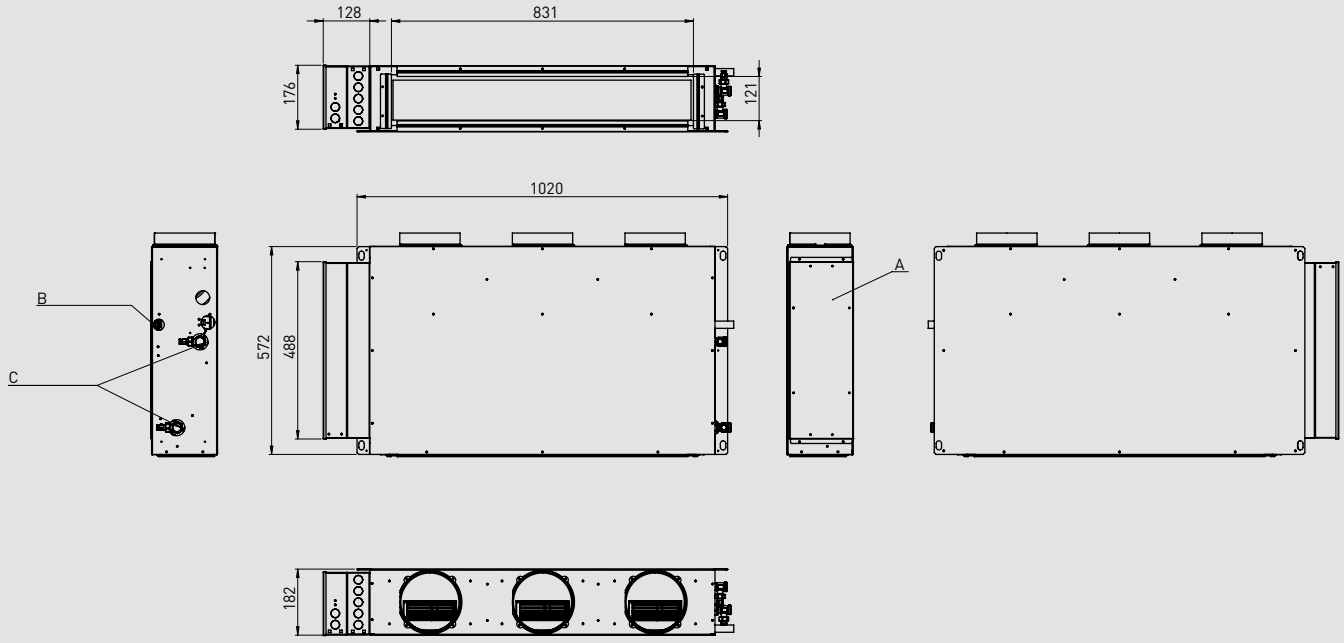
Unit: mm

Aquarea Air Smart fan coil – Ducted multi zone thin – P-FTQ30 / P-FTQ45.

P-FTQ30



P-FTQ45

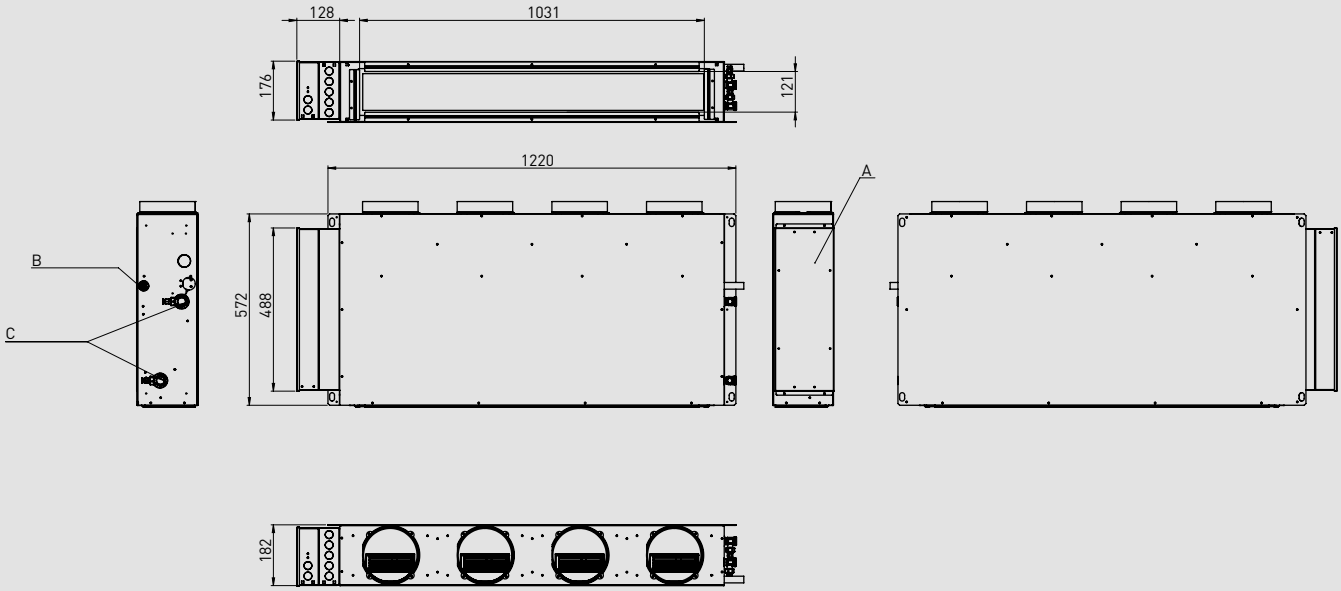


A	Electrical panel
B	Condensate drain
C	Hydraulic connections

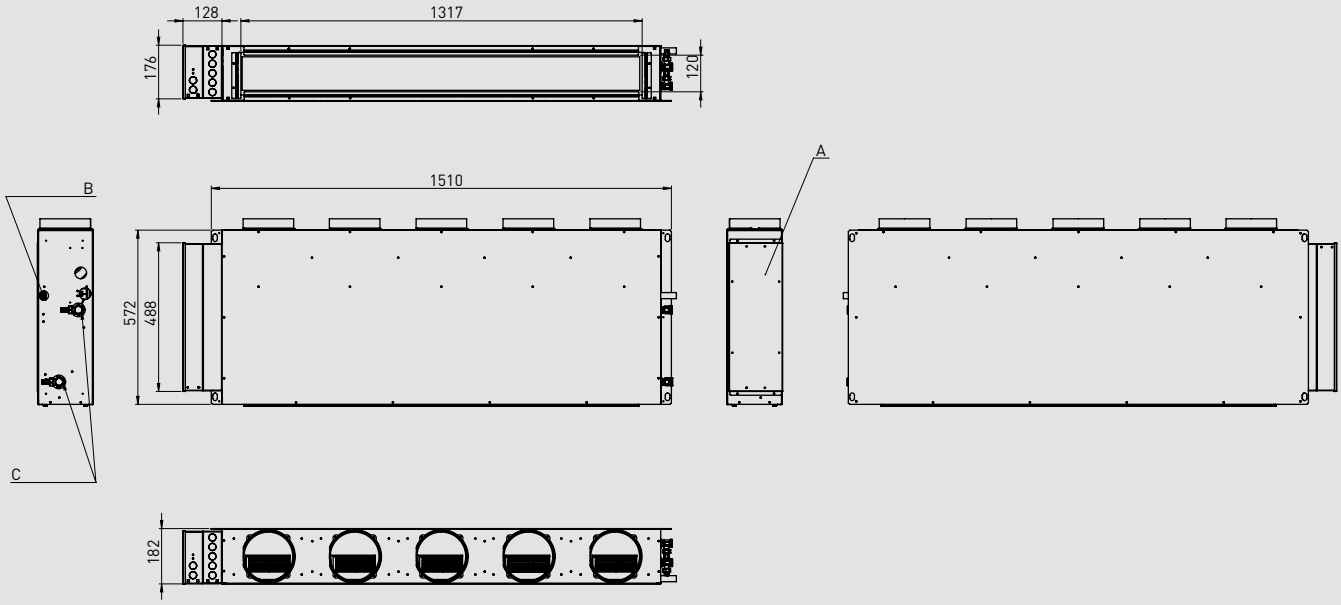
Unit: mm

Aquarea Air Smart fan coil – Ducted multi zone thin – P-FTQ60 / P-FTQ65.

P-FTQ60



P-FTQ65

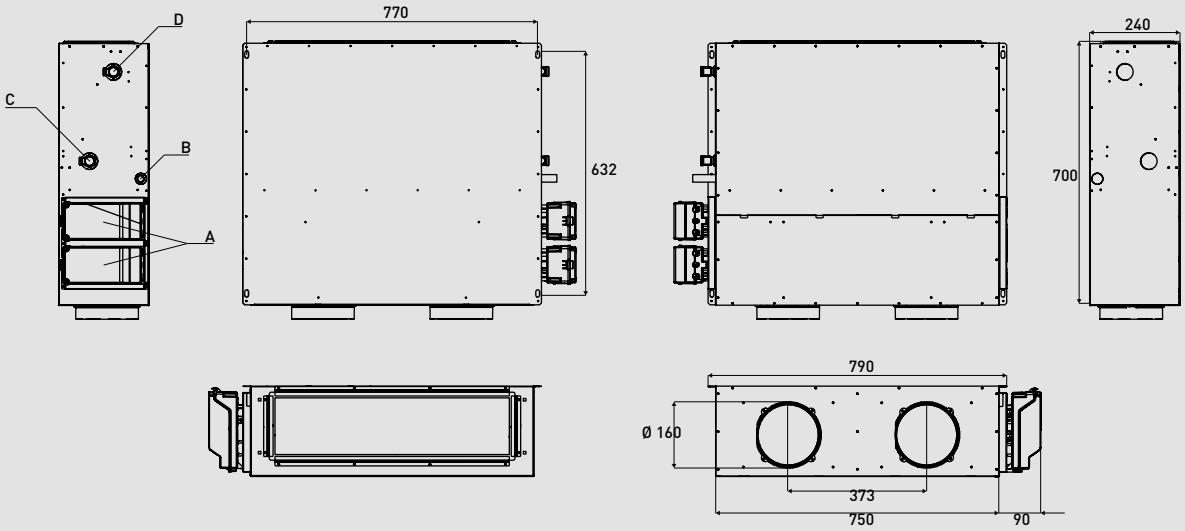


A	Electrical panel
B	Condensate drain
C	Hydraulic connections

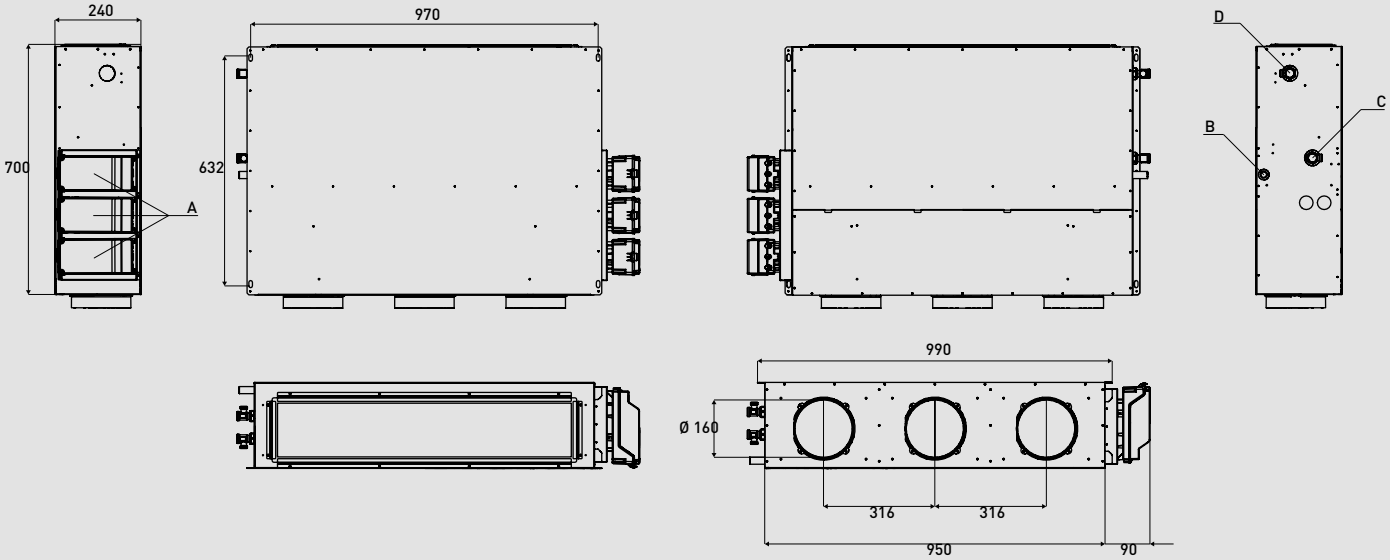
Unit: mm

Aquarea Air Smart fan coil – Ducted multi zone – P-FSQ30 / P-FSQ45.

P-FSQ30



P-FSQ45

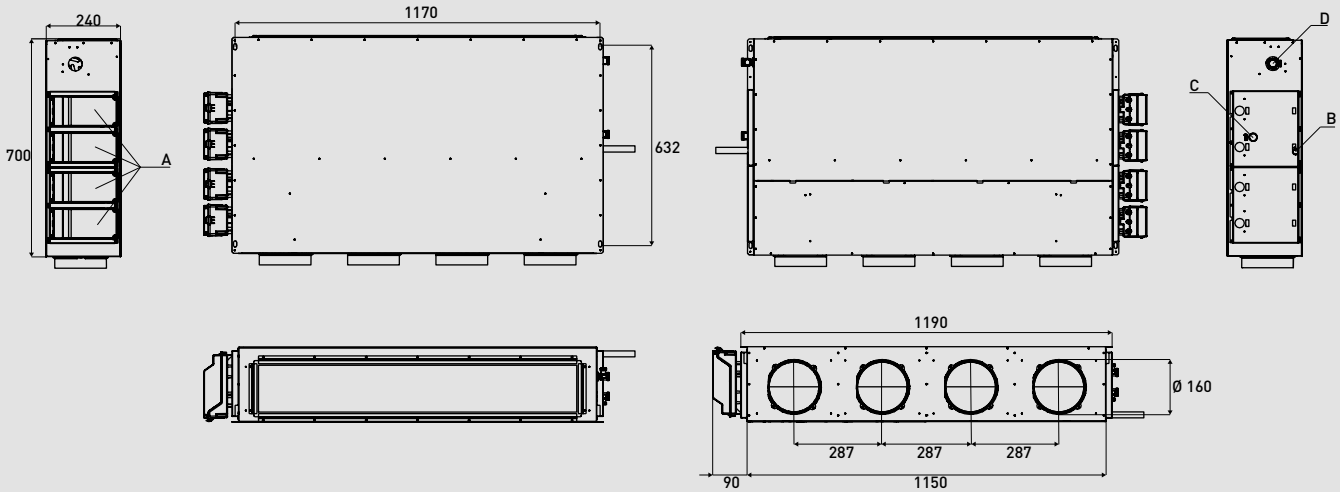


A	Electrical panel
B	Condensate drain
C	Water inlet
D	Water outlet

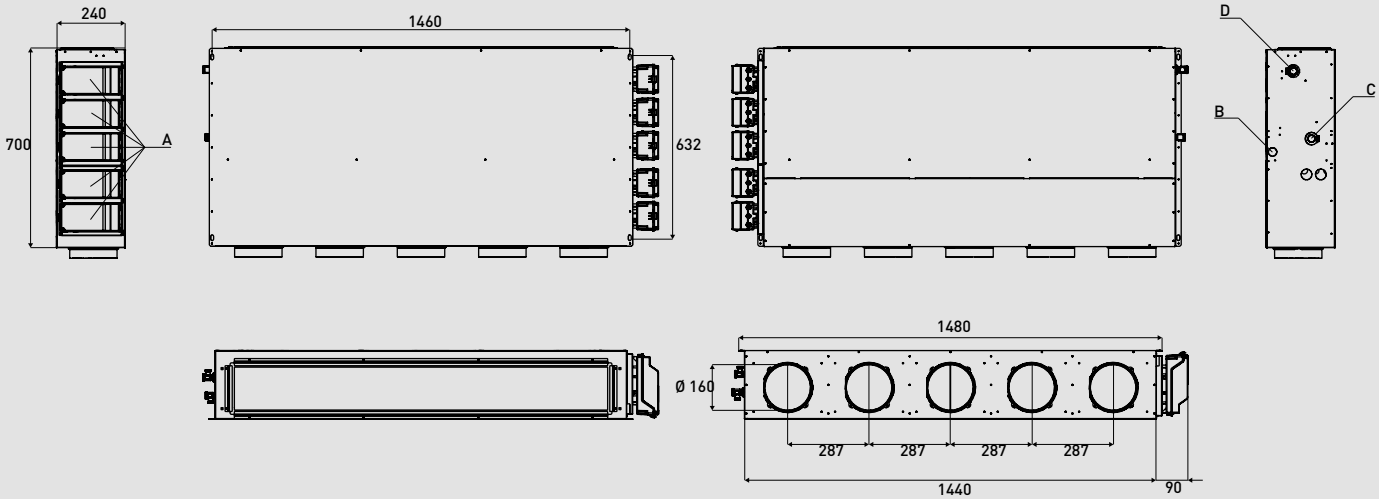
Unit: mm

Aquarea Air Smart fan coil – Ducted multi zone – P-FSQ60 / P-FSQ75.

P-FSQ60



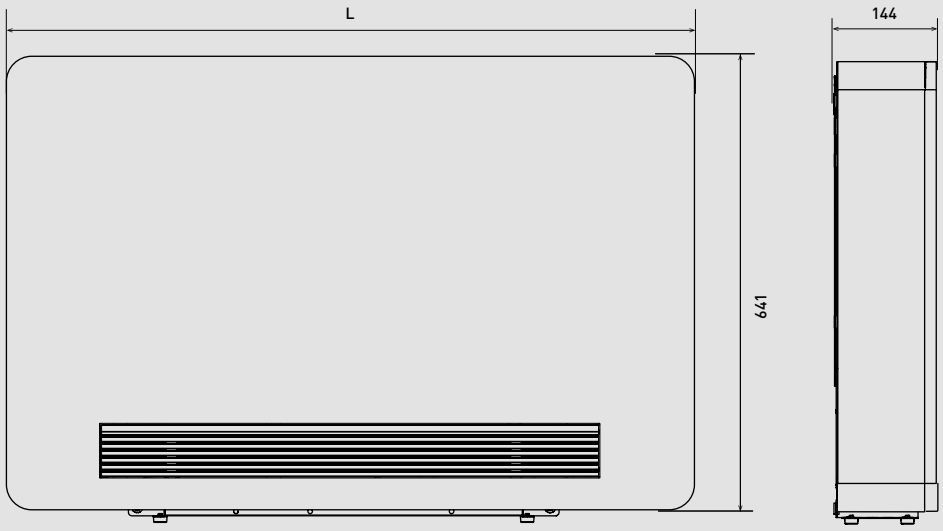
P-FSQ75



A	Electrical panel
B	Condensate drain
C	Water inlet
D	Water outlet

Unit: mm

Aquarea Loop.



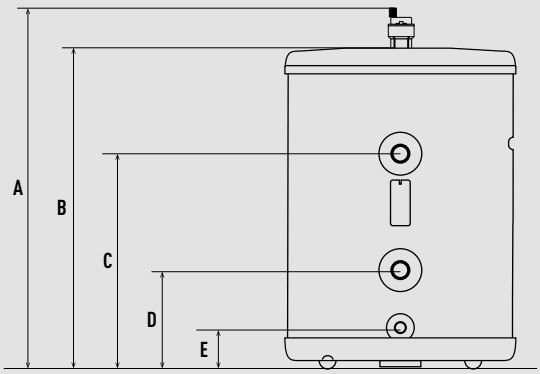
	L (mm)
P-CWSL10	775
P-CWSL20	975
P-CWSL30	1225

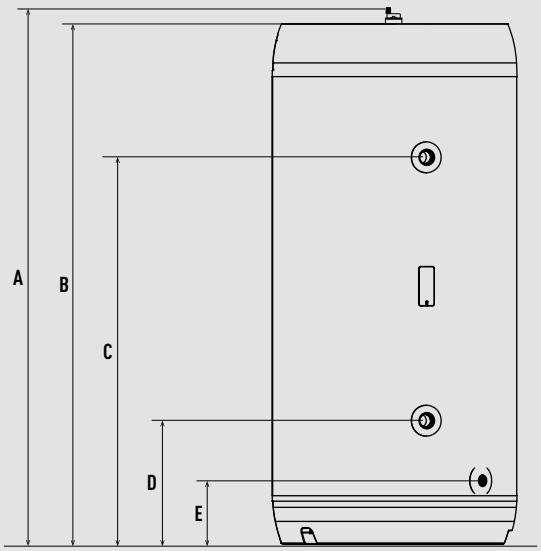
Unit: mm

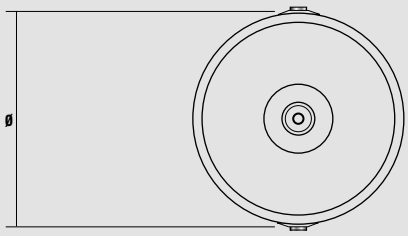
Buffer tank – PAW-BTANK50L-2 / PAW-BTANK100L.

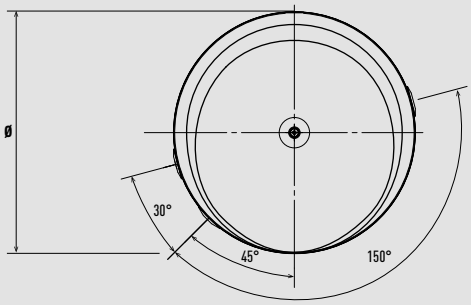
	A*	B*	C	D	E	Ø
PAW-BTANK50L-2	704	636	422	192	96	435
PAW-BTANK100L	1243	1175	962	192	96	435

Tolerance +/- 5 mm. *Total height tolerance +0 / -13 mm.



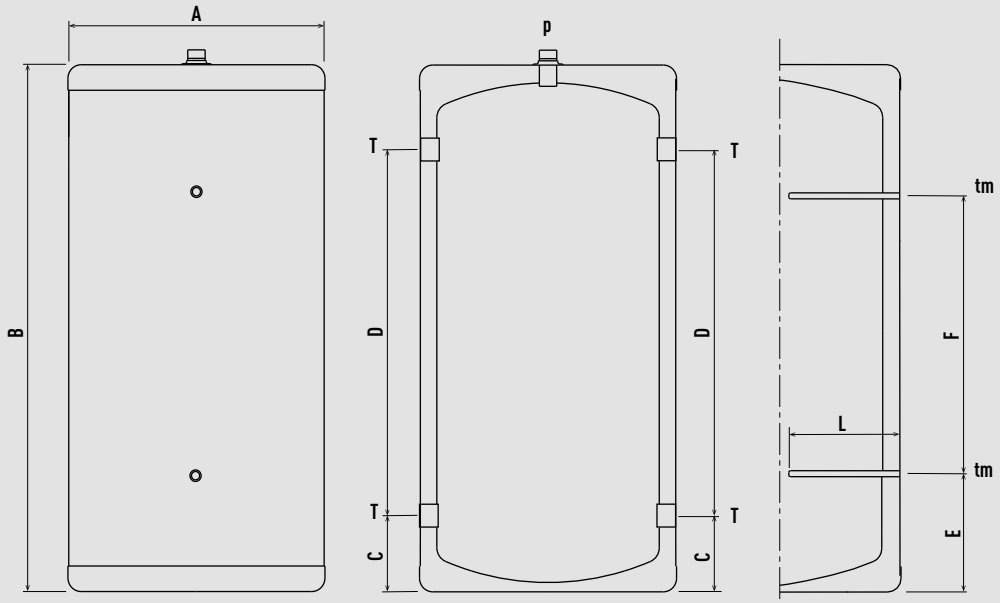






Unit: mm

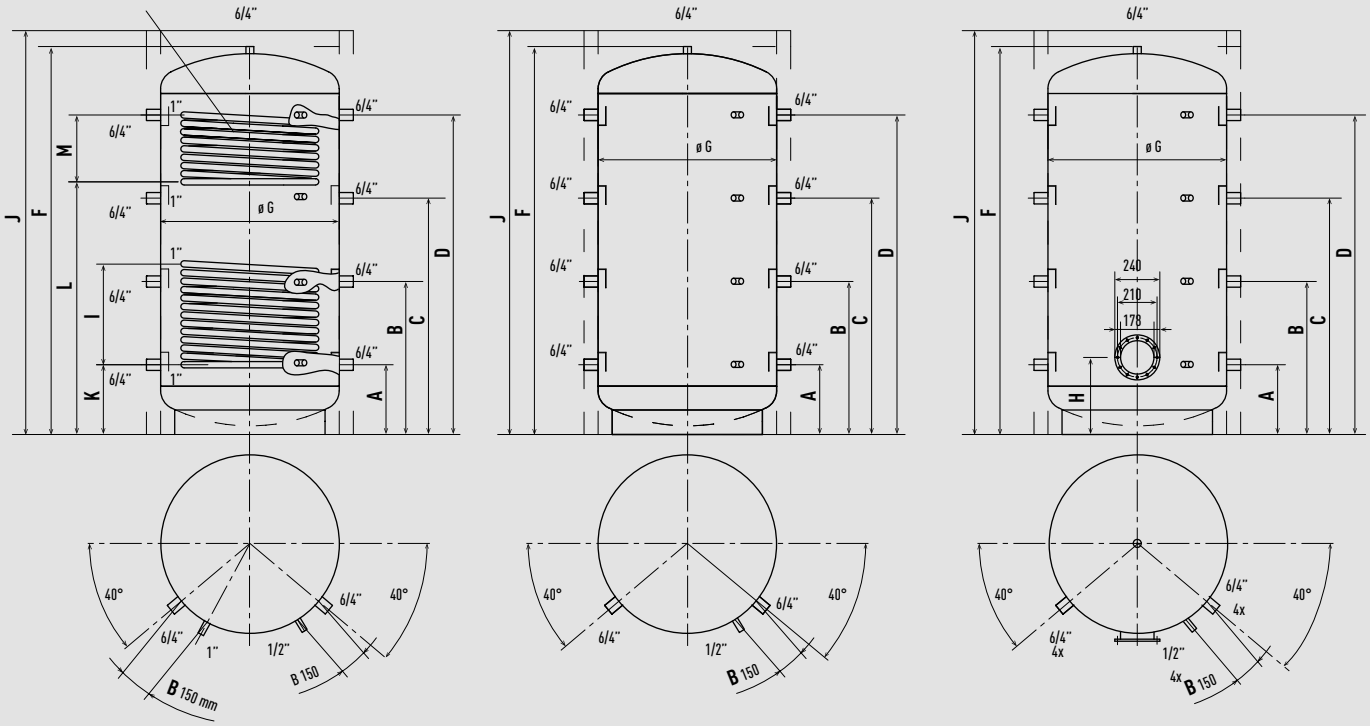
Buffer tank – PAW-BTANKG200L / PAW-BTANKG260L.



	A: External diameter	B: Overall height	C	D	E	F	L	T: connection	tm: probe tube for sensors	p: Purge
	mm	mm	mm	mm	mm	mm	mm	Inch G/F	Ø int. (mm)	Inch G/M
PAW-BTANKG200L	620	983	168	624	194	566	285	1 ½	10	1
PAW-BTANKG260L	620	1293	168	873	279	652	285	1 ½	10	1

Unit: mm

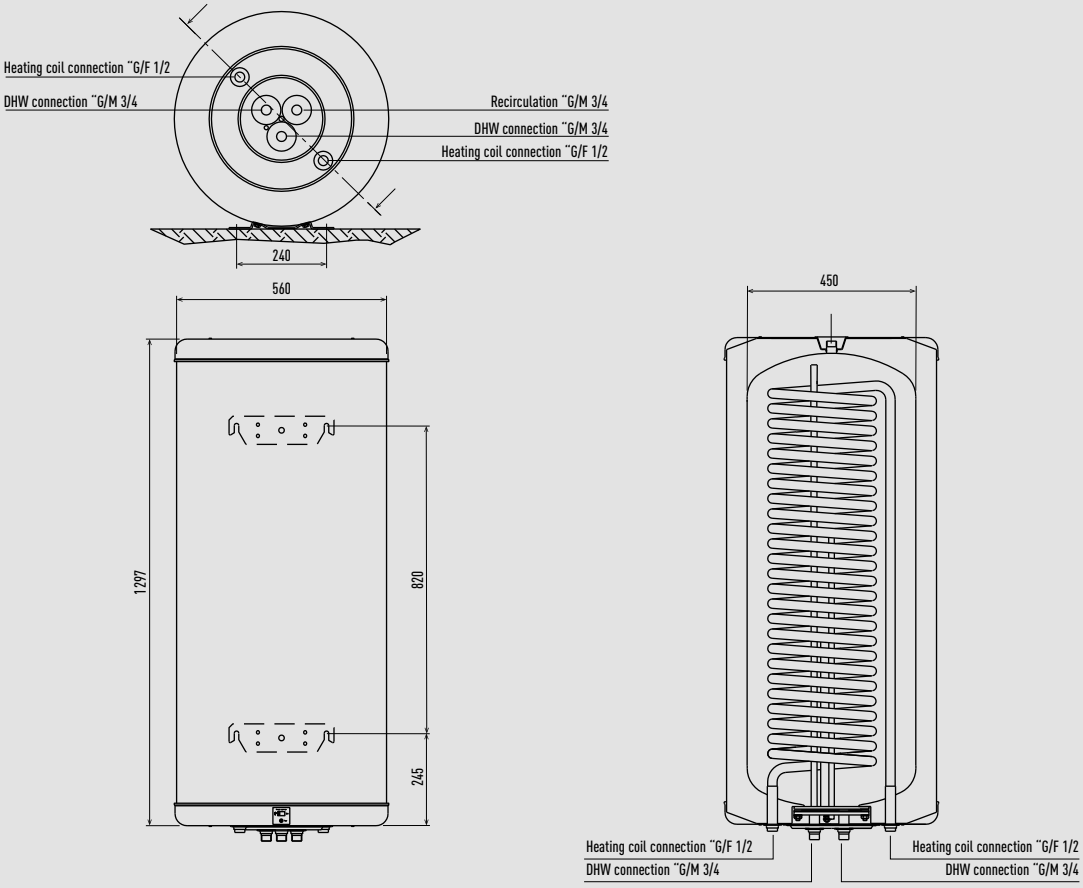
Buffer tank – PAW-BC50FAE / PAW-BC80FAE / PAW-BC100FAE.



	Dimensions (mm)												Tipping height (mm)
	A	B	C	D	F	ØG	H	I	J	K	L	M	
PAW-BC50FAE	220	620	1010	1390	1640	650	340	495	1725	220	—	—	1670
PAW-BC80FAE	260	630	1030	1430	1700	790	390	585	1785	260	1070	360	1750
PAW-BC100FAE	310	745	1250	1710	2050	790	390	720	2135	310	1160	540	2090

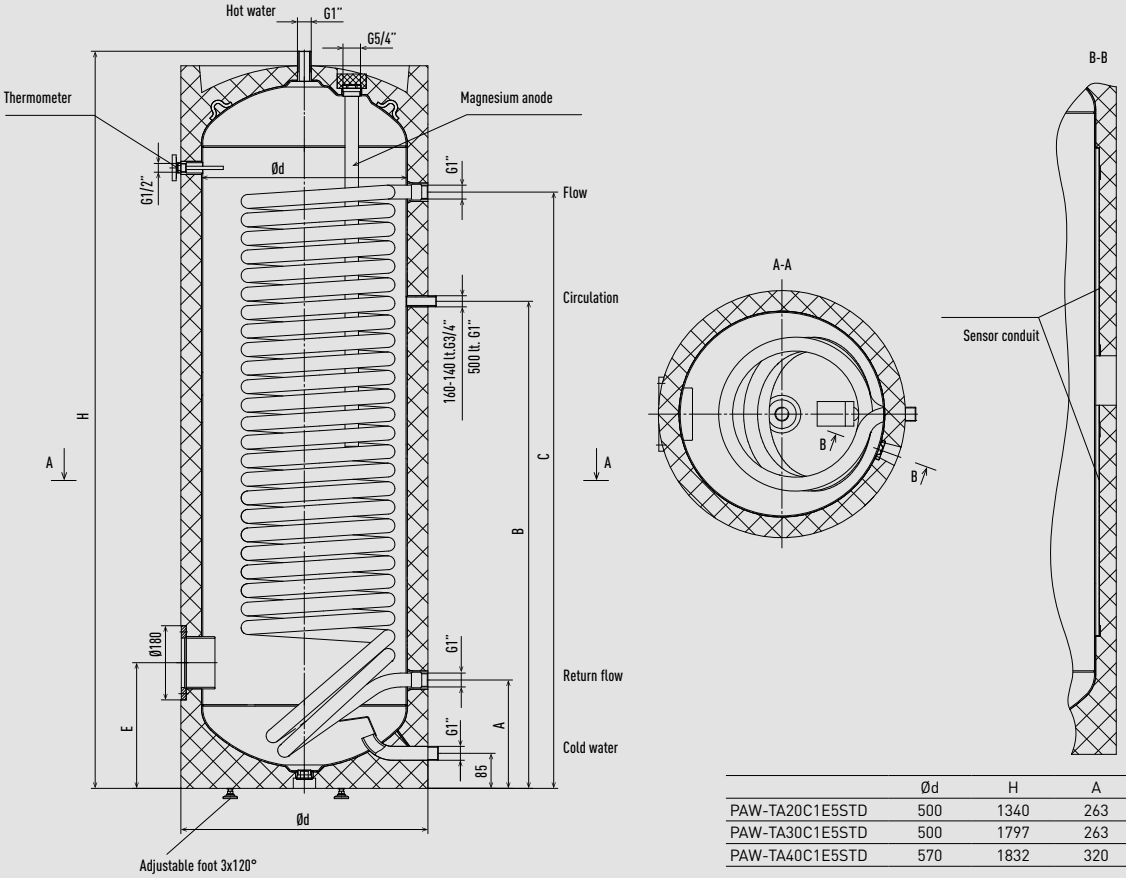
Unit: mm

Enamelled DHW tank – PAW-TA15C1E5.



Unit: mm

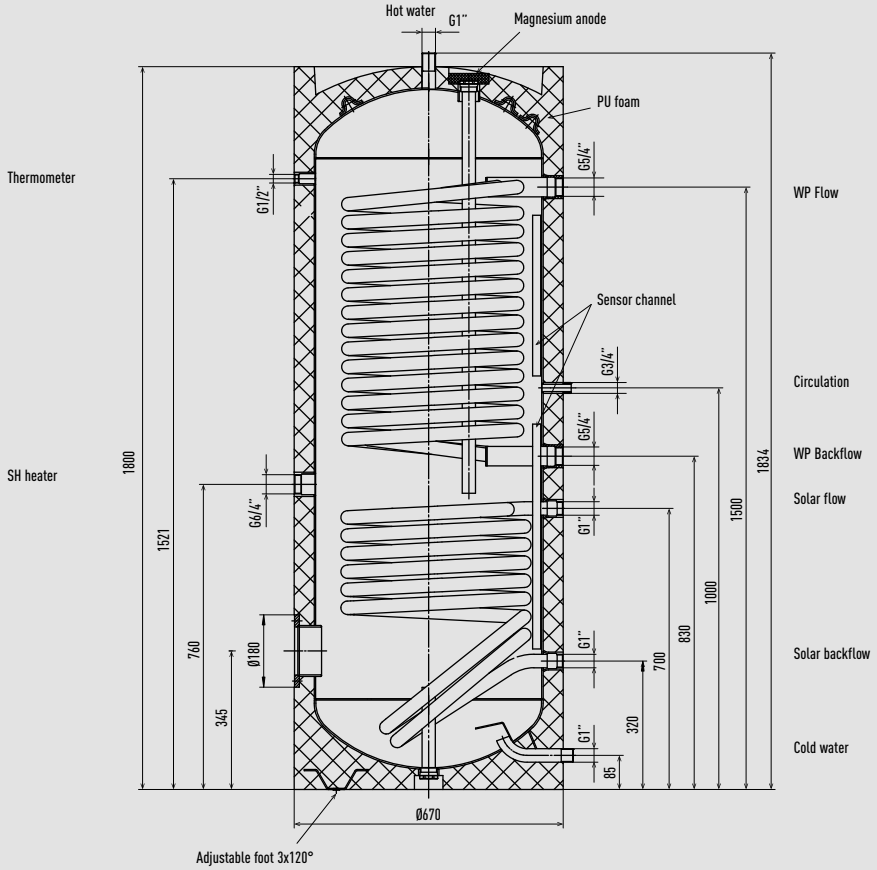
Enamelled DHW tanks – PAW-TA20C1E5STD / PAW-TA30C1E5STD / PAW-TA40C1E5STD.



	Ød	H	A	B	C	E
PAW-TA20C1E5STD	500	1340	263	803	998	305
PAW-TA30C1E5STD	500	1797	263	983	1313	305
PAW-TA40C1E5STD	570	1832	320	1000	1460	345

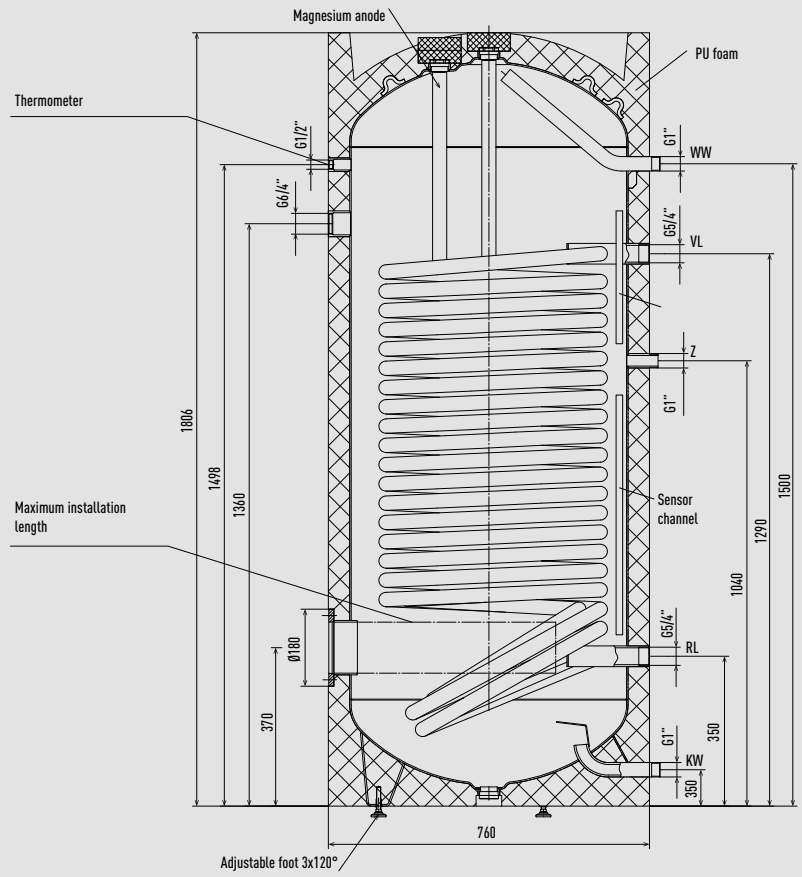
Unit: mm

Enamelled DHW tank – PAW-TA30C2E5STD.



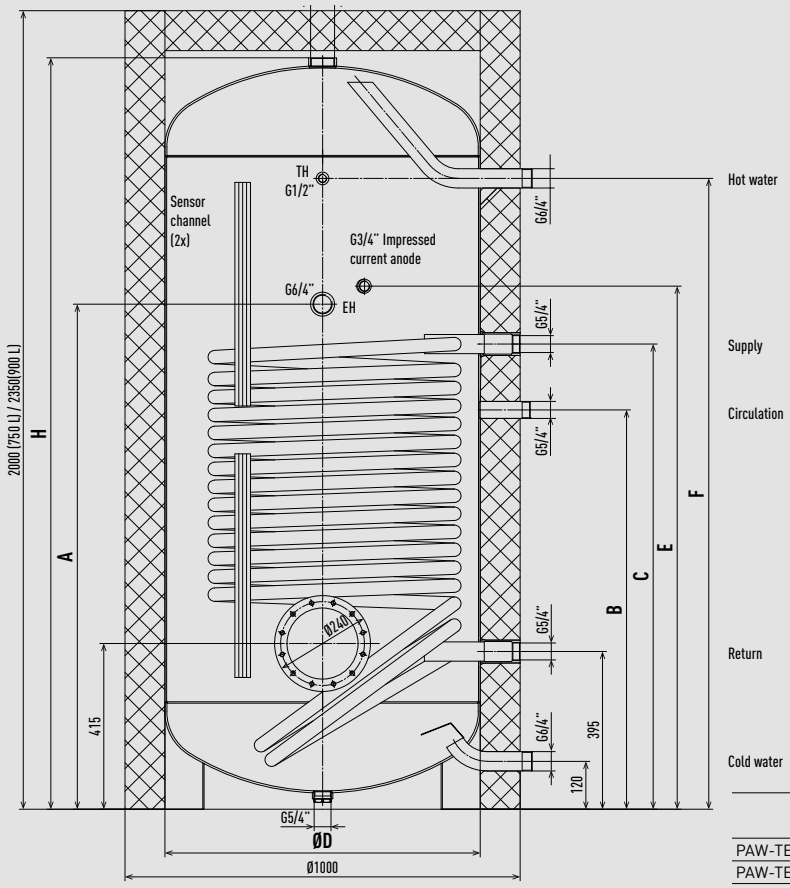
Unit: mm

Enamelled DHW tank – PAW-TE50H1AE.



Unit: mm

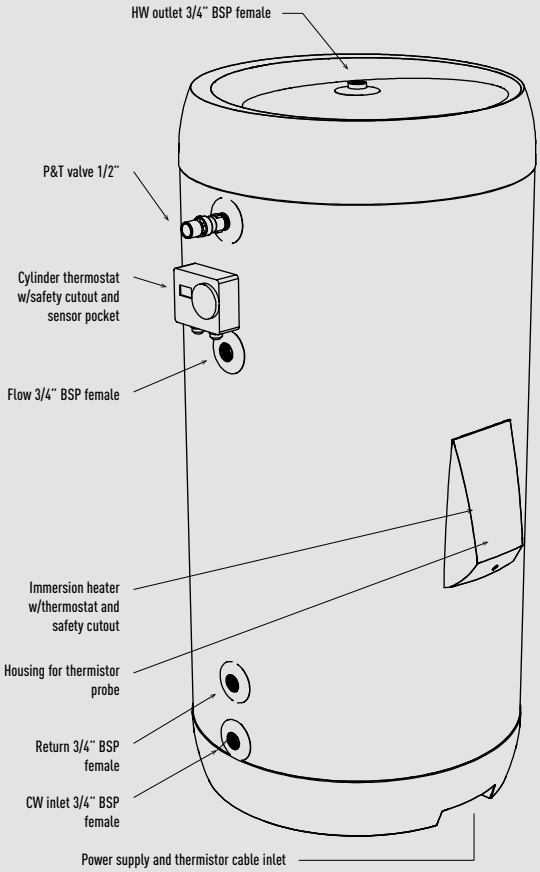
Enamelled DHW tank – PAW-TE75H1AEAN / PAW-TE90H1AEAN.

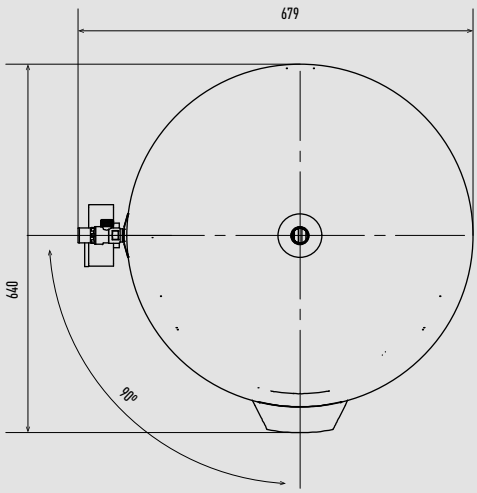


	H	H with insulation	ØD	A	B	C	E	F
PAW-TE75H1AEAN	1882	2000	790	1265	1000	1165	1310	1580
PAW-TE90H1AEAN	2228	2350	790	1445	1180	1345	1490	1920

Unit: mm

Stainless steel DHW tank – PAW-TD20C1E5-1 / PAW-TD30C1E5-1 / PAW-TD30C1E5HI-1.

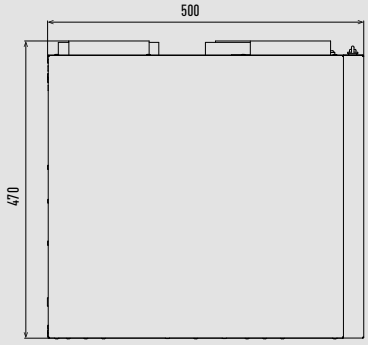




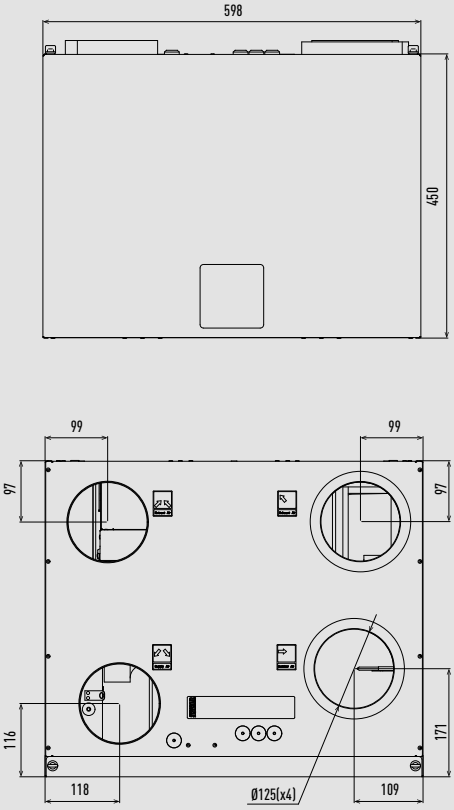
Unit: mm

Heat recovery ventilation unit.

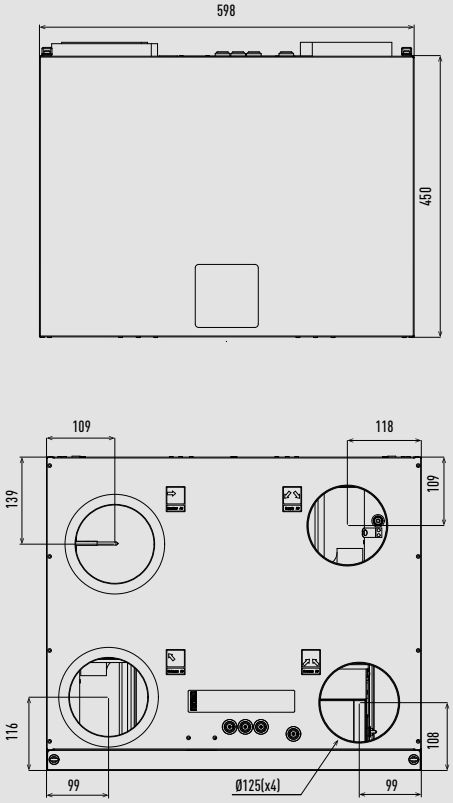
Side view



PAW-A2W-VENTA-L

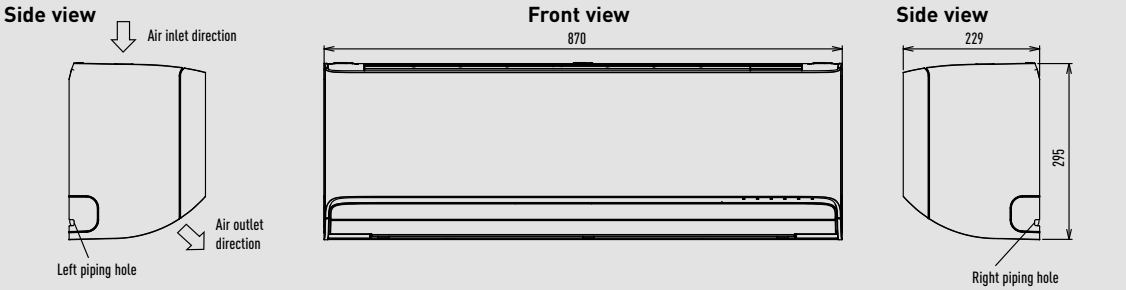


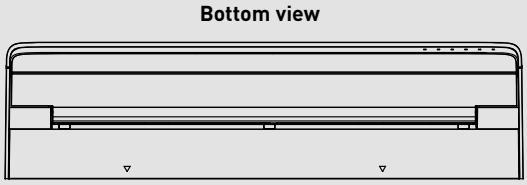
PAW-A2W-VENTA-R

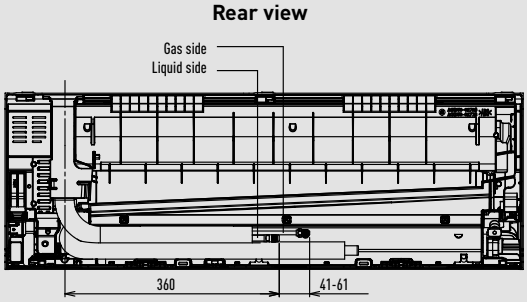


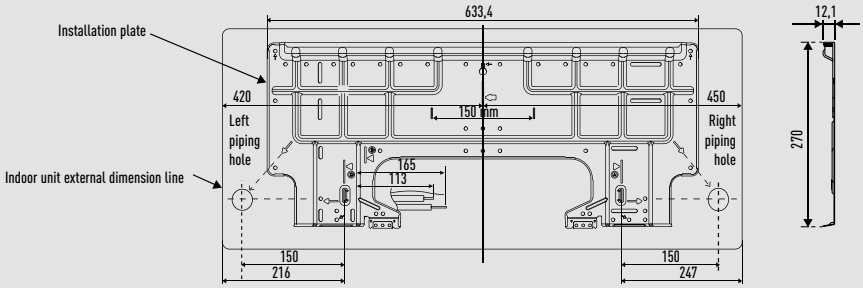
Unit: mm

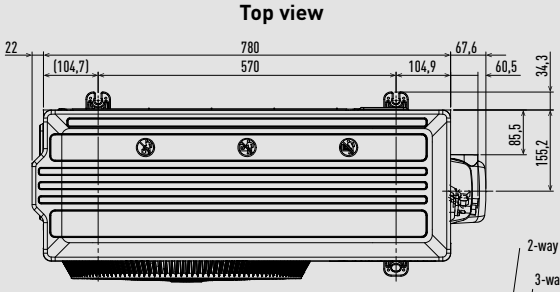
Wall-mounted Etherea (from 1,6 to 4,2 kW).

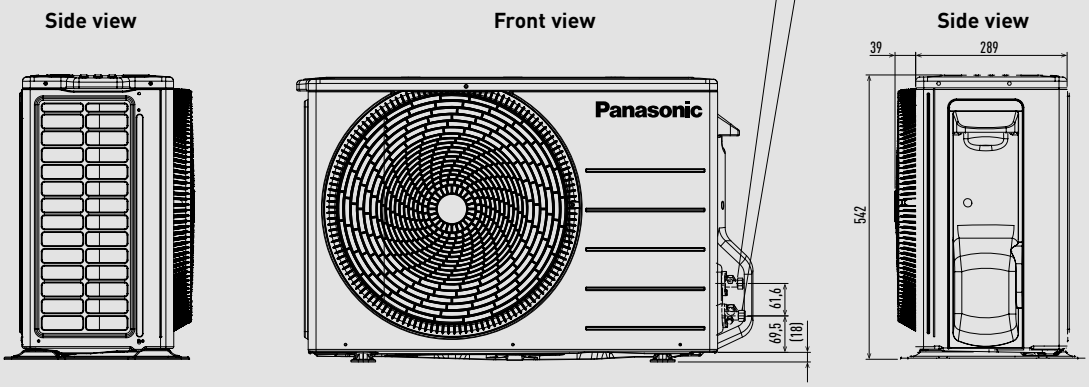






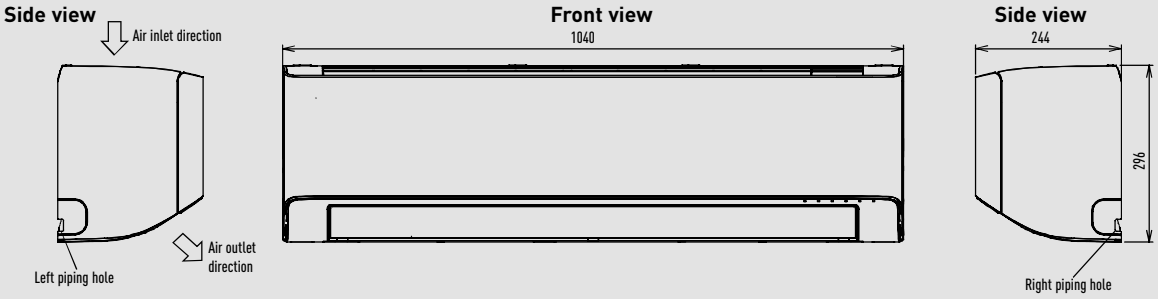


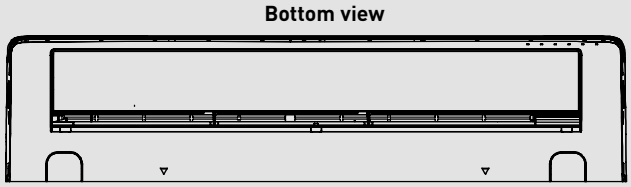


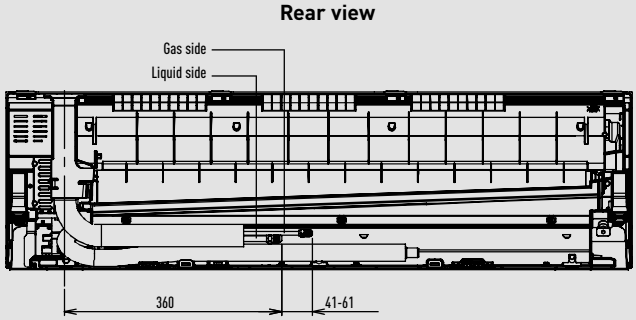


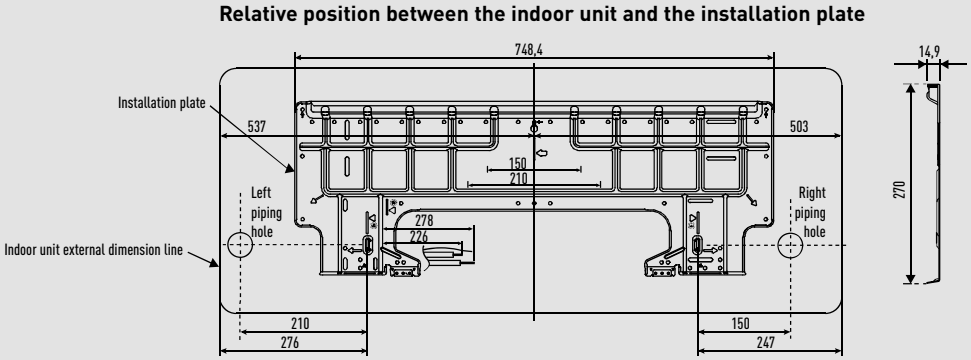
Unit: mm

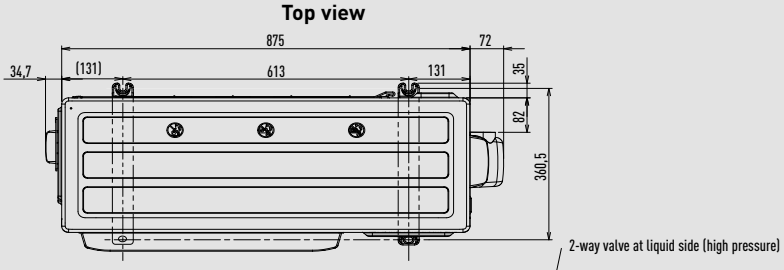
Wall-mounted Etherea (5,0 and 7,1 kW).

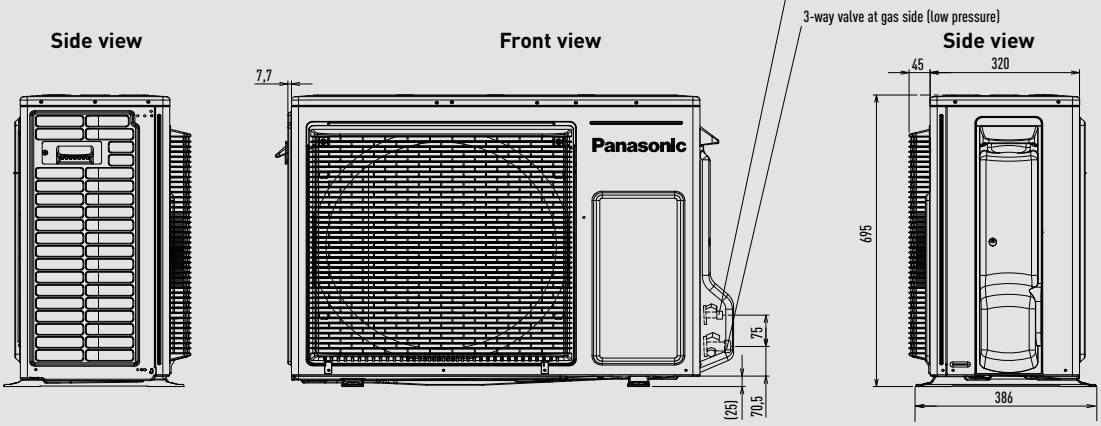








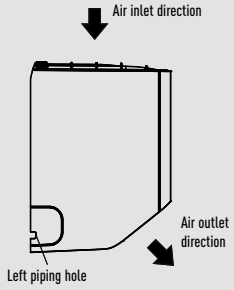




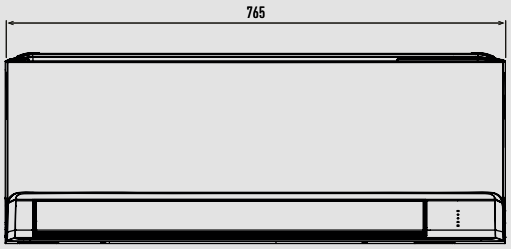
Unit: mm

Wall-mounted TZ super-compact (from 1,6 to 5,0 kW).

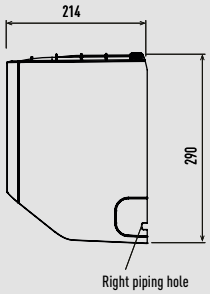
Side view



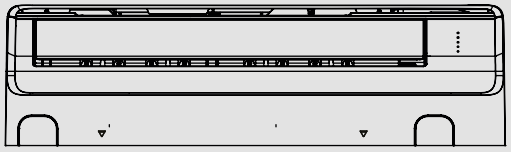
Front view



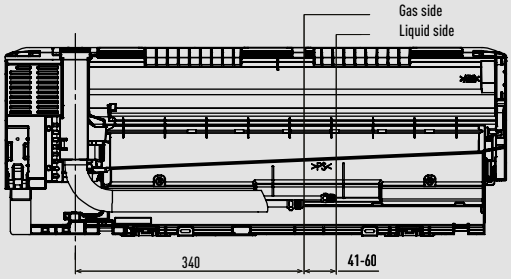
Side view



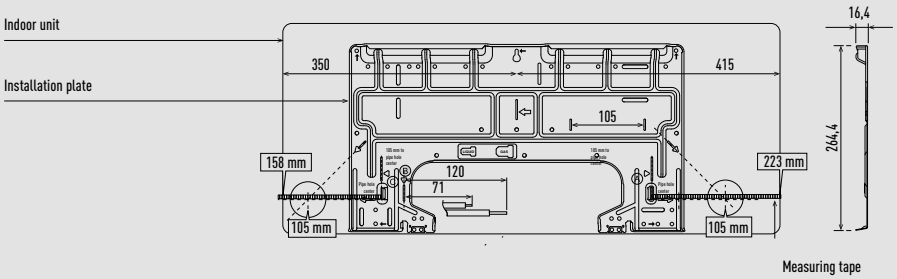
Bottom view



Rear view

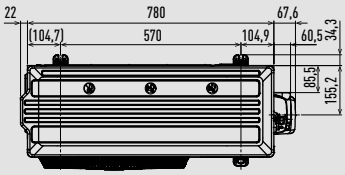


Relative position between the indoor unit and the installation plate

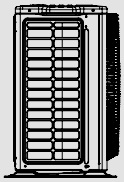


CU-TZ20CKE / CU-TZ25CKE / CU-TZ35CKE / CU-TZ42CKE

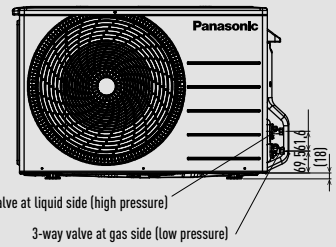
Top view



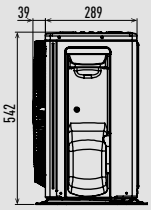
Side view



Front view

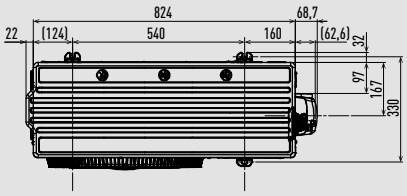


Side view

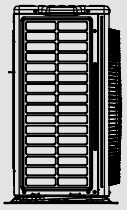


CU-TZ50CKE

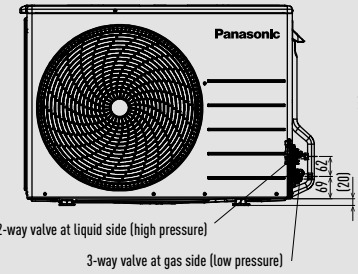
Top view



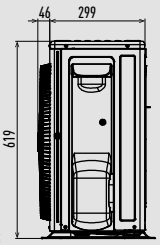
Side view



Front view

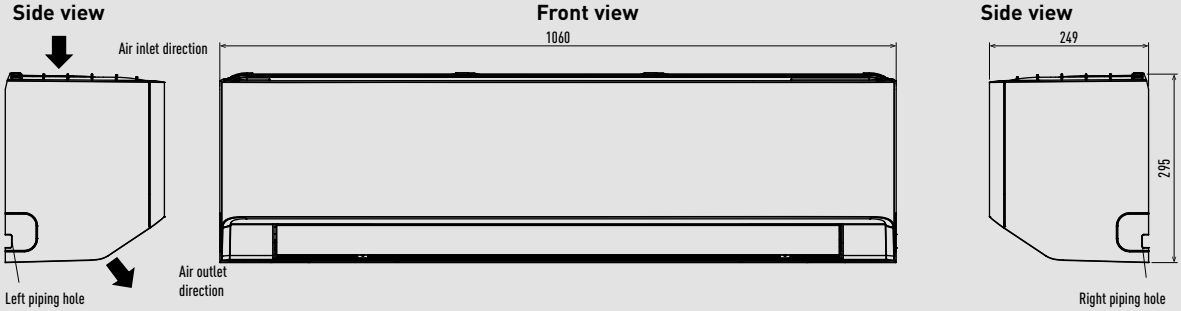


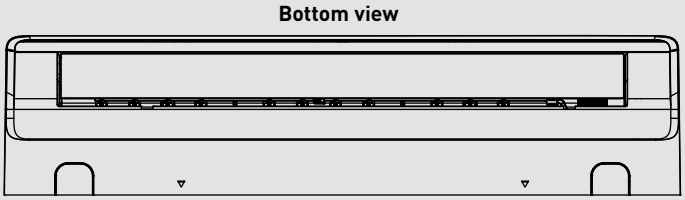
Side view

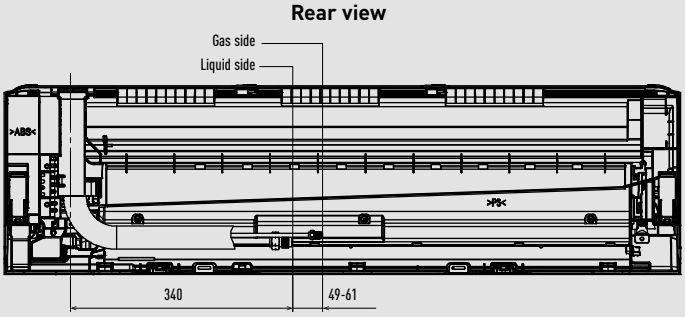


Unit: mm

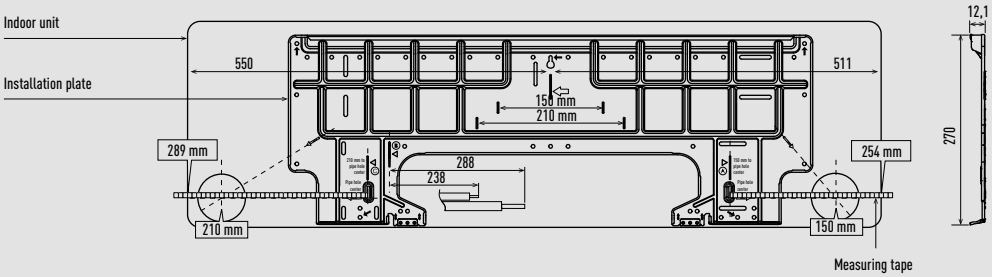
Wall-mounted TZ super-compact (6,0 and 7,1 kW).





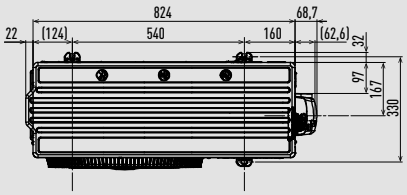


Relative position between the indoor unit and the installation plate



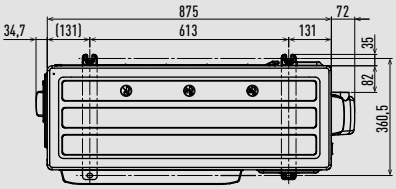
CU-TZ60CKE

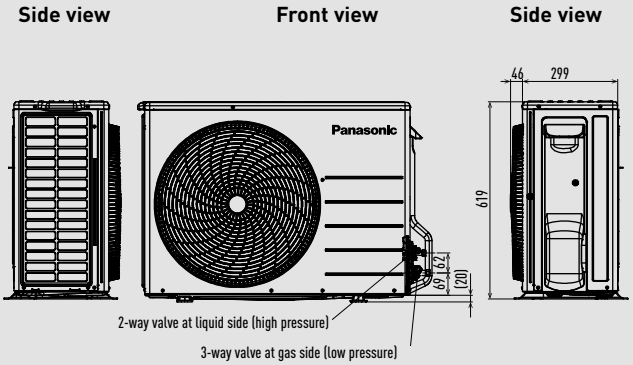
Top view

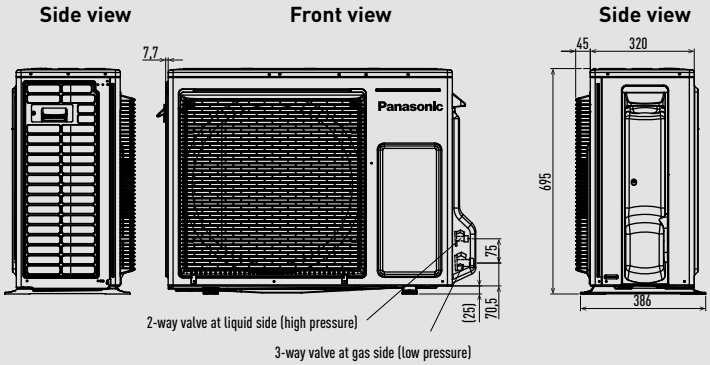


CU-TZ71CKE

Top view



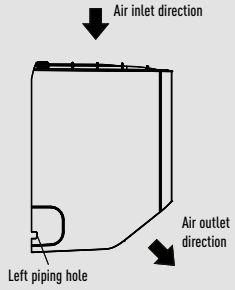




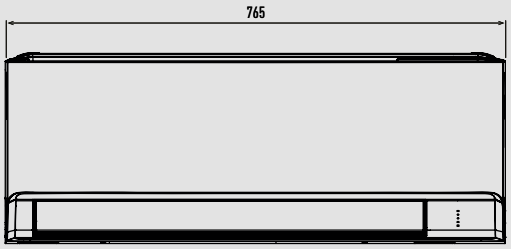
Unit: mm

Wall-mounted BZ super-compact.

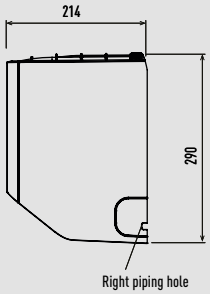
Side view



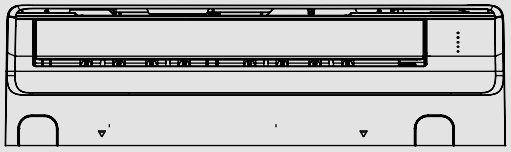
Front view



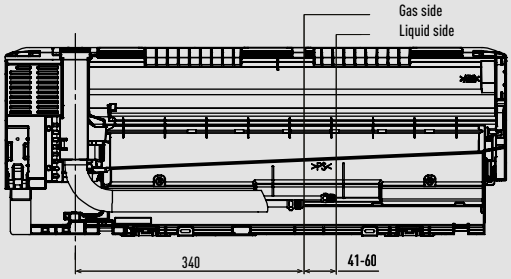
Side view



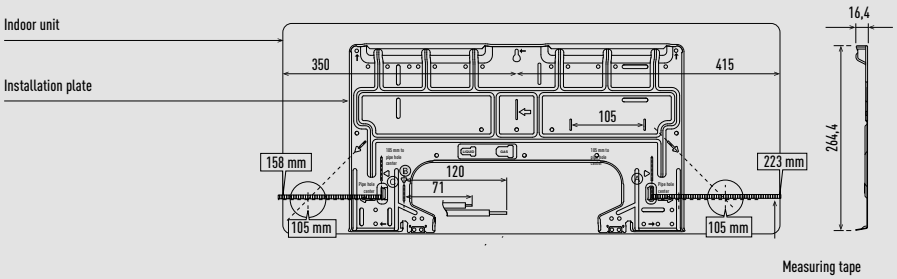
Bottom view



Rear view

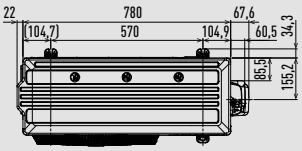


Relative position between the indoor unit and the installation plate

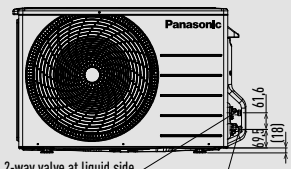


CU-BZ25CKE / CU-BZ35CKE

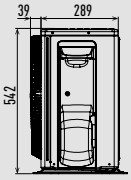
Top view



Front view

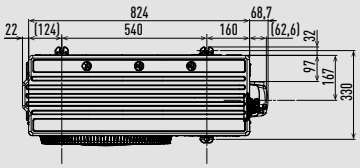


Side view

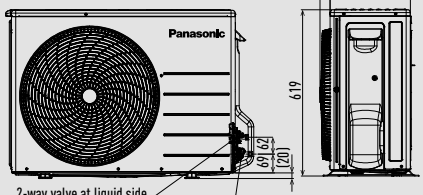


CU-BZ50CKE

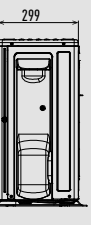
Top view



Front view

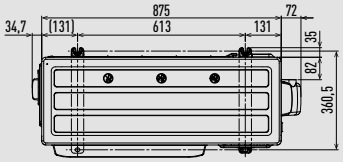


Side view

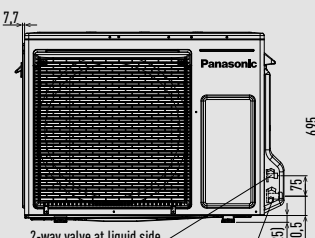


CU-BZ60CKE

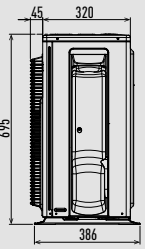
Top view



Front view

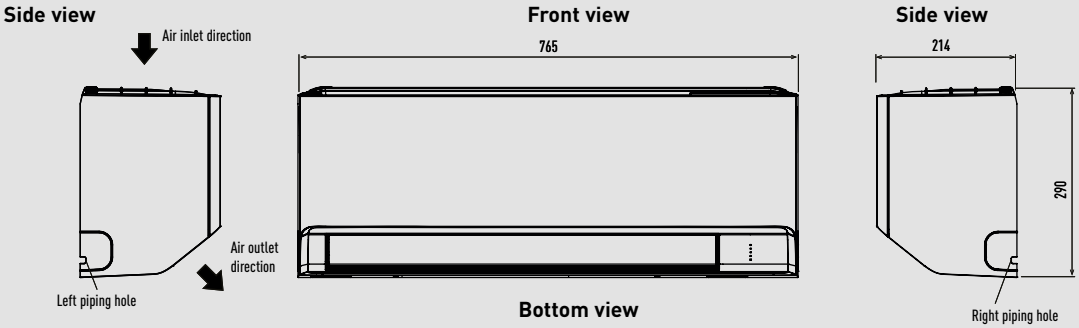


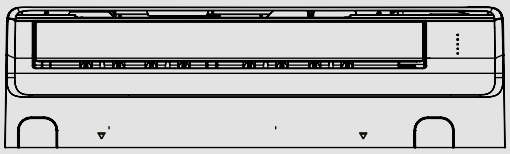
Side view

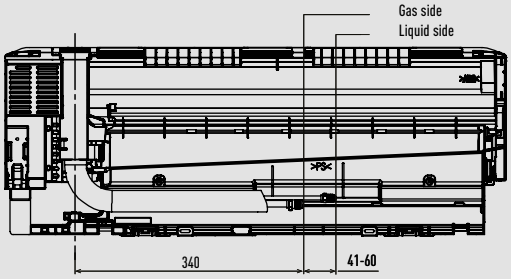


Unit: mm

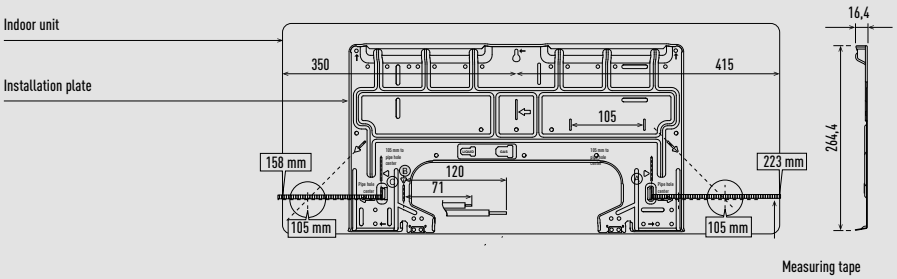
Wall-mounted UZ super-compact.





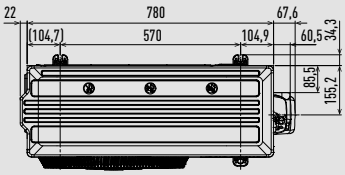


Relative position between the indoor unit and the installation plate

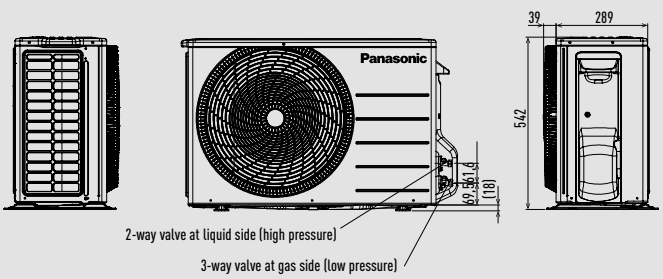


CU-UZ25CKE / CU-UZ35CKE

Top view

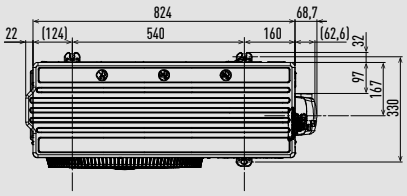


Side view **Front view** **Side view**

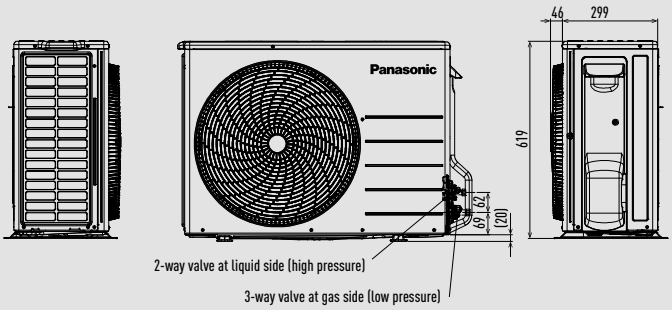


CU-UZ50CKE

Top view



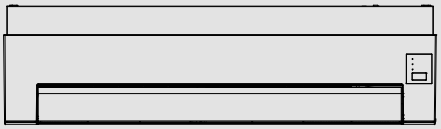
Side view **Front view** **Side view**



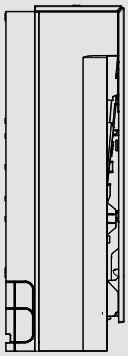
Unit: mm

Floor console.

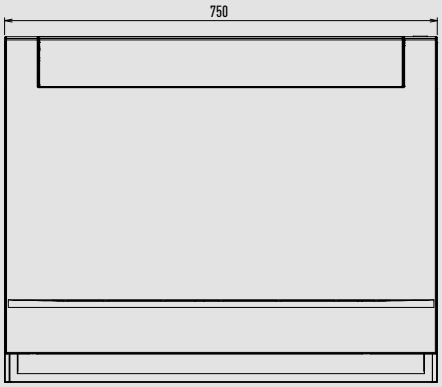
Top view



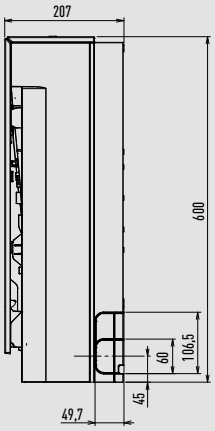
Side view



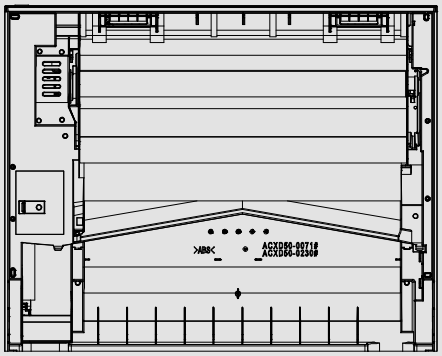
Front view



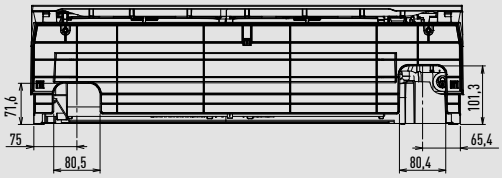
Side view



Rear view

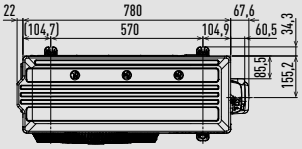


Bottom view

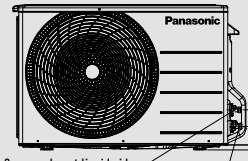


CU-Z25CBEA

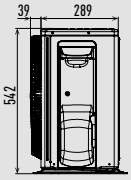
Top view



Front view

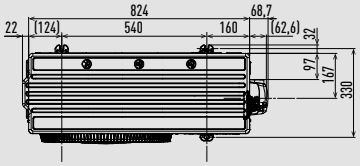


Side view

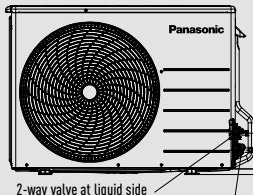


CU-Z35CBEA

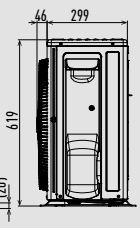
Top view



Front view

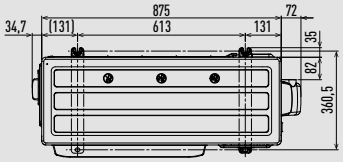


Side view

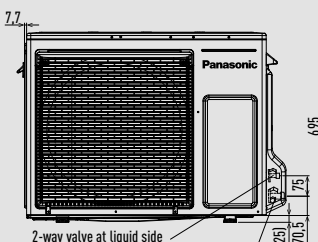


CU-Z50CBEA

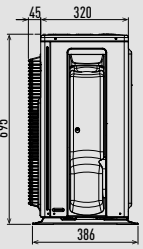
Top view



Front view

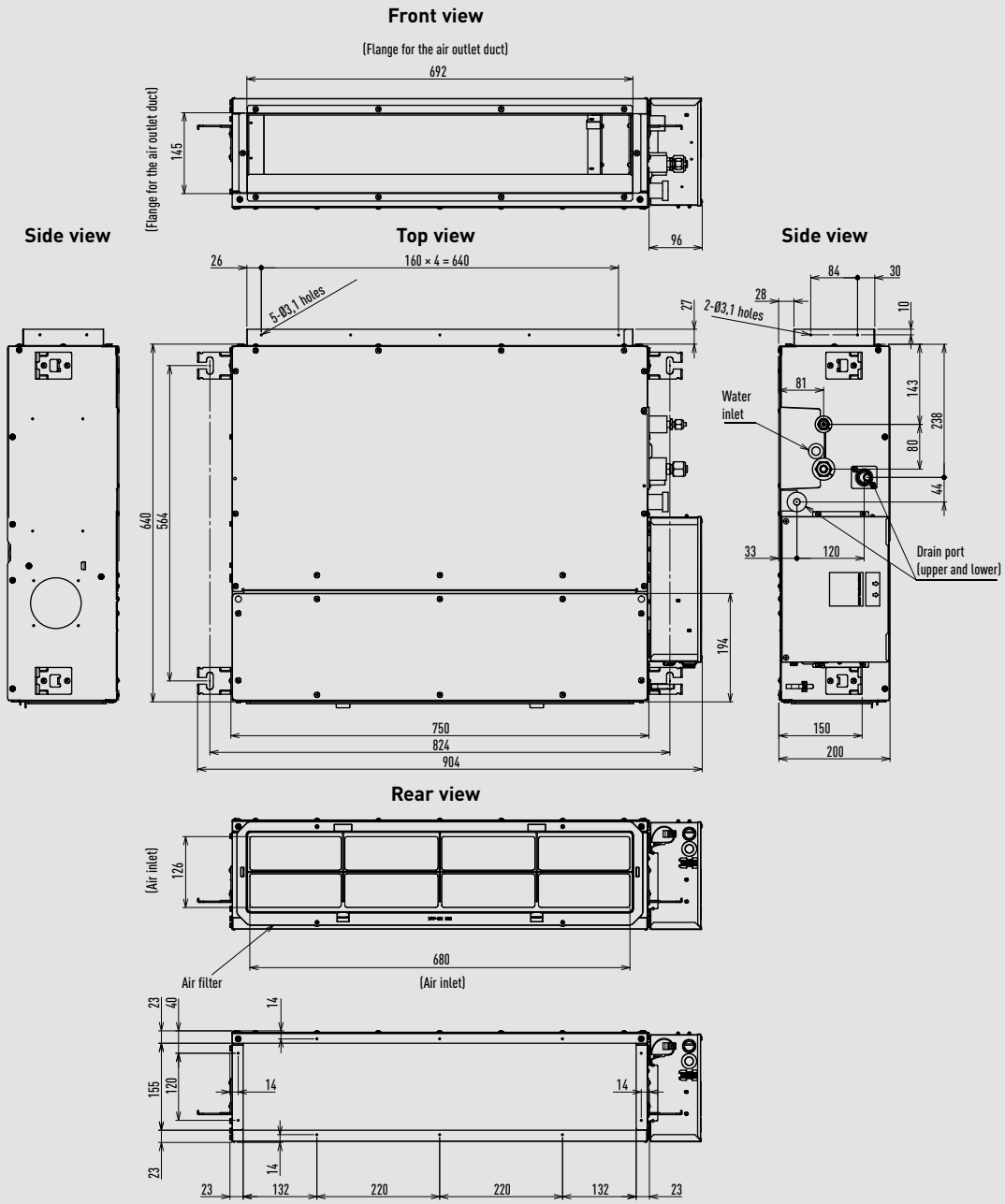


Side view



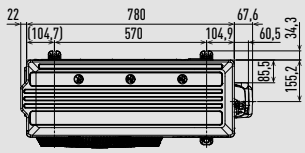
Unit: mm

Low static pressure hide-away.

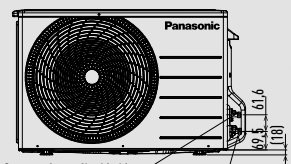


CU-Z25CBEA

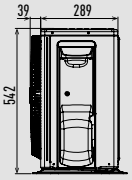
Top view



Front view



Side view

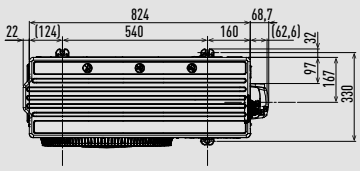


2-way valve at liquid side (high pressure)

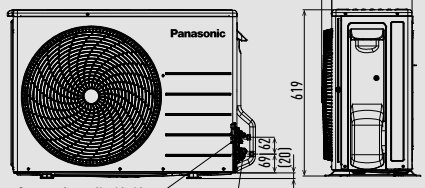
3-way valve at gas side (low pressure)

CU-Z35CBEA

Top view



Front view



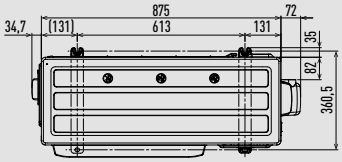
Side view

2-way valve at liquid side (high pressure)

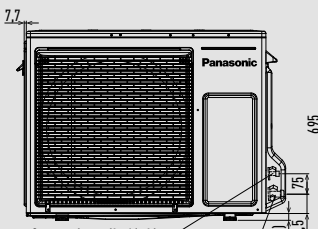
3-way valve at gas side (low pressure)

CU-Z50CBEA / CU-Z60CBEA

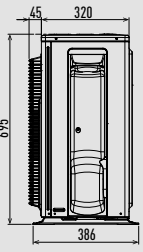
Top view



Front view



Side view

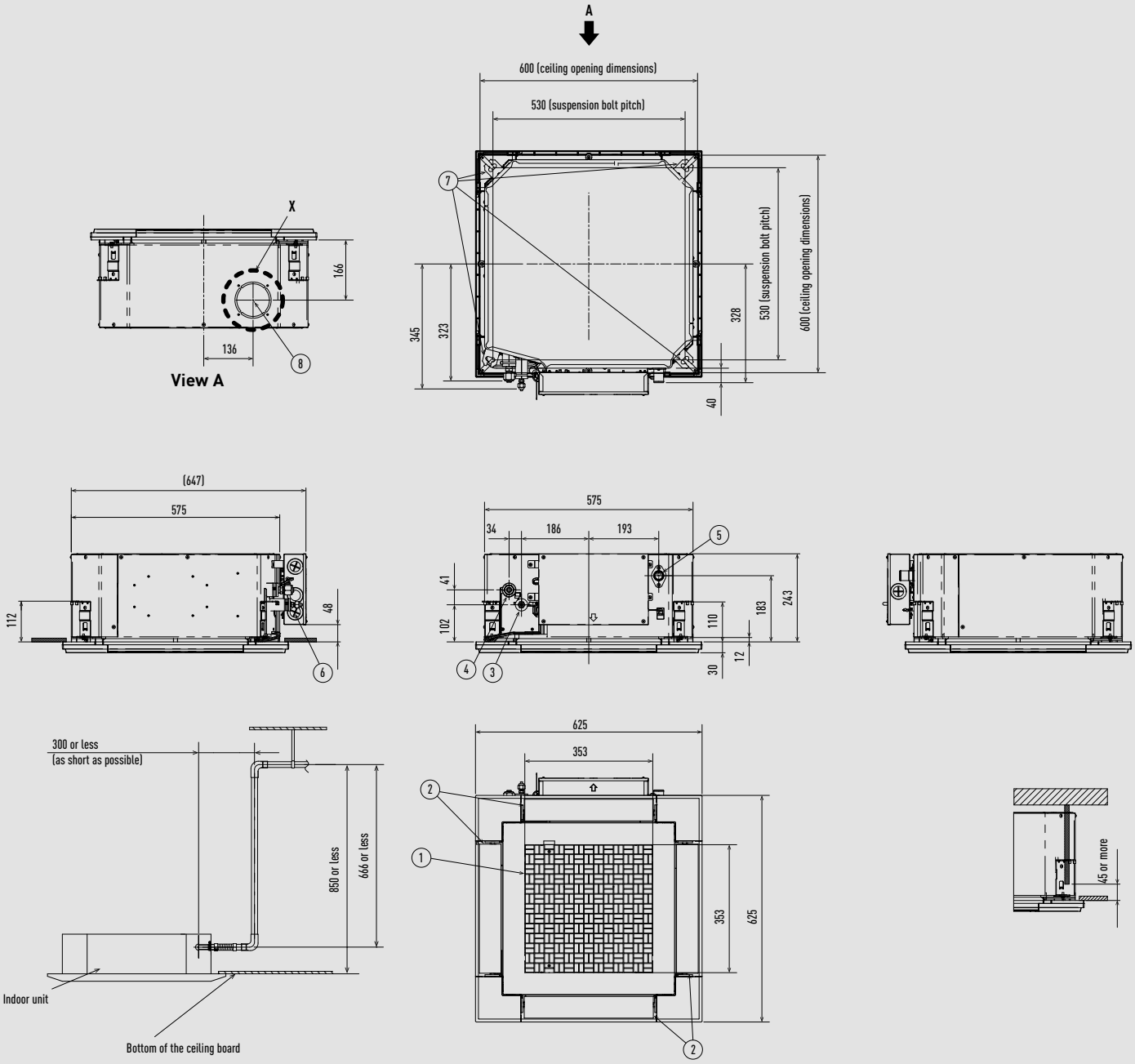


2-way valve at liquid side (high pressure)

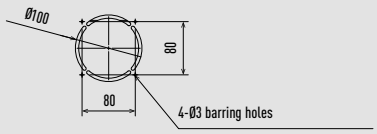
3-way valve at gas side (low pressure)

Unit: mm

Indoor unit Multi system Z – 4 Way 60x60 cassette.



*Length of supplied drain piping= 250 mm.



Detailed view X

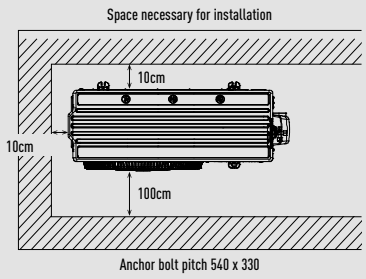
Type		20-50	60
1	Air inlet		
2	Air outlet		
3	Refrigerant piping (liquid)	Ø6,35 (flared)	Ø9,52 (flared)
4	Refrigerant piping (gas)	Ø12,70 (flared)	Ø15,88 (flared)
5	Drain piping connection port VP20		
6	Power supply port		
7	Suspension bolt hole (4-11x26 slot)		
8	Fresh air inlet duct connection port (Ø100) [1]		

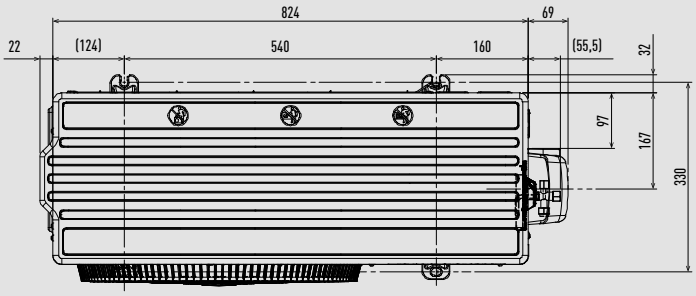
1) Necessary to attach duct connecting flange (field supply).

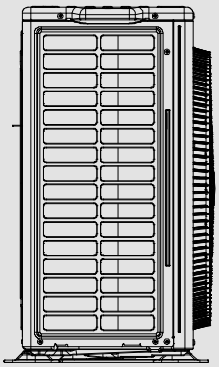
Filter dimension: 362 x 362 x 15 mm.

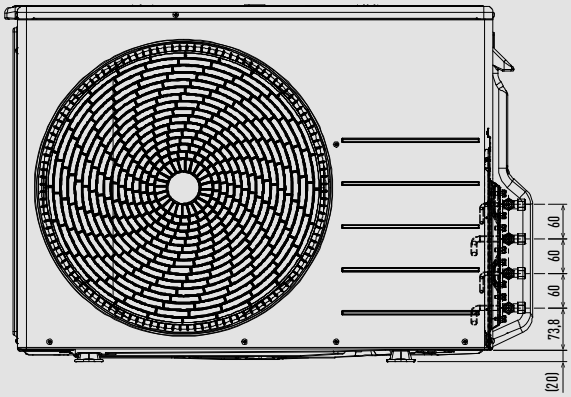
Unit: mm

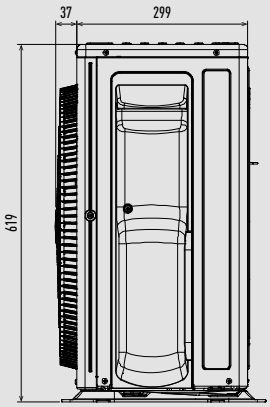
Outdoor units Multi system Z – CU-2Z35CBE / CU-2Z41CBE / CU-2Z50CBE.





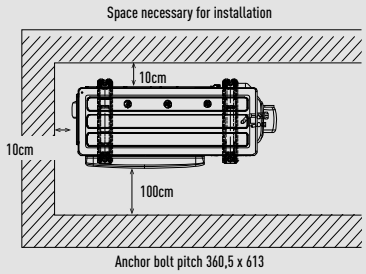


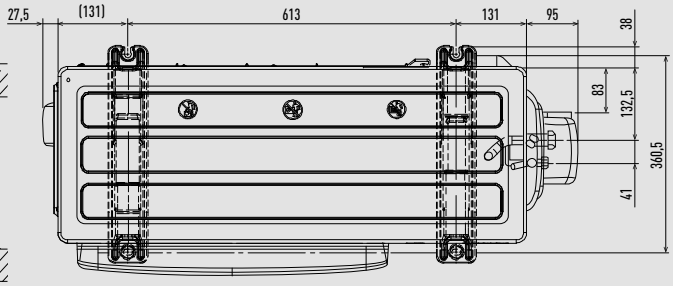


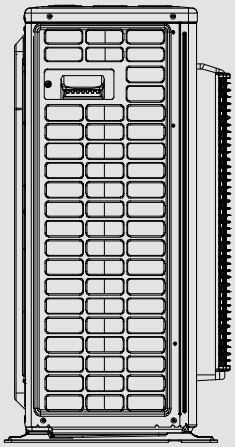


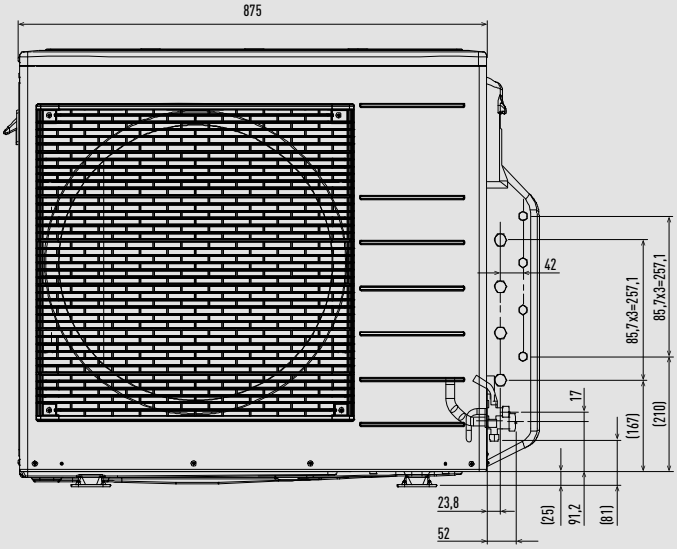
Unit: mm

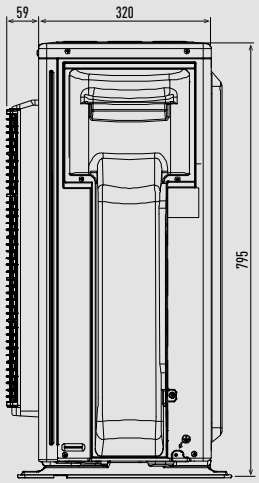
Outdoor units Multi system Z – CU-3Z52CBE / CU-3Z68CBE / CU-4Z68CBE.





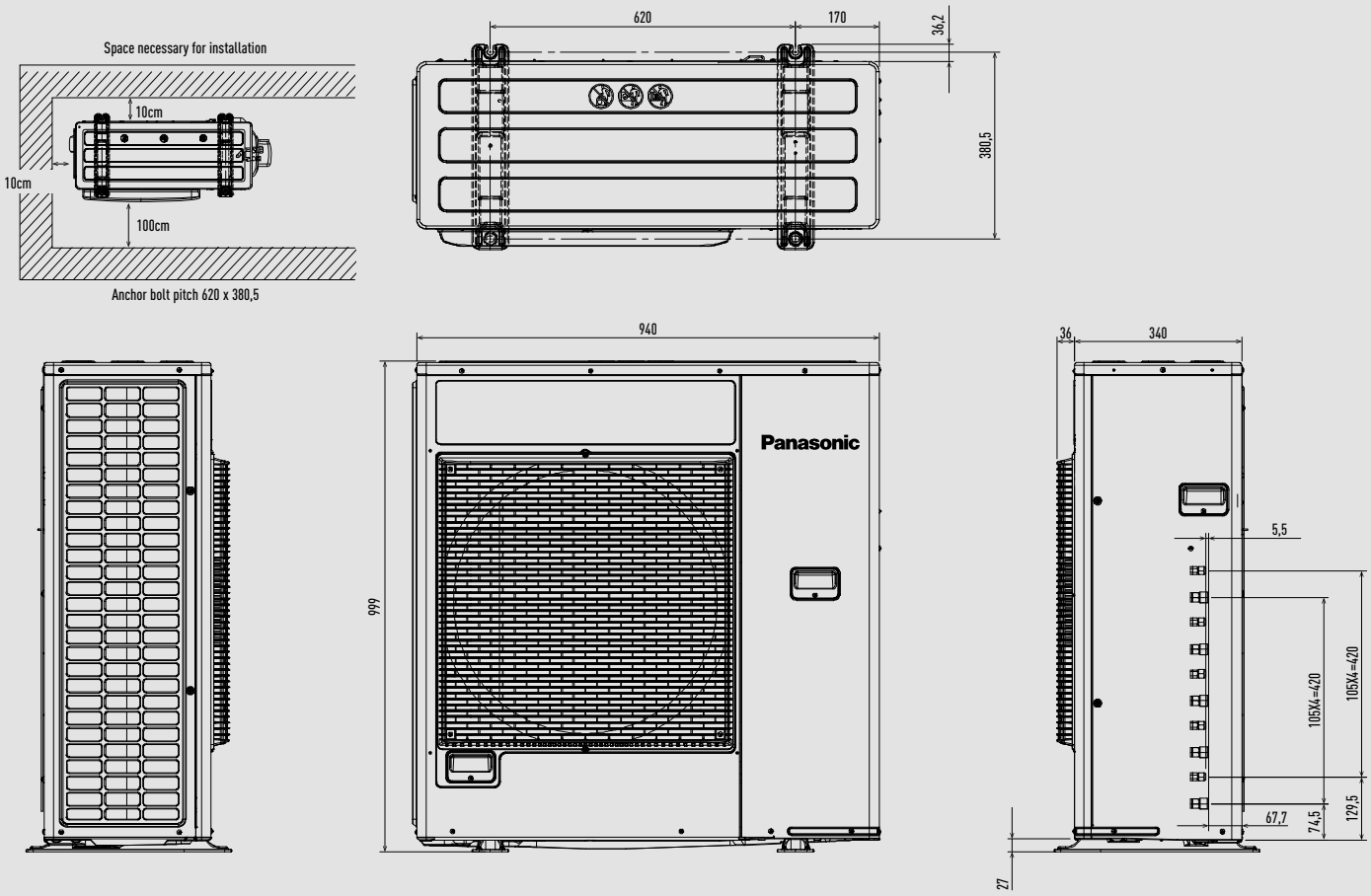






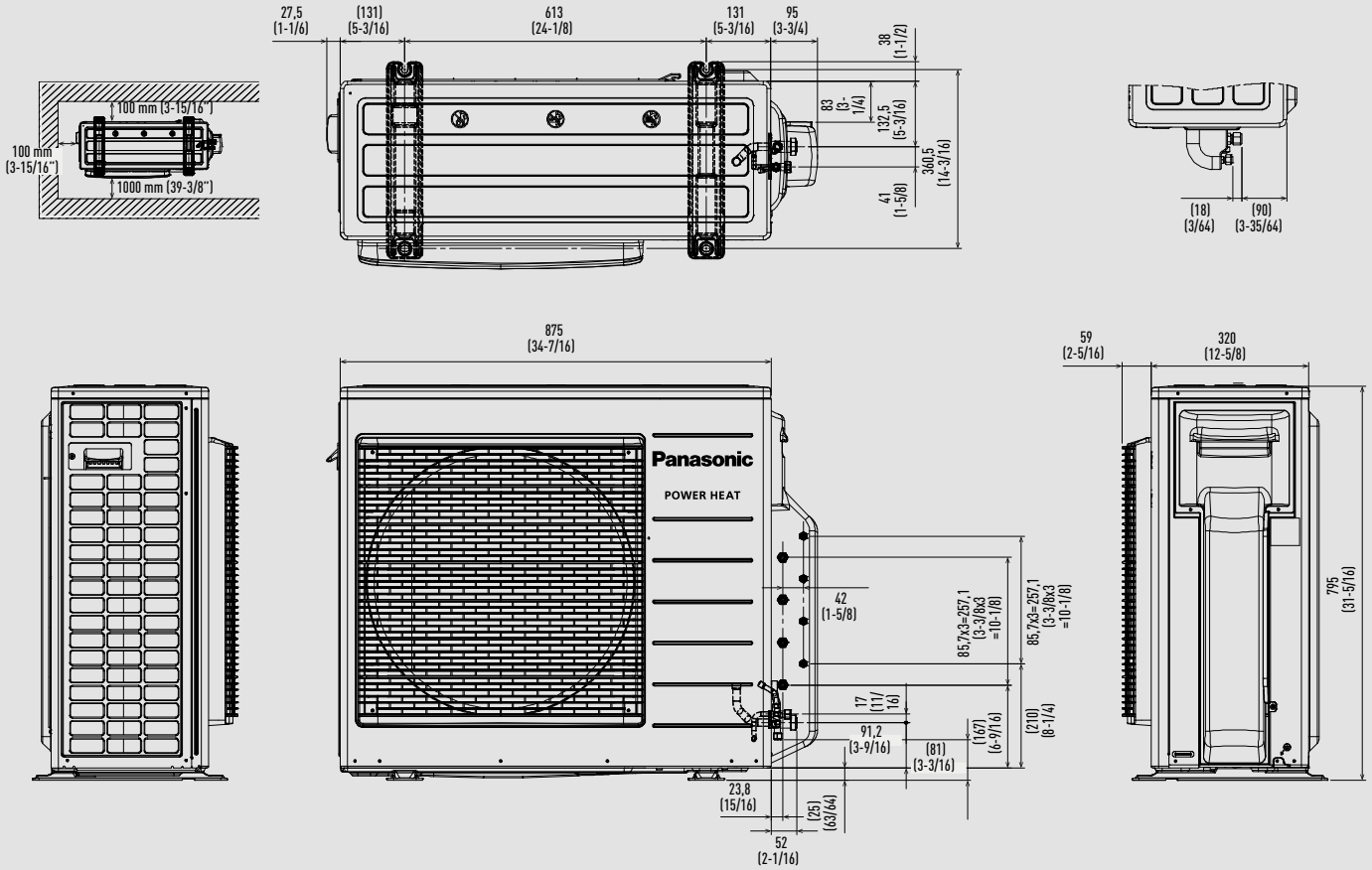
Unit: mm

Outdoor units Multi system Z – CU-4Z80CBE / CU-5Z90CBE.



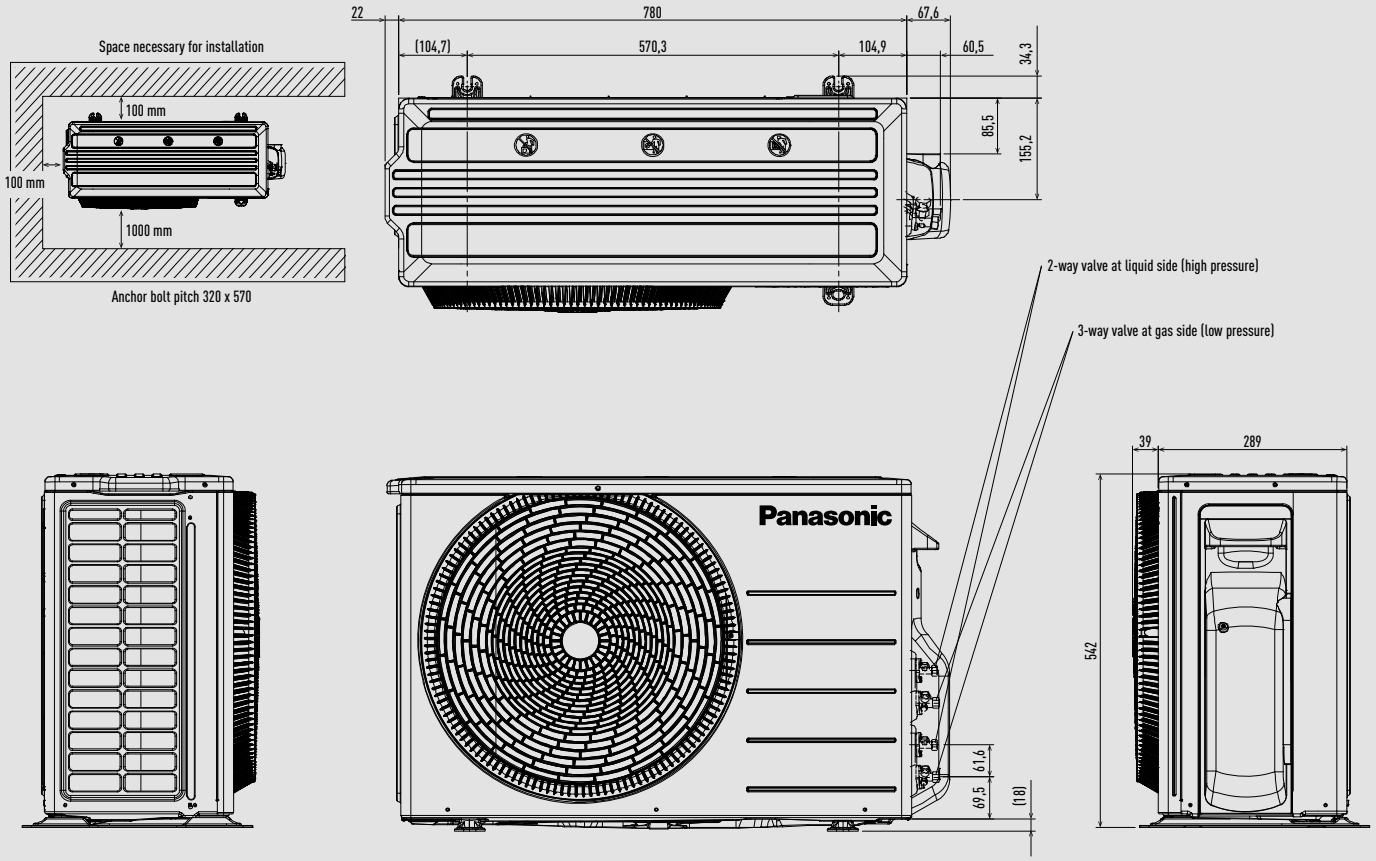
Unit: mm

Outdoor units Power Heat Multi system.



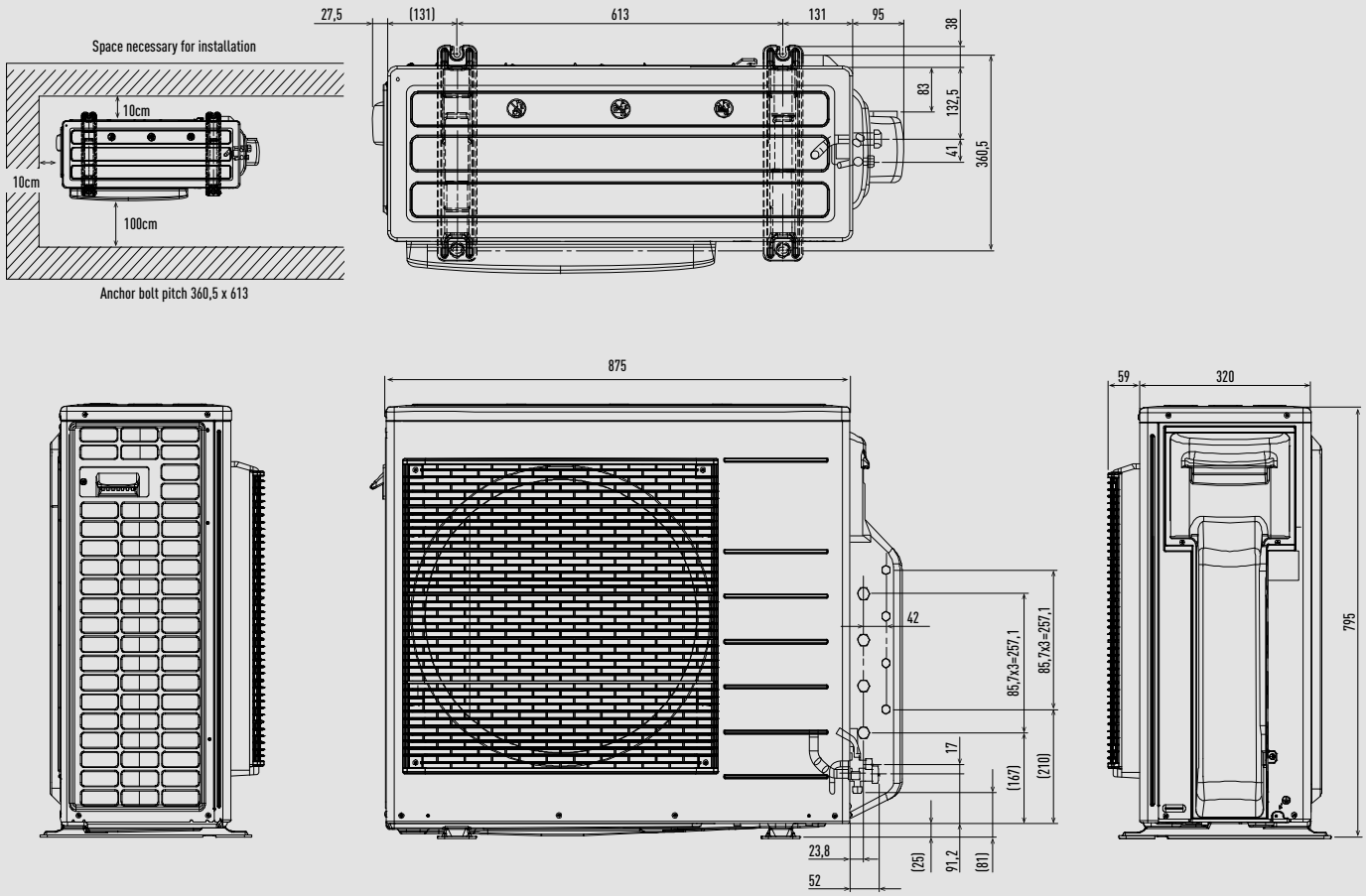
Unit: mm

Outdoor units Multi TZ – CU-2TZ41TBE / CU-2TZ50TBE.



Unit: mm

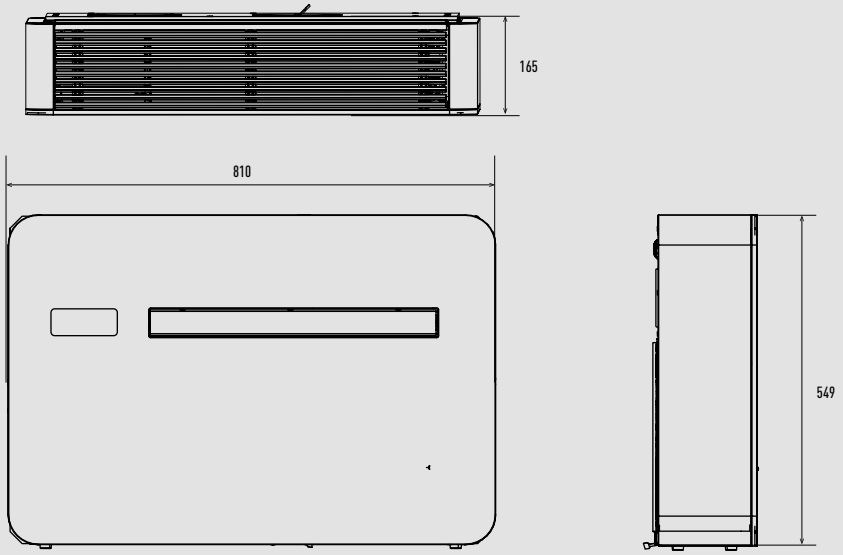
Outdoor units Multi TZ – CU-3TZ52TBE.



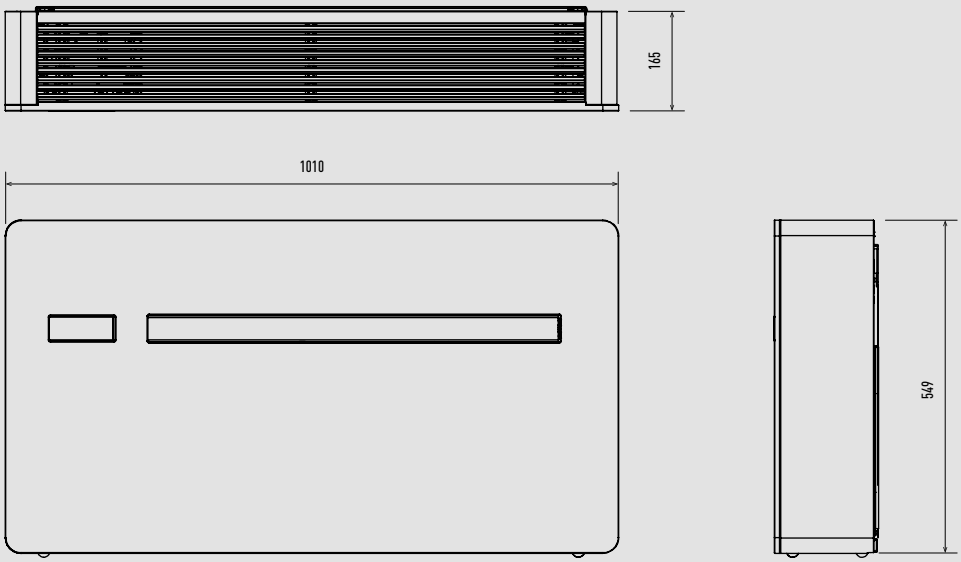
Unit: mm

RAC Solo.

P-MOG16IC5A-E / P-MOG16IC5-E



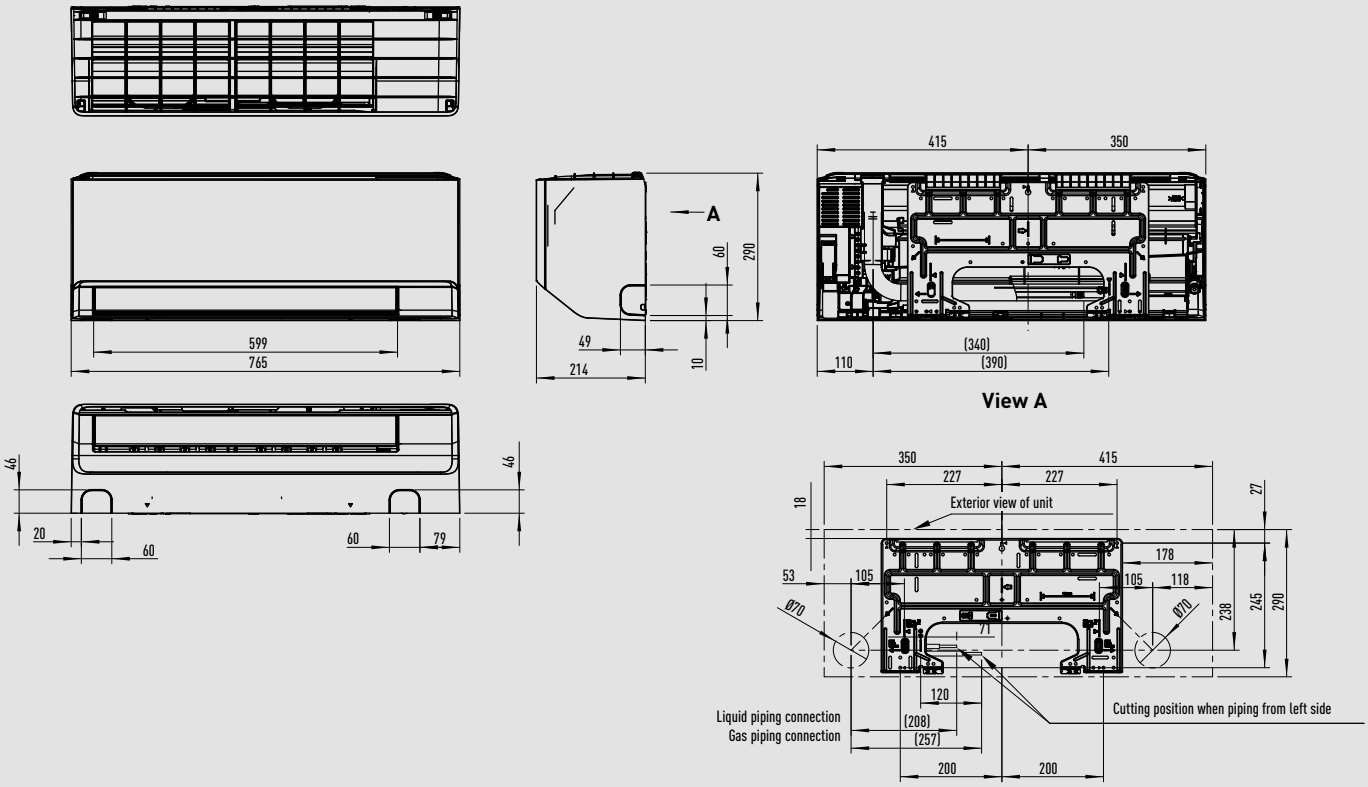
P-MOZ20IC5A-E / P-MOZ25IC5A-E / P-MOZ30IC5A-E / P-MOZ20IC5-E / P-MOZ25IC5-E / P-MOZ30IC5-E



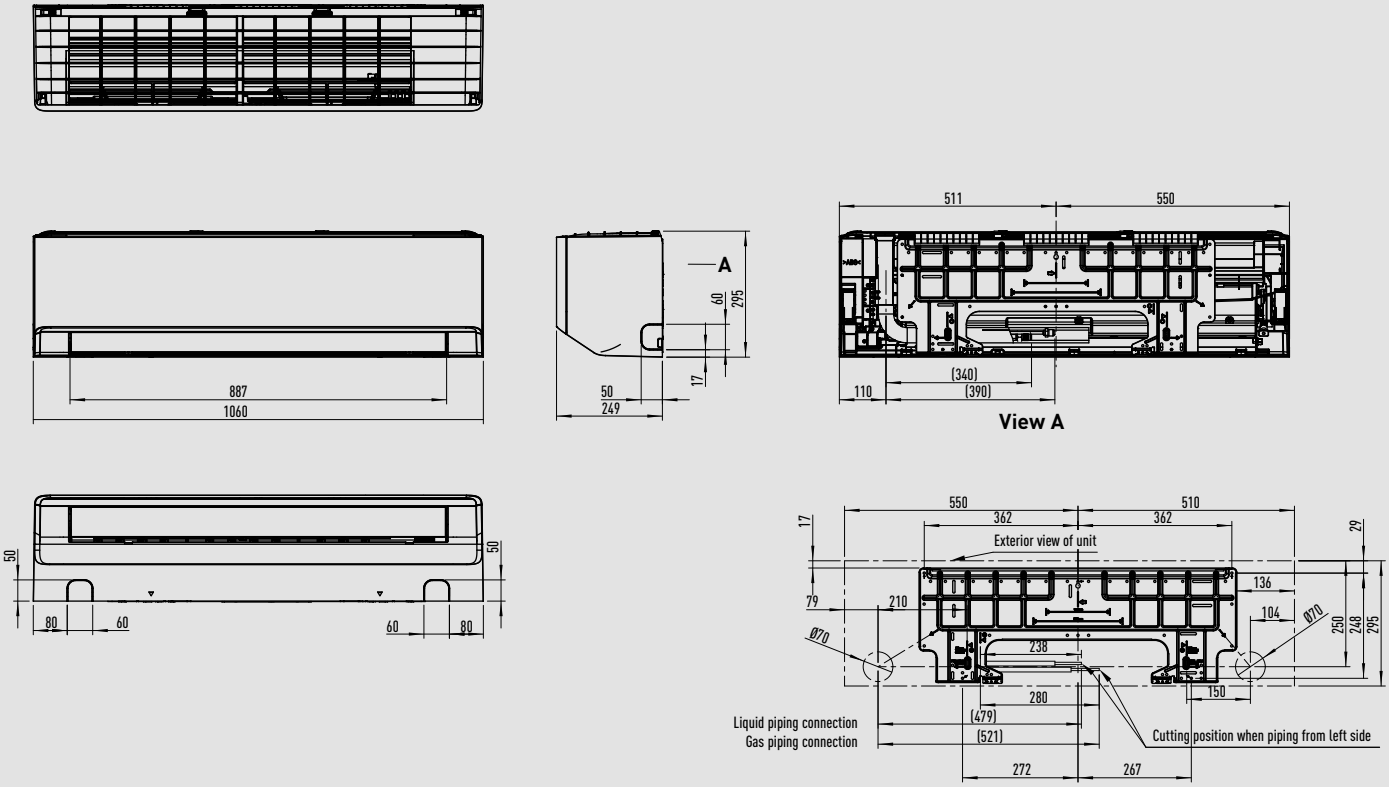
Unit: mm

PACi NX Series wall-mounted – PK4.

S-2545PK4E

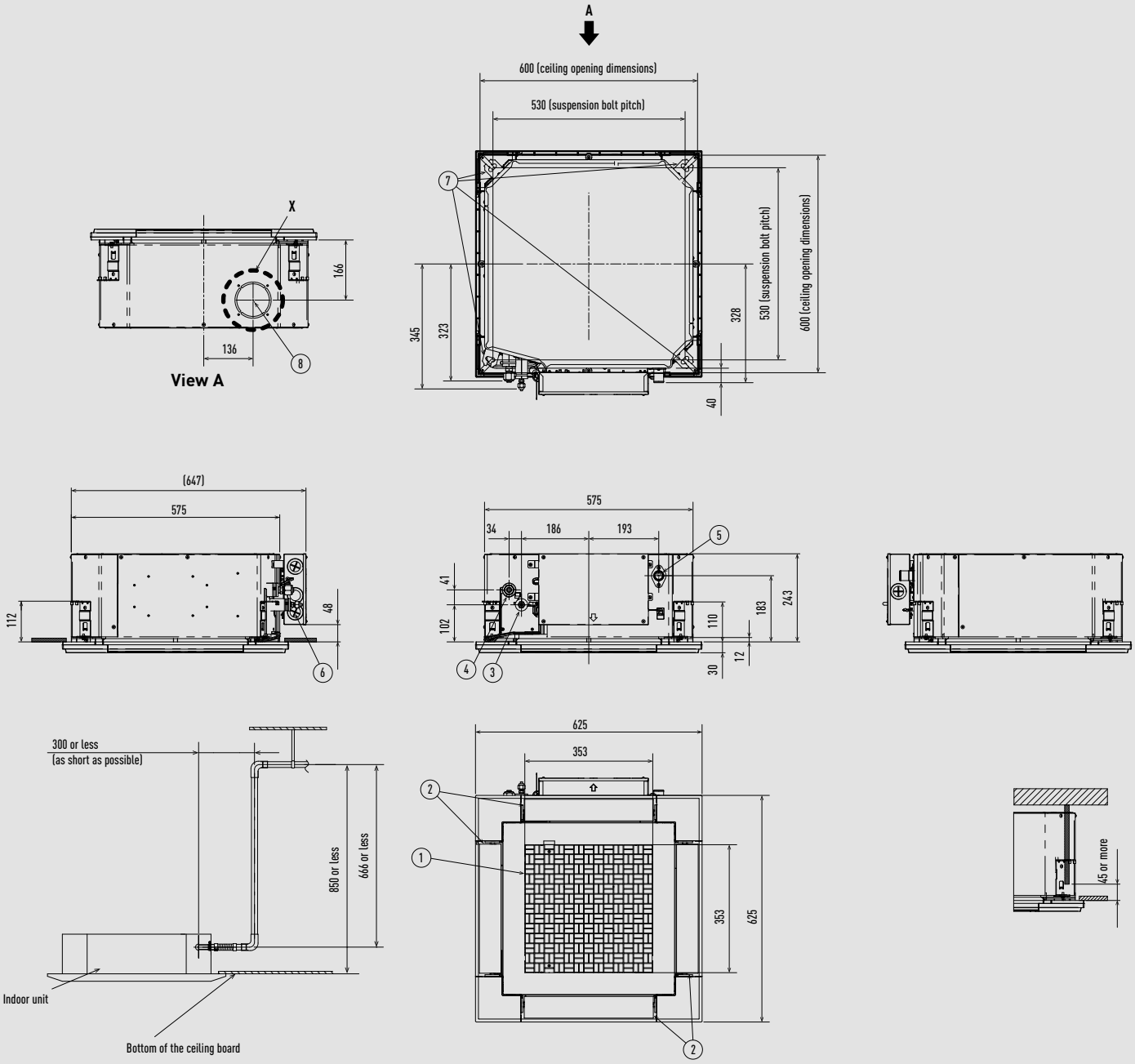


S-5010PK4E

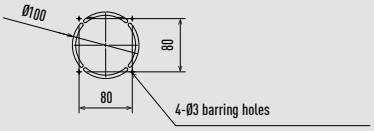


Unit: mm

PACi NX Series 4 way 60x60 cassette – PY3.



*Length of supplied drain piping= 250 mm.



Detailed view X

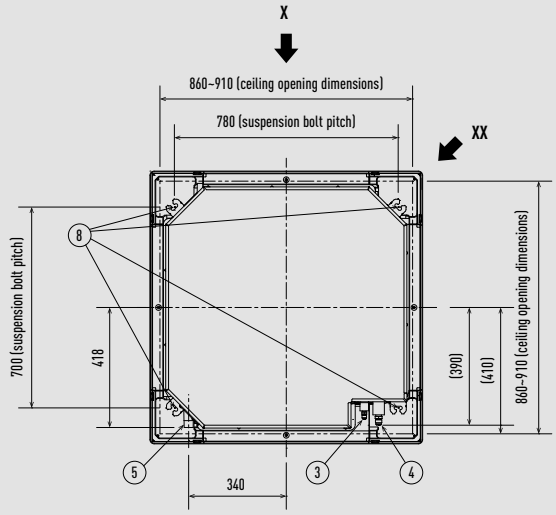
Type		25-50	60
1	Air inlet		
2	Air outlet		
3	Refrigerant piping (liquid)	Ø6,35 (flared)	Ø9,52 (flared) [1]
4	Refrigerant piping (gas)	Ø12,70 (flared)	Ø15,88 (flared) [2]
5	Drain piping connection port VP20		
6	Power supply port		
7	Suspension bolt hole (4-11x26 slot)		
8	Fresh air inlet duct connection port (Ø100) [3]		

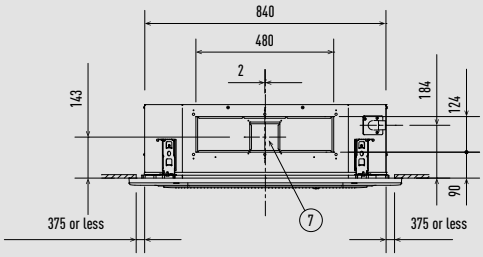
1) When connecting with U-60PZ3E5A or U-60PZH3E5, connect the liquid socket piping (Ø9,52 - Ø6,35) to the liquid piping side indoor unit.
2) When connecting with U-60PZ3E5A or U-60PZH3E5, connect the gas socket piping (Ø15,88 - Ø12,70) to the gas piping side indoor unit.
3) Necessary to attach duct connecting flange (field supply).

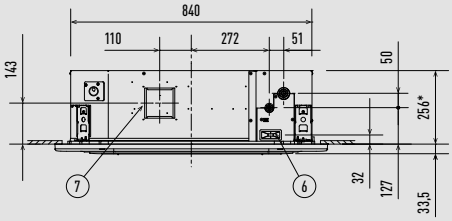
Filter dimension: 362 x 362 x 15 mm.

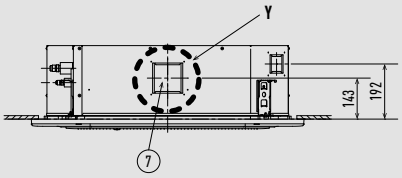
Unit: mm

PACi NX Series 4 way 90x90 cassette – PU3.

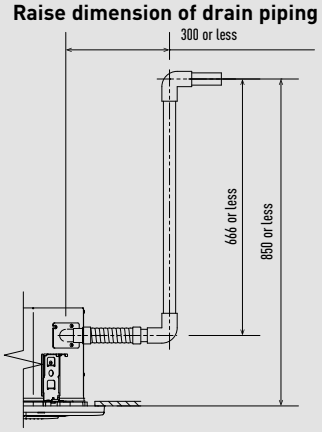




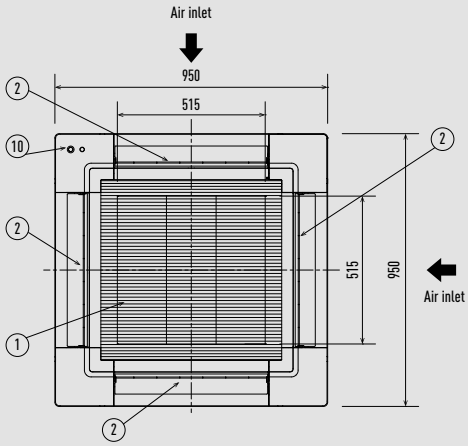




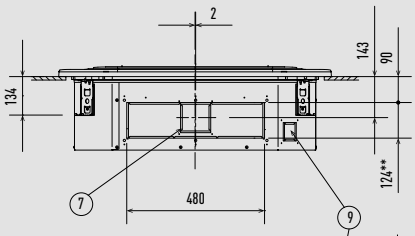
Raise dimension of drain piping



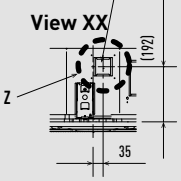
The length of the suspension bolts should be selected so that there is a gap of 30 mm or more below the lower surface of the ceiling (18 mm or more below the lower surface of the main unit), as shown in the figure at right. If the suspension bolt is too long, it will contact the ceiling panel and the unit cannot be installed.

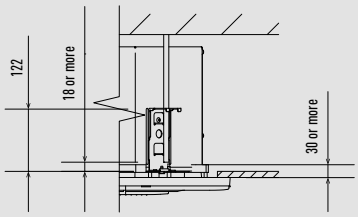


View X

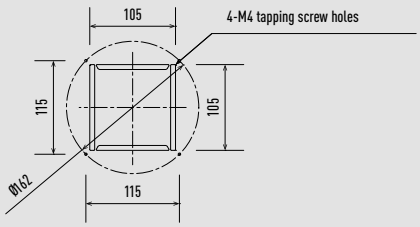


View XX

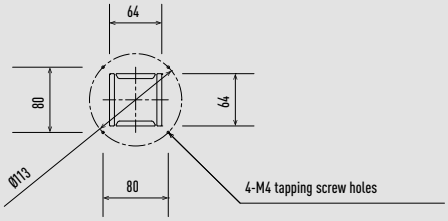




Detailed view Y



Detailed view Z



Type		S-3650PU3E	S-6071PU3E	S-1014PU3E
1	Air inlet			
2	Air outlet			
3	Refrigerant piping (liquid)	Ø6,35 (flared)	Ø9,52 (flared) 1)	Ø9,52 (flared)
4	Refrigerant piping (gas)	Ø12,70 (flared)	60: Ø15,88 (flared) 2) 71: Ø15,88 (flared)	Ø15,88 (flared)
5	Drain piping connection port VP25		Outer diameter 32 mm	
6	Power supply port			
7	Suspension bolt hole		4-12x30 elongated hole	
8	Fresh air inlet duct connection port		Ø100 3)	
9	Suspension bolt hole		4-12x30 elongated hole	
10	Econavi sensor (only CZ-KPU3A or CZ-KPU3AW)			

1) When connecting with U-60PZ3E5, U-71PZ3E5 or U-60PZH3E5, connect the liquid socket piping (Ø9,52 - Ø6,35) to the liquid piping side indoor unit.
2) When connecting with U-60PZ3E5 or U-60PZH3E5, connect the gas socket piping (Ø15,88 - Ø12,70) to the gas piping side indoor unit.
3) Necessary to attach duct connecting flange (field supply).

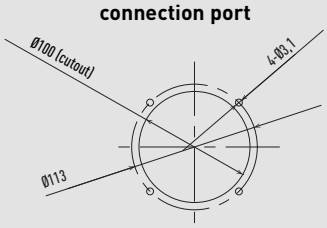
Filter dimension: 520 x 520 x 15 mm.

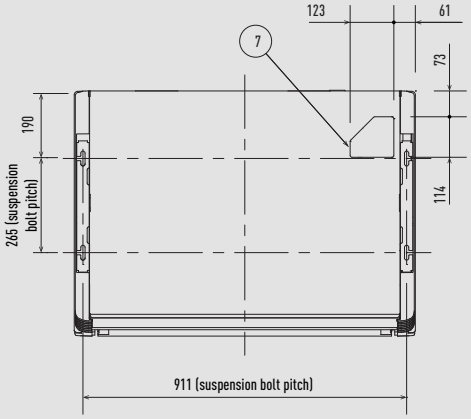
*319 mm for S-1014PU3E.
**187 mm for S-1014PU3E.

Unit: mm

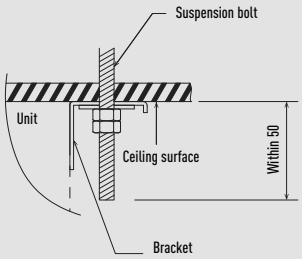
PACi NX Series ceiling – PT3 (S-3650PT3E).

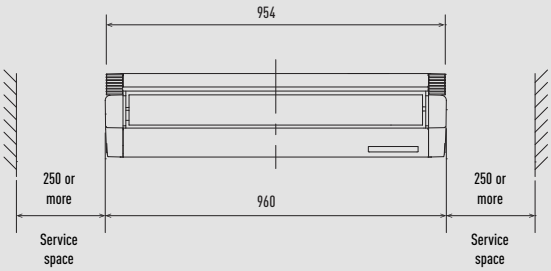
Detailed view of air inlet duct connection port

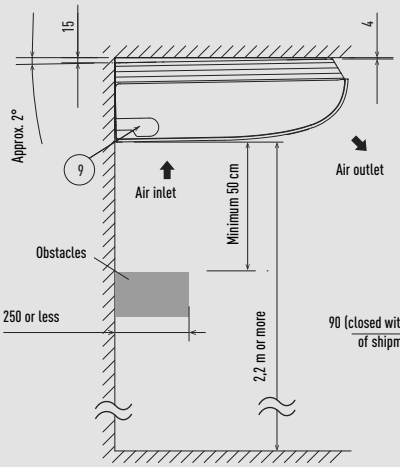




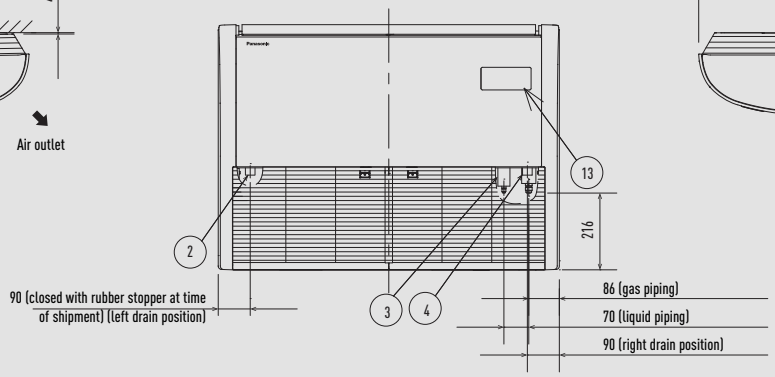
Distance of each exposed bolt must be of equal length within 50 mm

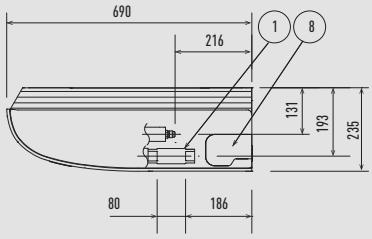




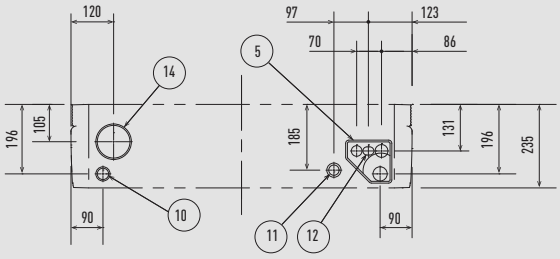


Side view

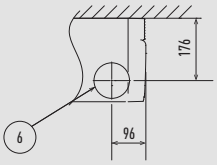




Hole position of indoor unit rear-side (figure shows view from front)



Piping hole position on wall surface (figure shows view from front)



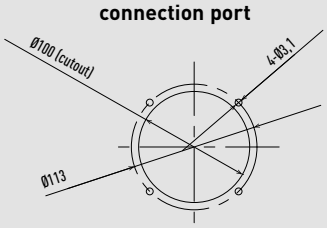
1	Drain piping connection port VP20	Inside diameter 26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant piping (liquid)	Ø6,35mm (flared)
4	Refrigerant piping (gas)	Ø12,7mm (flared)
5	Cover of rear piping hole	
6	Piping hole on wall surface	Ø100 mm
7	Upper side piping port	
8	Right side drain hose outlet port (cutout)	
9	Left side drain hose outlet port (cutout)	
10	Left-rear side drain hose outlet port (cutout)	
11	Power inlet port	
12	Remote control wiring and inter-unit wiring inlet port	
13	Wireless remote controller receiver installation location	
14	Air inlet duct connection port	Ø100 mm (cutout)

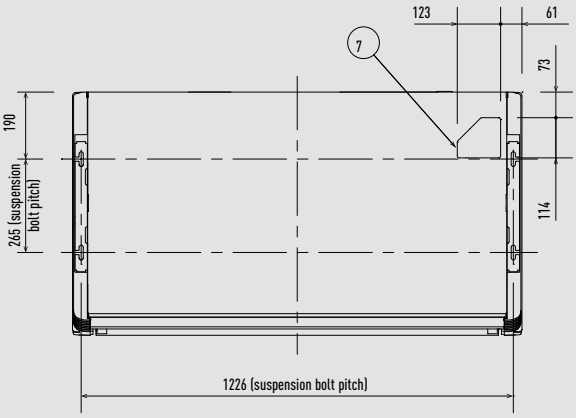
Filter dimension: 421 x 250 x 16 mm x 2 pcs.

Unit: mm

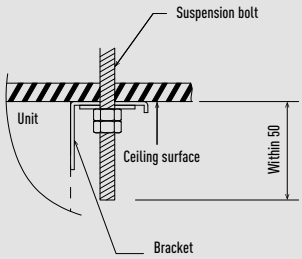
PACi NX Series ceiling – PT3 (S-6071PT3E).

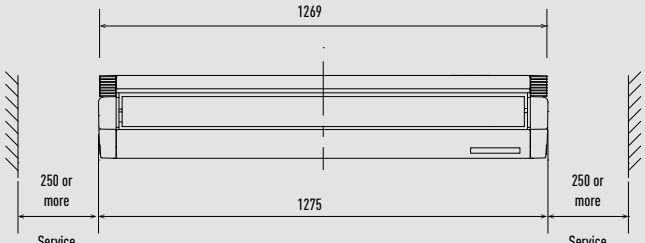
Detailed view of air inlet duct connection port

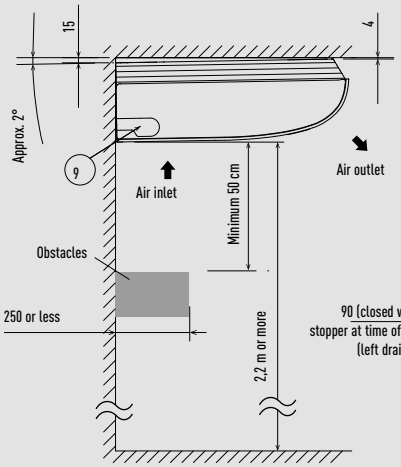




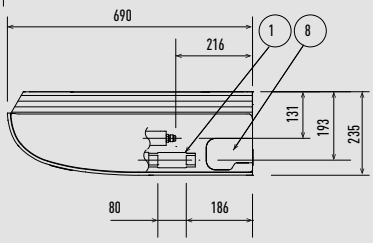
Distance of each exposed bolt must be of equal length within 50 mm

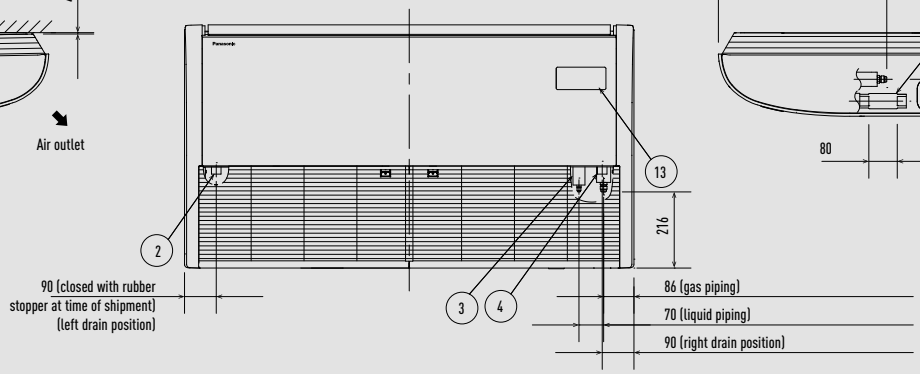




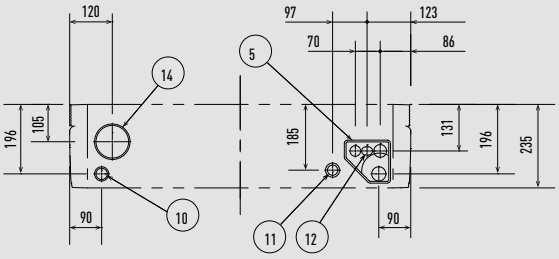


Side view

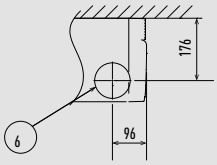




Hole position of indoor unit rear-side (figure shows view from front)



Piping hole position on wall surface (figure shows view from front)



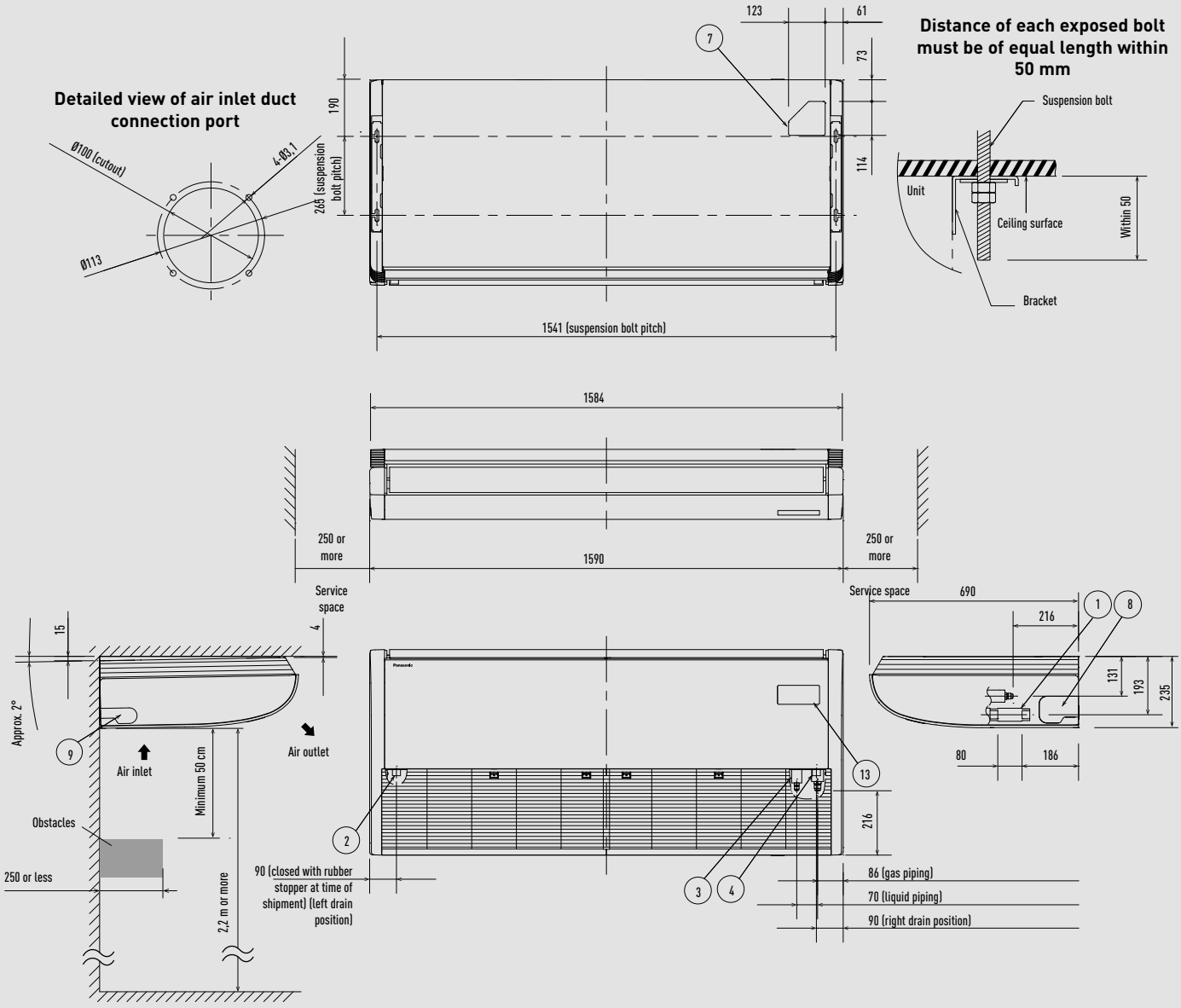
1	Drain piping connection port VP20	Inside diameter 26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant piping (liquid)	Ø9,52 (flared) 1)
4	Refrigerant piping (gas)	Ø15,88 (flared) 2)
5	Cover of rear piping hole	
6	Piping hole on wall surface	Ø100 mm
7	Upper side piping port	
8	Right side drain hose outlet port (cutout)	
9	Left side drain hose outlet port (cutout)	
10	Left-rear side drain hose outlet port (cutout)	
11	Power inlet port	
12	Remote control wiring and inter-unit wiring inlet port	
13	Wireless remote controller receiver installation location	
14	Air inlet duct connection port	Ø100 mm (cutout)

1) When connecting with U-60PZ3E5, U-71PZ3E5 or U-60PZH3E5, connect the liquid socket piping (Ø9,52 - Ø6,35) to the liquid piping side indoor unit.
2) When connecting with U-60PZ3E5 or U-60PZH3E5, connect the gas socket piping (Ø15,88 - Ø12,70) to the gas piping side indoor unit.

Filter dimension: 579 x 250 x 16 mm x 2 pcs.

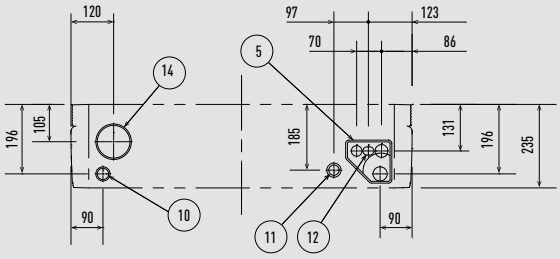
Unit: mm

PACi NX Series ceiling – PT3 (S-1014PT3E).

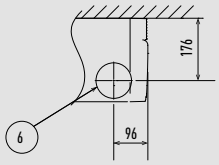


Side view

Hole position of indoor unit rear-side (figure shows view from front)



Piping hole position on wall surface (figure shows view from front)

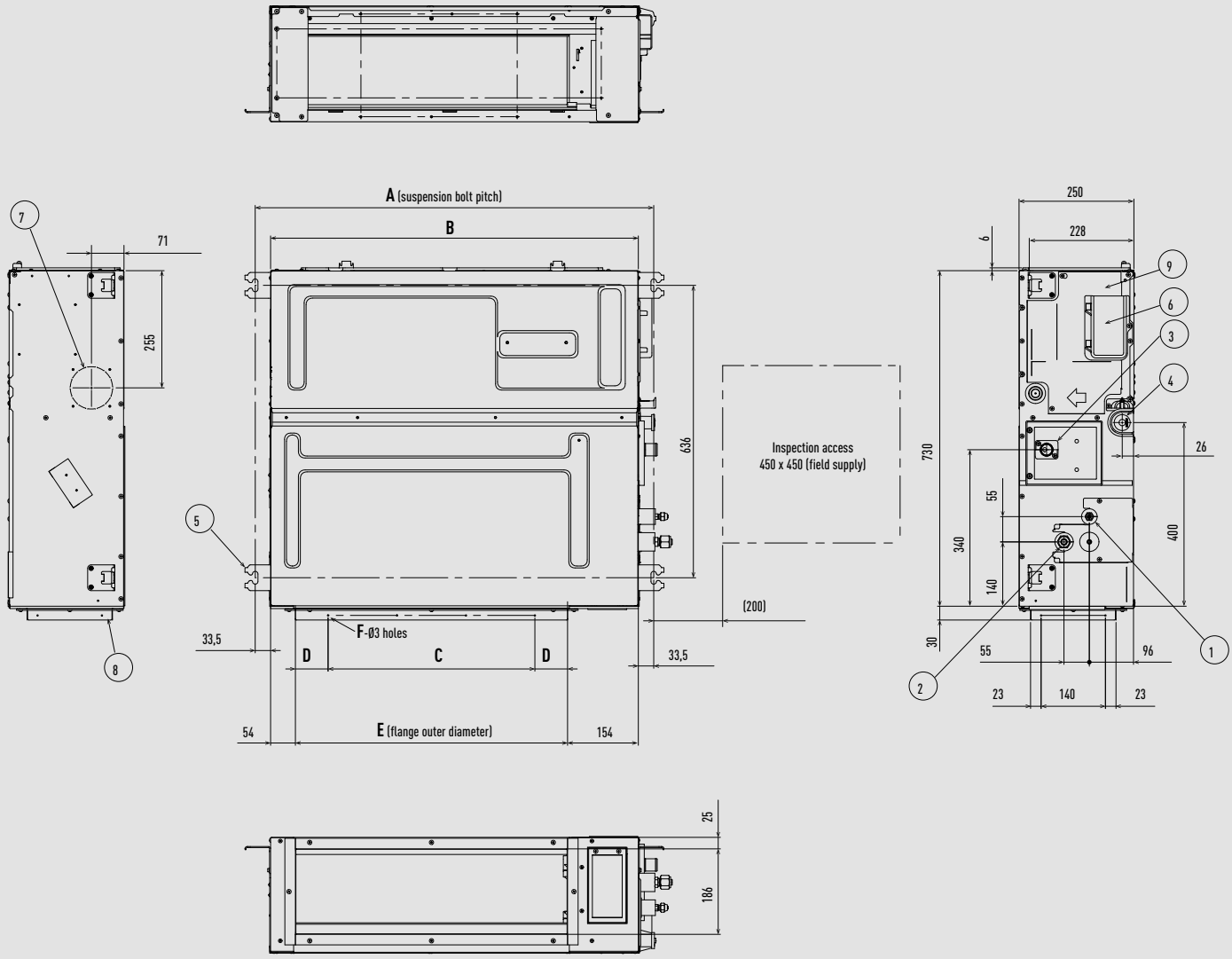


1	Drain piping connection port VP20	Inside diameter 26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant piping (liquid)	Ø9,52 (flared)
4	Refrigerant piping (gas)	Ø15,88 (flared)
5	Cover of rear piping hole	
6	Piping hole on wall surface	Ø100 mm
7	Upper side piping port	
8	Right side drain hose outlet port (cutout)	
9	Left side drain hose outlet port (cutout)	
10	Left-rear side drain hose outlet port (cutout)	
11	Power inlet port	
12	Remote control wiring and inter-unit wiring inlet port	
13	Wireless remote controller receiver installation location	
14	Air inlet duct connection port	Ø100 mm (cutout)

Filter dimension: 736 x 250 x 16 mm x 2 pcs.

Unit: mm

PACi NX Series adaptive ducted unit – PF3.



Type	A	B	C	D	E	F
	mm	mm	mm	mm	mm	Q'ty
S-3650PF3E	867	800	450 (pitch 150 x 3)	71	592	12
S-6071PF3E	1067	1000	750 (pitch 150 x 5)	21	792	16
S-1014PF3E	1467	1400	1050 (pitch 150 x 7)	71	1192	20

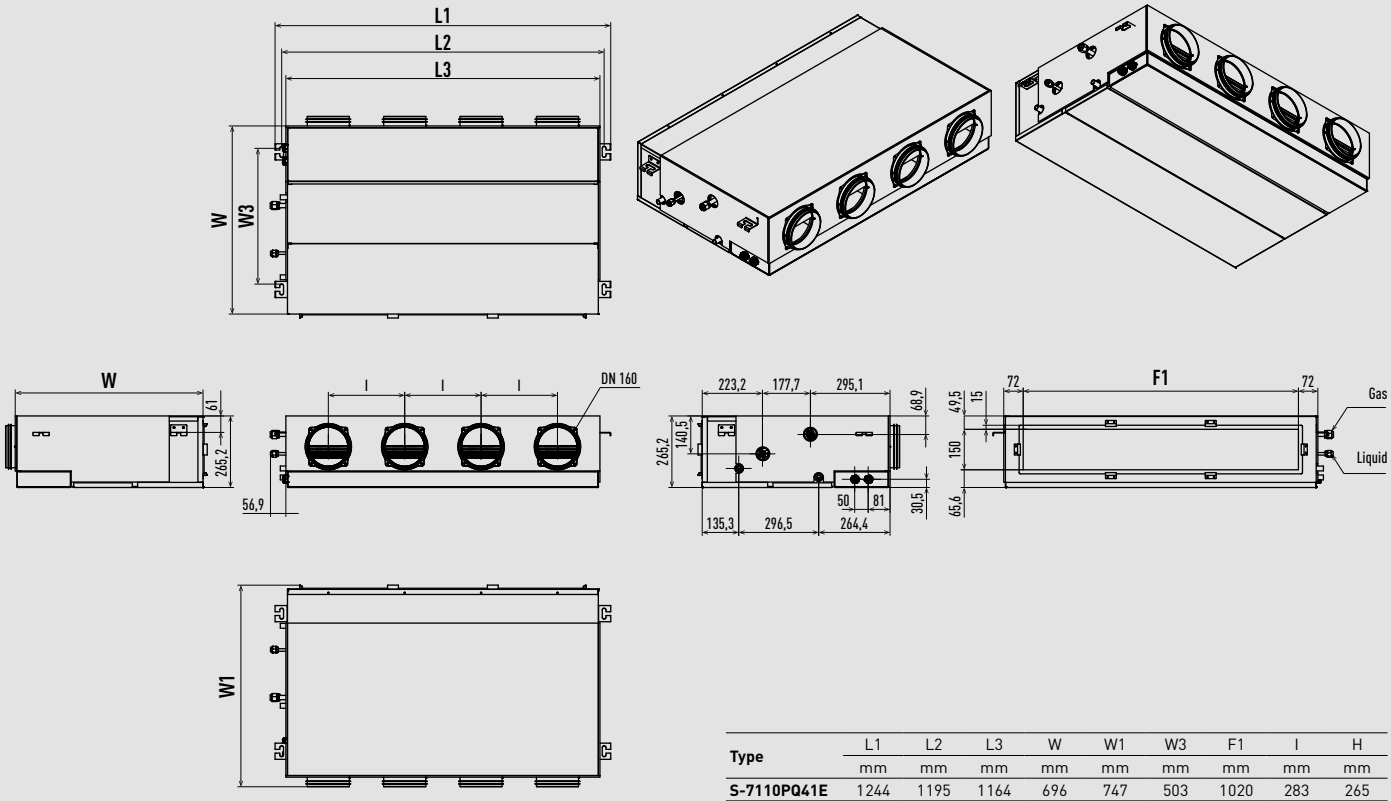
Type		S-3650PF3E	S-6071PF3E	S-1014PF3E
1	Refrigerant piping (liquid)	Ø6,35 (flared)	Ø9,52 (flared) [1]	Ø9,52 (flared)
2	Refrigerant piping (gas)	Ø12,70 (flared)	60: Ø15,88 (flared) [2], 71: Ø15,88 (flared)	Ø15,88 (flared)
3	Upper drain piping connection port VP20	Outer diameter 26 mm, 200 mm flexible hose supplied		
4	Suspension lug	4-12x30		
5	Power supply port			
6	Bottom drain piping connection port VP20	Ø26 mm		
7	Fresh air inlet duct connection port	Ø100 [3]		
8	Flange for flexible air outlet duct			
9	Electrical component box			

1) When connecting with U-60PZ3E5, U-71PZ3E5 or U-60PZH3E5, connect the liquid socket piping (Ø9,52 - Ø6,35) to the liquid piping side indoor unit.
2) When connecting with U-60PZ3E5 or U-60PZH3E5, connect the gas socket piping (Ø15,88 - Ø12,70) to the gas piping side indoor unit.
3) Necessary to attach duct connecting flange (field supply).

Filter dimension: 520 x 520 x 15 mm.

Unit: mm

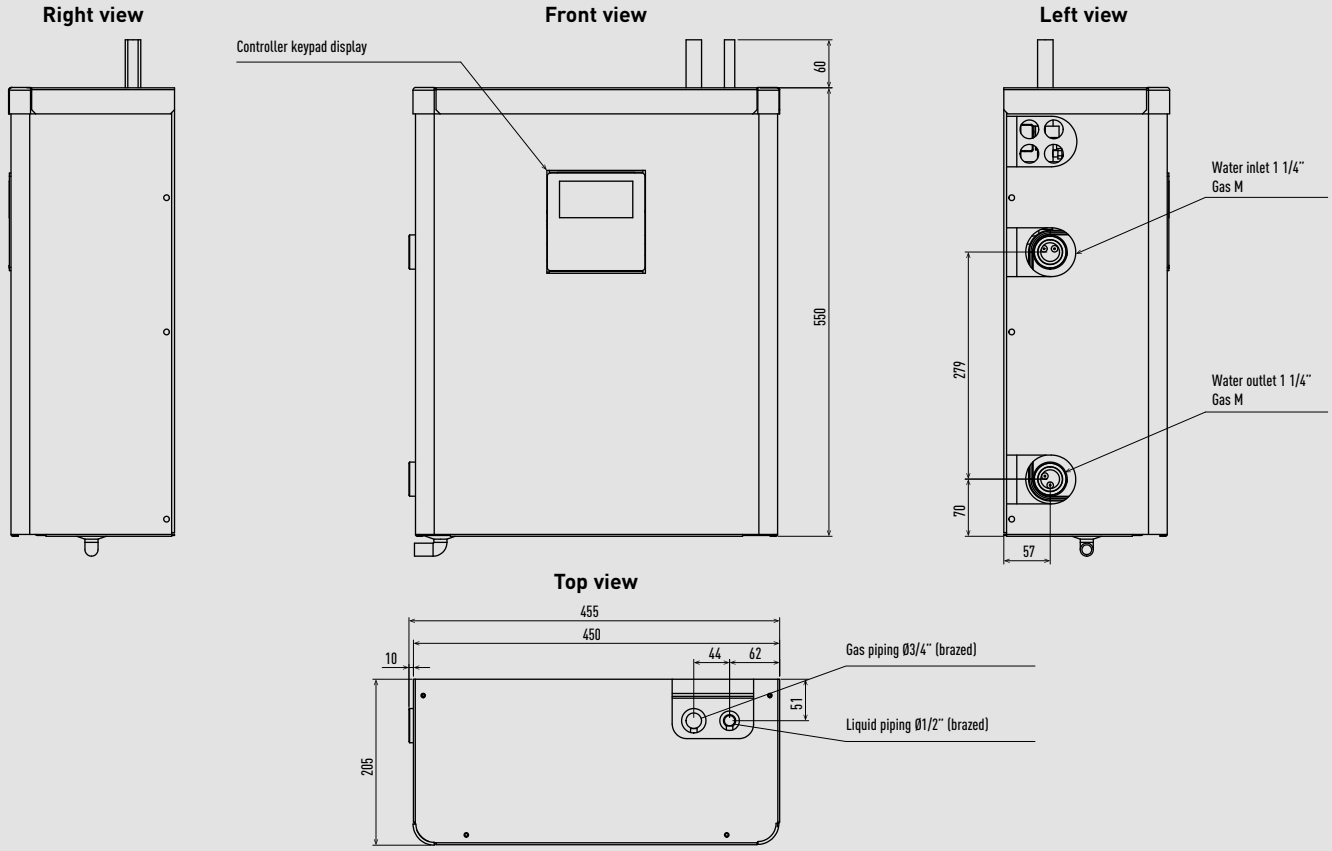
PACi NX Series multi zone duct unit.



Type	L1	L2	L3	W	W1	W3	F1	I	H
	mm	mm	mm	mm	mm	mm	mm	mm	mm
S-7110PQ41E	1244	1195	1164	696	747	503	1020	283	265
S-1014PQ51E	1454	1405	1374	696	747	503	1230	283	265

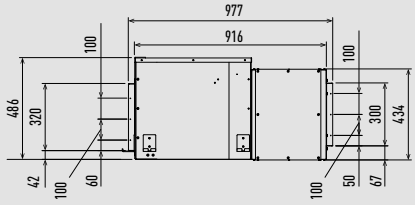
Unit: mm

PACi NX Water Heat Exchanger.

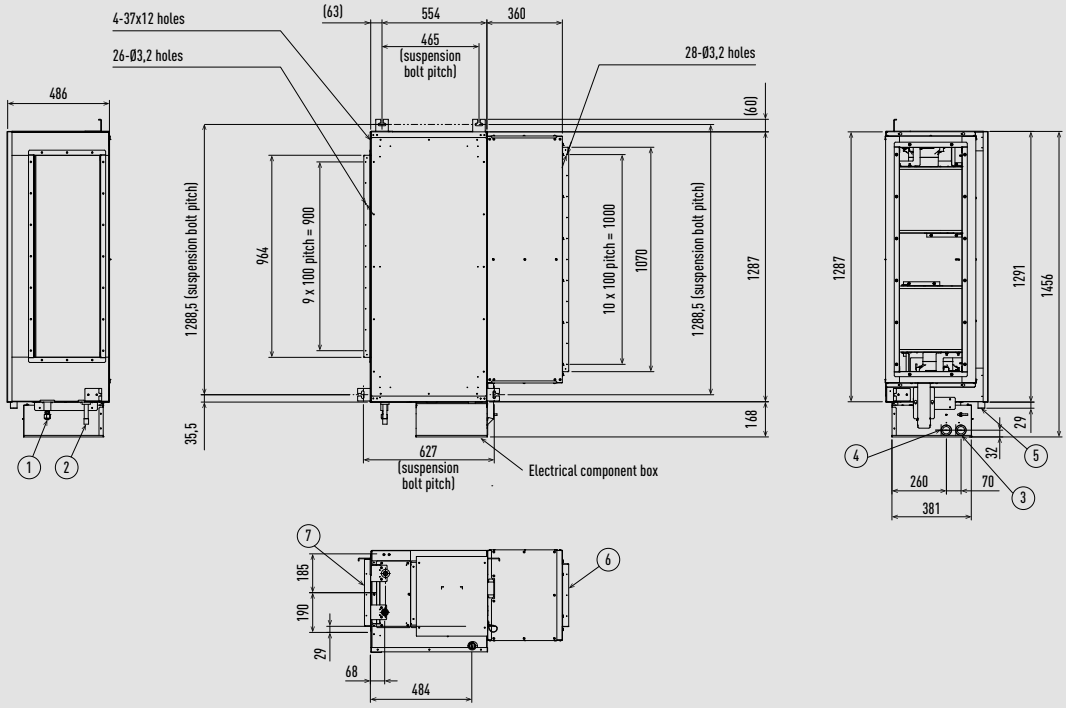


Unit: mm

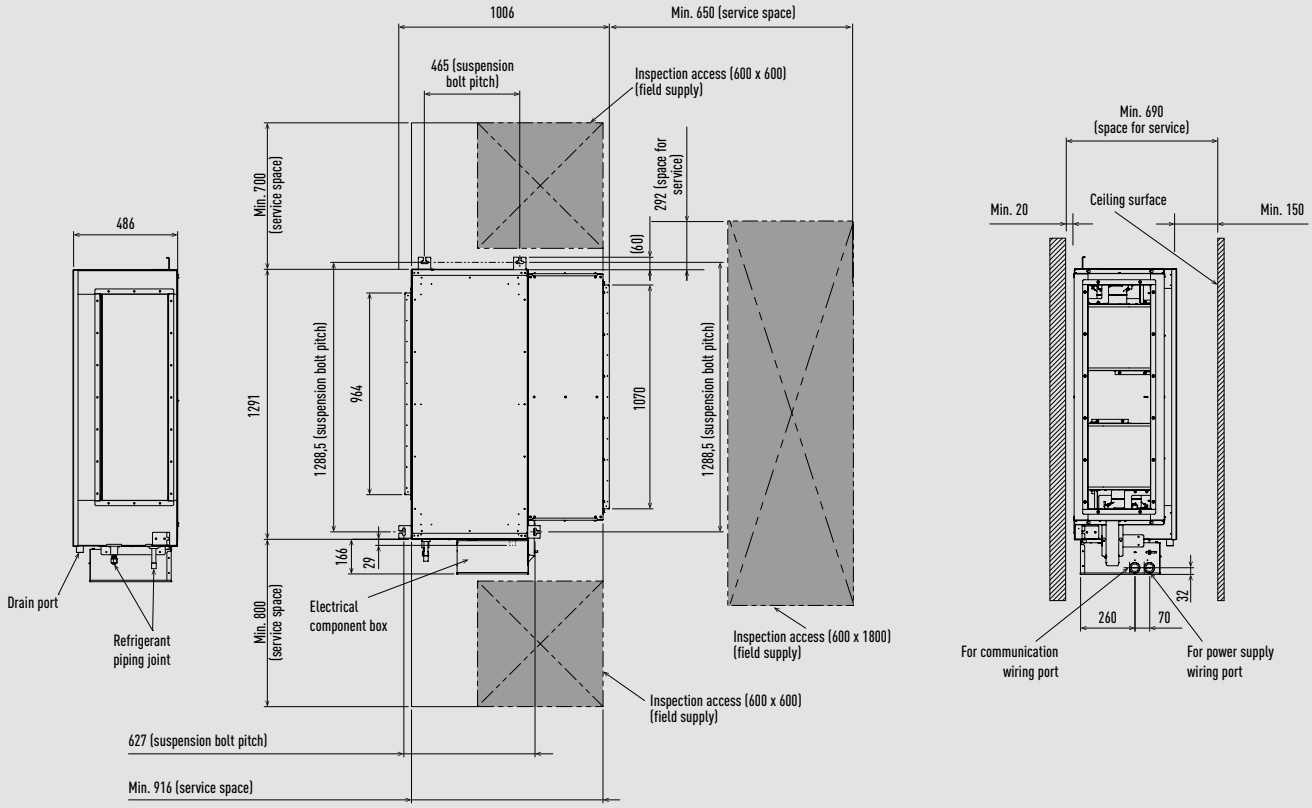
Big PACi NX high static pressure hide-away 20,0-25,0 kW – PE4.



1	Refrigerant piping (liquid) Ø12,70 (flared)
2	Refrigerant piping (gas) Ø22,22 (brazed)
3	Power supply port
4	Communication wiring port
5	Drain piping connection port VP25
6	Flange for air inlet duct
7	Flange for the air outlet duct

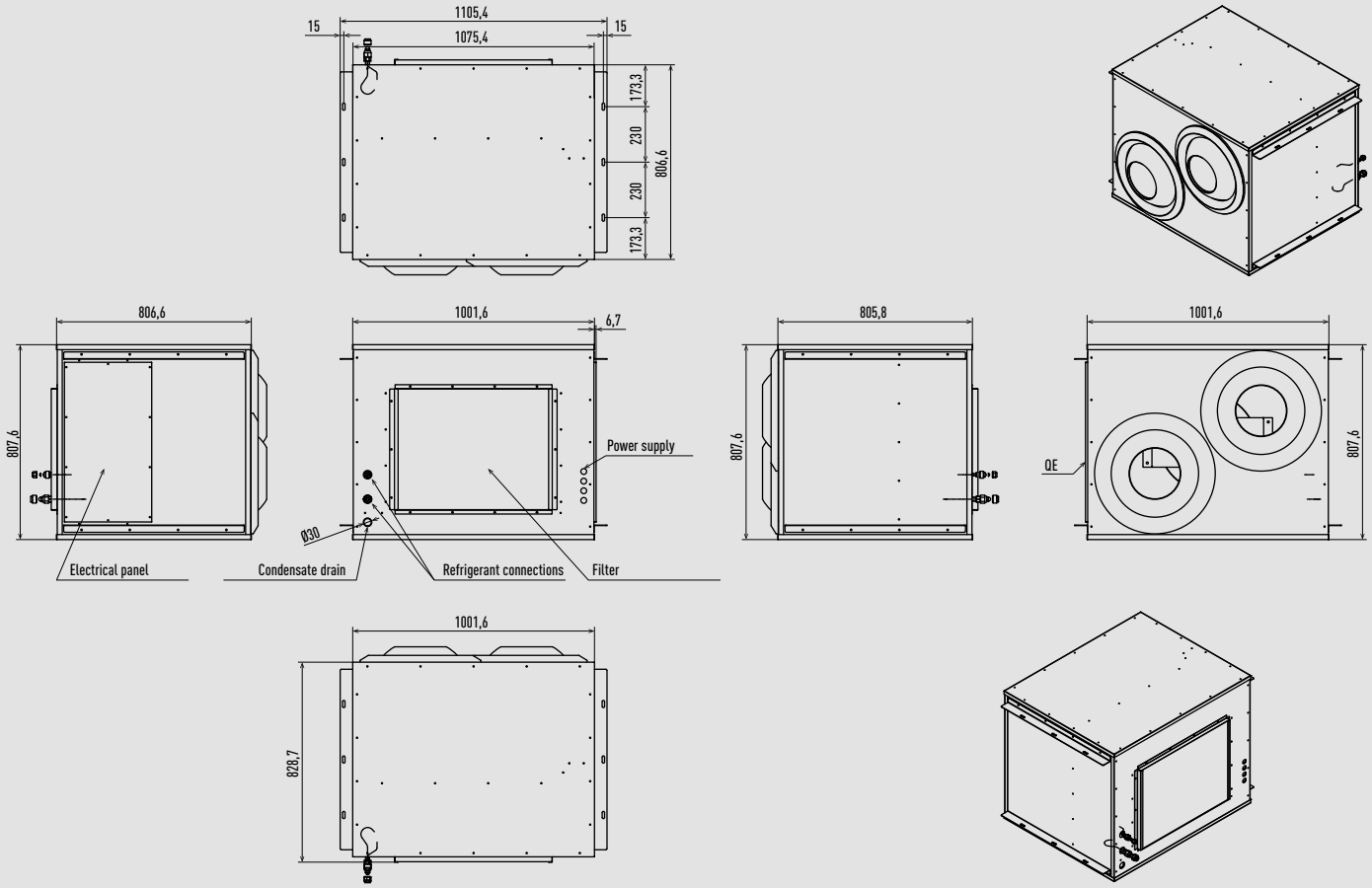


Dimensions of suspension bolt pitch and unit.
Required minimum space for installation and service



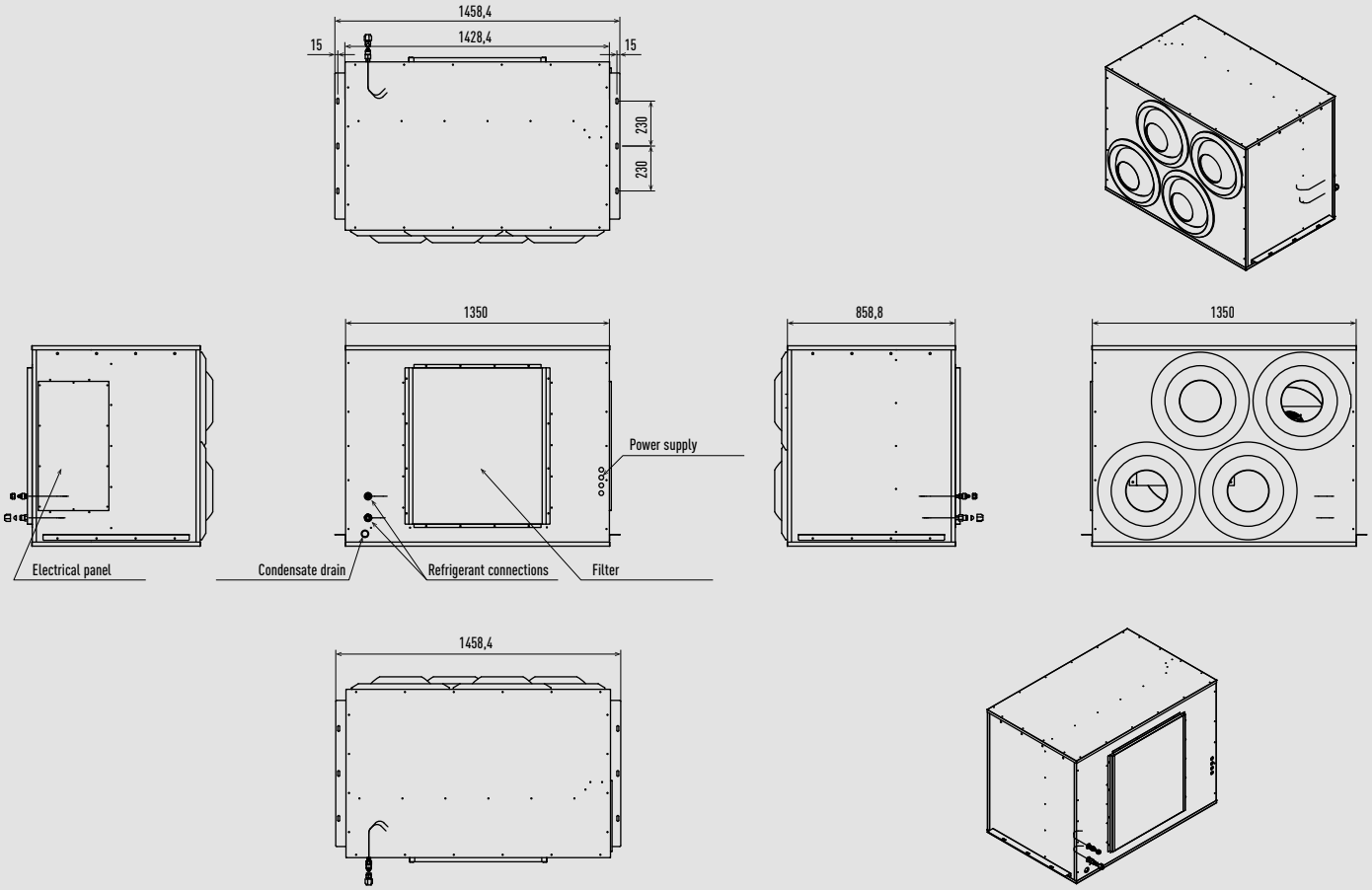
Unit: mm

Jet Air Stream – P-VTVF140MC5A-PE / P-VTVF140NC5A-PE / P-VTVF140PC5A-PE.



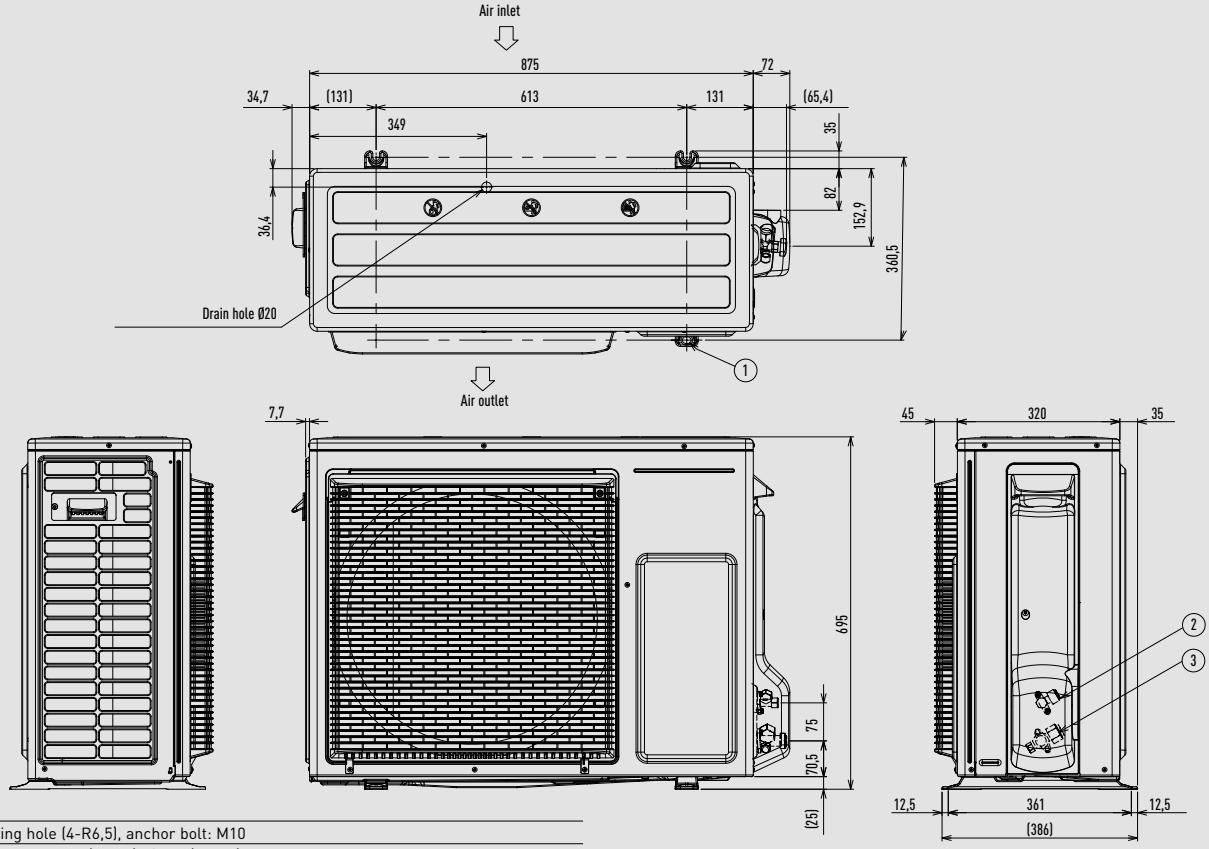
Unit: mm

Jet Air Stream – P-VTVF250MC5A-PE / P-VTVF250NC5A-PE / P-VTVF250PC5A-PE.



Unit: mm

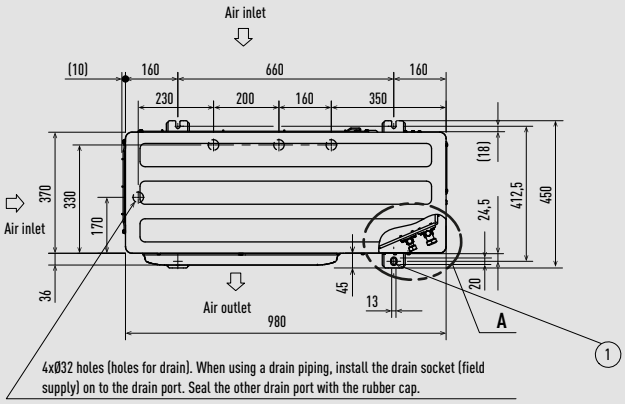
PACi NX Series Elite outdoor units from 3,6 to 6,0 kW and Standard 6,0 and 7,1 kW.



1	Mounting hole (4-R6,5), anchor bolt: M10
2	Refrigerant piping (liquid), Ø6,35 (flared)
3	Refrigerant piping (gas), Ø12,70 (flared). U-71PZ3E5, Ø15,88 (flared)

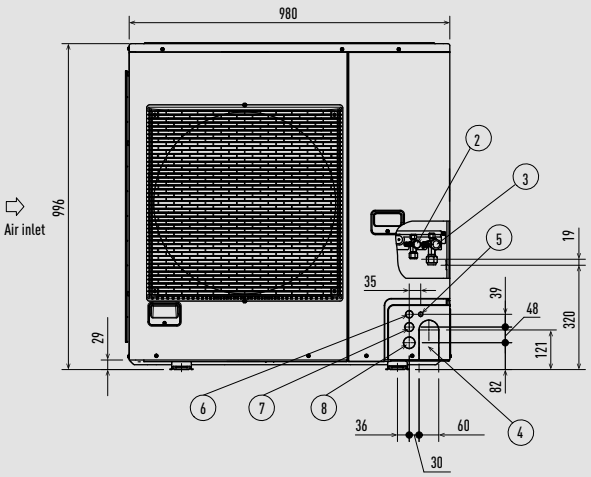
Unit: mm

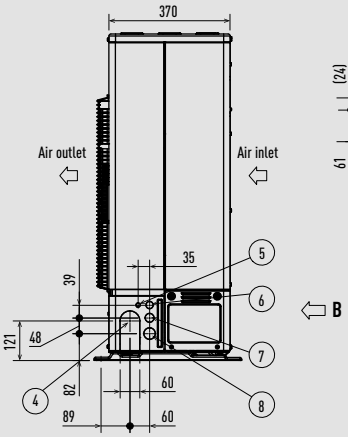
PACi NX Series Elite outdoor units from 7,1 kW to 14,0 kW and Standard from 10,0 to 14,0 kW.

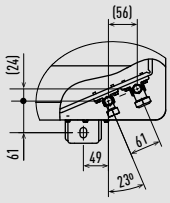


4xØ32 holes (holes for drain). When using a drain piping, install the drain socket (field supply) on to the drain port. Seal the other drain port with the rubber cap.

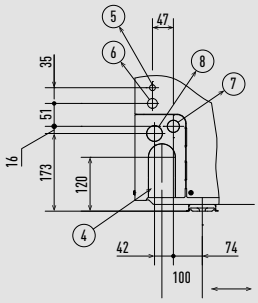
1	Mounting hole, anchor bolt: M10
2	Refrigerant piping (liquid), Ø9,52 (flared)
3	Refrigerant piping (gas), Ø15,88 (flared)
4	Refrigerant piping port
5	Electrical wiring port (Ø13)
6	Electrical wiring port (ØØ22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)







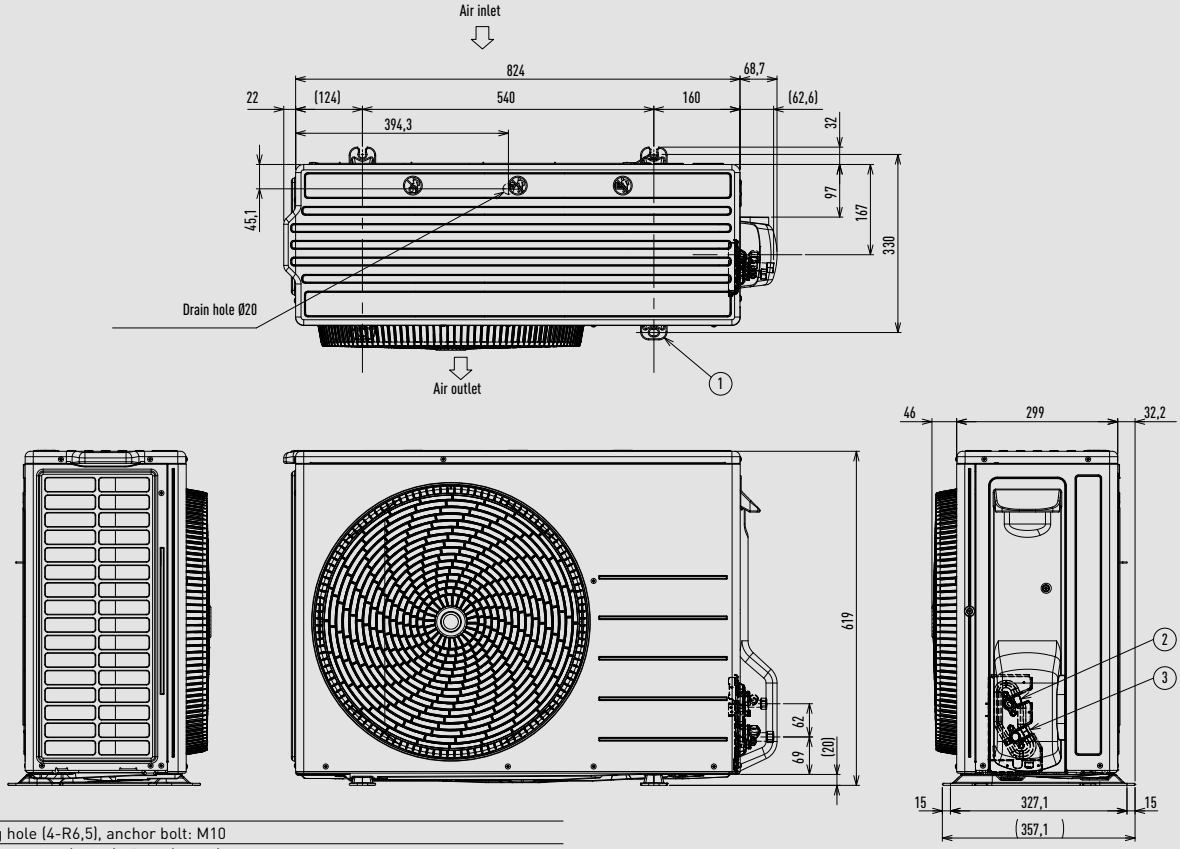
View A



View B

Unit: mm

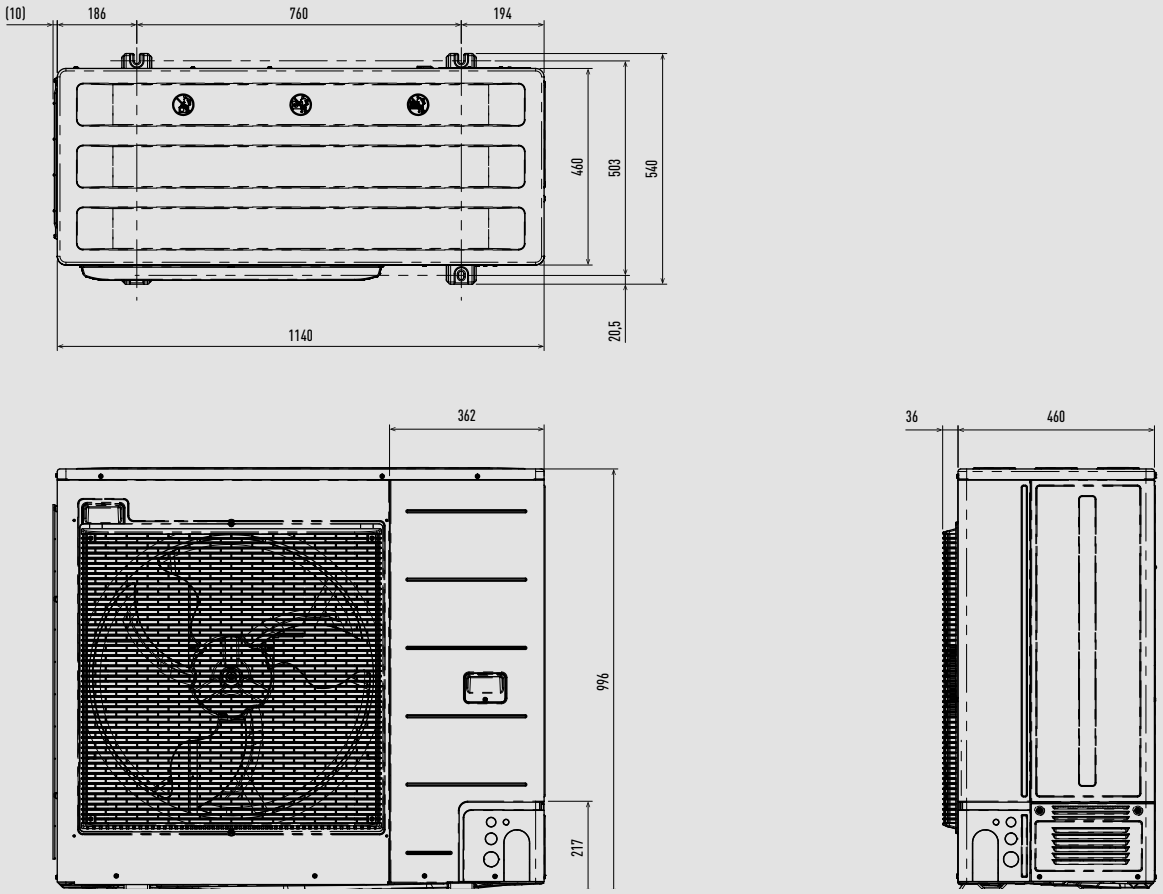
PACi NX Series Standard outdoor units from 2,5 to 5,0 kW.



1	Mounting hole (4-R6,5), anchor bolt: M10
2	Refrigerant piping (liquid), Ø6,35 (flared)
3	Refrigerant piping (gas), Ø12,70 (flared)

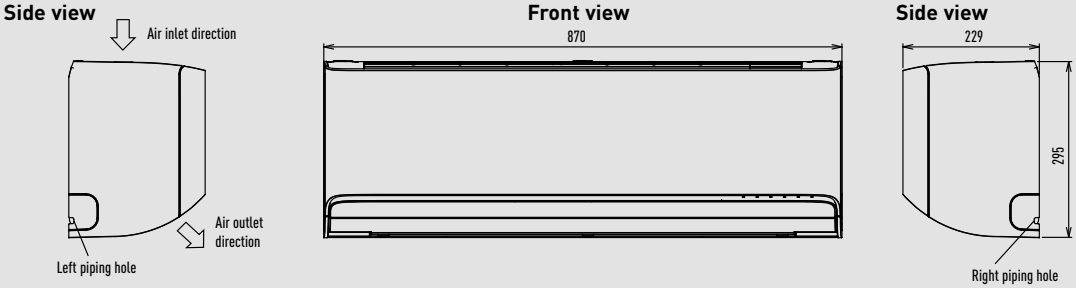
Unit: mm

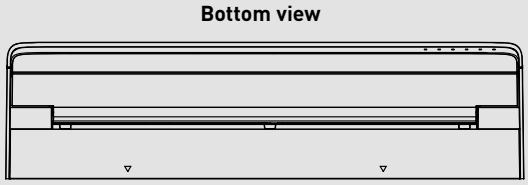
Big PACi NX outdoor units 20,0-25,0 kW.

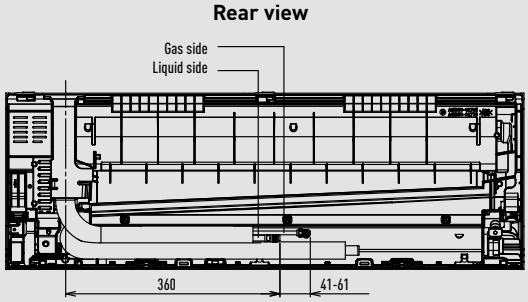


Unit: mm

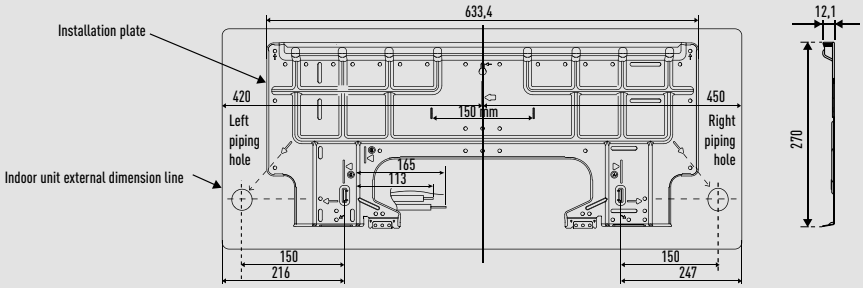
Wall-mounted Professional YKEA (from 2,5 to 4,2 kW).

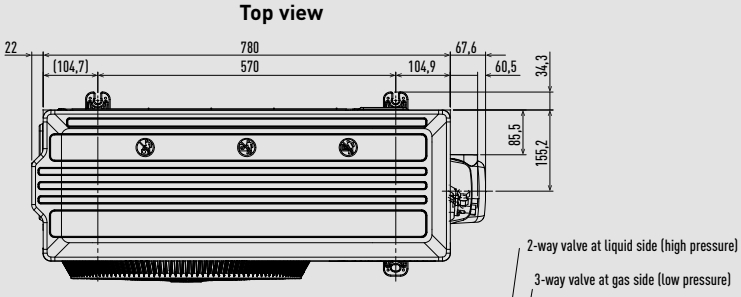


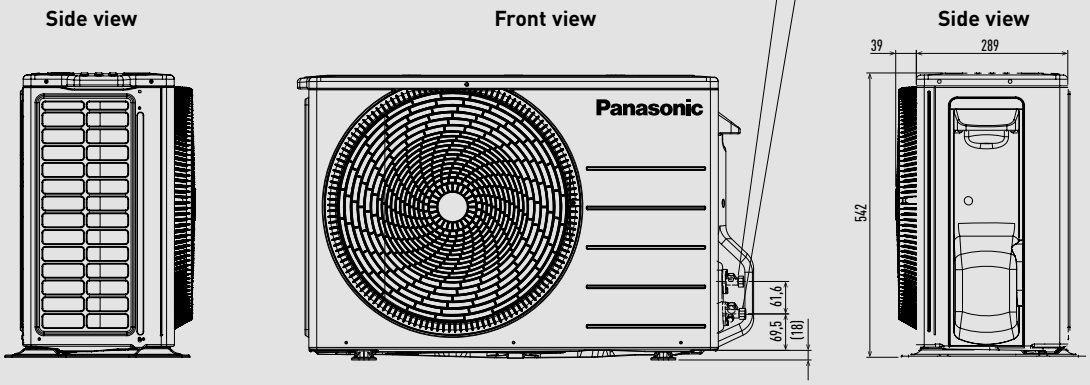




Relative position between the indoor unit and the installation plate

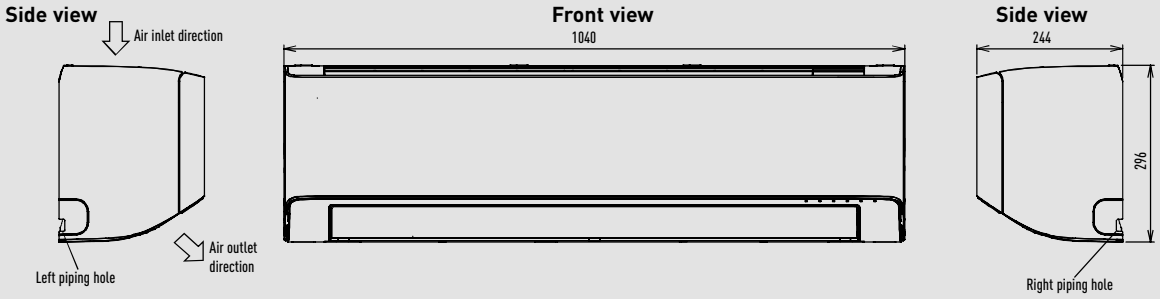


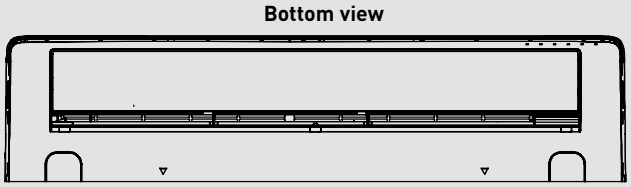


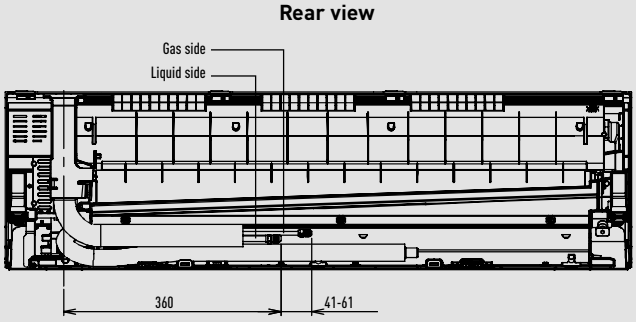


Unit: mm

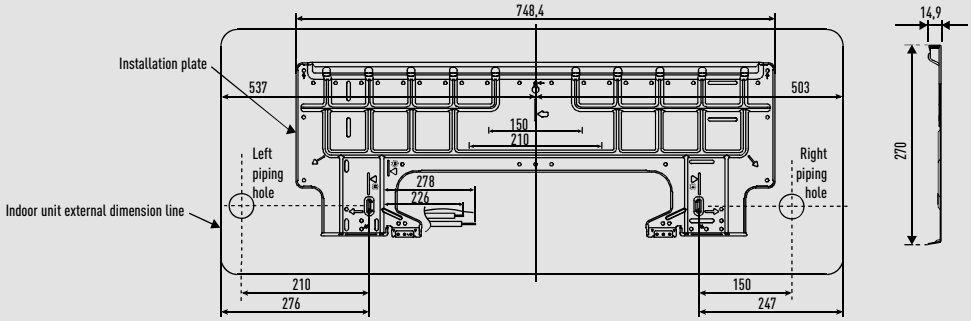
Wall-mounted Professional YKEA (5,0 and 7,1 kW).

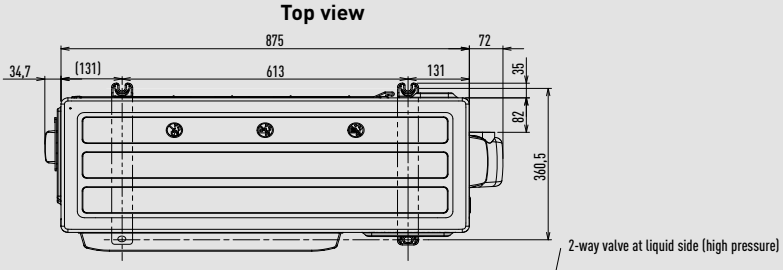


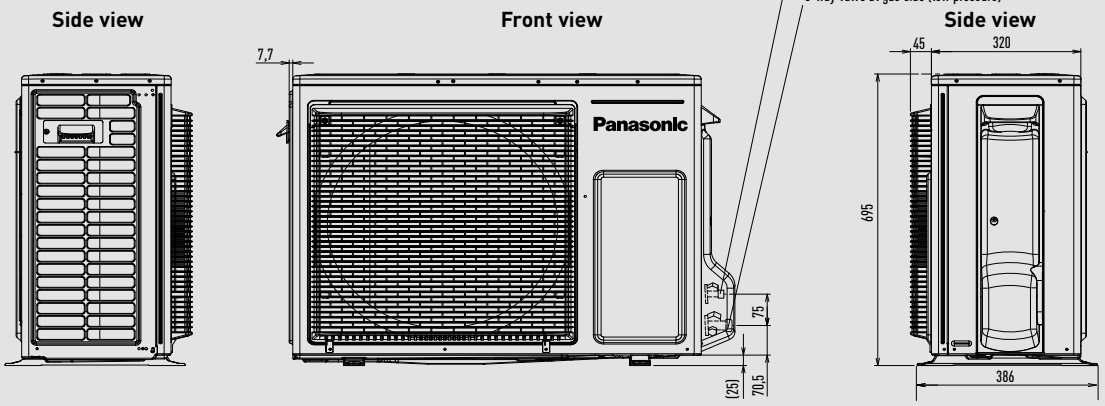




Relative position between the indoor unit and the installation plate

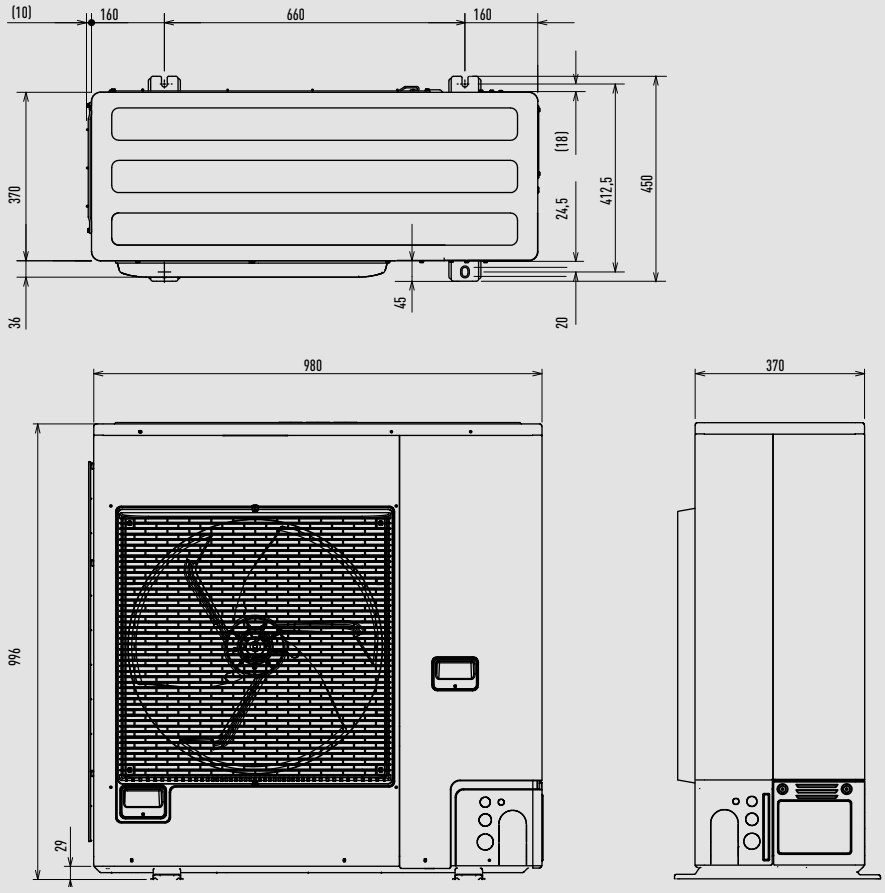






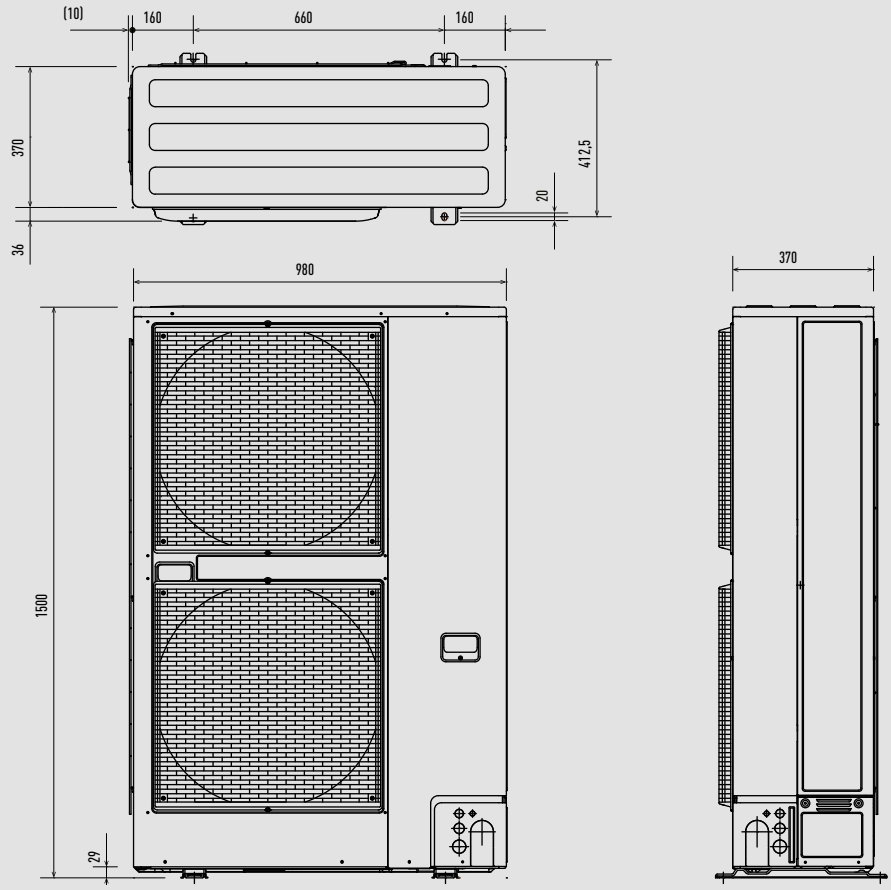
Unit: mm

Mini ECOi LZ2 Series from 4 to 6 HP.



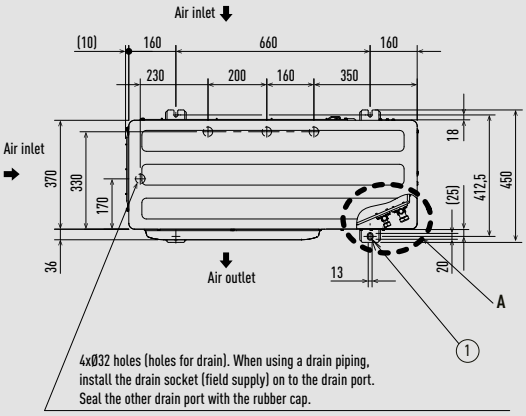
Unit: mm

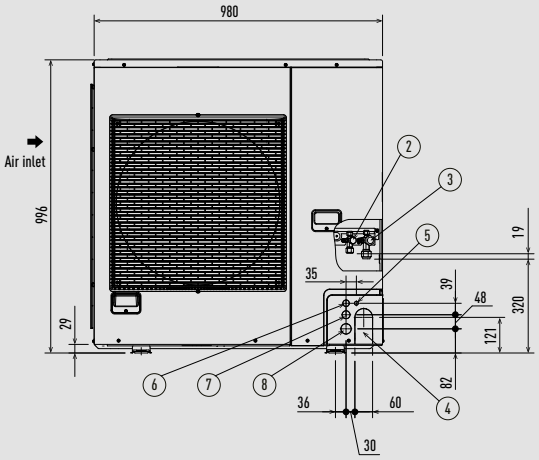
Mini ECOi LZ2 Series 8 and 10 HP.

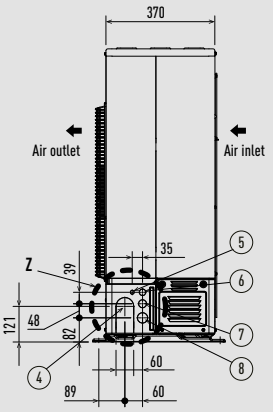


Unit: mm

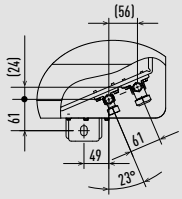
Mini ECOi LE2 Series from 4 to 6 HP.



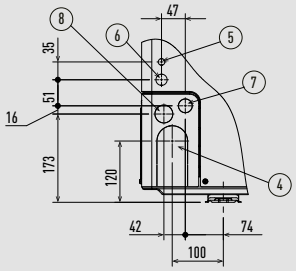




View A



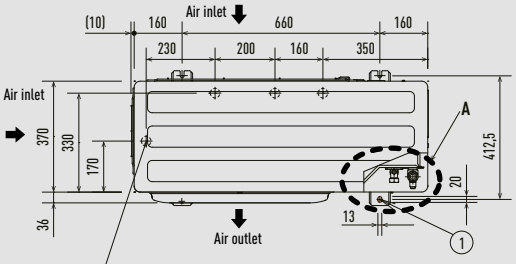
View Z

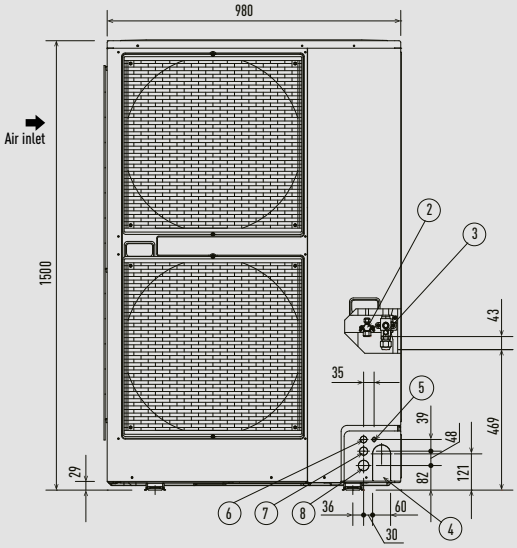


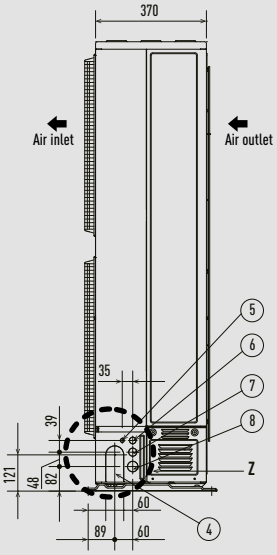
1	Mounting hole (4-R6,5), anchor bolt: M10
2	Refrigerant piping (liquid), Ø9,52 (flared)
3	Refrigerant piping (gas), Ø19,05 (flared)
4	Refrigerant piping port
5	Electrical wiring port (Ø13)
6	Electrical wiring port (Ø22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)

Unit: mm

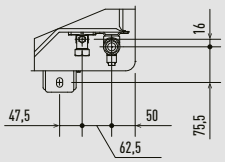
Mini ECOi LE1 Series 8 and 10 HP.



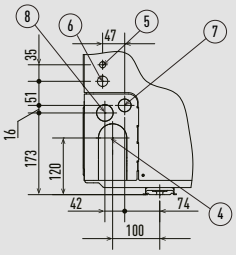




View A



View Z

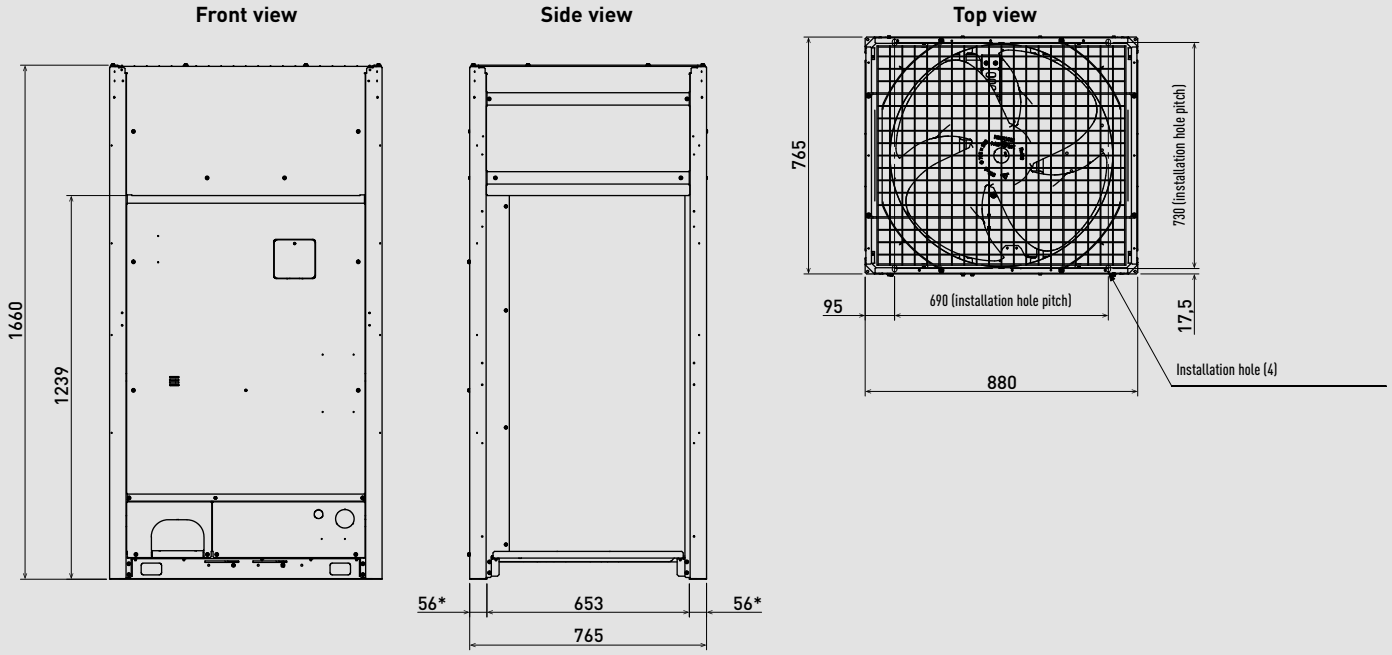


1	Mounting hole (4-R6,5), anchor bolt: M10
2	Refrigerant piping (liquid), Ø9,52 (flared)
3	Refrigerant piping (gas), Ø19,05 (flared)
4	Refrigerant piping port
5	Electrical wiring port (Ø13)
6	Electrical wiring port (Ø22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)

The piping of the gas main has a diameter of Ø22,22, but the connection to the service valve of the outdoor unit has a diameter of Ø19,05, so a flare has to be used. Consequently, be sure to use the enclosed joint piping B and joint piping A in making connections (braze).

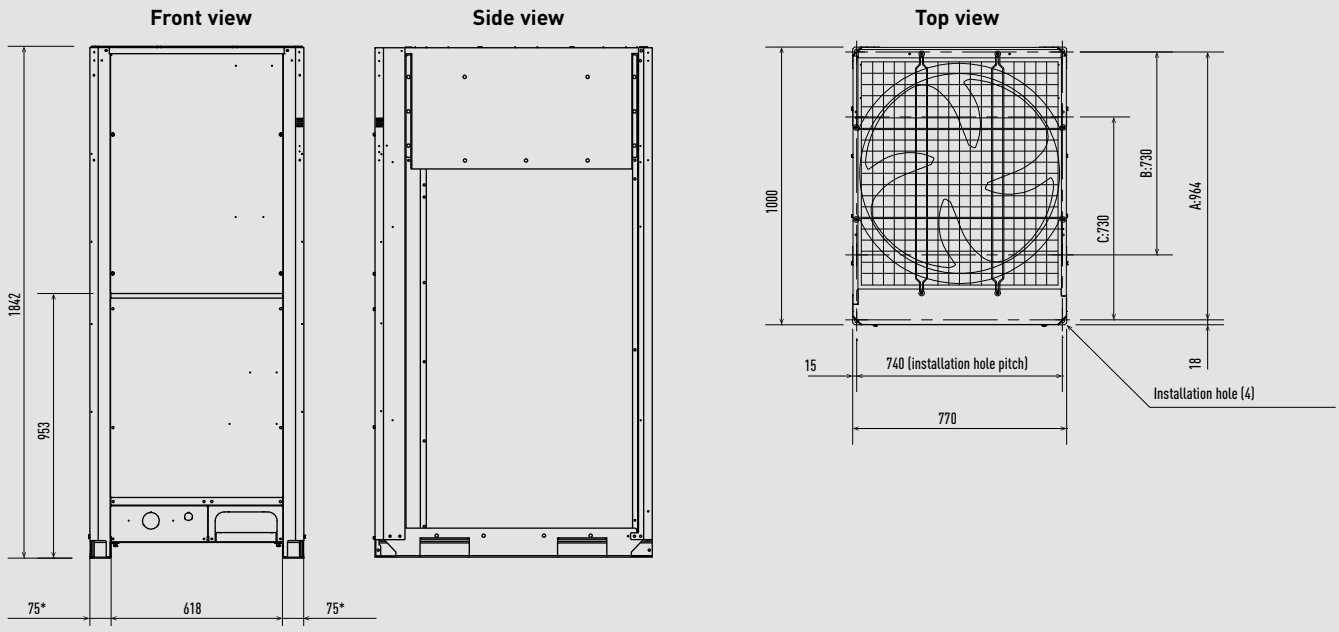
Unit: mm

2-Pipe ECOi EX MZ1 Series 8, 10 and 12 HP / 3-Pipe ECOi EX MF4 Series 8, 10 and 12 HP.



Unit: mm

2-Pipe ECOi EX ME2 Series 8 and 10 HP.



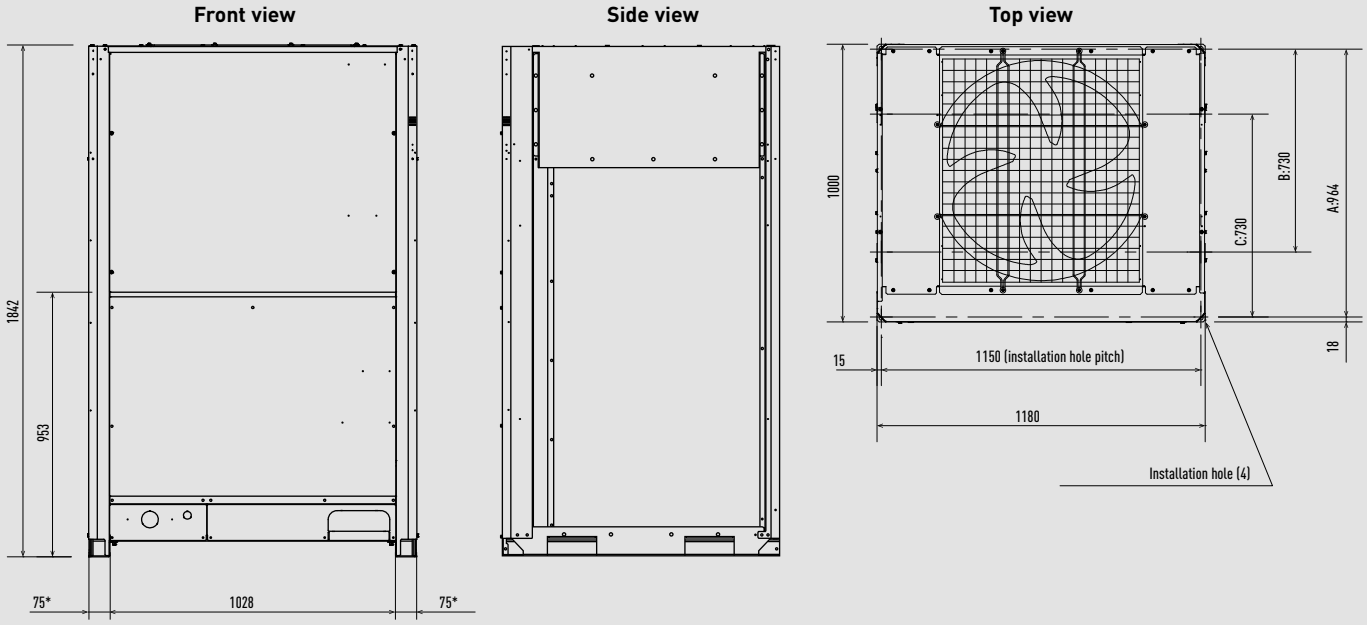
According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

A: 964 (installation hole pitch). The piping is routed out from the front.
B: 730 (installation hole pitch)*. The piping is routed out from the bottom.
C: 730 (installation hole pitch).

*Installation fixing bracket. Installation side.

Unit: mm

2-Pipe ECOi EX ME2 Series 12, 14 and 16 HP / 3-Pipe ECOi EX MF3 Series.



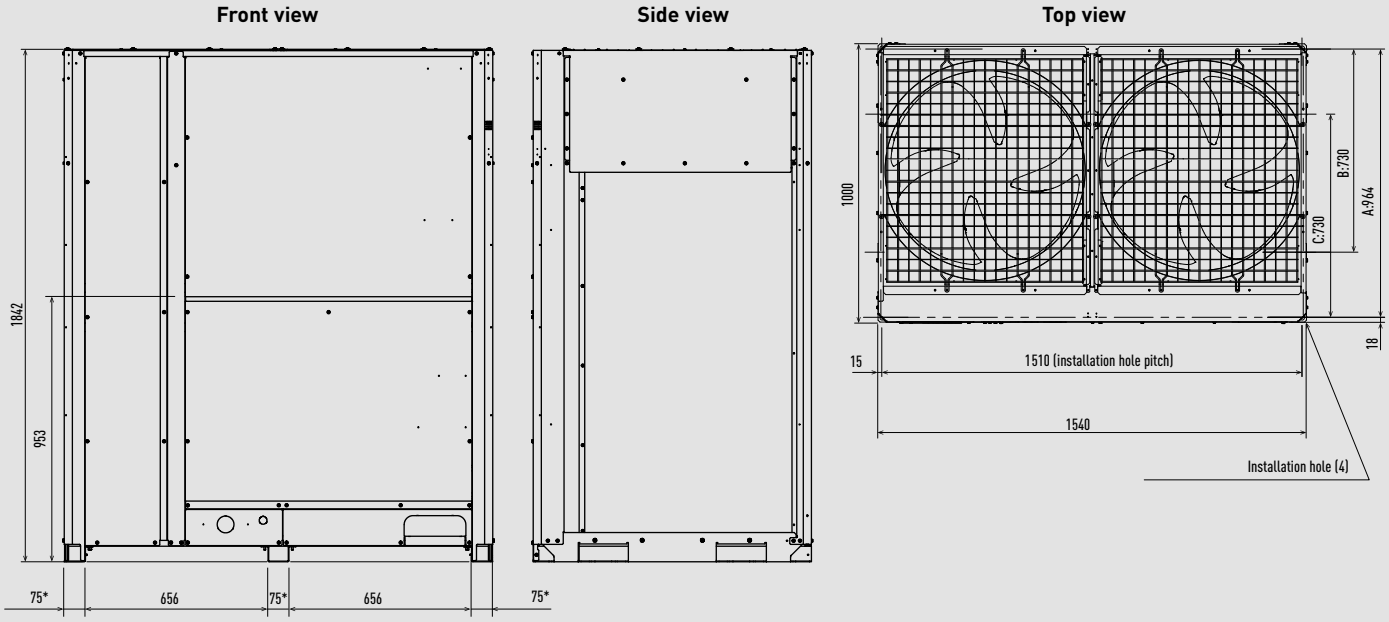
According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

A: 964 (installation hole pitch). The piping is routed out from the front.
B: 730 (installation hole pitch)*. The piping is routed out from the bottom.
C: 730 (installation hole pitch).

*Installation fixing bracket. Installation side.

Unit: mm

2-Pipe ECOi EX ME2 Series 18 and 20 HP.



According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

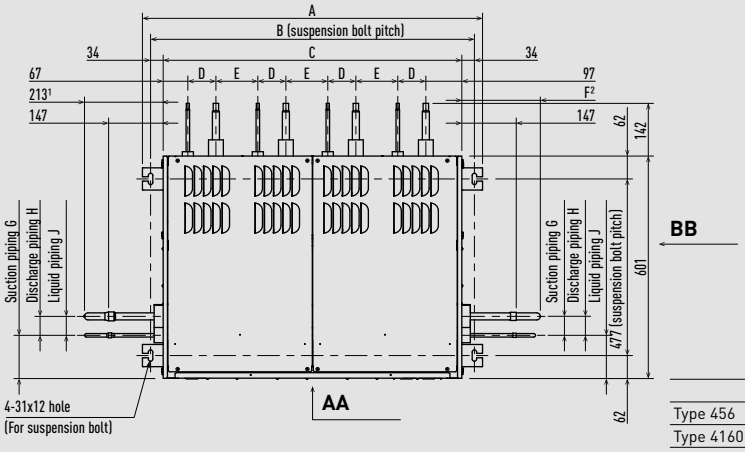
A: 964 (installation hole pitch). The piping is routed out from the front.
B: 730 (installation hole pitch)*. The piping is routed out from the bottom.
C: 730 (installation hole pitch).

*Installation fixing bracket. Installation side.

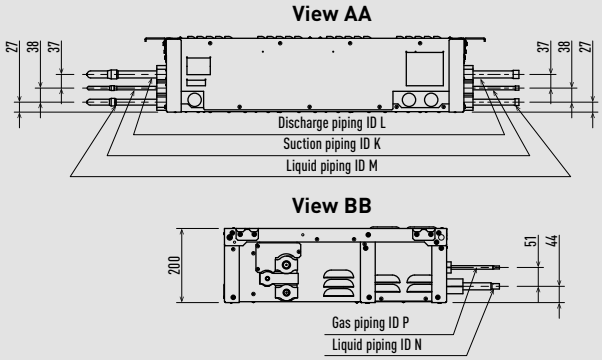
Unit: mm

3-Pipe Control Box Kit / Multiple connection type.

Heat recovery box dimensions

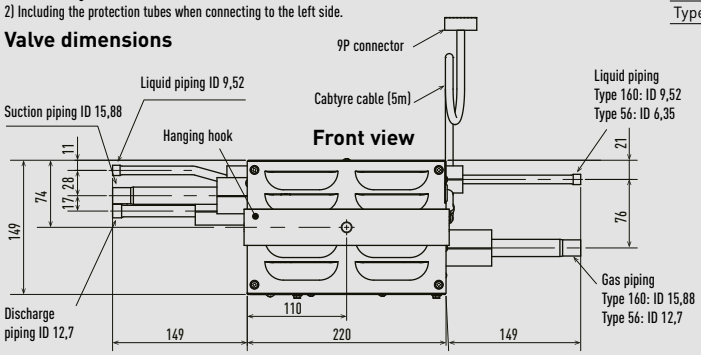


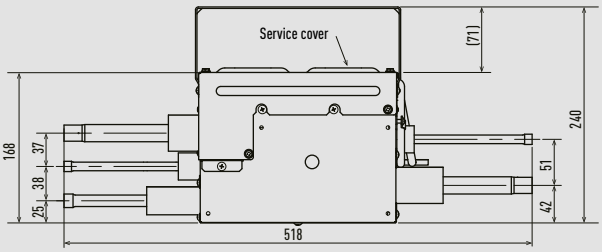
1) In case of right side connection.
2) Including the protection tubes when connecting to the left side.



	A	B	C	D	E	F	G	H	J	K	L	M	N	P
Type 456	919	874	807	67	113	213	51	51	117	Ø19,05	Ø15,88	Ø9,52	Ø6,35	Ø12,70
Type 4160	919	874	807	67	113	207	55	54	113	Ø9,52	Ø15,88	Ø28,58	Ø25,40	Ø15,88
Type 656	1297	1253	1185	67	113	213	54	55	115	Ø25,40	Ø19,05	Ø12,70	Ø6,35	Ø12,70
Type 856	1675	1631	1563	67	113	213	53	53	115	Ø28,58	Ø22,22	Ø12,70	Ø6,35	Ø12,70

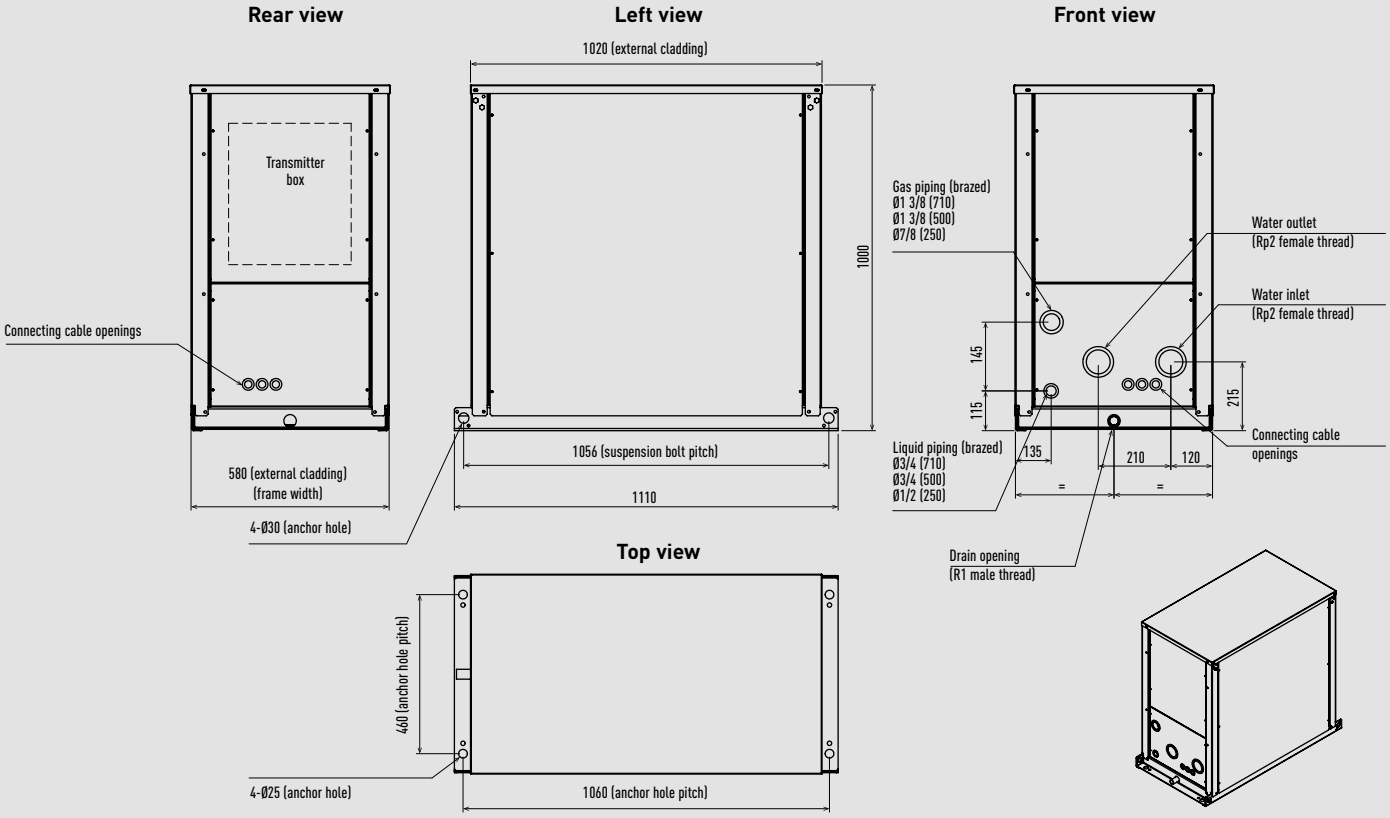
Valve dimensions





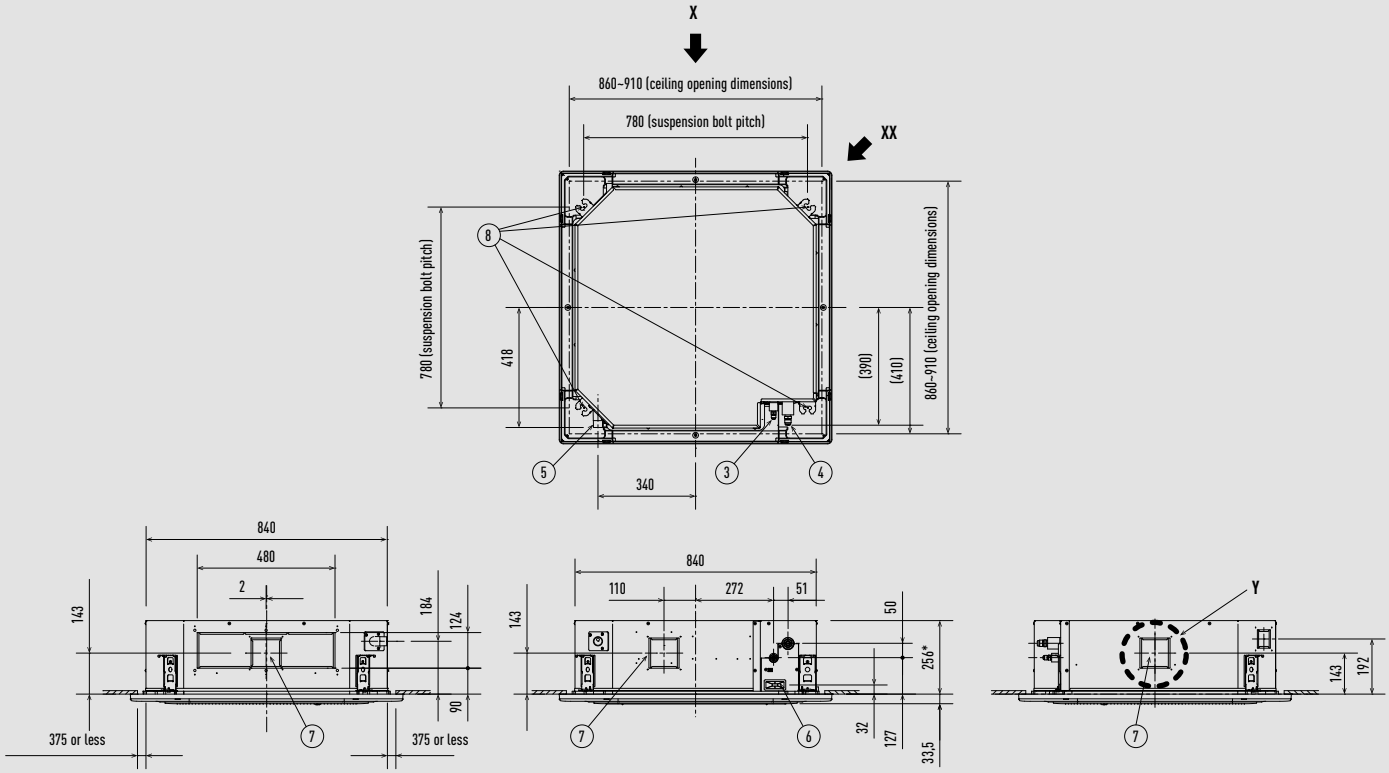
Unit: mm

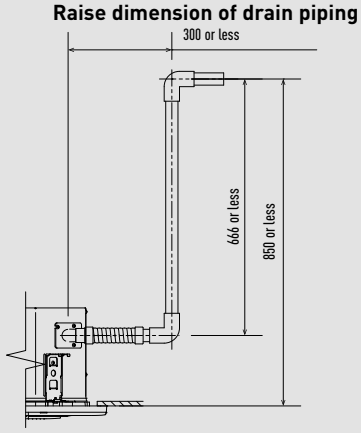
Water Heat Exchanger for chilled and hot water production.

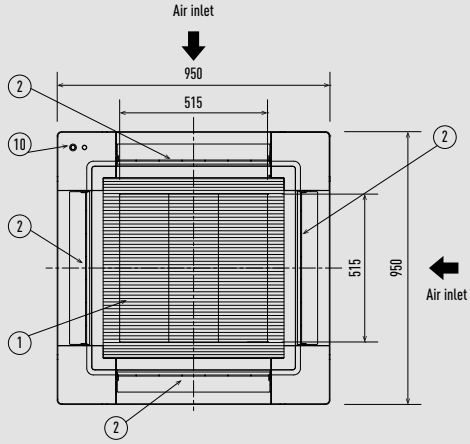


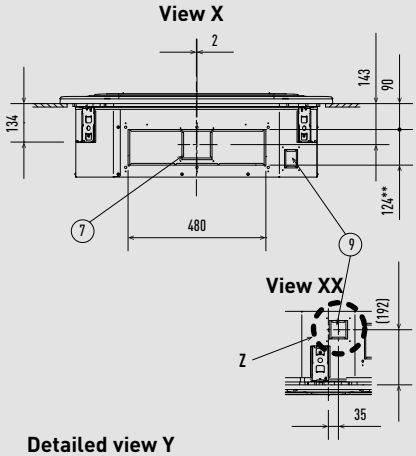
Unit: mm

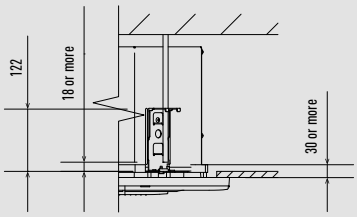
U2 type 4 way 90x90 cassette.

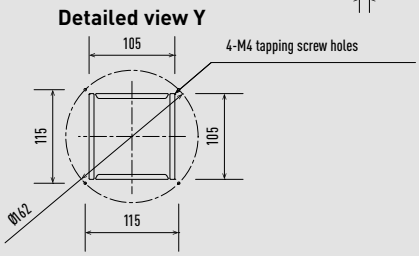


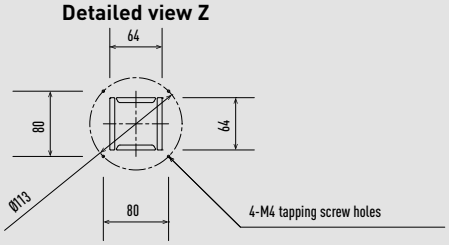












The length of the suspension bolts should be selected so that there is a gap of 30 mm or more below the lower surface of the ceiling (18 mm or more below the lower surface of the main unit), as shown in the figure at right. If the suspension bolt is too long, it will contact the ceiling panel and the unit cannot be installed.
Filter dimension: 520 x 520 x 15 mm.

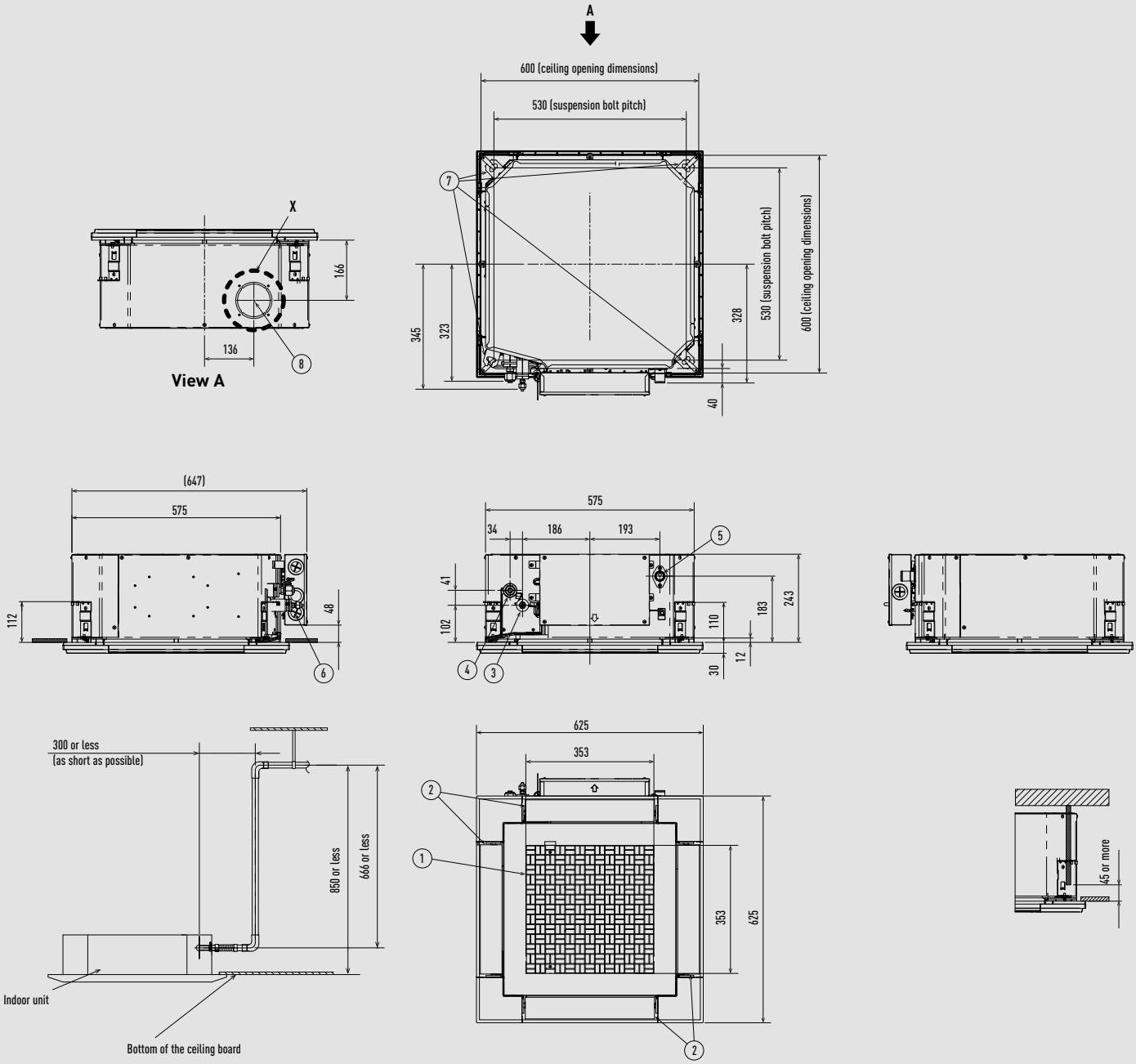
*319 mm for S-112MU2E5C / S-140MU2E5C / S-160MU2E5C.
**187 mm for S-112MU2E5C / S-140MU2E5C / S-160MU2E5C.

Type		22-56	60-160
1	Air inlet		
2	Air outlet		
3	Refrigerant piping (liquid)	Ø6,35 (flared)	Ø9,52 (flared)
4	Refrigerant piping (gas)	Ø12,70 (flared)	Ø15,88 (flared)
5	Drain piping connection port VP25	Outer diameter 32 mm	
6	Power supply port		
7	Suspension bolt hole	4-12x30 elongated hole	
8	Fresh air inlet duct connection port	Ø100 [1]	
9	Suspension bolt hole	4-12x30 elongated hole	
10	Econavi sensor (only CZ-KPU3A)		

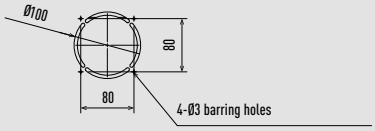
1) Necessary to attach duct connecting flange (field supplied).

Unit: mm

Y3 type 4 way 60x60 cassette.



*Length of supplied drain piping= 250 mm.



Detailed view X

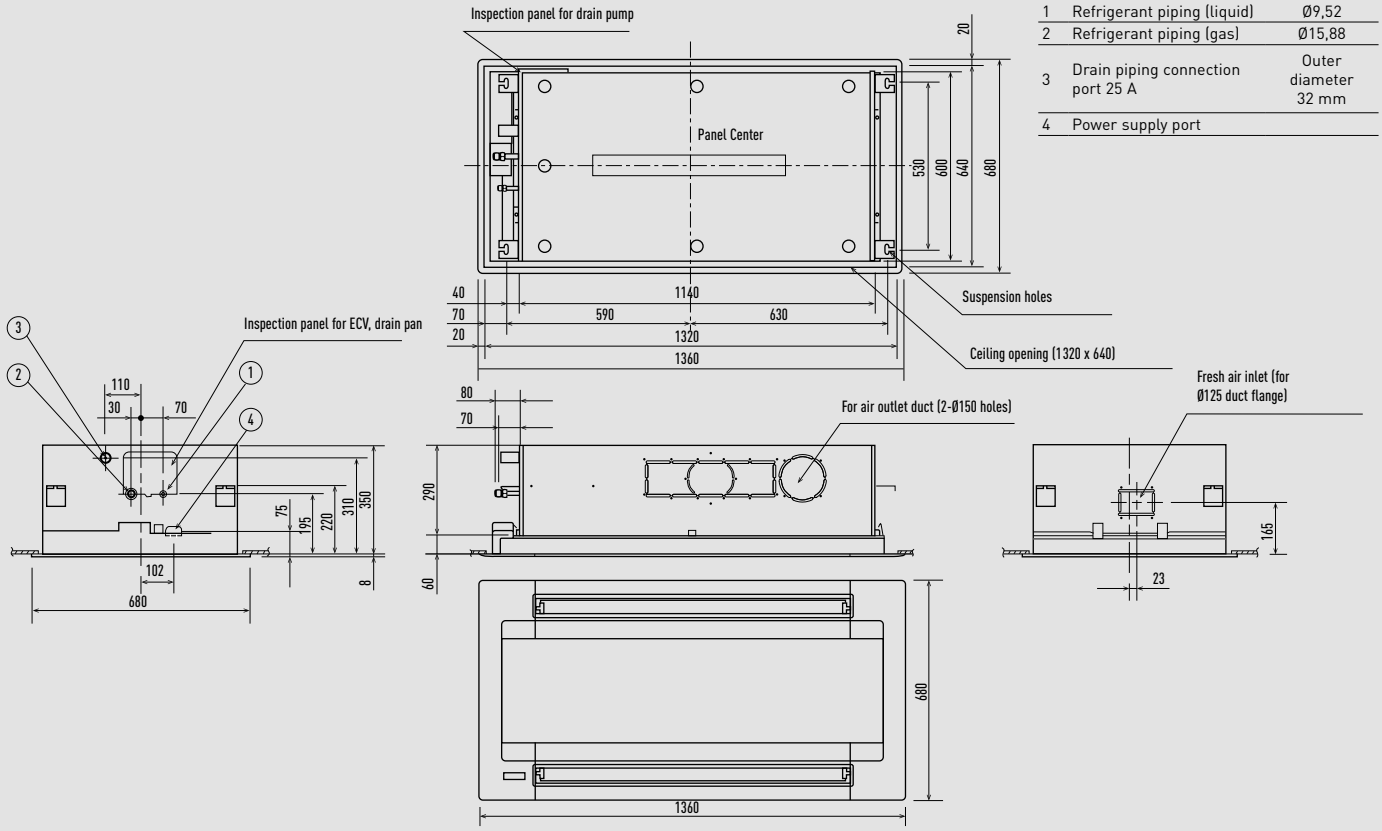
1	Air inlet	
2	Air outlet	
3	Refrigerant piping (liquid)	Ø6,35 (flared)
4	Refrigerant piping (gas)	Ø12,70 (flared)
5	Drain piping connection port VP20	
6	Power supply port	
7	Suspension bolt hole (4-11x26 slot)	
8	Fresh air inlet duct connection port (Ø100) [1]	

1) Necessary to attach duct connecting flange (field supply).

Filter dimension: 362 x 362 x 15 mm.

Unit: mm

L1 type 2 way cassette.

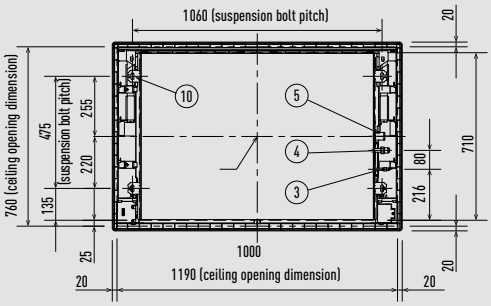


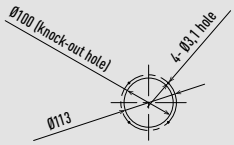
1	Refrigerant piping (liquid)	Ø9,52
2	Refrigerant piping (gas)	Ø15,88
3	Drain piping connection port 25 A	Outer diameter 32 mm
4	Power supply port	

Unit: mm

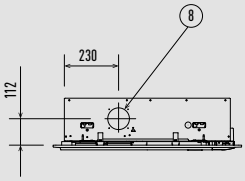
D1 type 1 way cassette.

		28-56	73
1	Air inlet		
2	Air outlet		
3	Refrigerant piping (liquid)	Ø6,35 (flared)	Ø9,52 (flared)
4	Refrigerant piping (gas)	Ø12,70 (flared)	Ø15,88 (flared)
5	Drain piping connection port VP25	Outer diameter 32 mm	
6	Power supply port		
7	Air outlet duct connection port (for descending ceiling)		
8	Fresh air inlet duct connection port	Ø100	
9	Wireless remote controller receiver installation location		
10	Suspension bolt hole	4-12x30 mm	

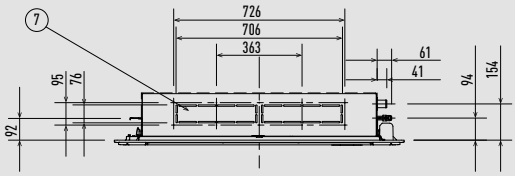




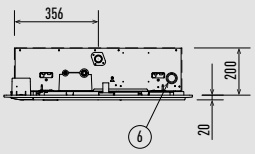
Fresh air inlet duct connection port (detail)

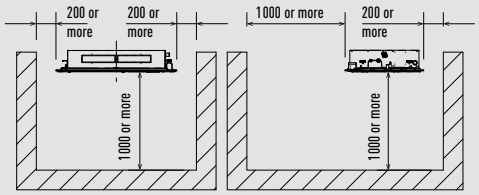


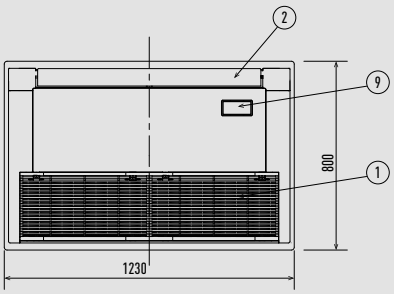
Space necessary for installation



Front view

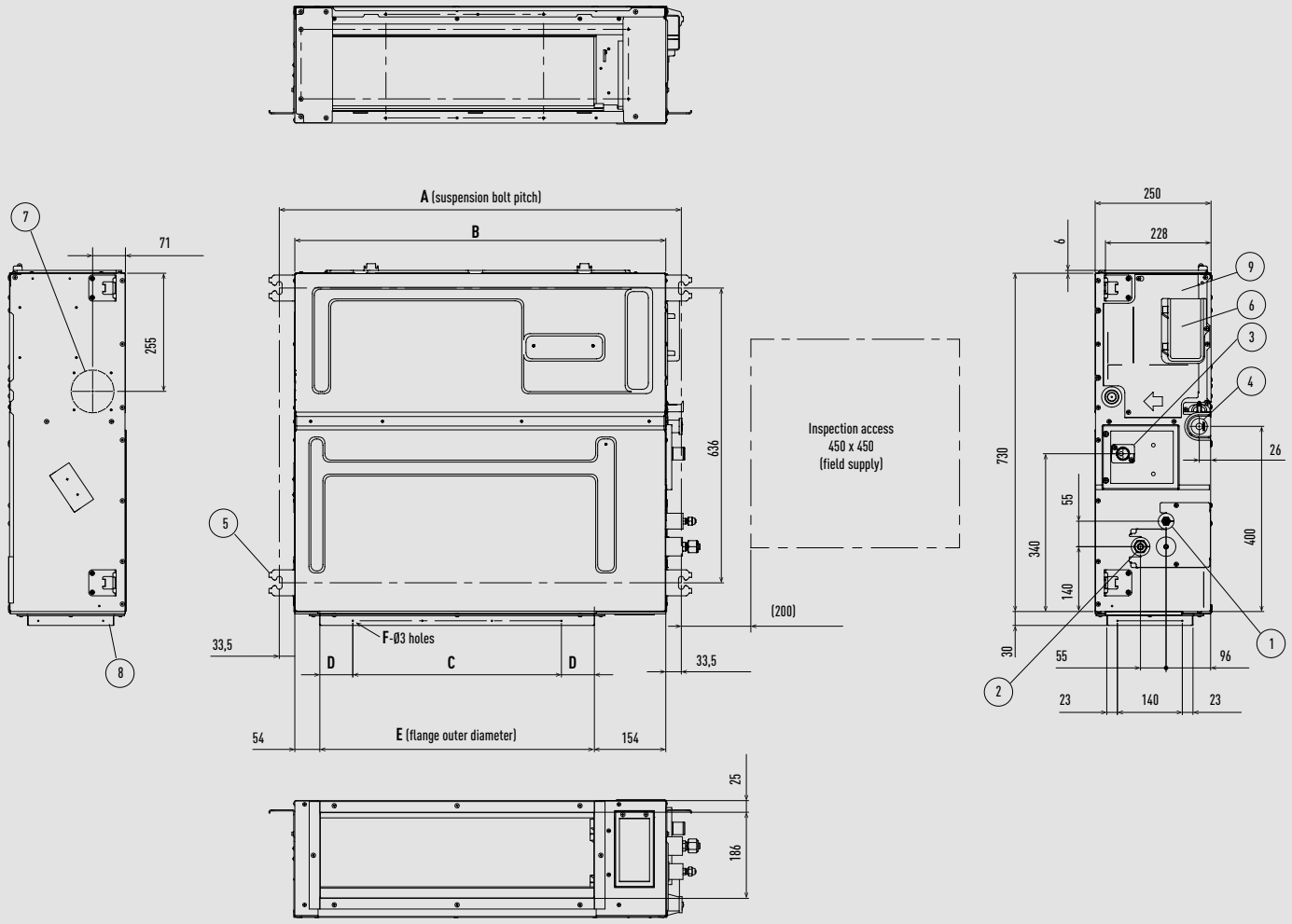






Unit: mm

F3 type variable static pressure adaptive duct.



	A	B	C	D	E	F
	mm	mm	mm	mm	mm	Q'ty
S-15MF3E5D, S-22MF3E5D, S-28MF3E5D, S-36MF3E5D, S-45MF3E5D, S-56MF3E5D	867	800	450 (pitch 150 x 3)	71	592	12
S-60MF3E5D, S-73MF3E5D, S-90MF3E5D	1067	1000	750 (pitch 150 x 5)	21	792	16
S-112MF3E5D, S-140MF3E5D, S-160MF3E5D	1467	1400	1050 (pitch 150 x 7)	71	1192	20

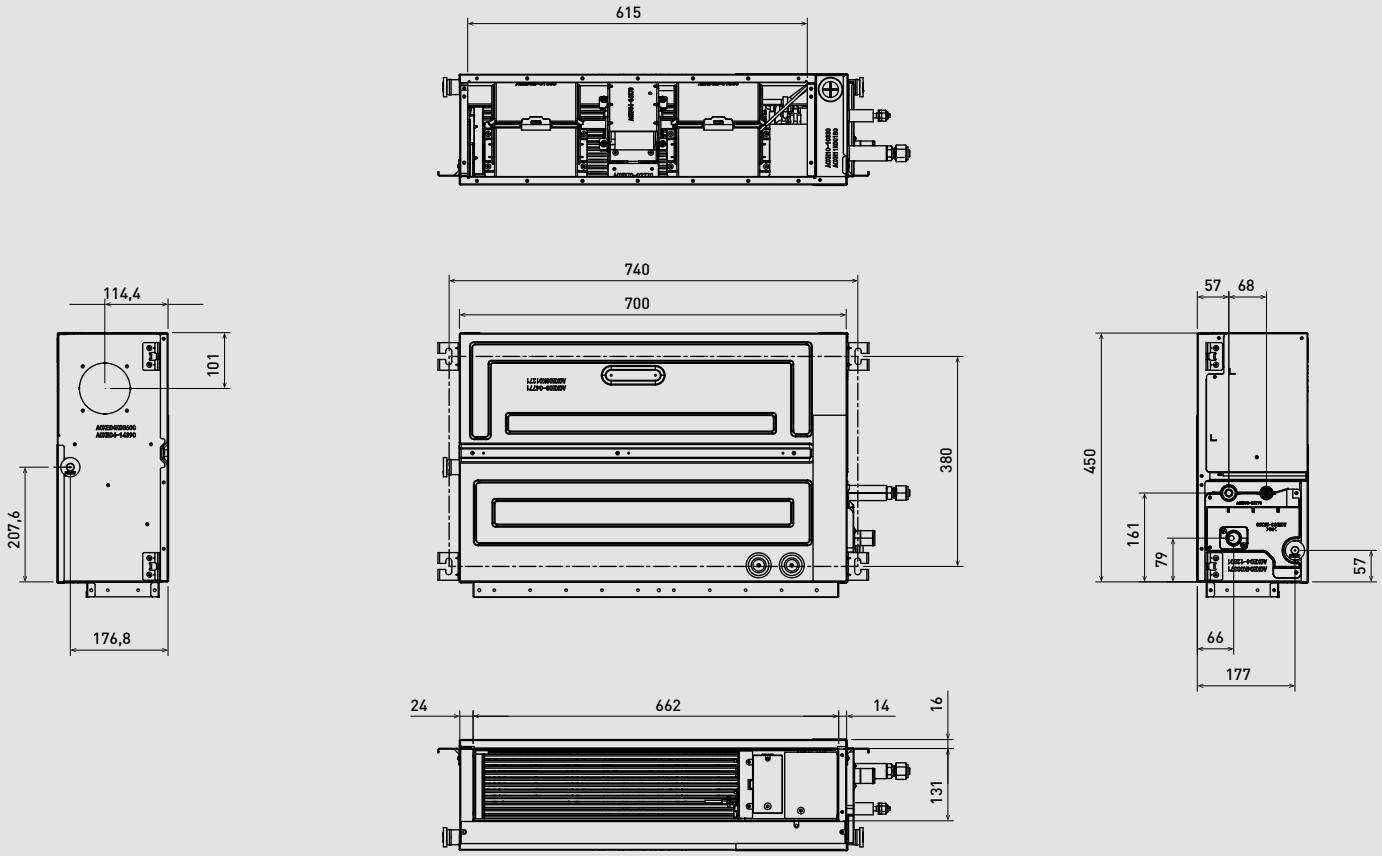
Type		**15-90**	**106-160**	**15-56**	**60-160**
1	Refrigerant piping (liquid)	Ø6,35 (flared)	Ø9,52 (flared)	Ø12,70 (flared)	Ø15,88 (flared)
2	Refrigerant piping (gas)				
3	Upper drain piping connection port VP20		Outer diameter 26 mm, 200 mm flexible hose supplied		
4	Bottom drain piping connection port VP20		Outer diameter 26 mm		
5	Suspension lug		4-12x30 mm		
6	Power supply port				
7	Fresh air inlet duct connection port		Ø100 mm*		
8	Flange for flexible air discharge duct				
9	Electrical component box				

*Necessary to attach duct connecting flange (field supply).

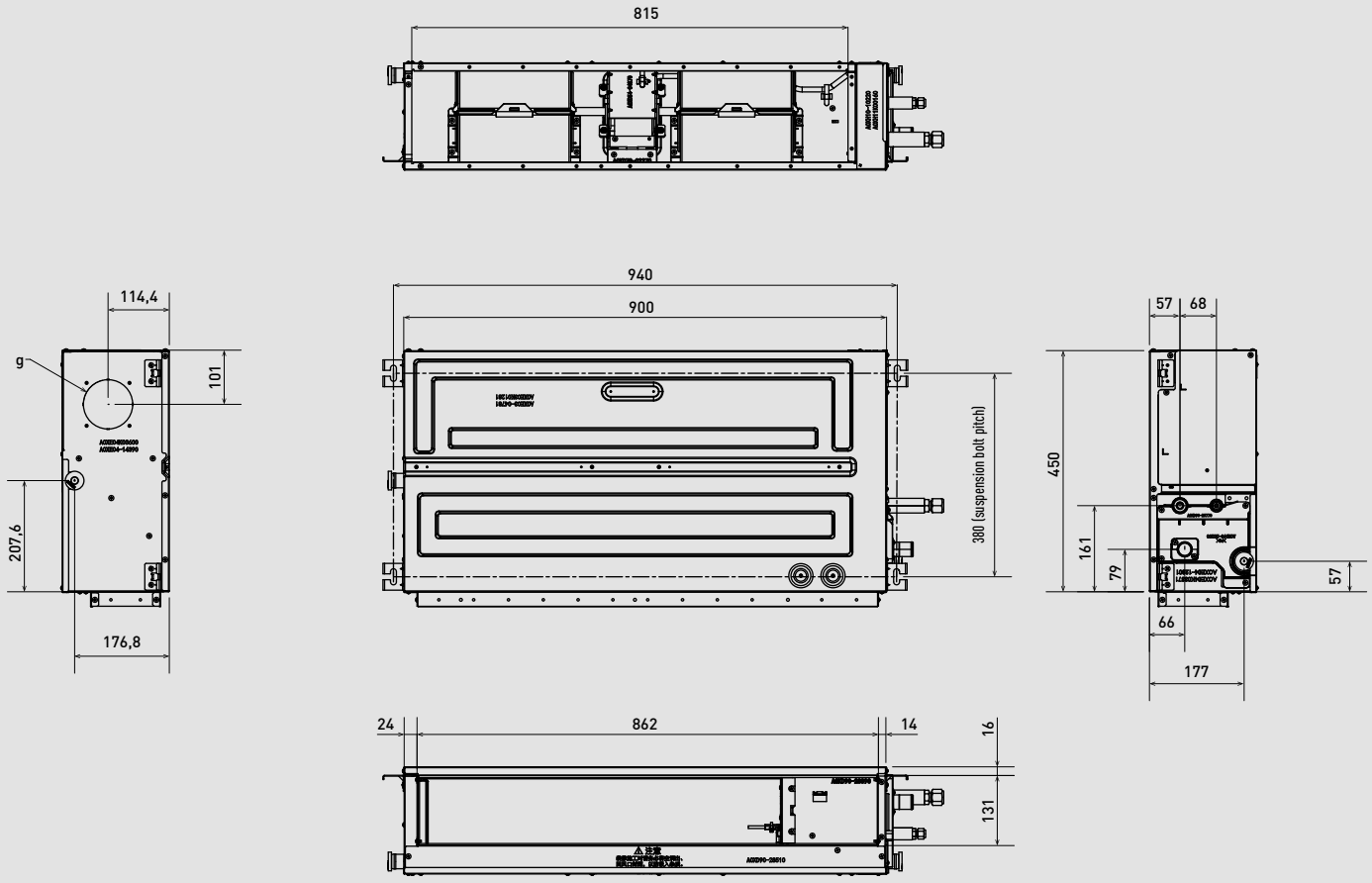
Unit: mm

M2 type slim variable static pressure hide-away concealed duct.

S-10MM2EB / S-15MM2EB / S-22MM2EB / S-28MM2EB / S-36MM2EB

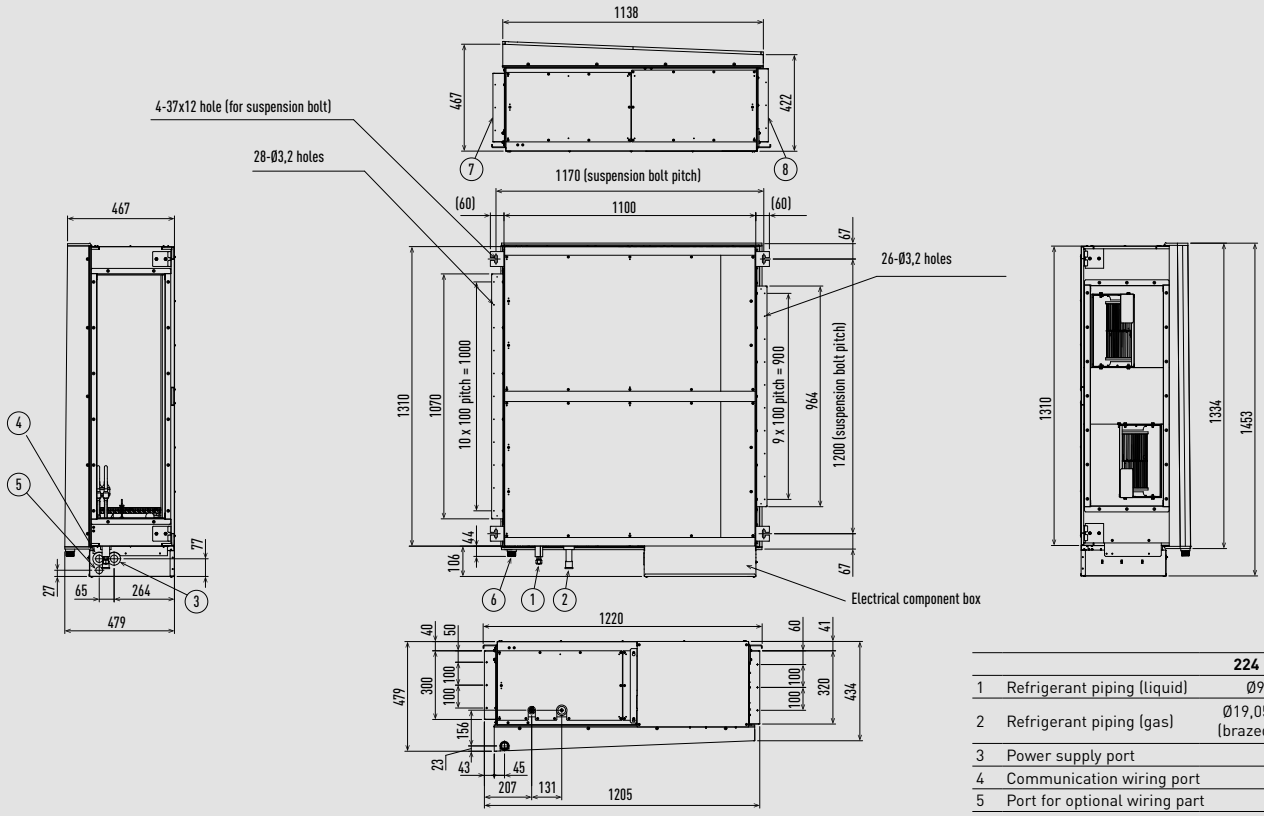


S-45MM2EB / S-56MM2EB



Unit: mm

E2 type high static pressure hide-away.

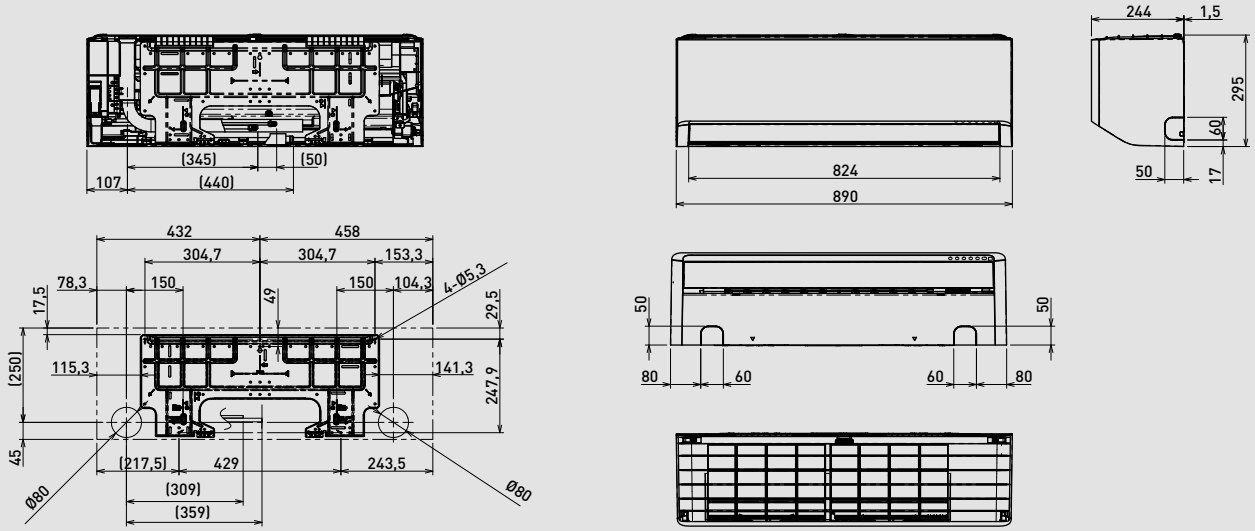


		224	280
1	Refrigerant piping (liquid)	Ø9,52 (flared)	
2	Refrigerant piping (gas)	Ø19,05 (brazed)	Ø22,22 (brazed)
3	Power supply port		
4	Communication wiring port		
5	Port for optional wiring part		
6	Drain piping connection port 25 A		
7	Flange for air inlet duct		
8	Flange for the air outlet duct		

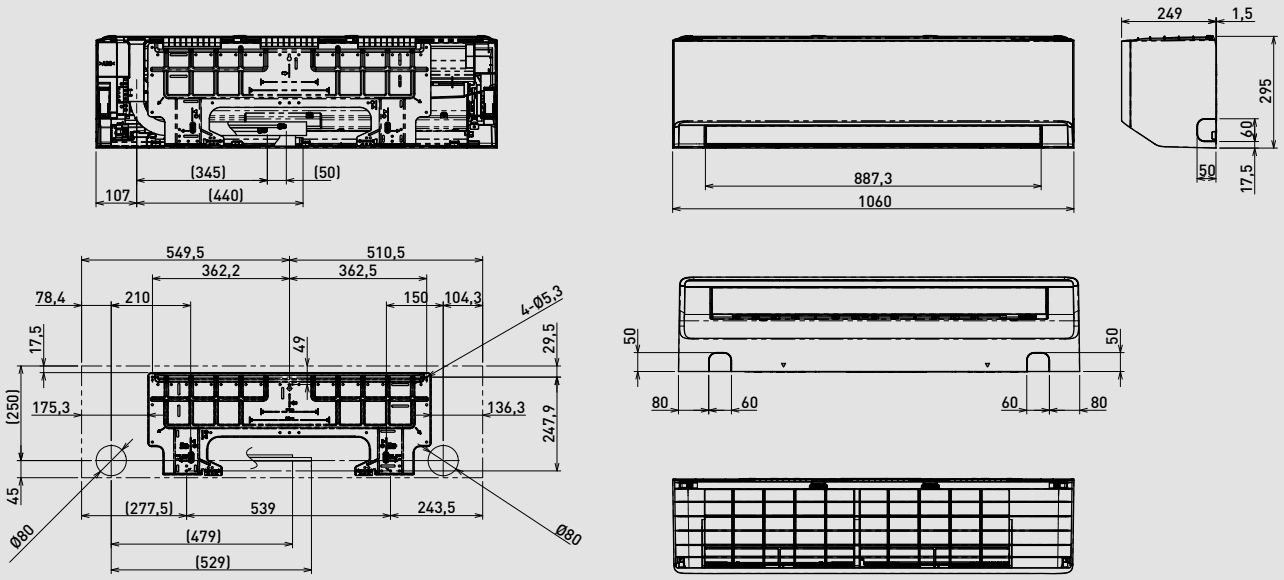
Unit: mm

K3 type wall-mounted.

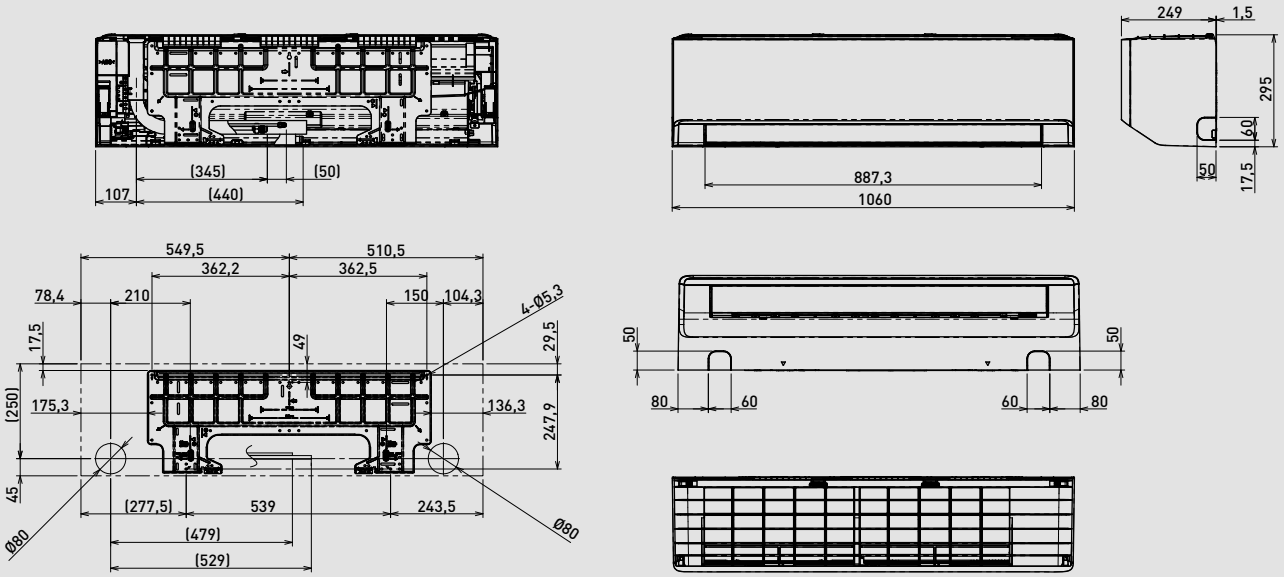
S-15MK3E / S-22MK3E / S-28MK3E / S-36MK3E / S-45MK3E



S-56MK3E



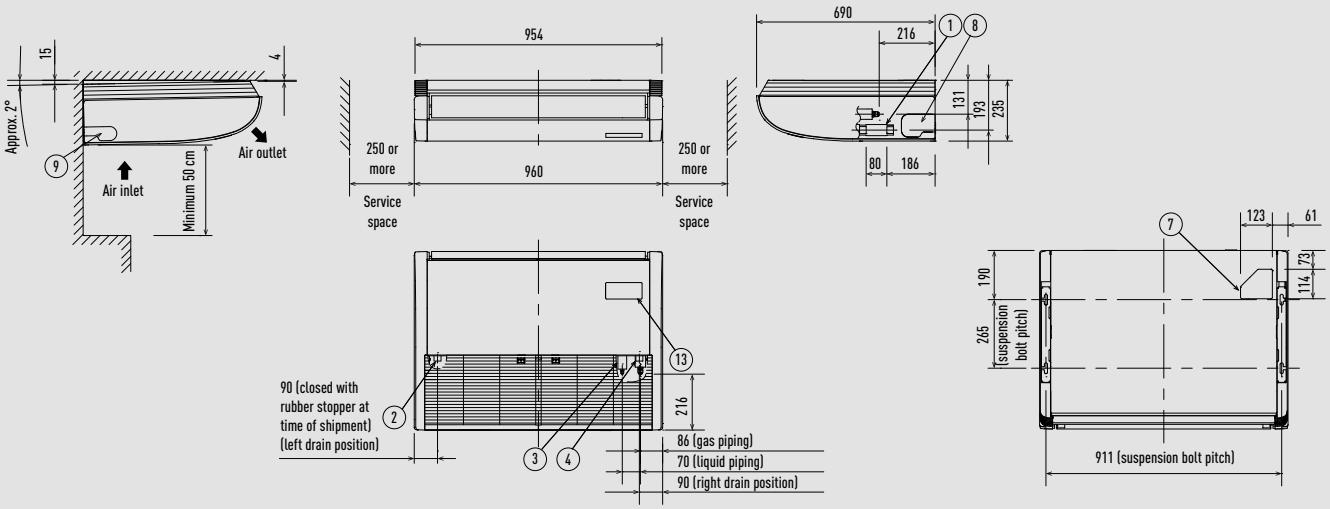
S-73MK3E / S-106MK3E



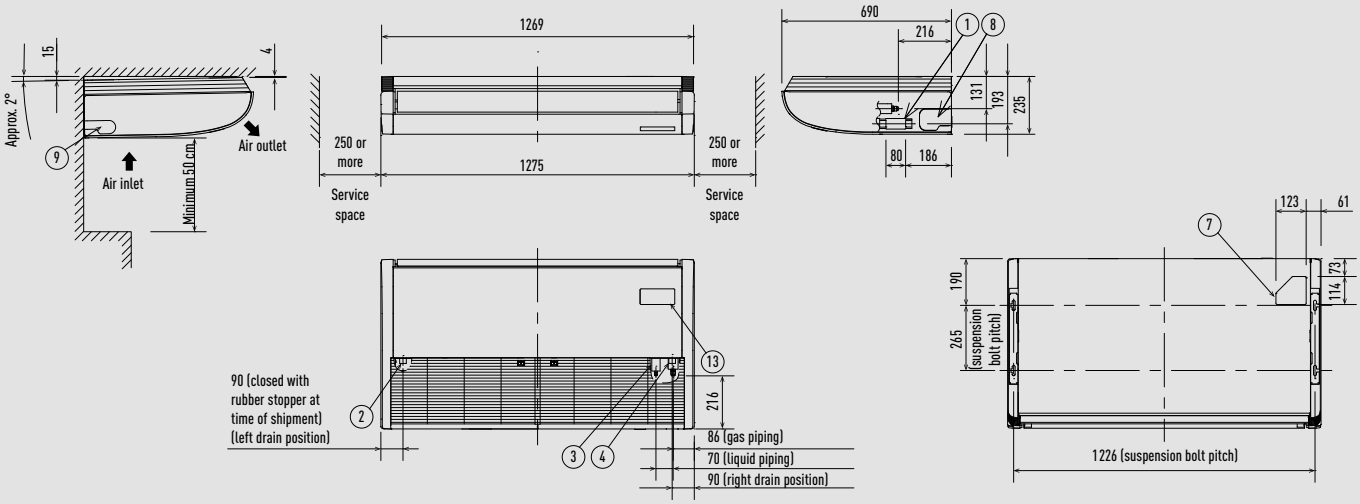
Unit: mm

T2 type ceiling.

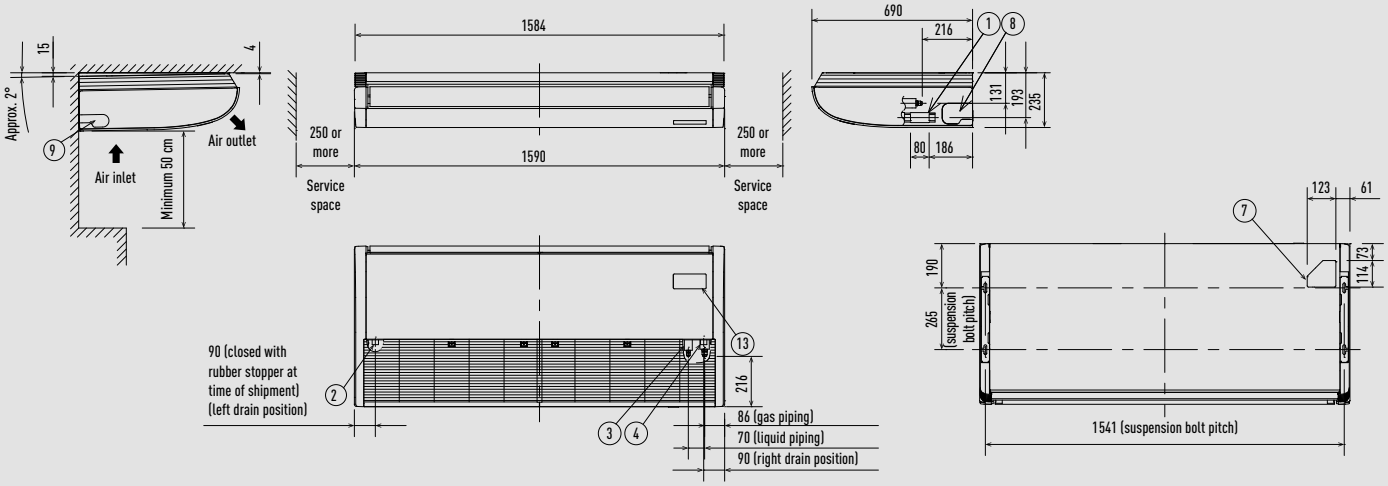
S-36MT2E5A / S-45MT2E5A / S-56MT2E5A



S-73MT2E5A



S-106MT2E5A / S-140MT2E5A



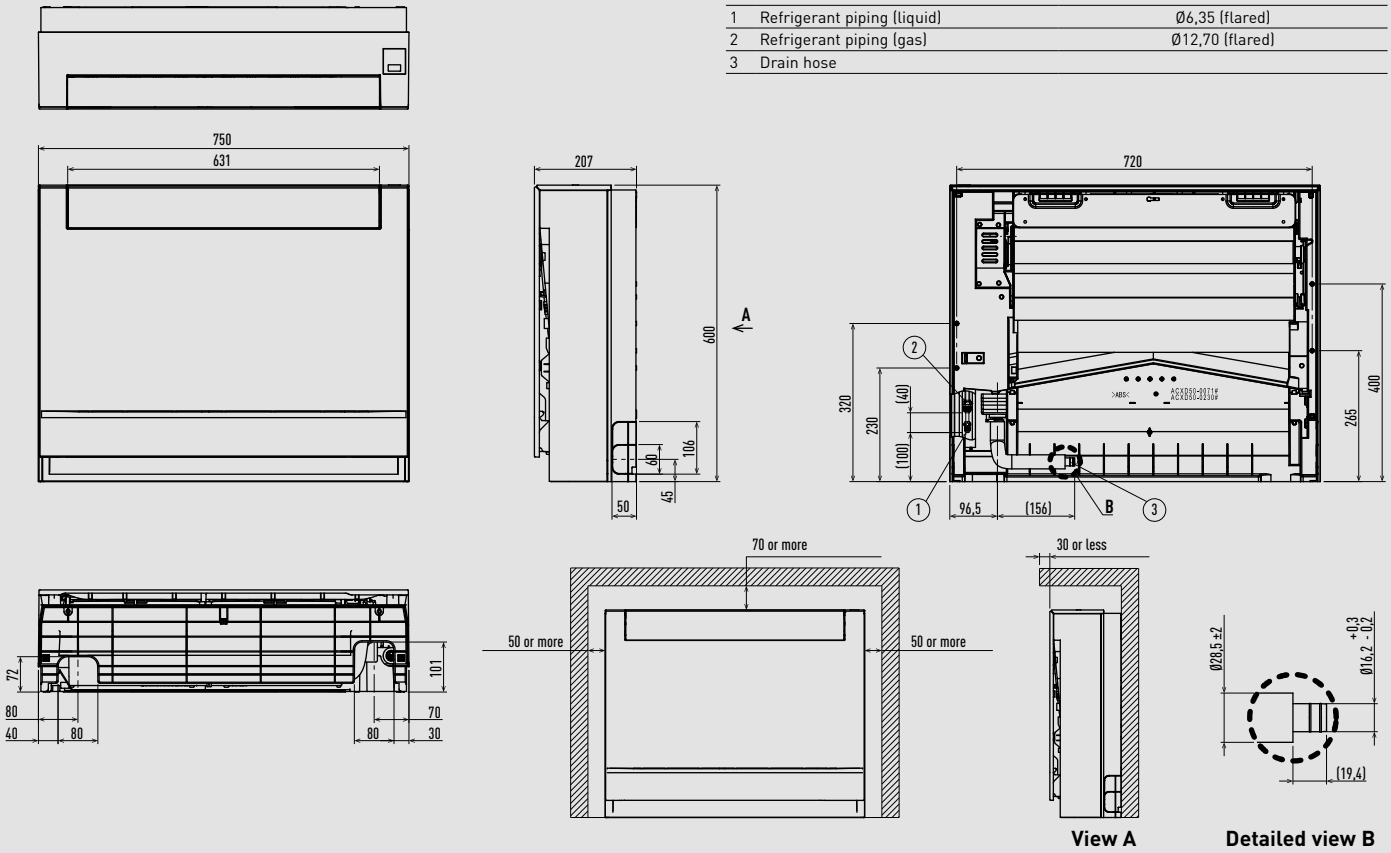
1	Drain piping connection port VP20	Inside diameter 26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant piping (liquid)	Ø9,52 (flared)
4	Refrigerant piping (gas)	Ø15,88 (flared)

5	Left side drain hose outlet port (cutout)	
6	Piping hole on wall surface	Ø100 mm
7	Upper side piping port	
8	Right side drain hose outlet port (cutout)	
9	Wireless remote controller receiver installation location	

Unit: mm

G1 type floor console.

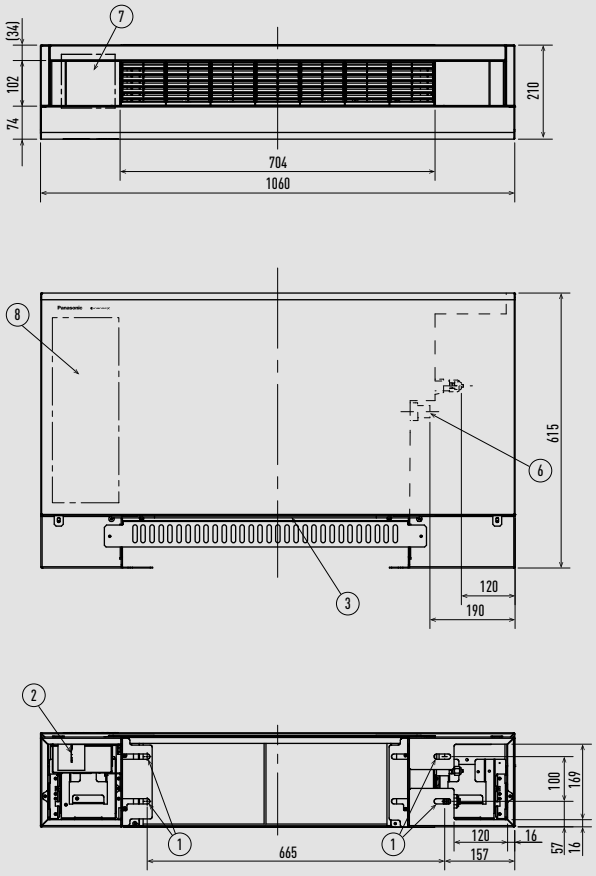
1	Refrigerant piping (liquid)	Ø6,35 (flared)
2	Refrigerant piping (gas)	Ø12,70 (flared)
3	Drain hose	

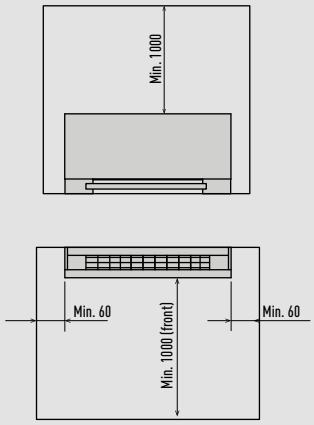


Unit: mm

P2 type floor-standing.

S-22MP2E / S-28MP2E / S-36MP2E



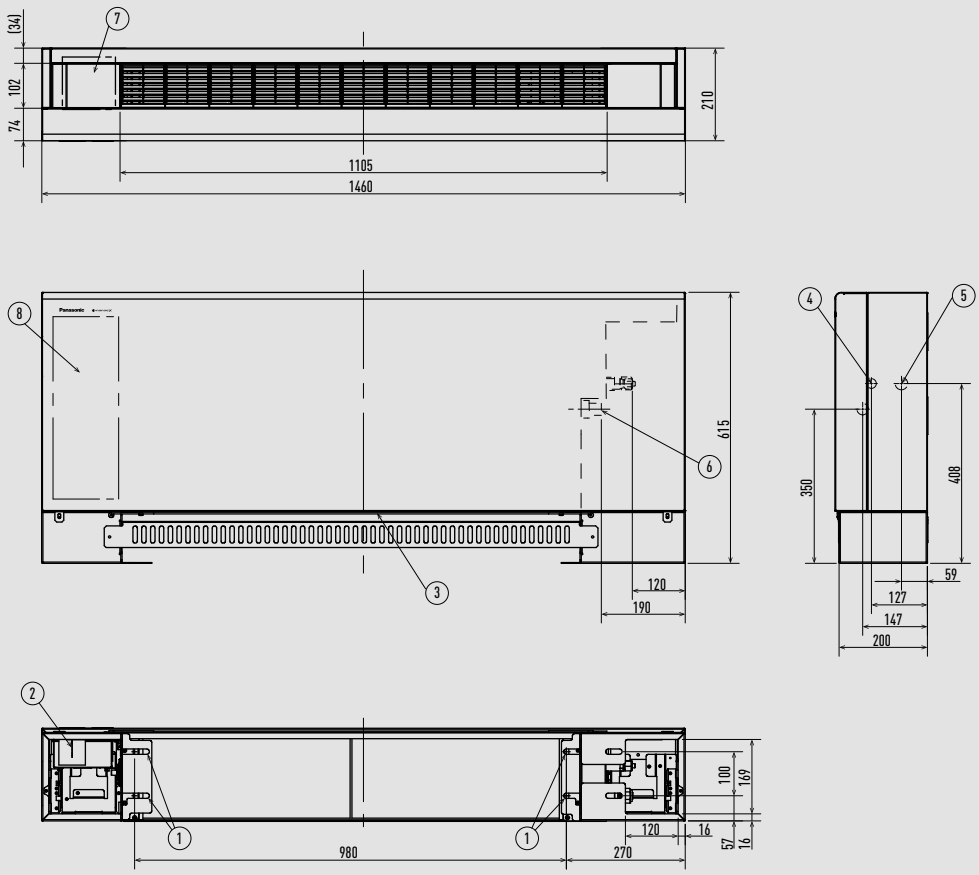


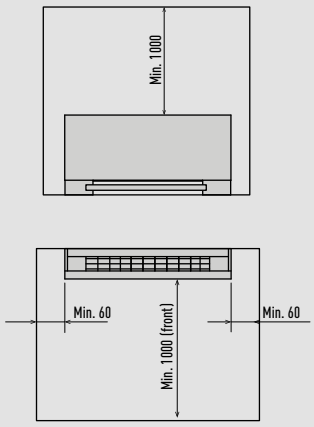
1	Elongated holes (for floor mounting)
2	Power supply outlet
3	Air filter
4	Refrigerant tubing (liquid tube) Ø6,35 (flared)
5	Refrigerant tubing (gas tube) Ø12,70 (flared)
6	Drain tube connection port VP20
7	Location for mounting the remote controller
8	Electrical component box

Filter dimension: 557 x 196 x 5 (1 pc.).

Note: The minimum space for installation and maintenance services is shown in the figure.

S-45MP2E / S-56MP2E / S-71MP2E





1	Elongated holes (for floor mounting)		
2	Power supply outlet		
3	Air filter		
4	Refrigerant tubing (liquid tube)	Type 45, 56, 71 (R32)	Ø6,35 (flared)
		Type 45, 56 (R410A)	
		Type 71 (R410A)	Ø9,52 (flared)
5	Refrigerant tubing (gas tube)	Type 45, 56, 71 (R32)	Ø12,70 (flared)
		Type 45, 56 (R410A)	
		Type 71 (R410A)	Ø15,88 (flared)
6	Drain tube connection port VP20		
7	Location for mounting the remote controller		
8	Electrical component box		

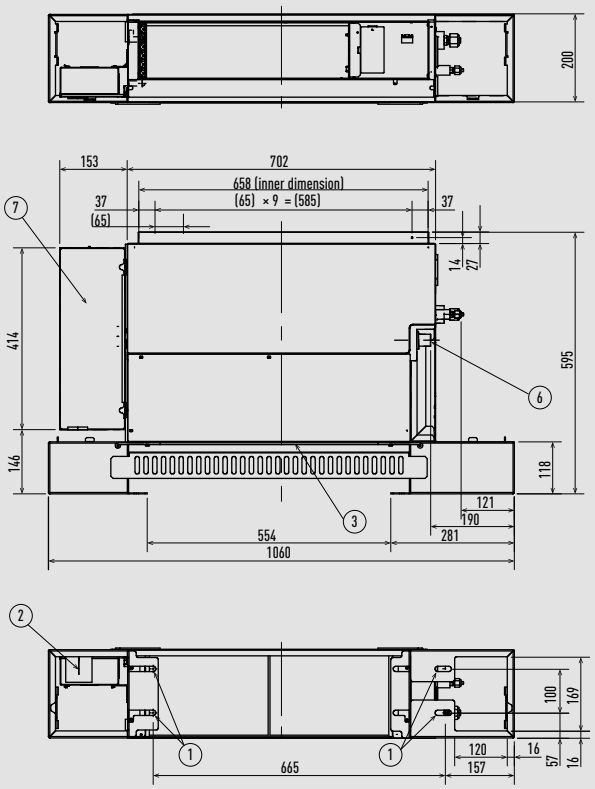
Filter dimension: 957 x 196 x 5 (1 pc.).

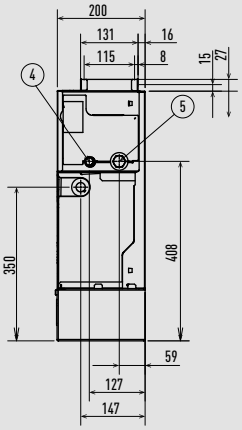
Note: The minimum space for installation and maintenance services is shown in the figure.

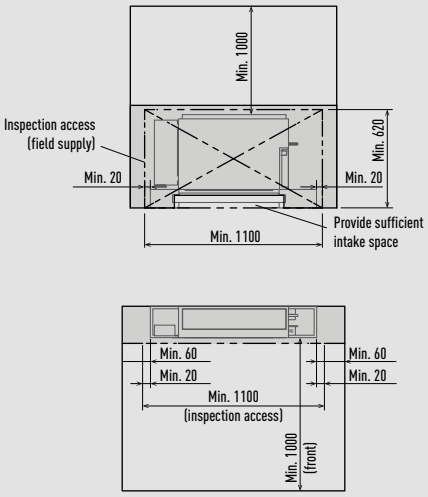
Unit: mm

R2 type concealed floor-standing.

S-22MR2E / S-28MR2E / S-36MR2E





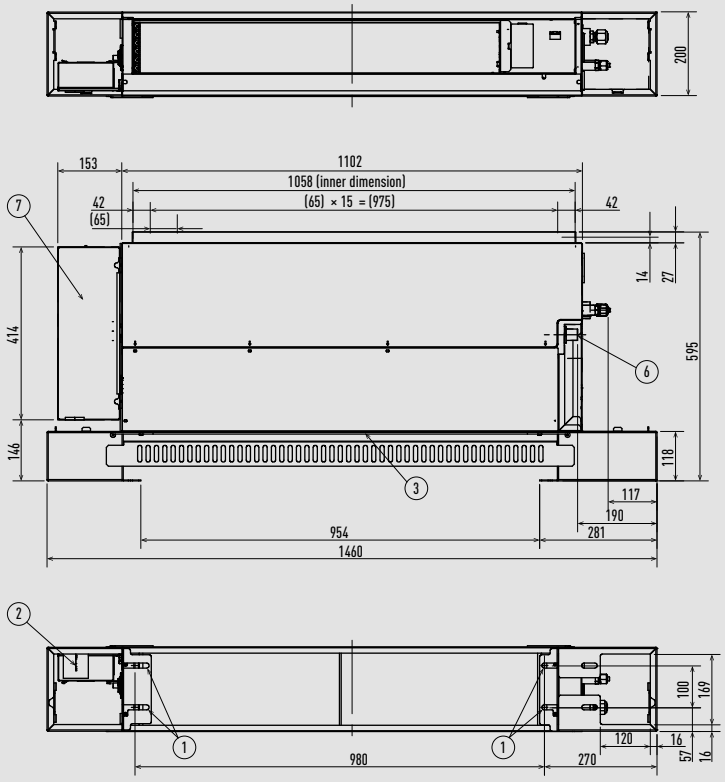


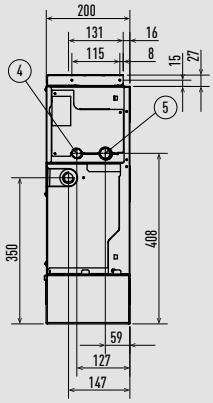
1	Elongated holes (for floor mounting)
2	Power supply outlet
3	Air filter
4	Refrigerant tubing (liquid tube) Ø6,35 (flared)
5	Refrigerant tubing (gas tube) Ø12,70 (flared)
6	Drain tube connection port VP20
7	Electrical component box

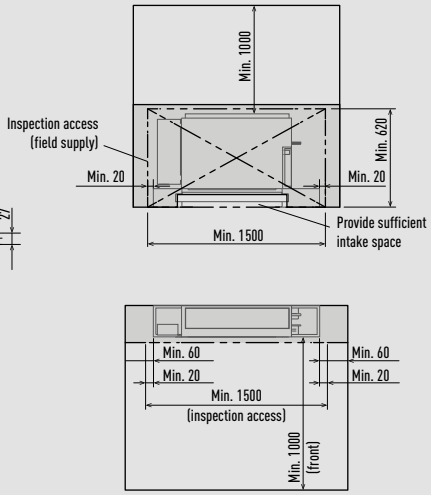
Filter dimension: 557 x 196 x 5 (1 pc.).

Note: The minimum space for installation and maintenance services is shown in the figure.

S-45MR2E / S-56MR2E / S-71MR2E







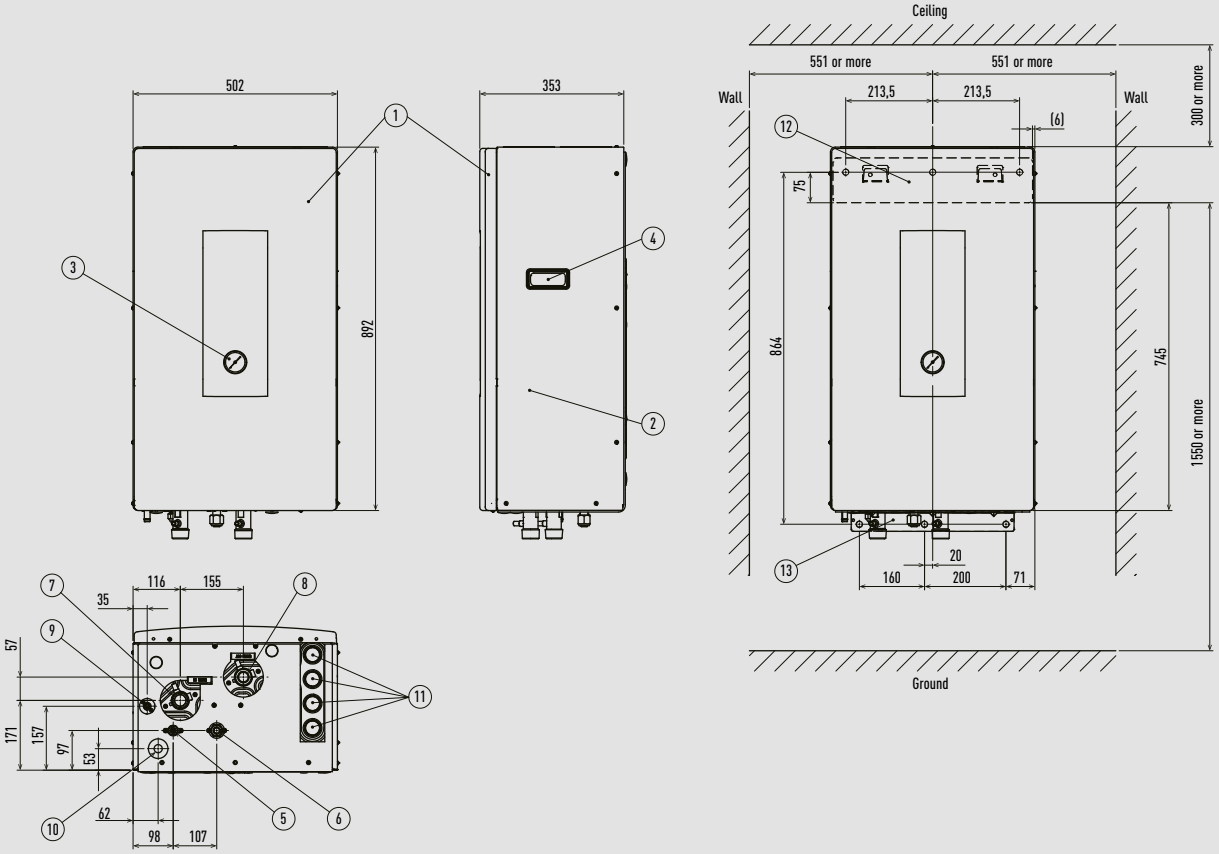
1	Elongated holes (for floor mounting)		
2	Power supply outlet		
3	Air filter		
4	Refrigerant tubing (liquid tube)	Type 45, 56, 71 (R32)	Ø6,35 (flared)
		Type 45, 56 (R410A)	
		Type 71 (R410A)	Ø9,52 (flared)
5	Refrigerant tubing (gas tube)	Type 45, 56, 71 (R32)	Ø12,70 (flared)
		Type 45, 56 (R410A)	
		Type 71 (R410A)	Ø15,88 (flared)
6	Drain tube connection port VP20		
7	Electrical component box		

Filter dimension: 957 x 196 x 5 (1 pc.).

Note: The minimum space for installation and maintenance services is shown in the figure.

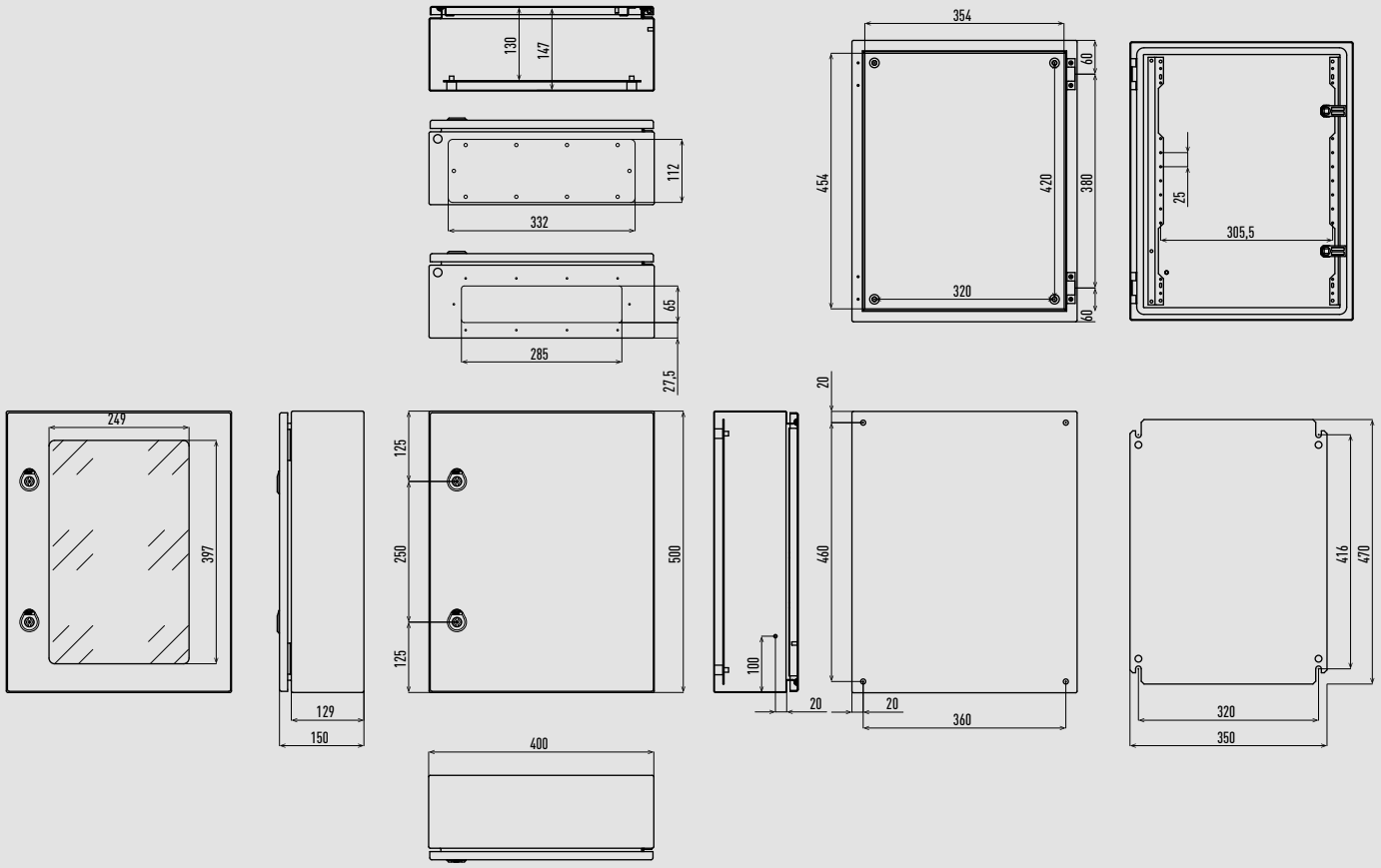
Unit: mm

Hydrokit for ECOi, water at 45 °C.



Unit: mm

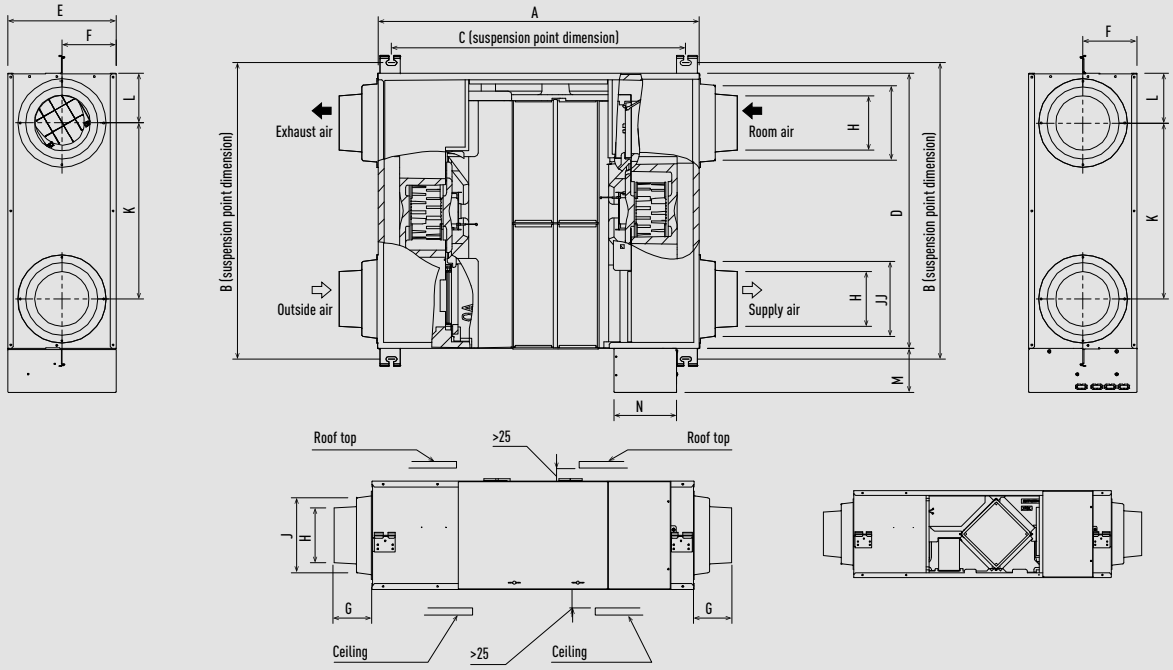
AHU connection kit PAH3M-1 for PACi NX.



Unit: mm

Advanced energy recovery ventilation – ZY Series – FV-15ZY1G / FV-25ZY1G / FV-35ZY1G / FV-50ZY1G / FV-65ZY1G / FV-80ZY1G / FV-1KZY1G.

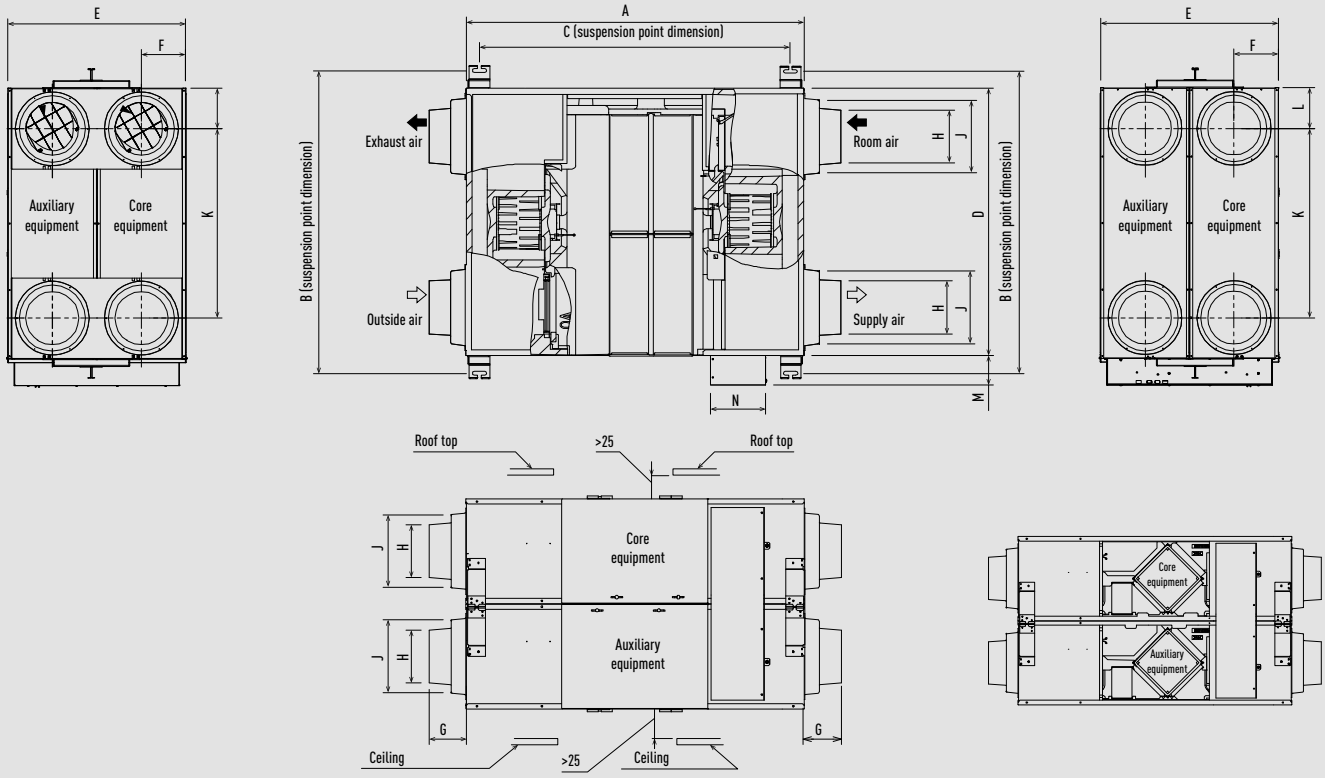
	A	B	C	D	E	F	G	H	J	K	L	M	N	Duct diameter
FV-15ZY1G	860	666	786	610	289	144,5	102	Ø97,6	Ø150	395	107,5	116	168	Ø100
FV-25ZY1G	860	791	786	735	289	144,5	102	Ø145	Ø200	470	132,5	116	168	Ø150
FV-35ZY1G	968	930	895	874	331	165,5	102	Ø145	Ø200	609	132,5	115	168	Ø150
FV-50ZY1G	968	1072	895	1016	331	165,5	114	Ø195	Ø250	665	175,5	115	168	Ø200
FV-65ZY1G	1008	1010	934	954	404	202	114	Ø195	Ø250	638	158	121	168	Ø200
FV-80ZY1G	1224	1060	1148	1004	404	202	122	Ø245	Ø300	633	185,5	121	168	Ø250
FV-1KZY1G	1224	1287	1148	1231	404	202	122	Ø245	Ø300	860	185,5	121	168	Ø250



Unit: mm

Advanced energy recovery ventilation – ZY Series – FV-1HZY1G / FV-2KZY1G.

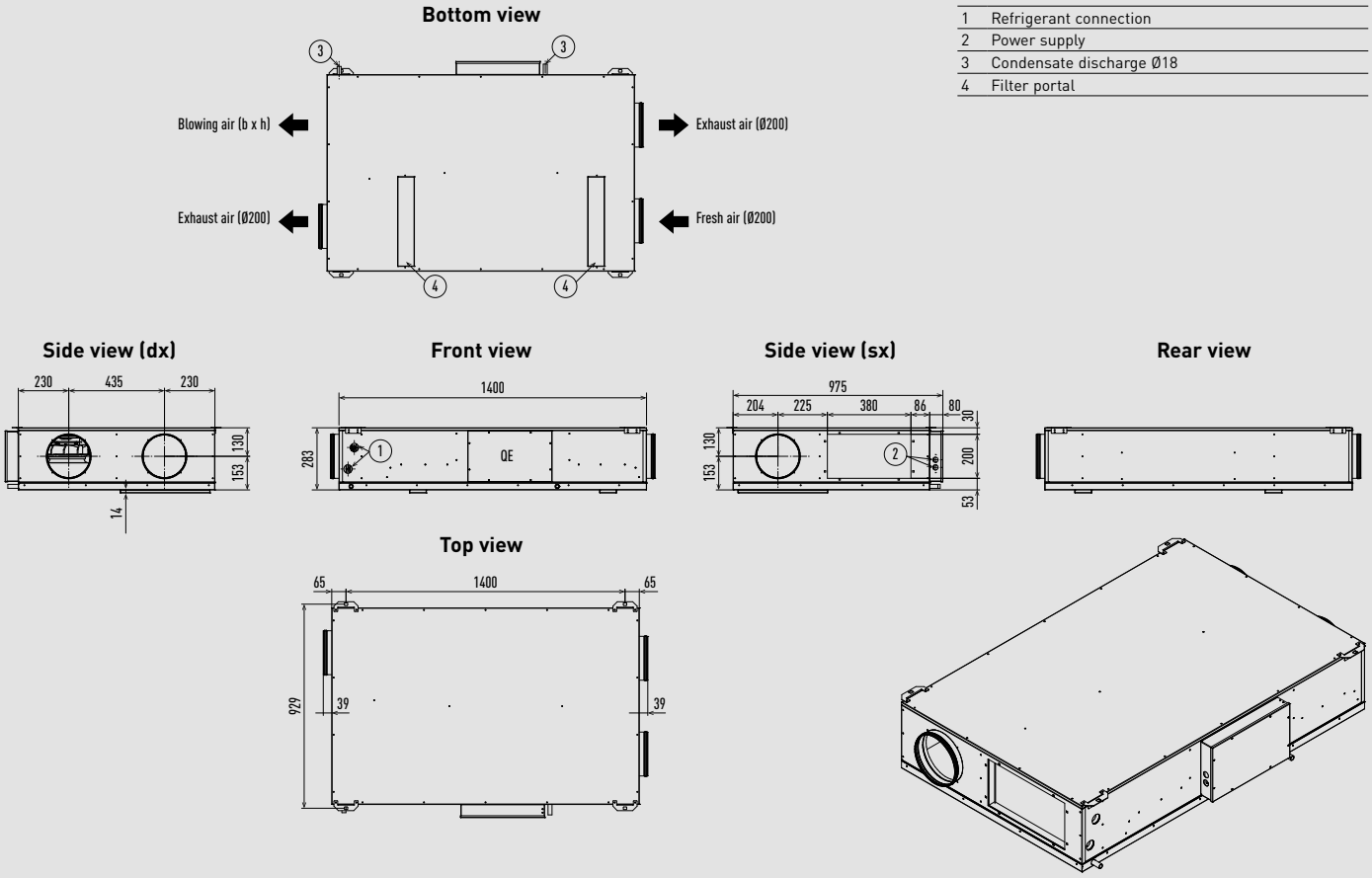
	A	B	C	D	E	F	G	H	J	K	L	M	N	Duct diameter
FV-1HZY1G	1224	1141	1127	1004	808	202	122	Ø245	Ø300	663	185.5	121	168	Ø250
FV-2KZY1G	1224	1368	1127	1231	808	202	122	Ø245	Ø300	860	185.5	121	168	Ø250



Unit: mm

ERV with DX coil – HRPT Series – PAW-HRPT40HX.

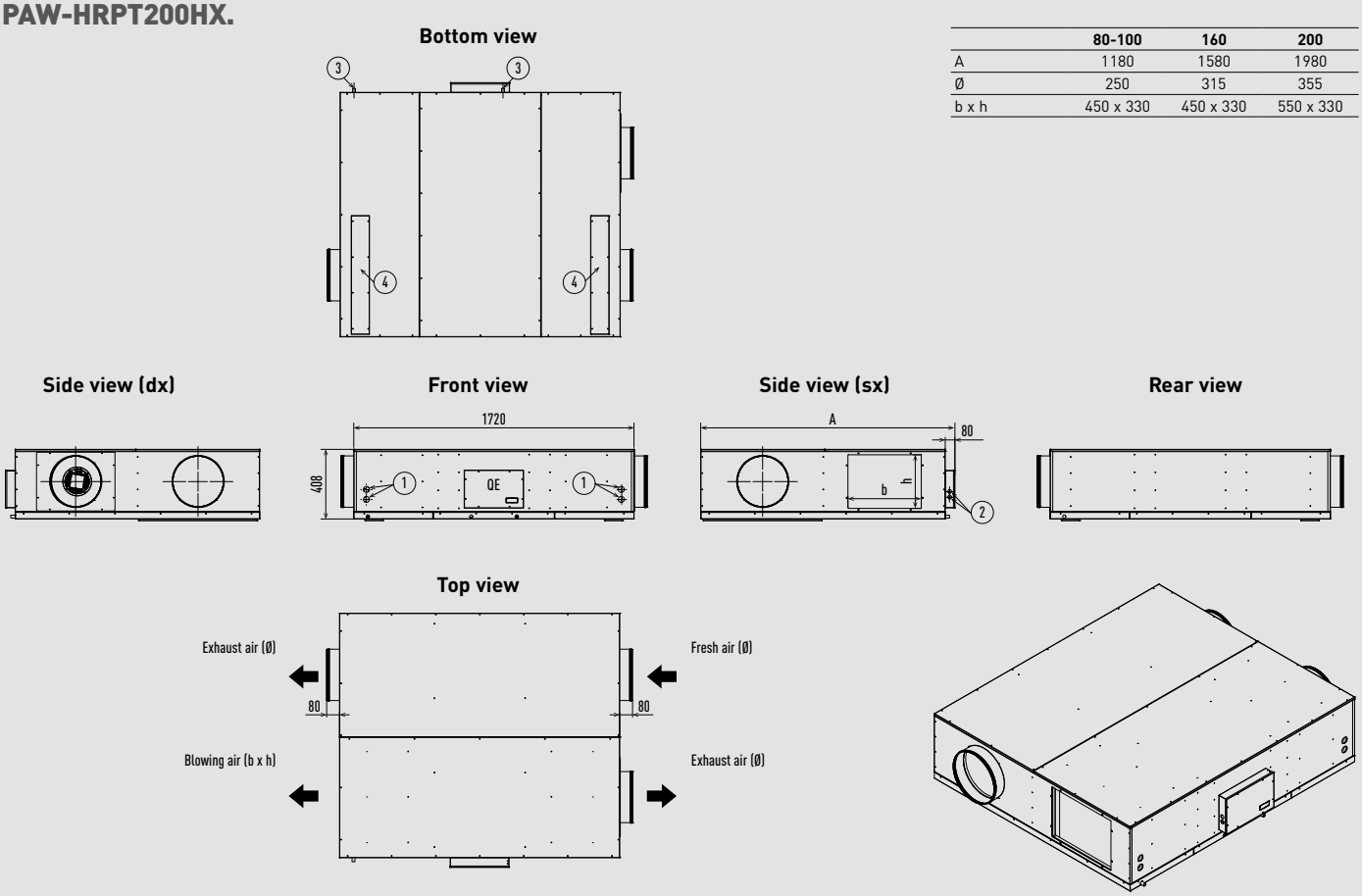
1	Refrigerant connection
2	Power supply
3	Condensate discharge Ø18
4	Filter portal



Unit: mm

ERV with DX coil – HRPT Series – PAW-HRPT80HX / PAW-HRPT120HX / PAW-HRPT160HX / PAW-HRPT200HX.

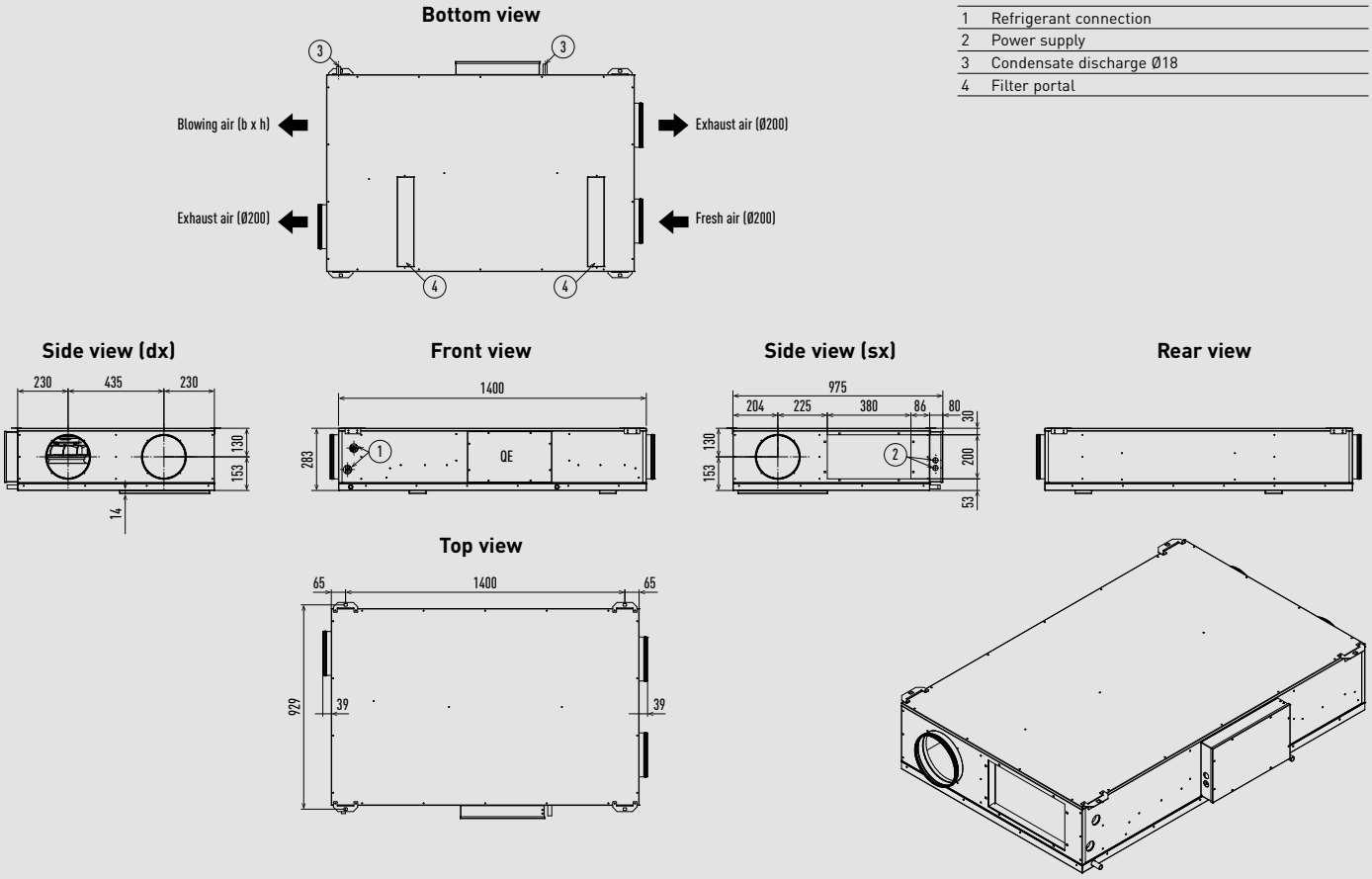
	80-100	160	200
A	1180	1580	1980
Ø	250	315	355
b x h	450 x 330	450 x 330	550 x 330



Unit: mm

ERV with DX coil – HRPT Series – PAW-HRPT40HX.

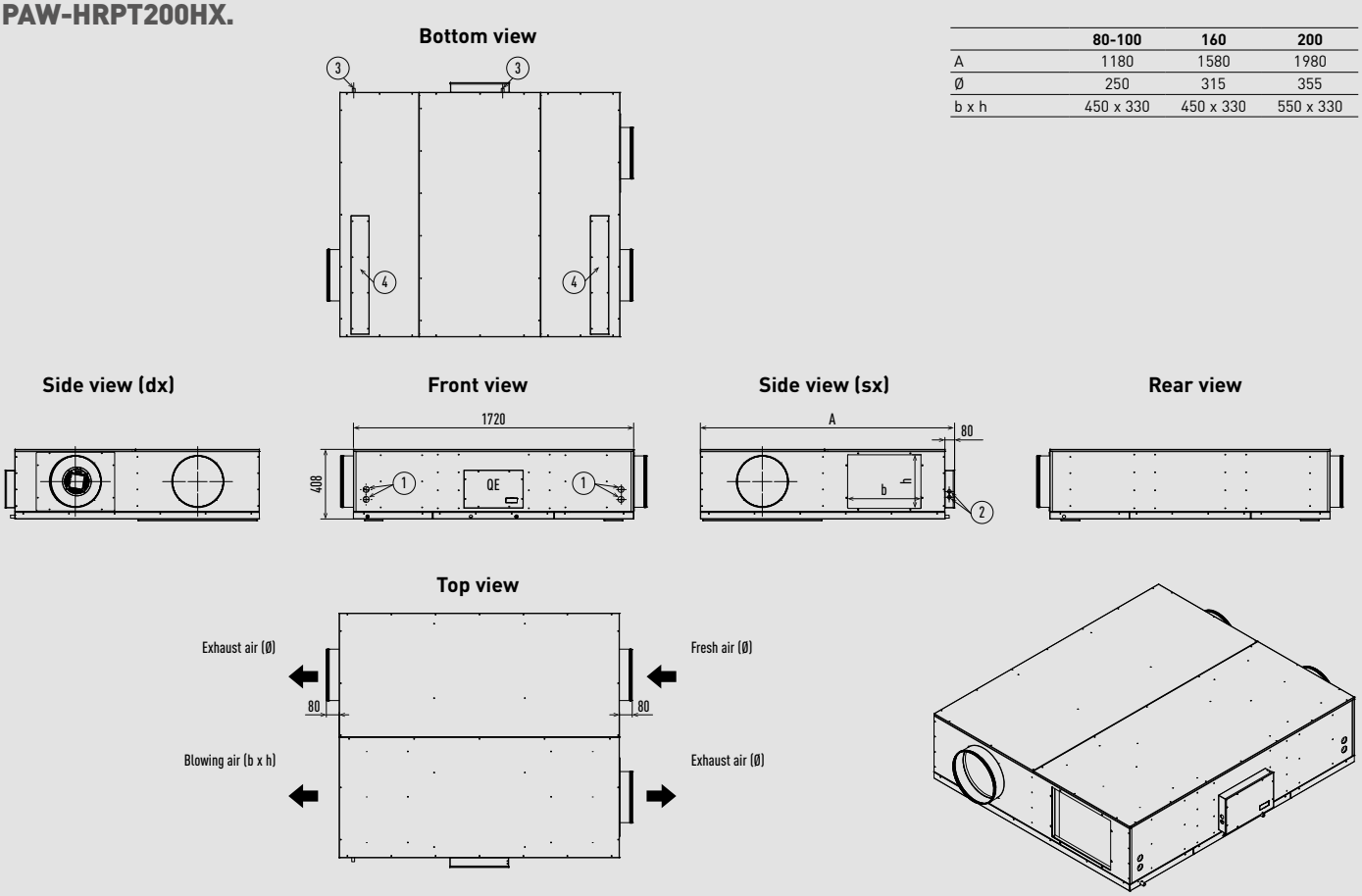
1	Refrigerant connection
2	Power supply
3	Condensate discharge Ø18
4	Filter portal



Unit: mm

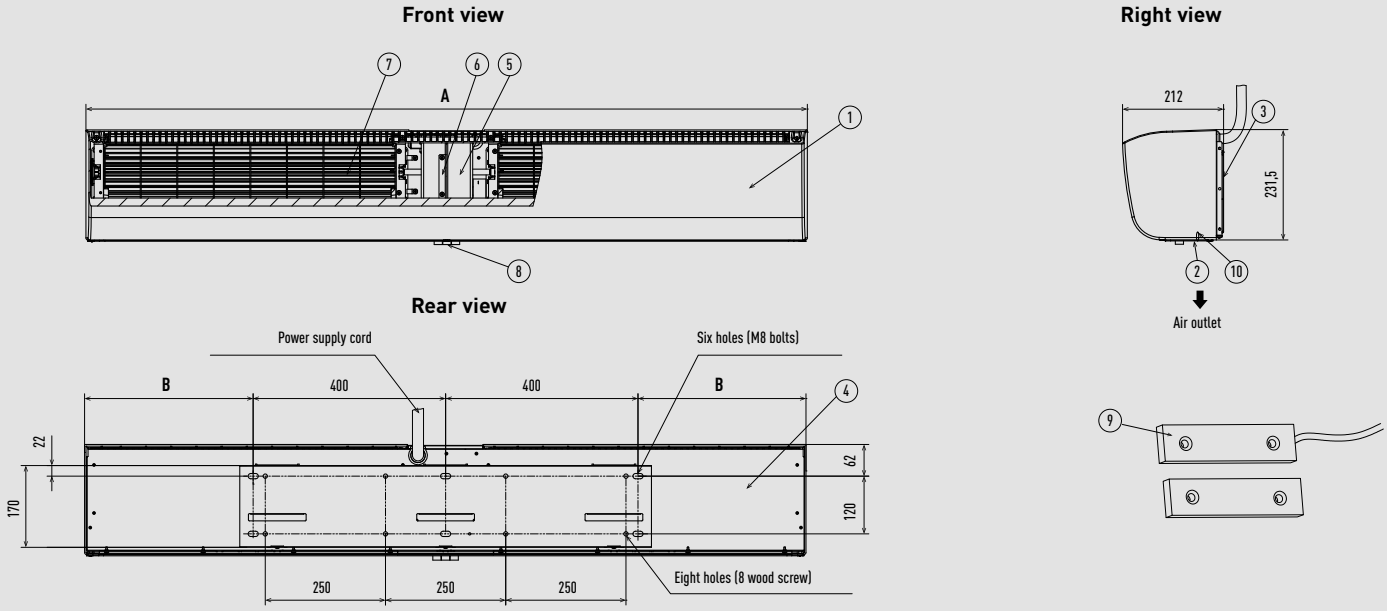
ERV with DX coil – HRPT Series – PAW-HRPT80HX / PAW-HRPT120HX / PAW-HRPT160HX / PAW-HRPT200HX.

	80-100	160	200
A	1180	1580	1980
Ø	250	315	355
b x h	450 x 330	450 x 330	550 x 330



Unit: mm

Electric air curtain.



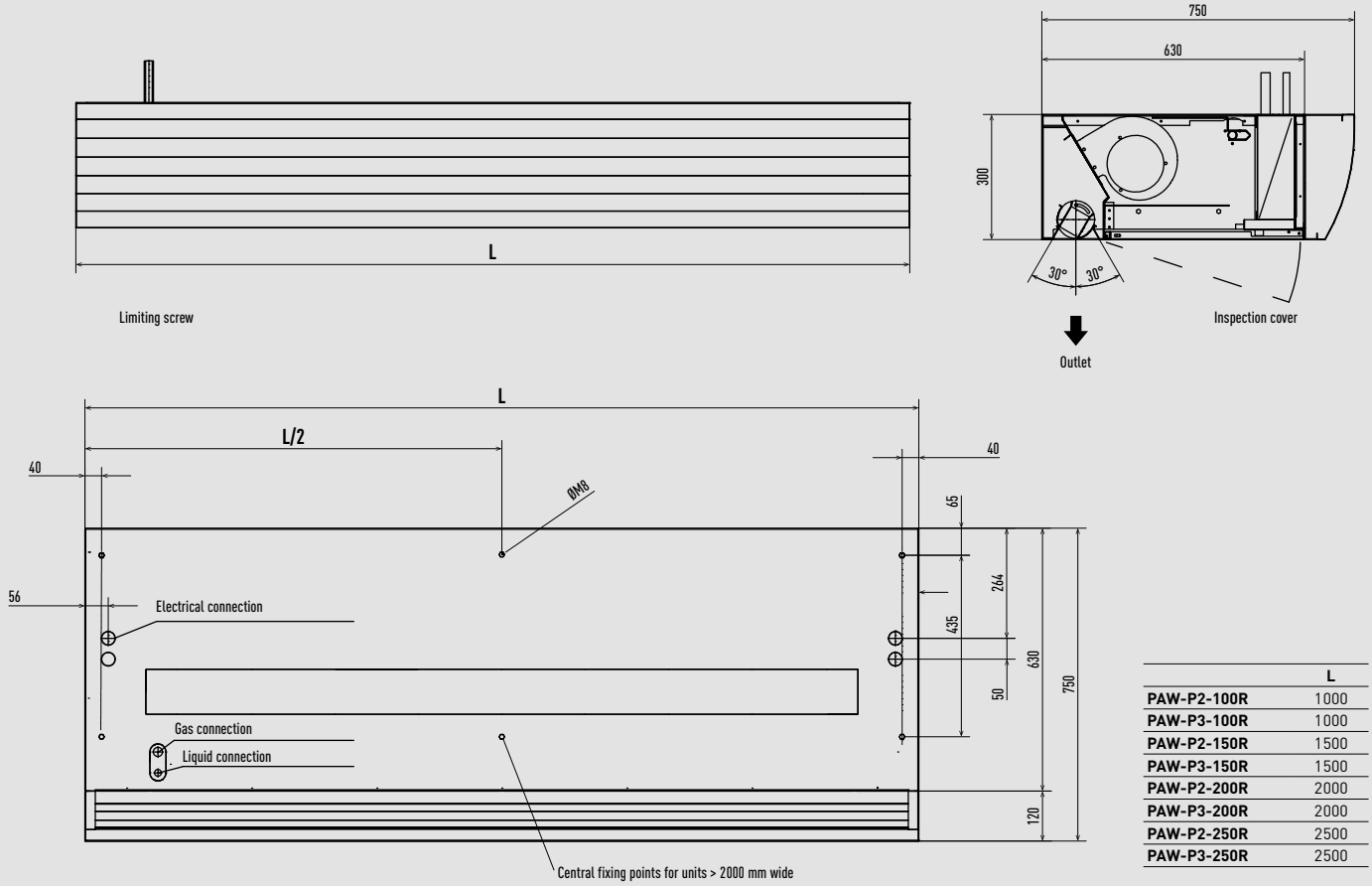
1	Front panel
2	Air outlet
3	Mounting plate
4	Back panel
5	Motor

6	Motor support
7	Cross-flow impeller
8	Push-button switch
9	Gate magnetic switch
10	Guide plate

	FY-3009U1	FY-3012U1	FY-3015U1
A	900	1200	1500
B	50	200	350

Unit: mm

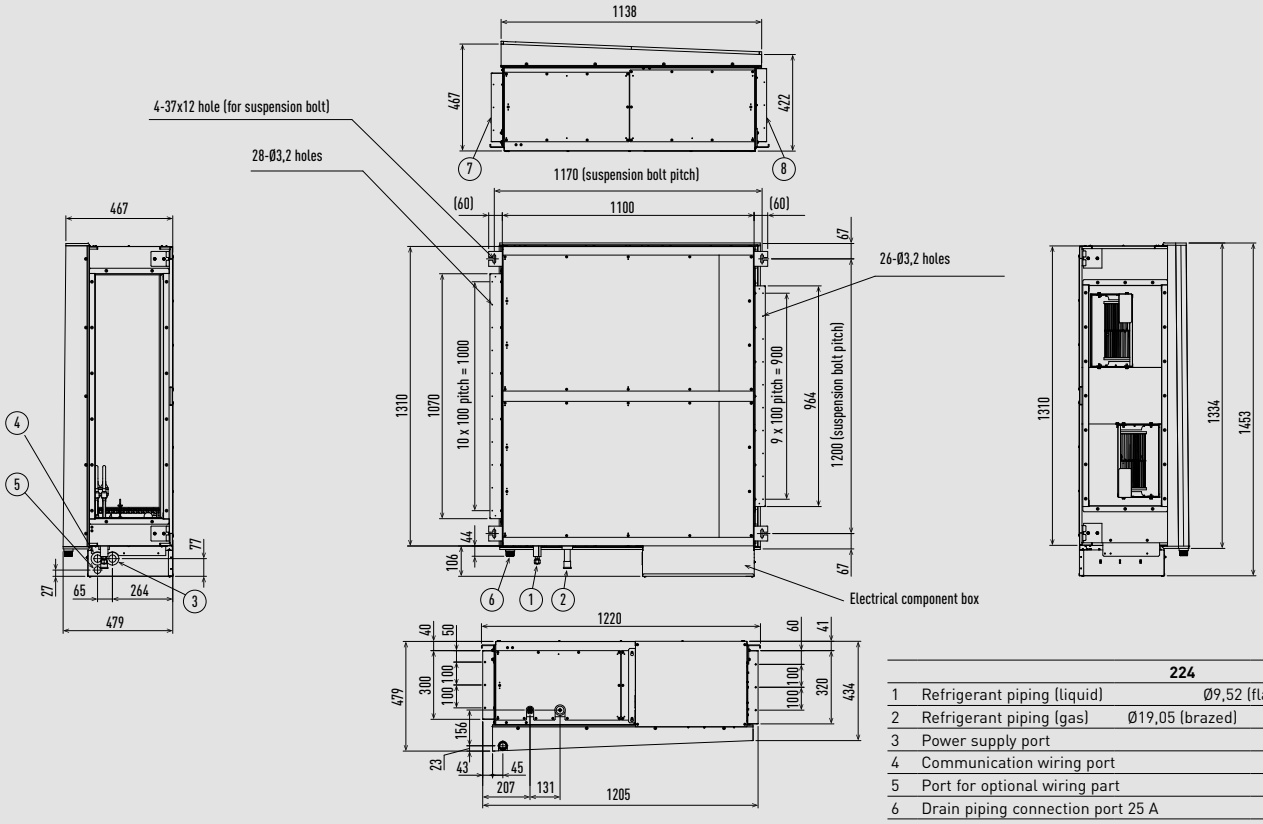
Air curtain with DX coil.



	L
PAW-P2-100R	1000
PAW-P3-100R	1000
PAW-P2-150R	1500
PAW-P3-150R	1500
PAW-P2-200R	2000
PAW-P3-200R	2000
PAW-P2-250R	2500
PAW-P3-250R	2500

Unit: mm

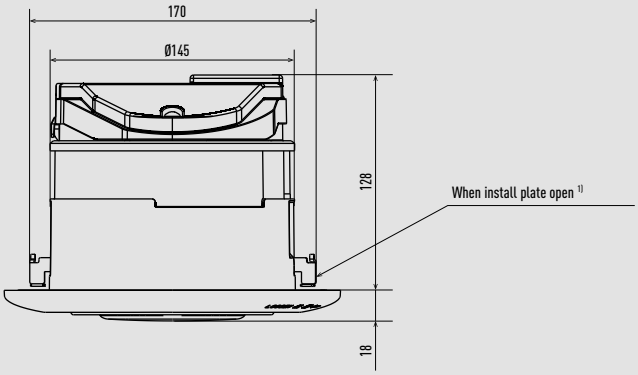
E2 type high static pressure hide-away.



		224	280
1	Refrigerant piping (liquid)	Ø9,52 (flared)	
2	Refrigerant piping (gas)	Ø19,05 (brazed)	Ø22,22 (brazed)
3	Power supply port		
4	Communication wiring port		
5	Port for optional wiring part		
6	Drain piping connection port 25 A		
7	Flange for air inlet duct		
8	Flange for the air outlet duct		

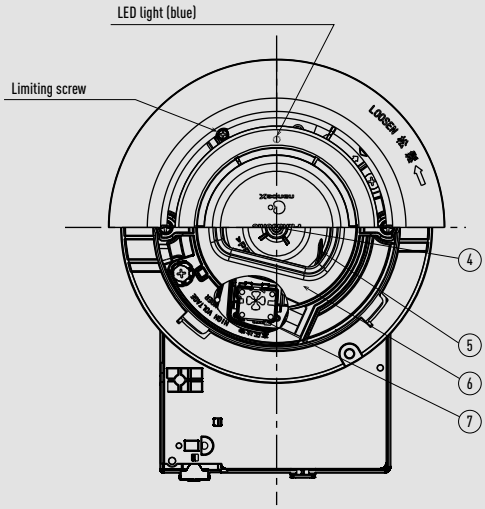
Unit: mm

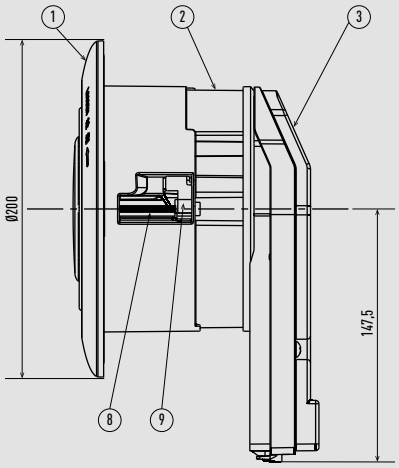
Ceiling mounted air-e nanoe X Generator.



		Quantity
1	Louvre	1
2	Frame	1
3	Electric case assy	1
4	Motor	1
5	Fan	1
6	Orifice assy	1
7	nanoe™ X unit	1
8	Install screw	2
9	Install plate	2

1) Initial position of install plate is closed.

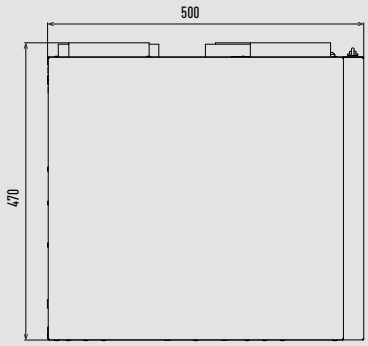




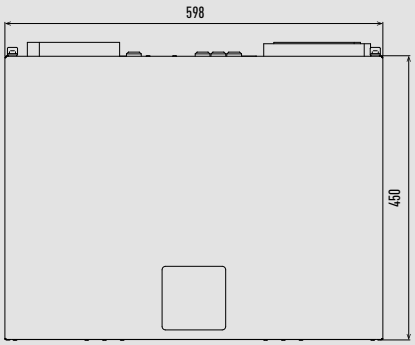
Unit: mm

Heat recovery ventilation unit.

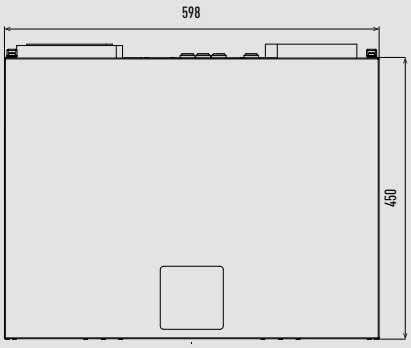
Side view

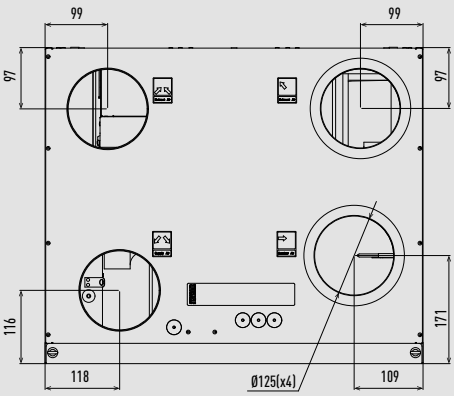


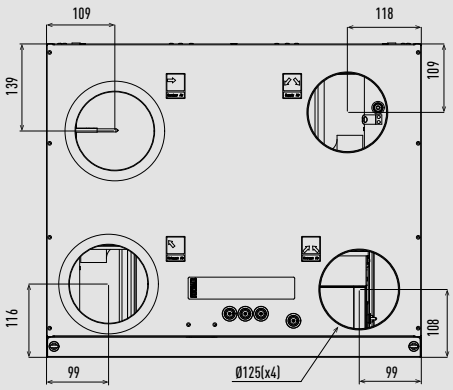
PAW-A2W-VENTA-L



PAW-A2W-VENTA-R

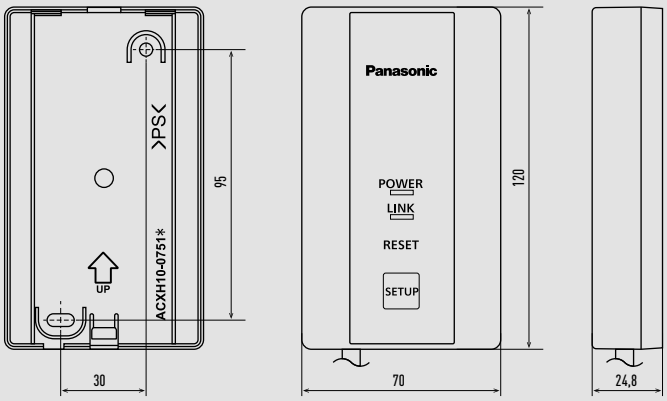




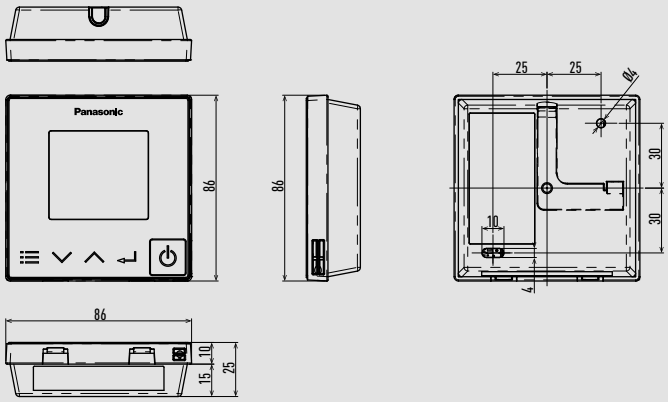


Unit: mm

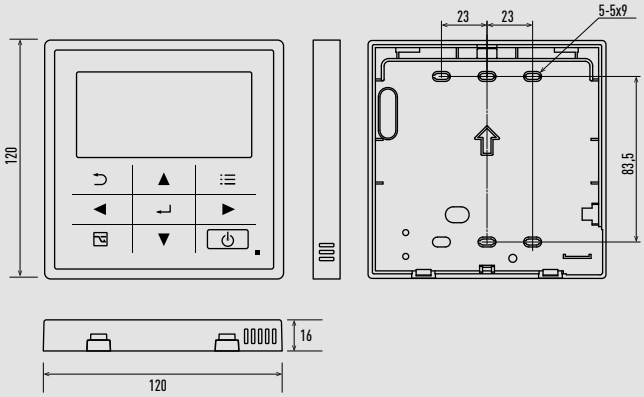
CZ-CAPWFC2 Commercial Wi-Fi Adaptor.



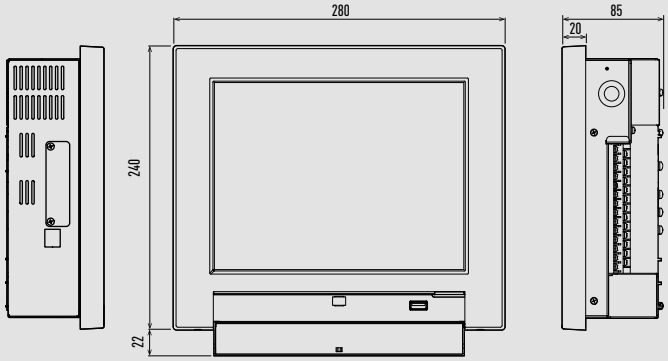
CZ-RTC6W/WBL/WBLW2 and CZ-RTC6/BL/BLW2 CONEX wired remote controller.



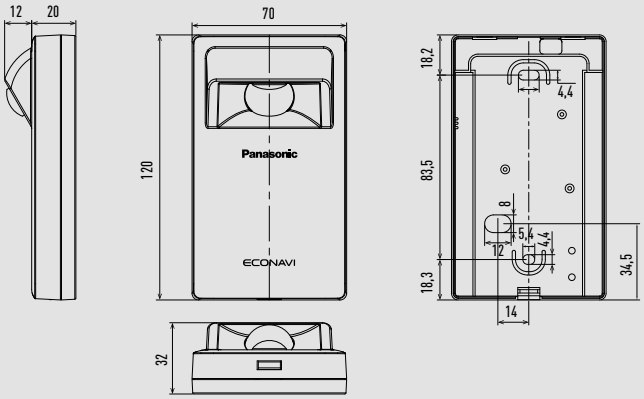
CZ-RTC5B design wired remote controller.



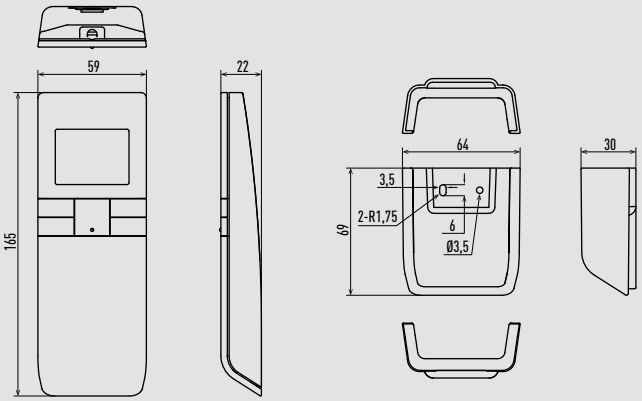
CZ-256ESMC3 intelligent controller (touch screen/web server).



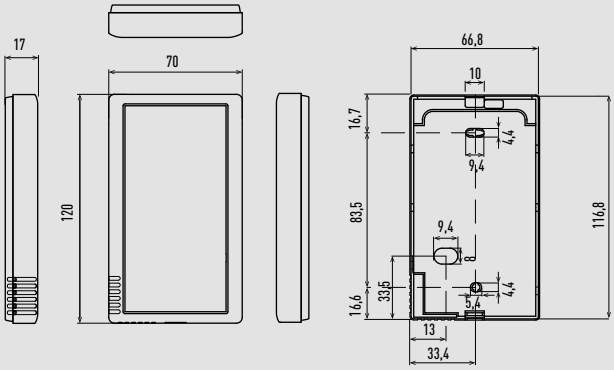
CZ-CENSC1 Econavi sensor.



CZ-RWS3 infrared remote controller.

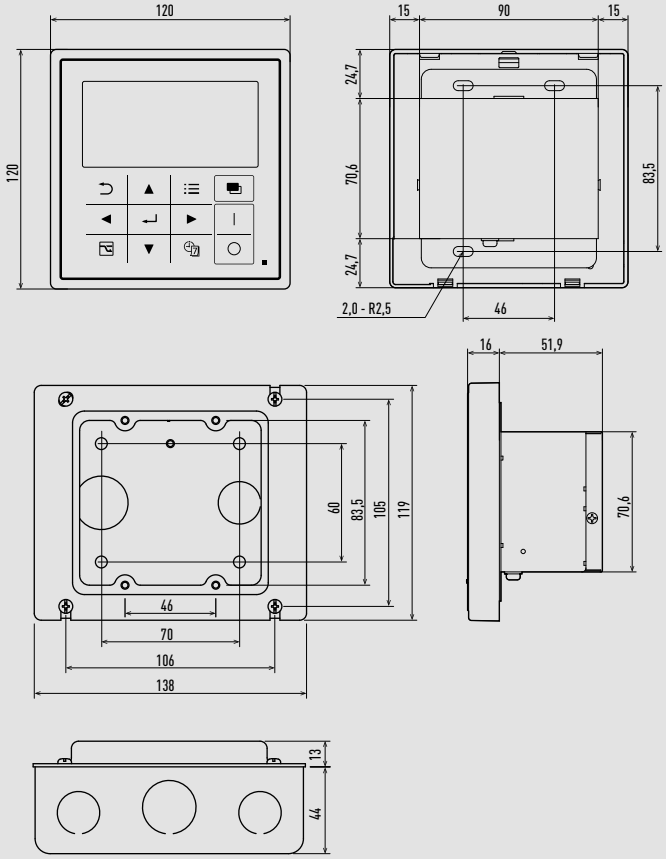


CZ-CSRC3 remote sensor.

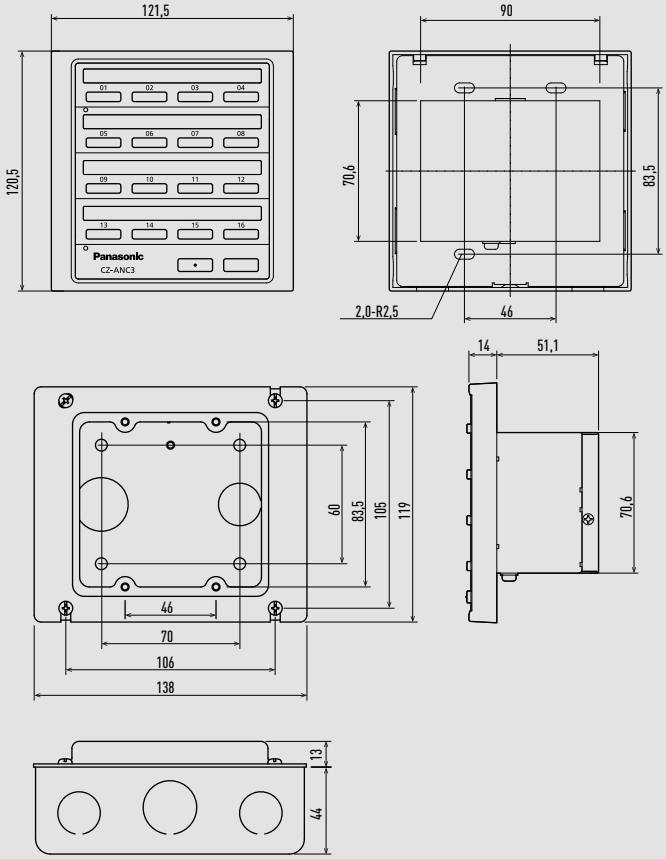


Unit: mm

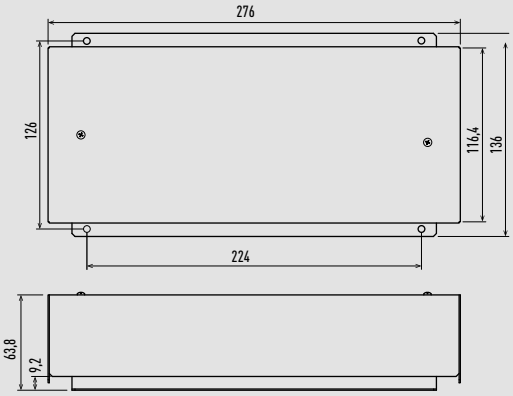
CZ-64ESMC3 system controller with weekly timer.



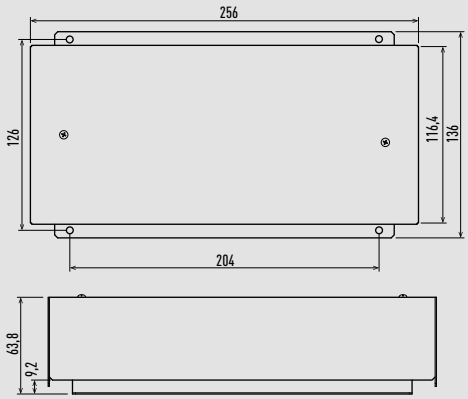
CZ-ANC3 central ON / OFF controller.



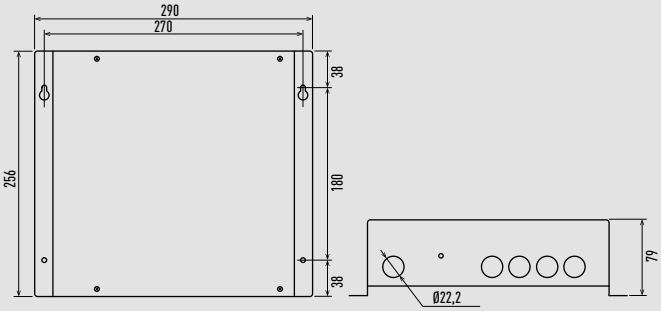
CZ-CAPC3 local adaptor for ON / OFF control.



CZ-CAPBC2 Mini Seri-Para I/O Unit 0 -10 V.

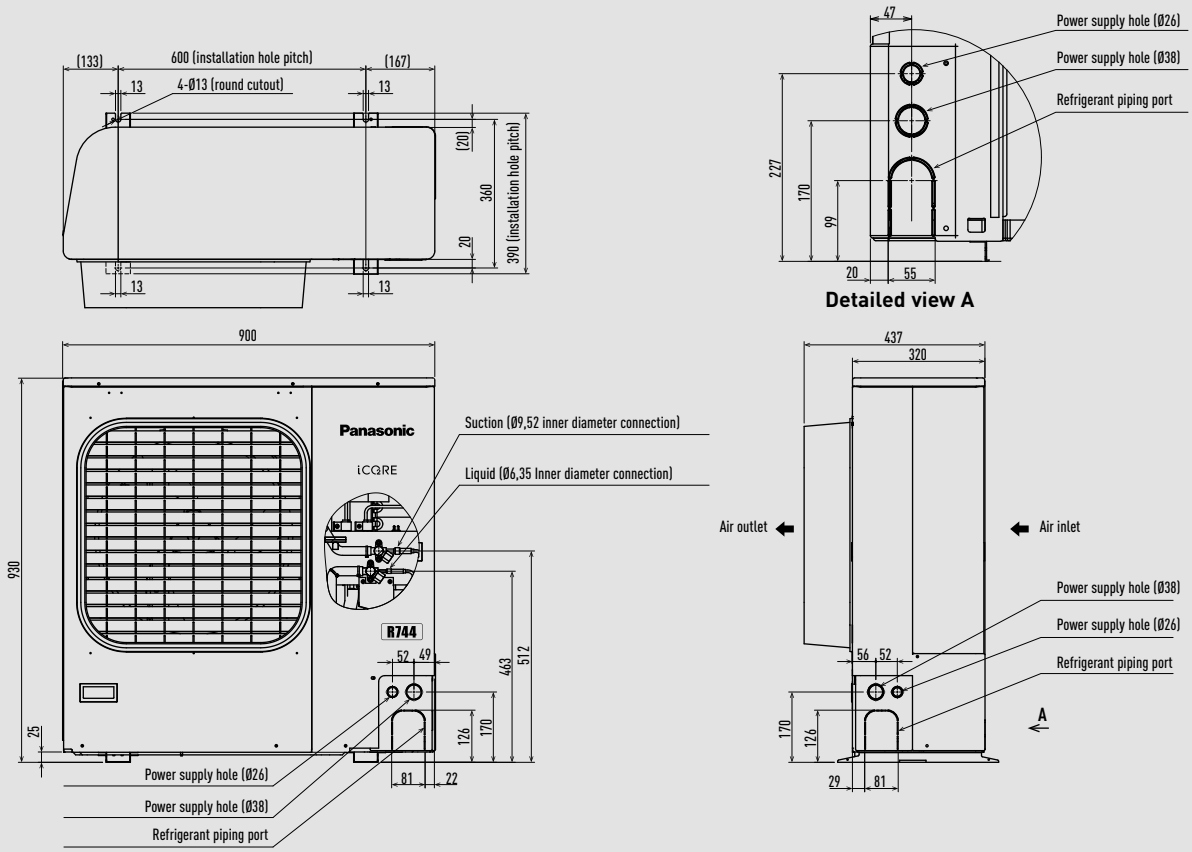


CZ-CFUNC2 communication adaptor.



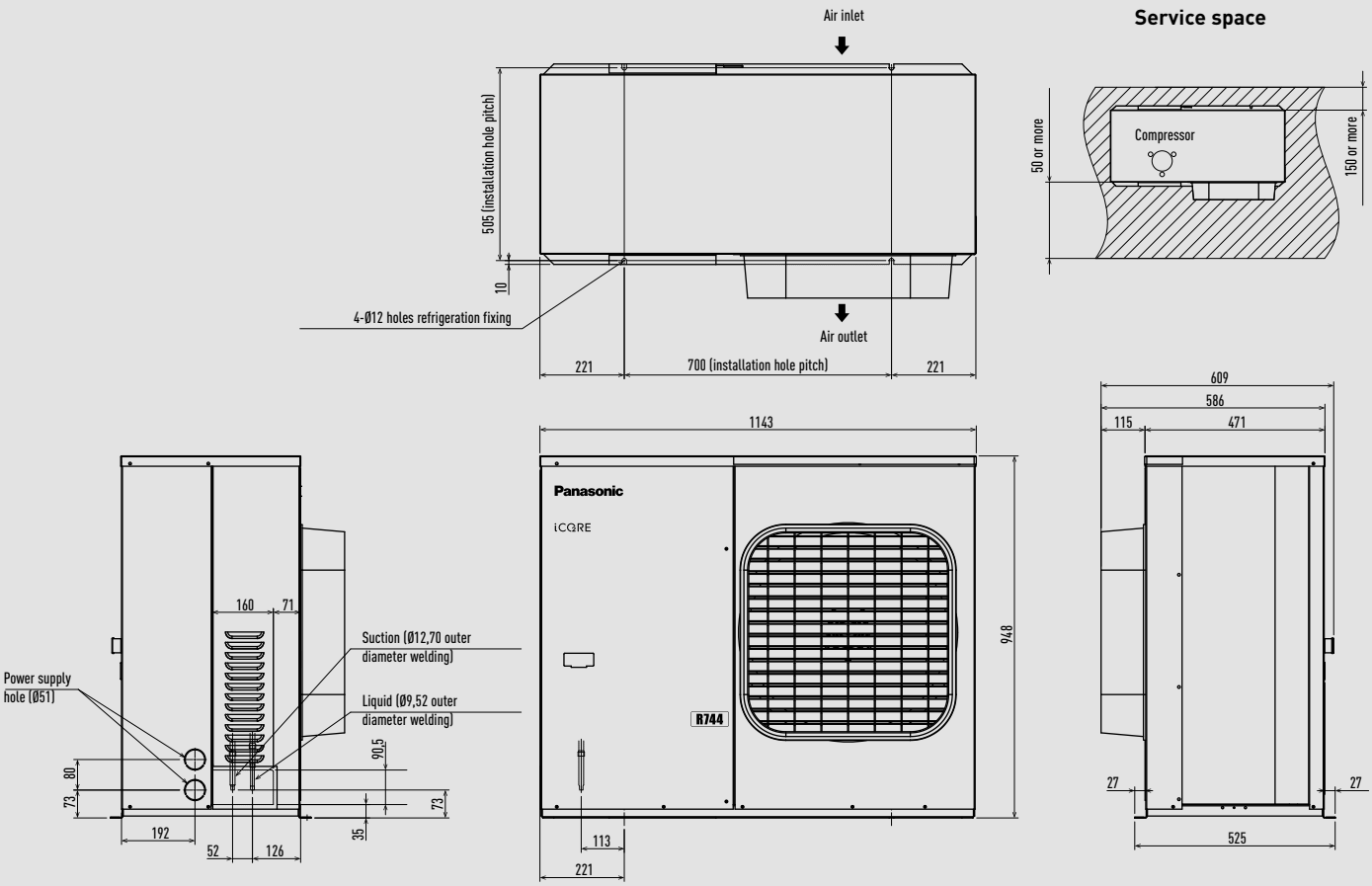
Unit: mm

iCO2RE OCU-CR CO_2 Series – OCU-CR200VF5A.



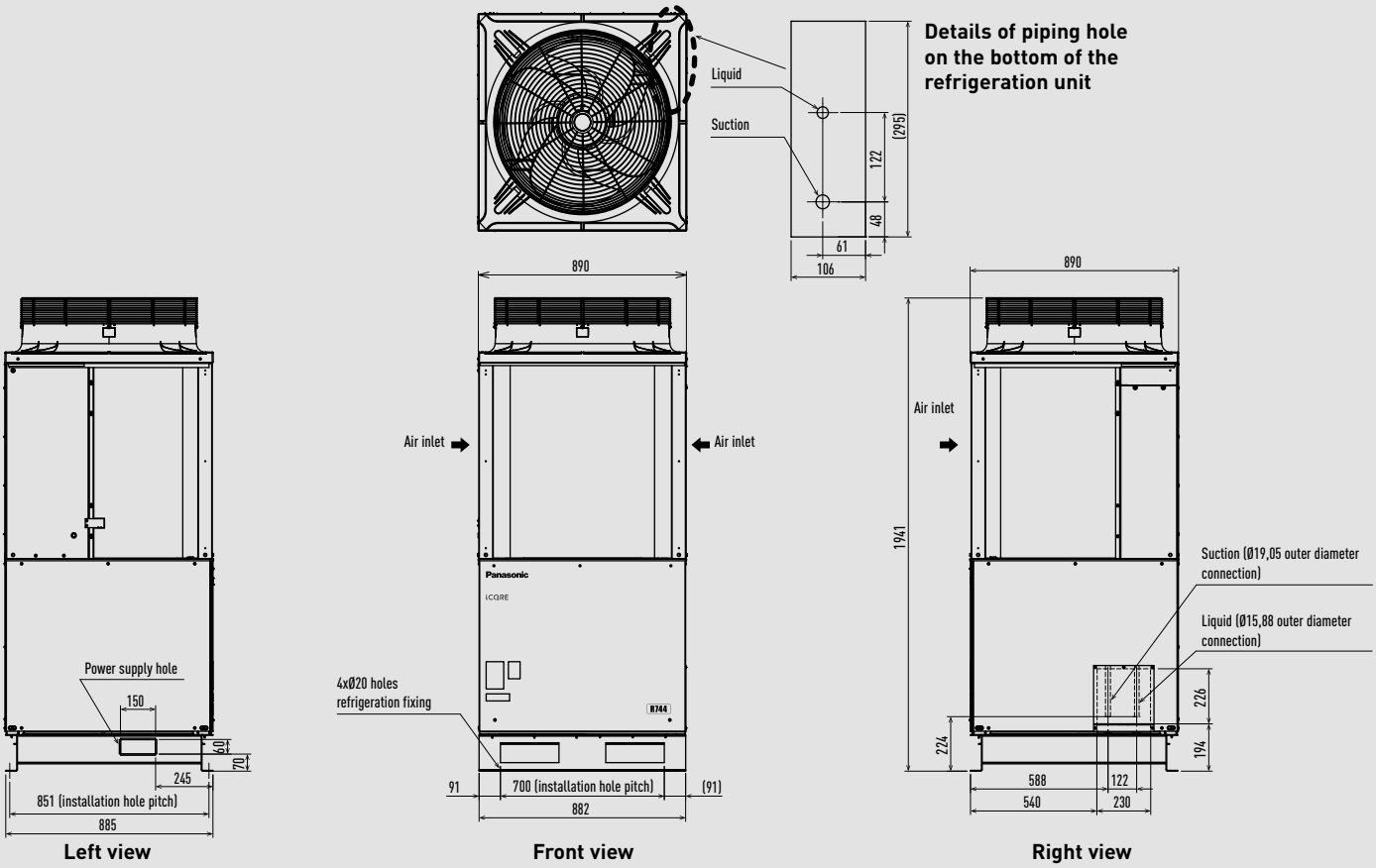
Unit: mm

iCO2RE OCU-CR CO_2 Series – OCU-CR400VF8 / OCU-CR400VF8A.



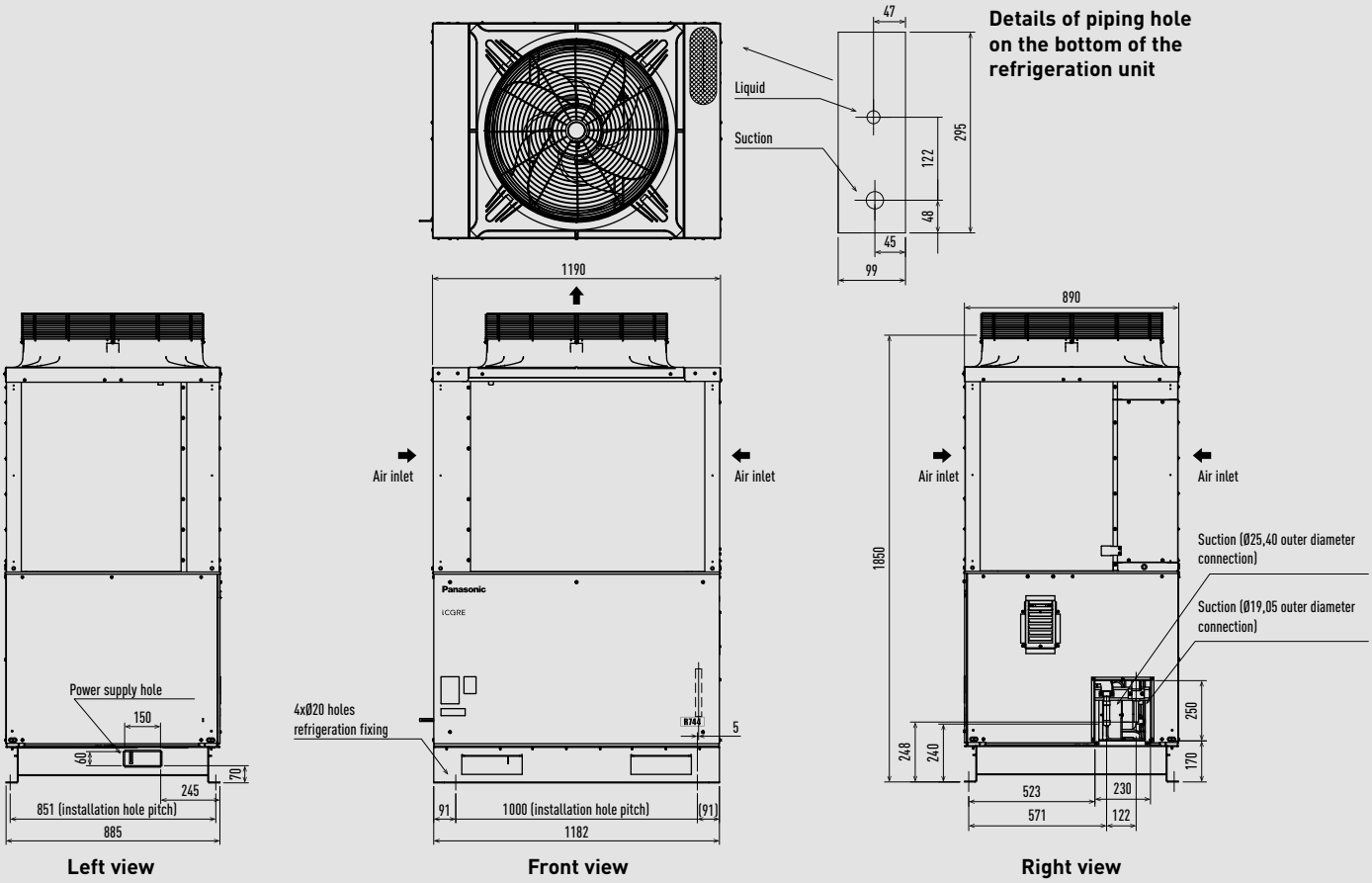
Unit: mm

iCO2RE OCU-CR CO_2 Series – OCU-CR1000VF8 / OCU-CR1000VF8A.



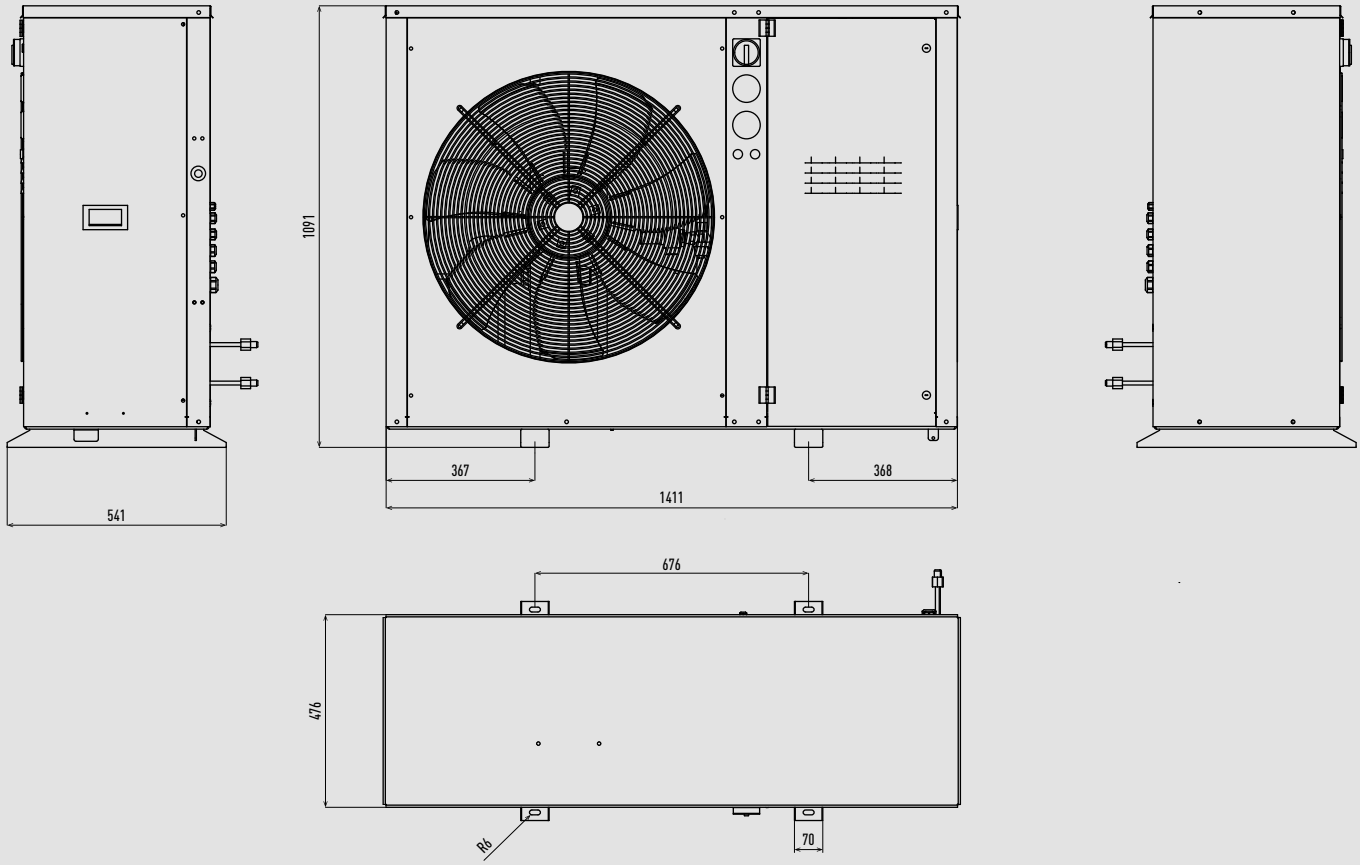
Unit: mm

iCO2RE OCU-CR CO_2 Series – OCU-CR2000VF8A.



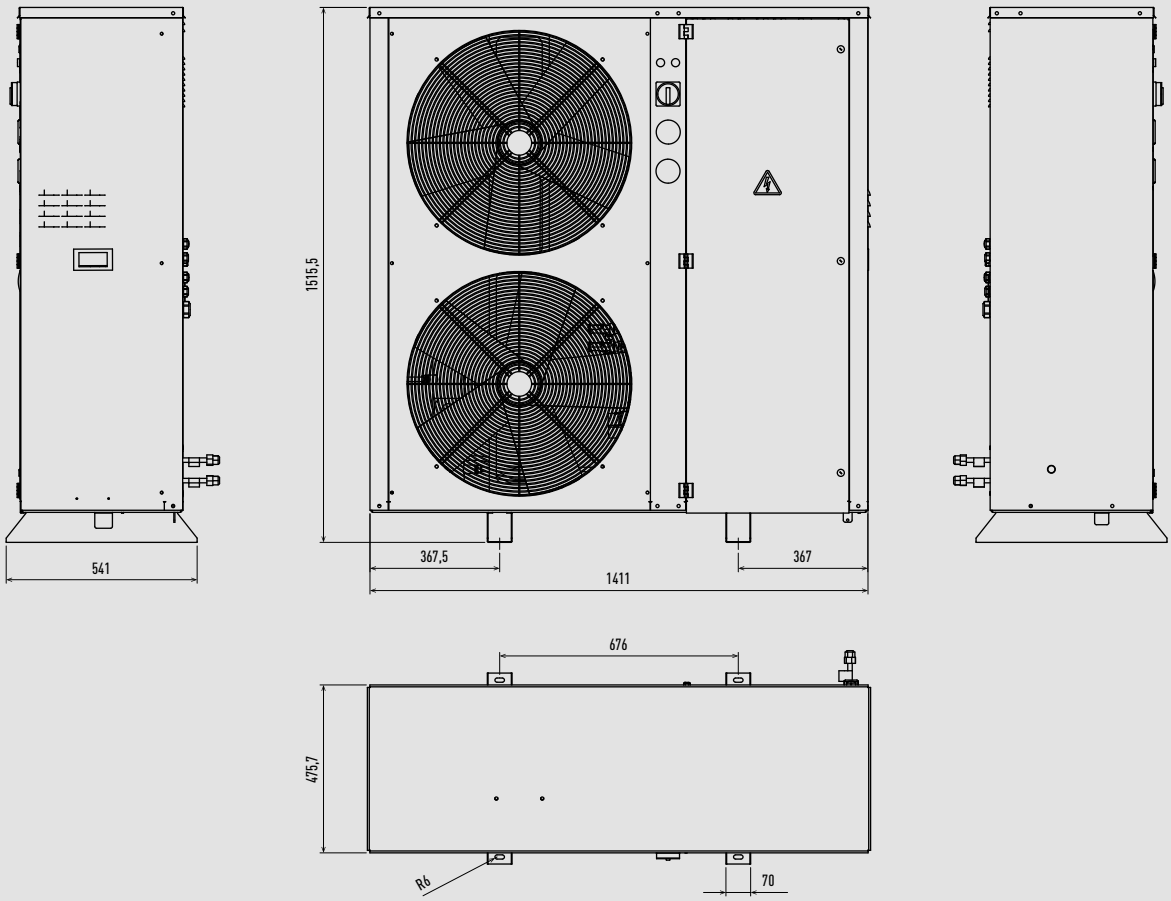
Unit: mm

iCO2RE OCU-CRC Custom-fit CO_2 Series – OCU-CRC060A08.



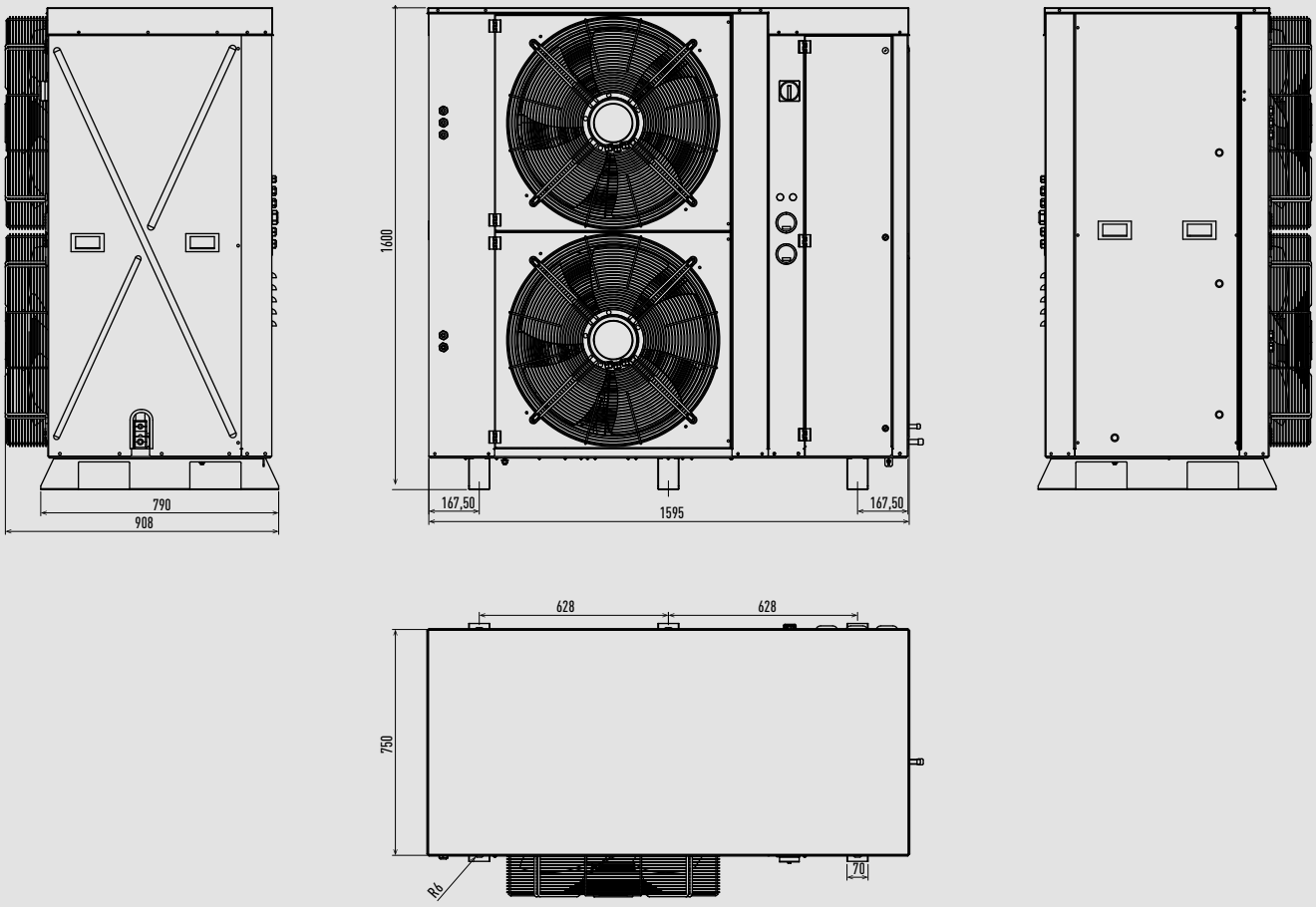
Unit: mm

iCO2RE OCU-CRC Custom-fit CO_2 Series – OCU-CRC150A08.



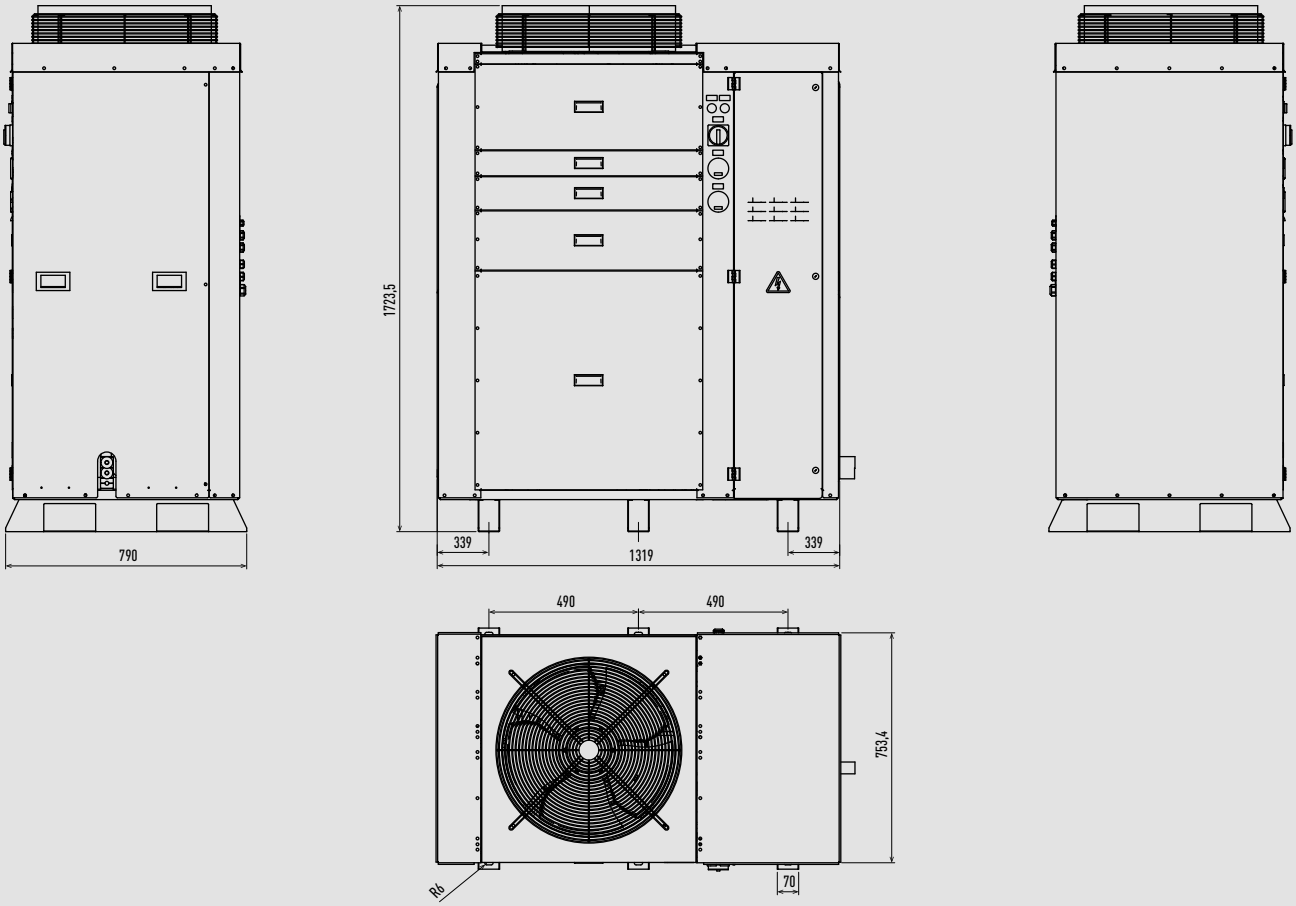
Unit: mm

iCO2RE OCU-CRC Custom-fit CO_2 Series – OCU-CRC210M08.



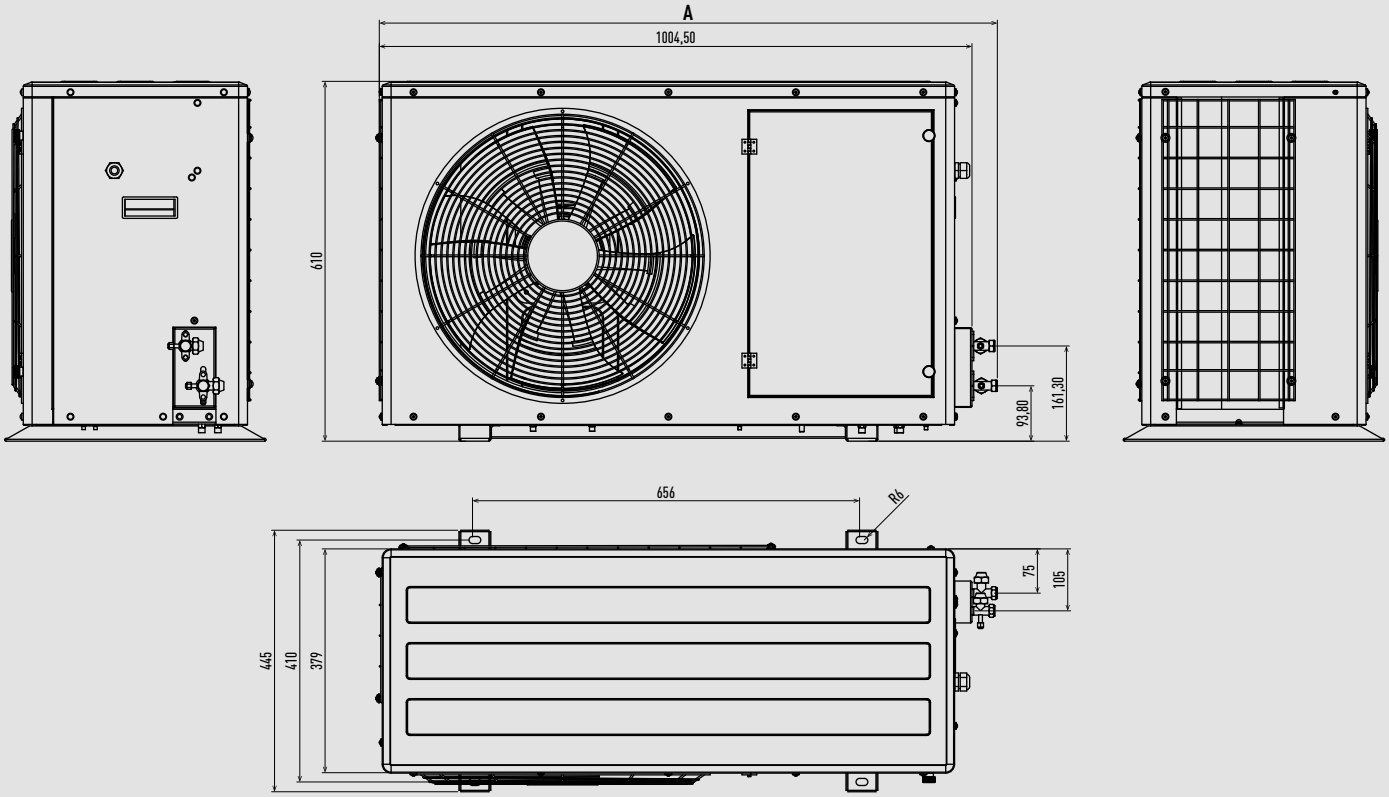
Unit: mm

iCO2RE SCU-CRC Custom-fit CO_2 Series – SCU-CRC150A08.



Unit: mm

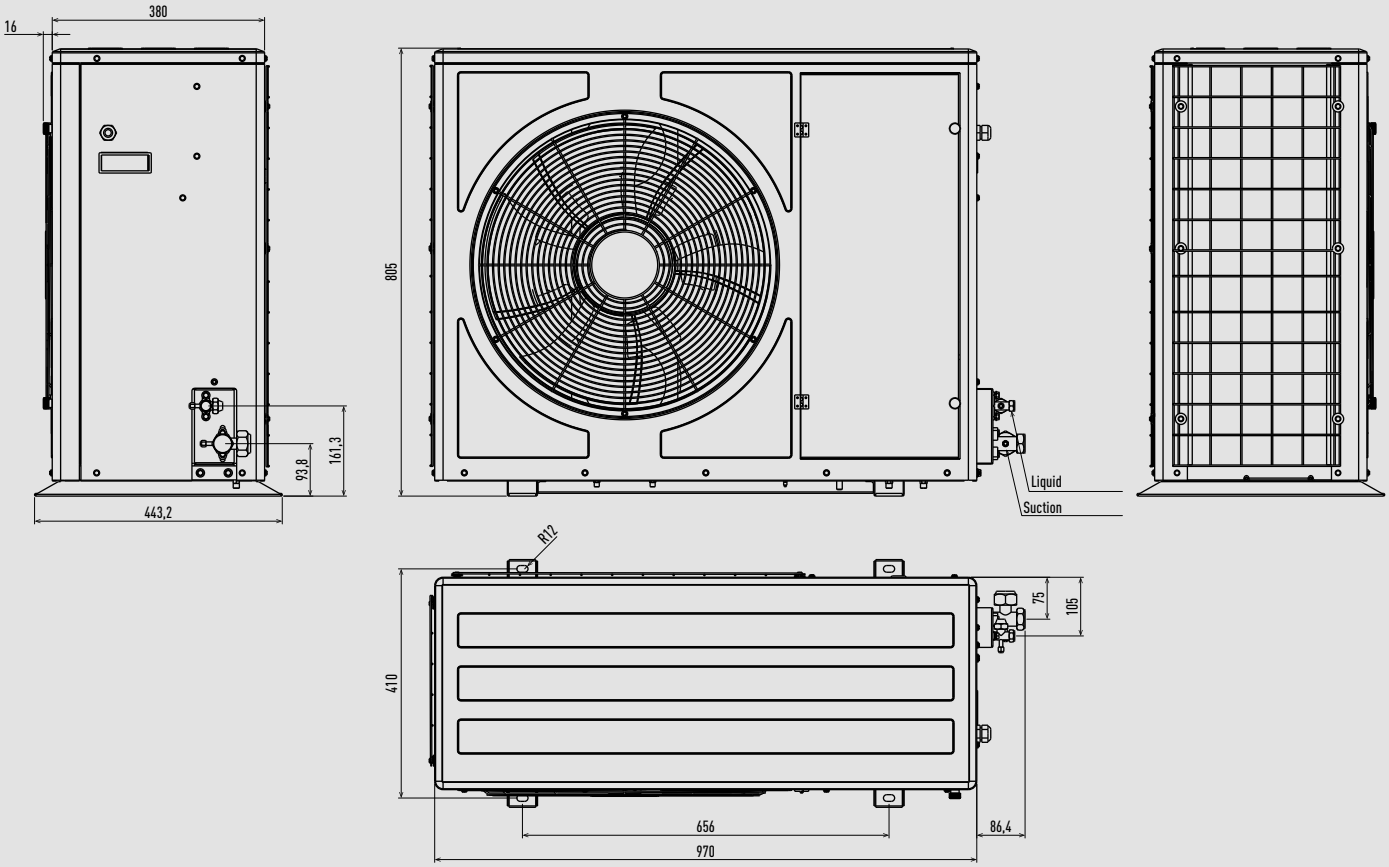
iCOOL SE Series – OCU-KRE025M05 / OCU-KRE045M05.



	OCU-KRE025M05	OCU-KRE045M05
A	1047,50	1050,50

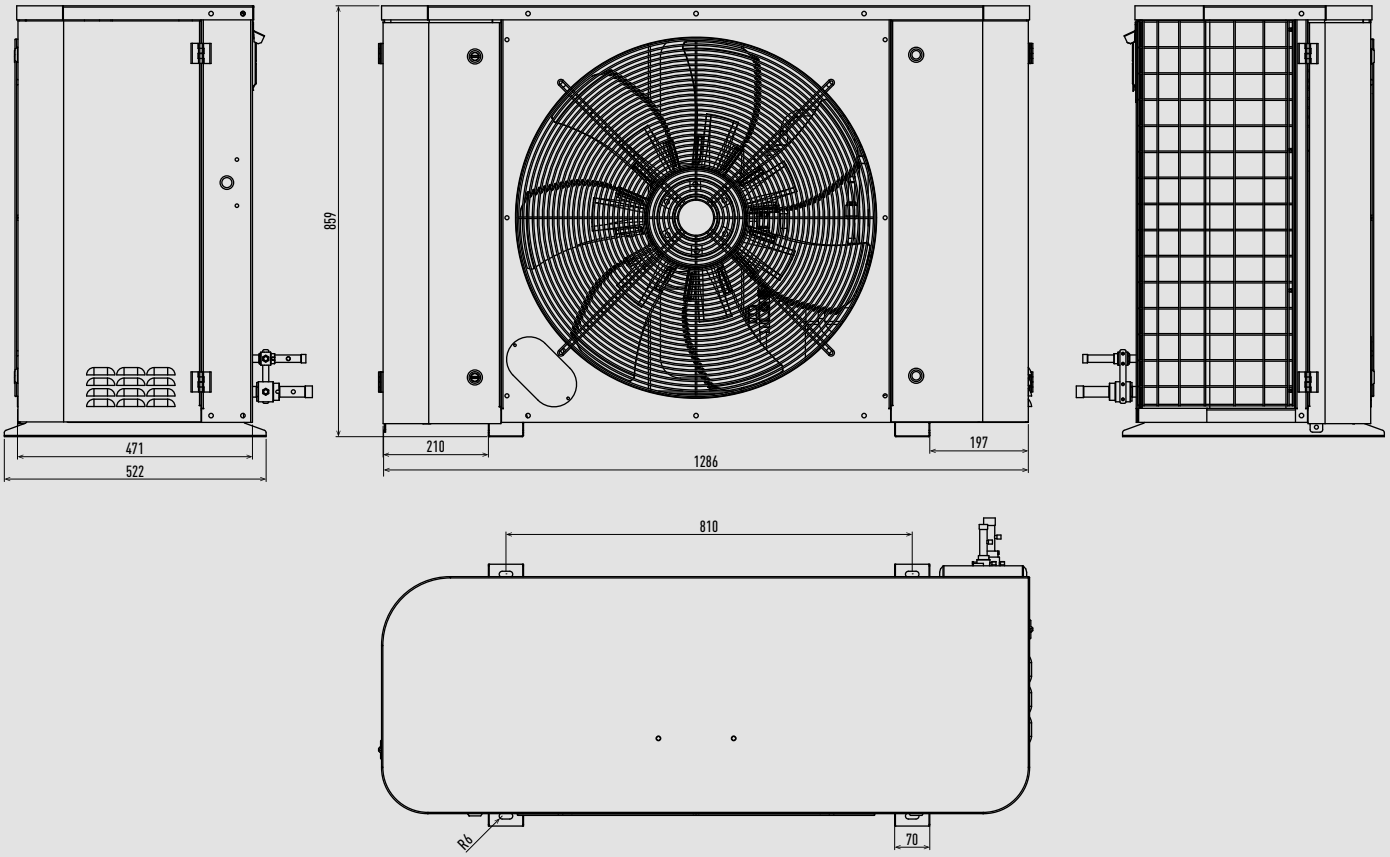
Unit: mm

iCOOL SE Series – OCU-KRE070M05.



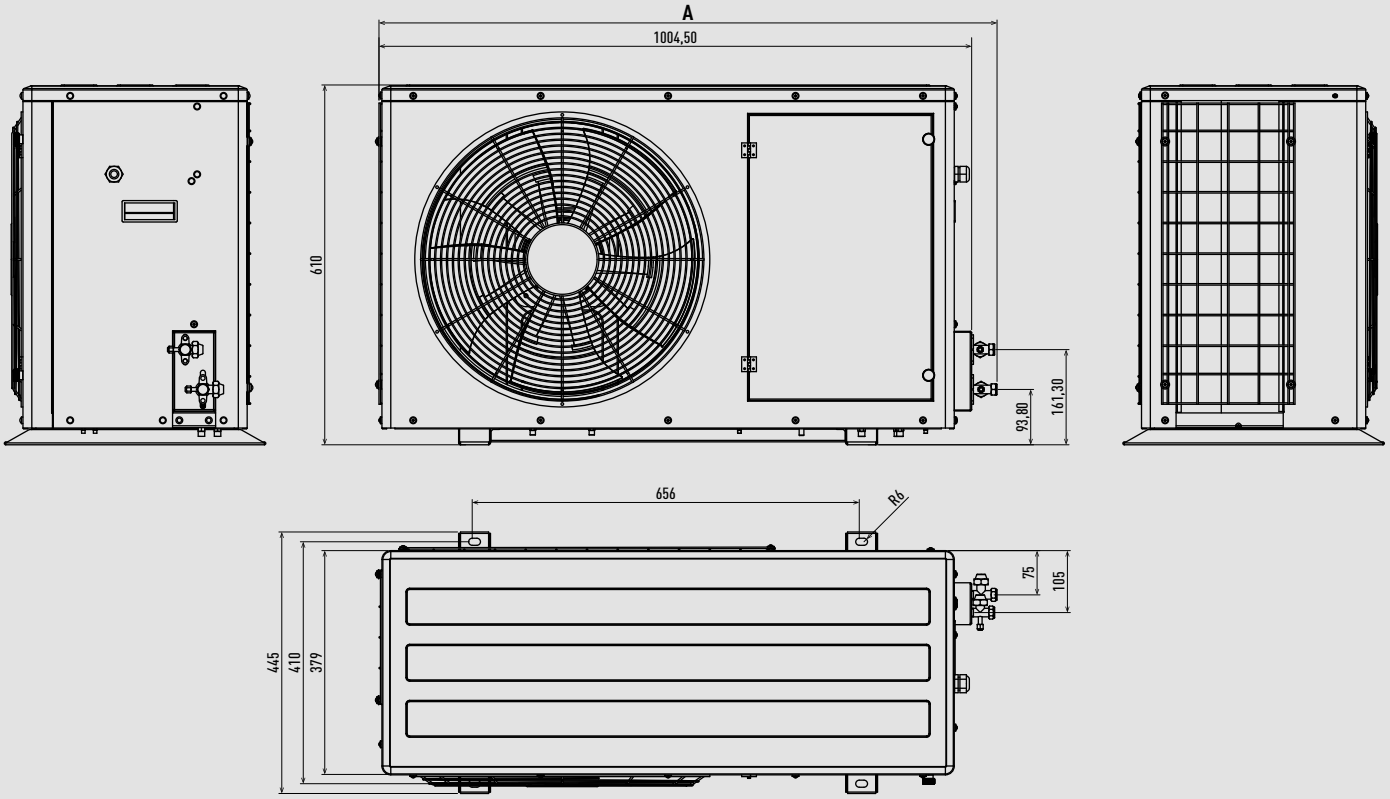
Unit: mm

iCOOL SE Series – OCU-LRC100M08.



Unit: mm

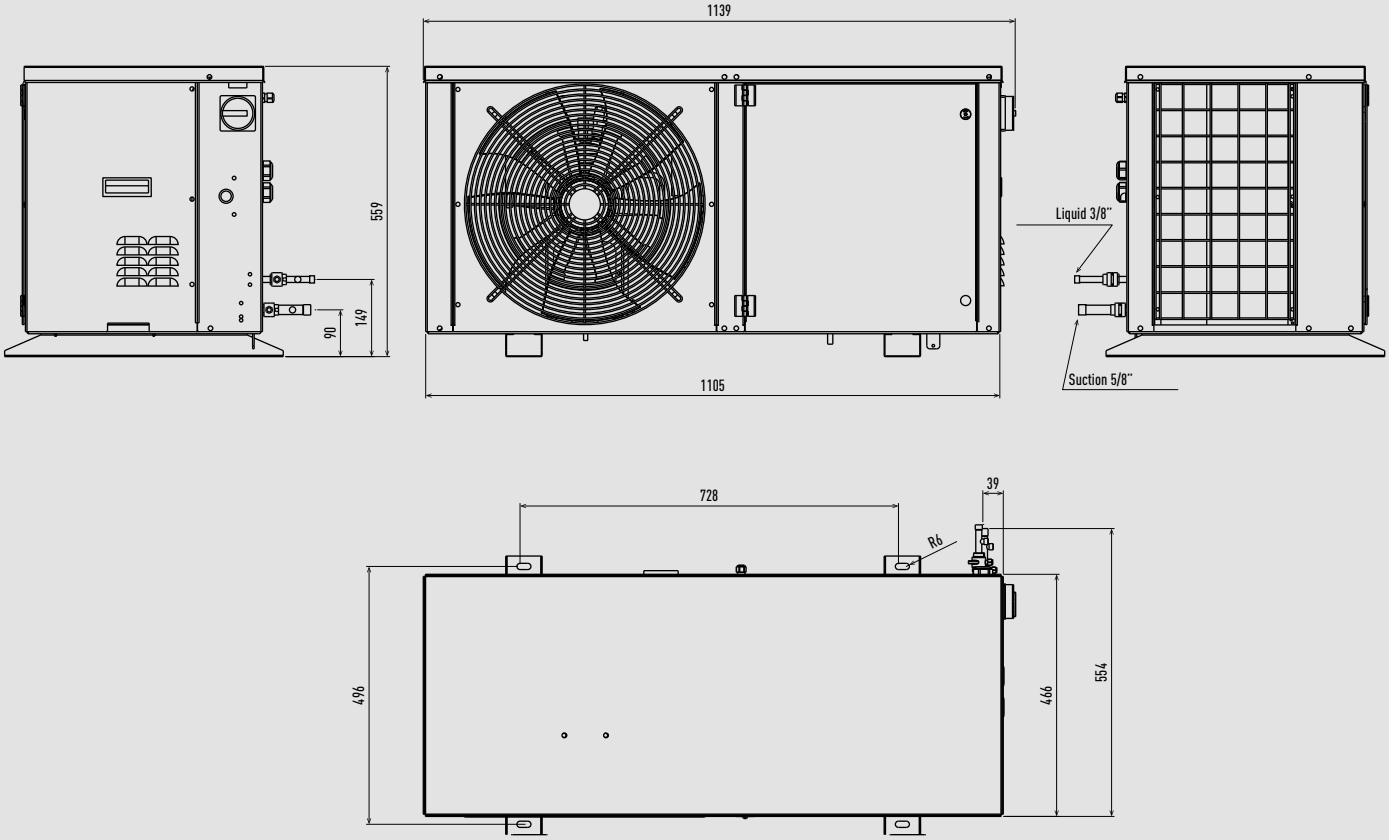
iCOOL SE Series – OCU-KRE012L05 / OCU-KRE022L05 / OCU-KRE030L05.



	OCU-KRE012L05	OCU-KRE022L05	OCU-KRE030L05
A	1047,50	1050,50	1062

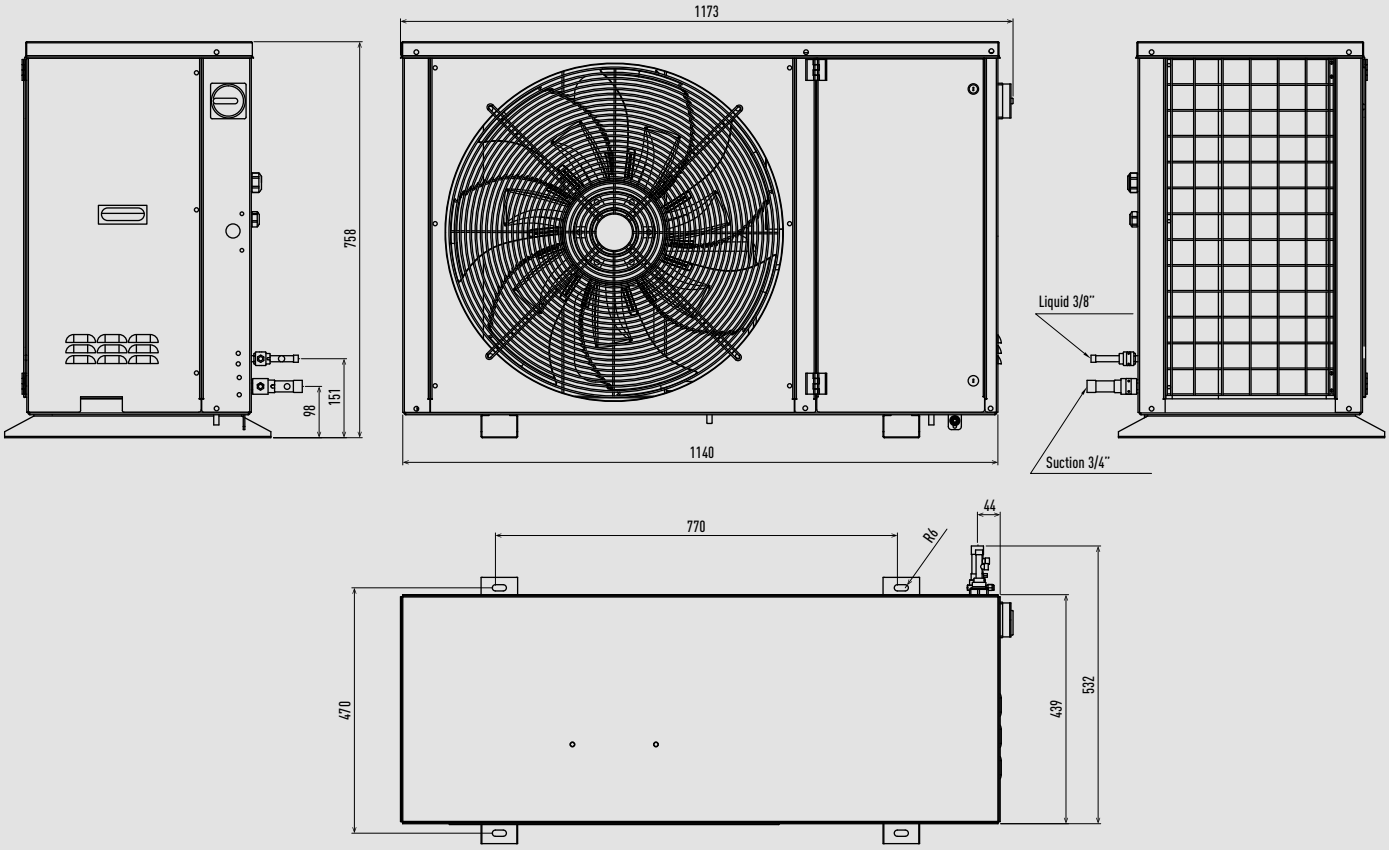
Unit: mm

iCOOL OCU Series – OCU-KRC045M08.



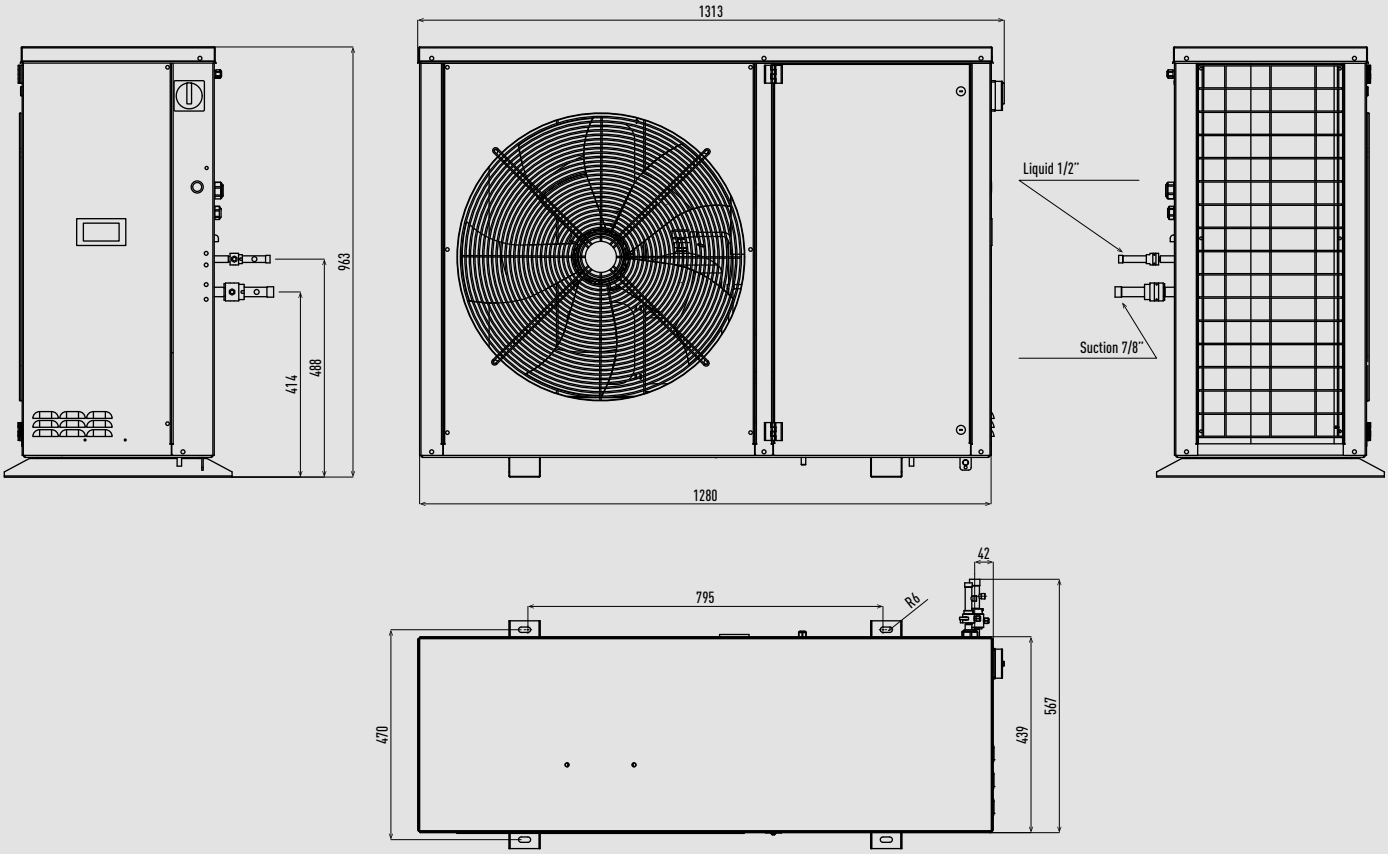
Unit: mm

iCOOL OCU Series – OCU-KRC070M08.



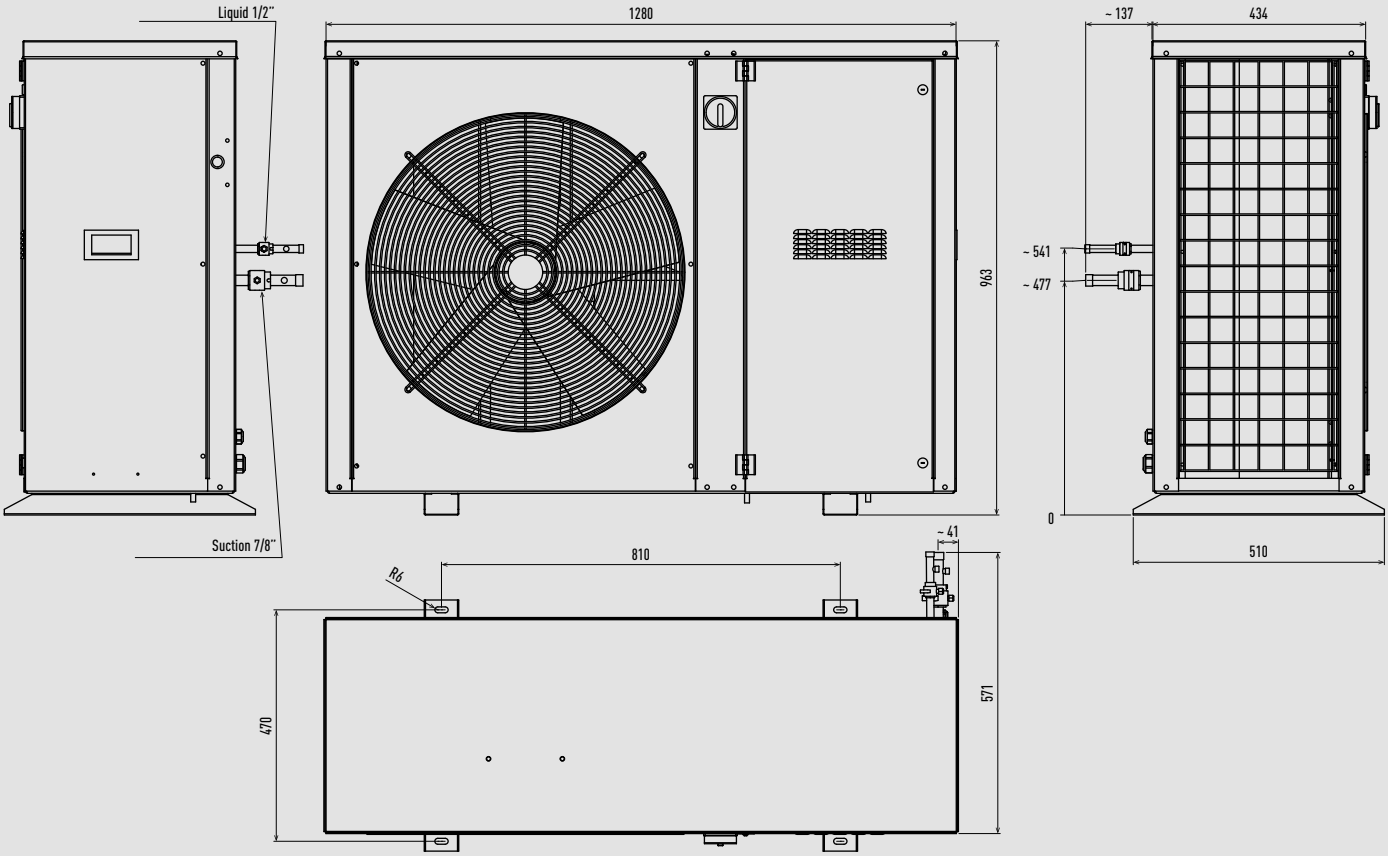
Unit: mm

iCOOL OCU Series – OCU-KRC100M08.



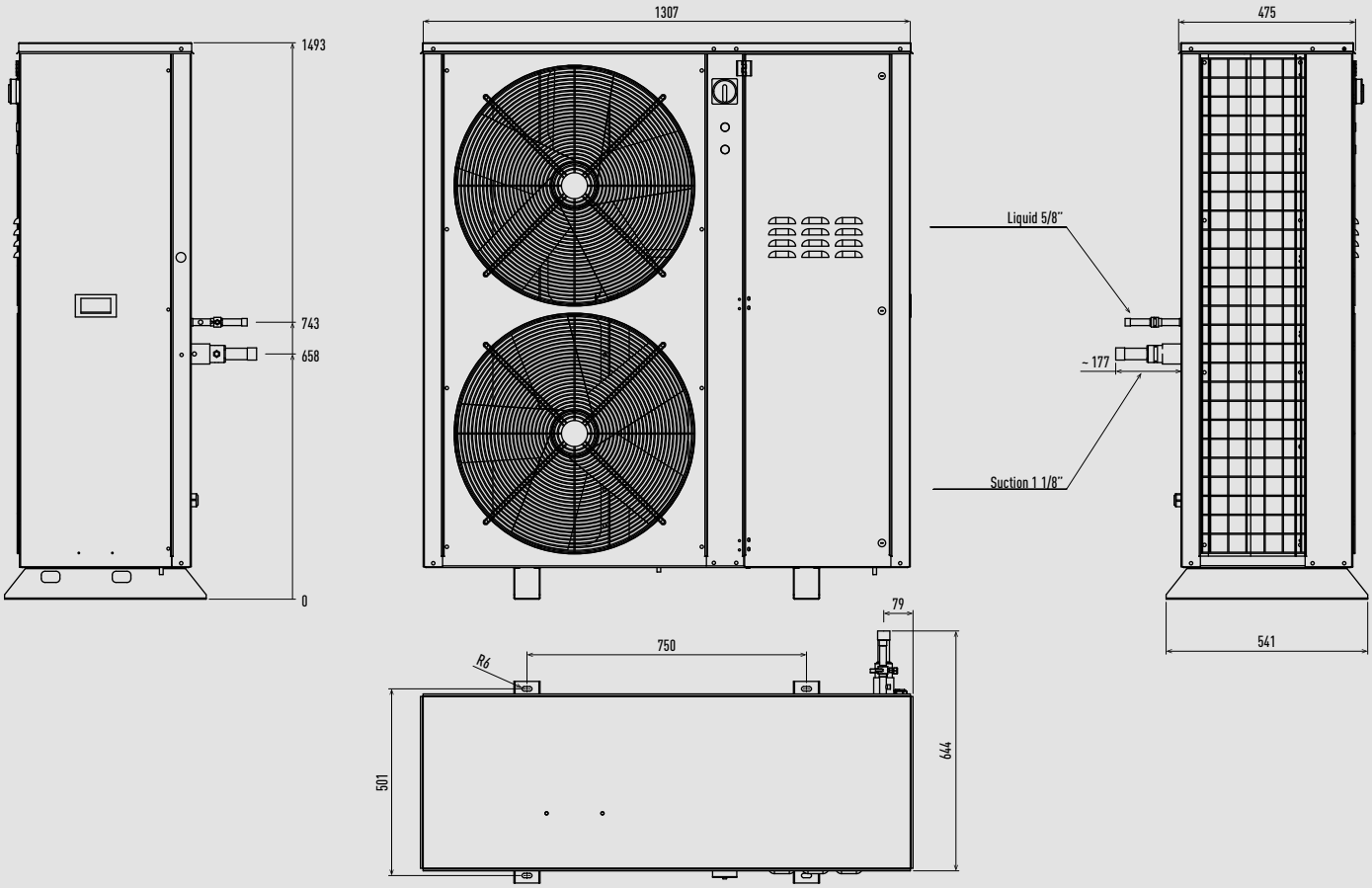
Unit: mm

iCOOL OCU Series – OCU-KSC120M08.



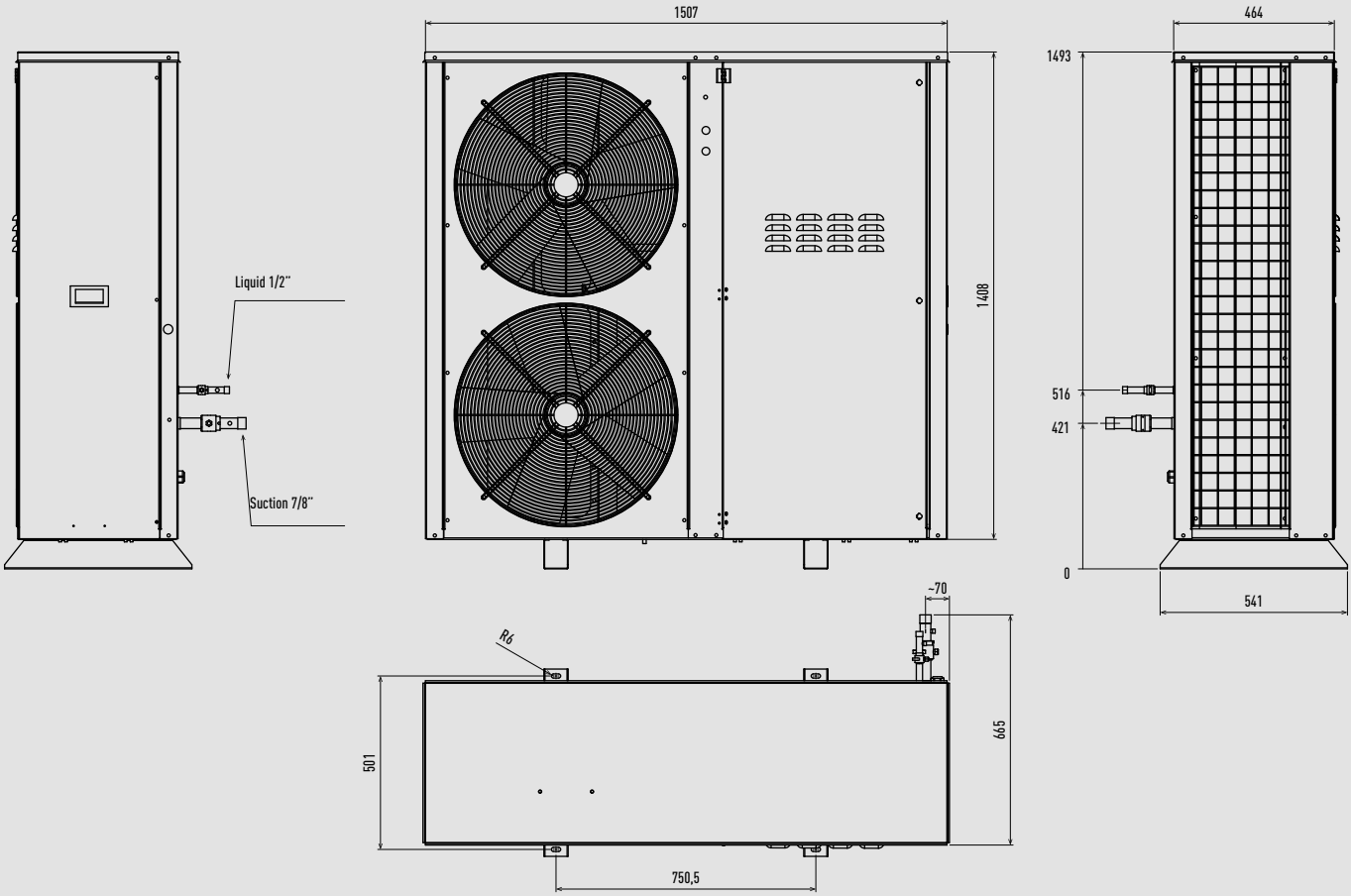
Unit: mm

iCOOL OCU Series – OCU-KSC150M08.



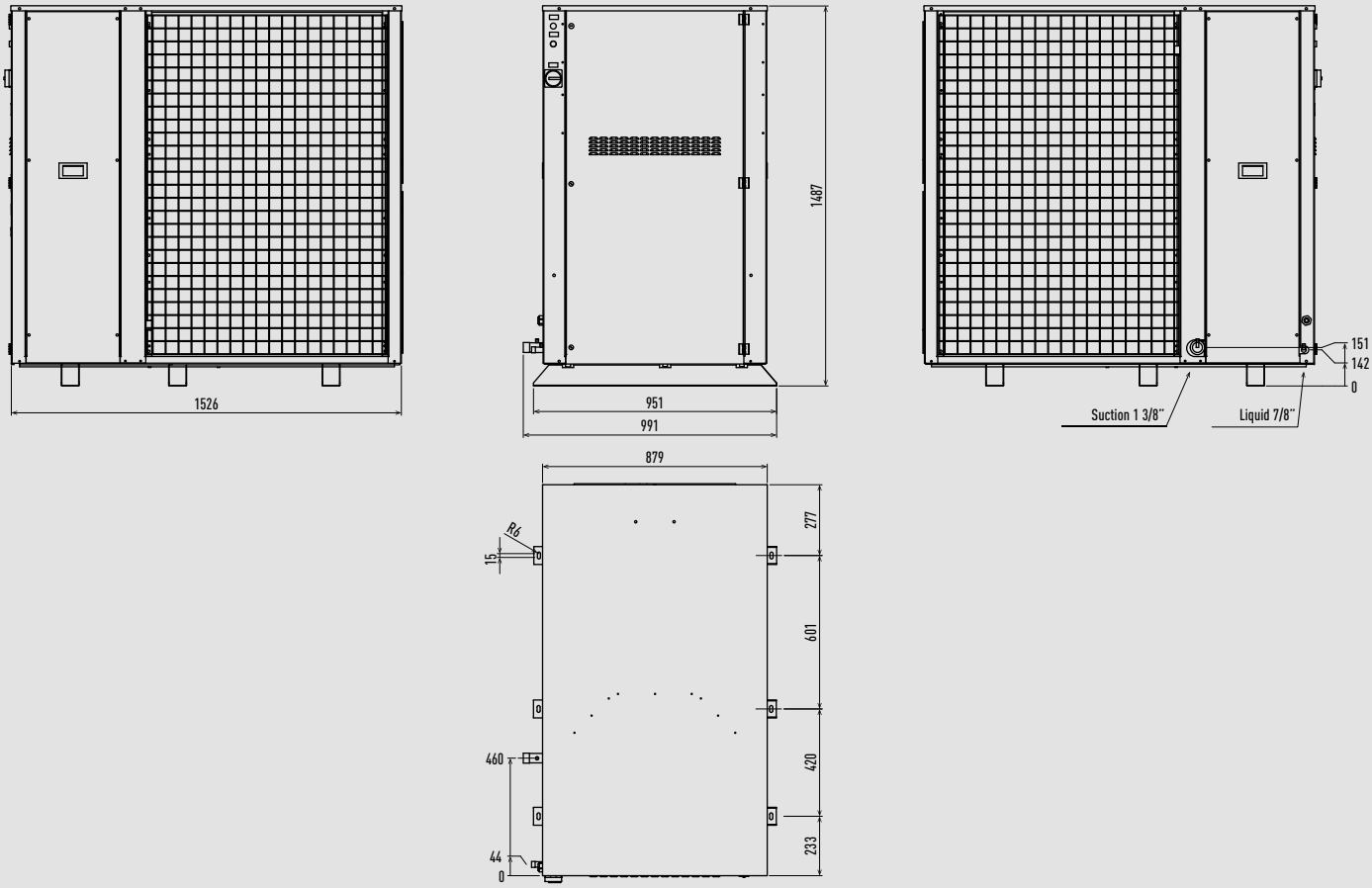
Unit: mm

iCOOL OCU Series – OCU-KSC160M08 / OCU-KSC190M08.



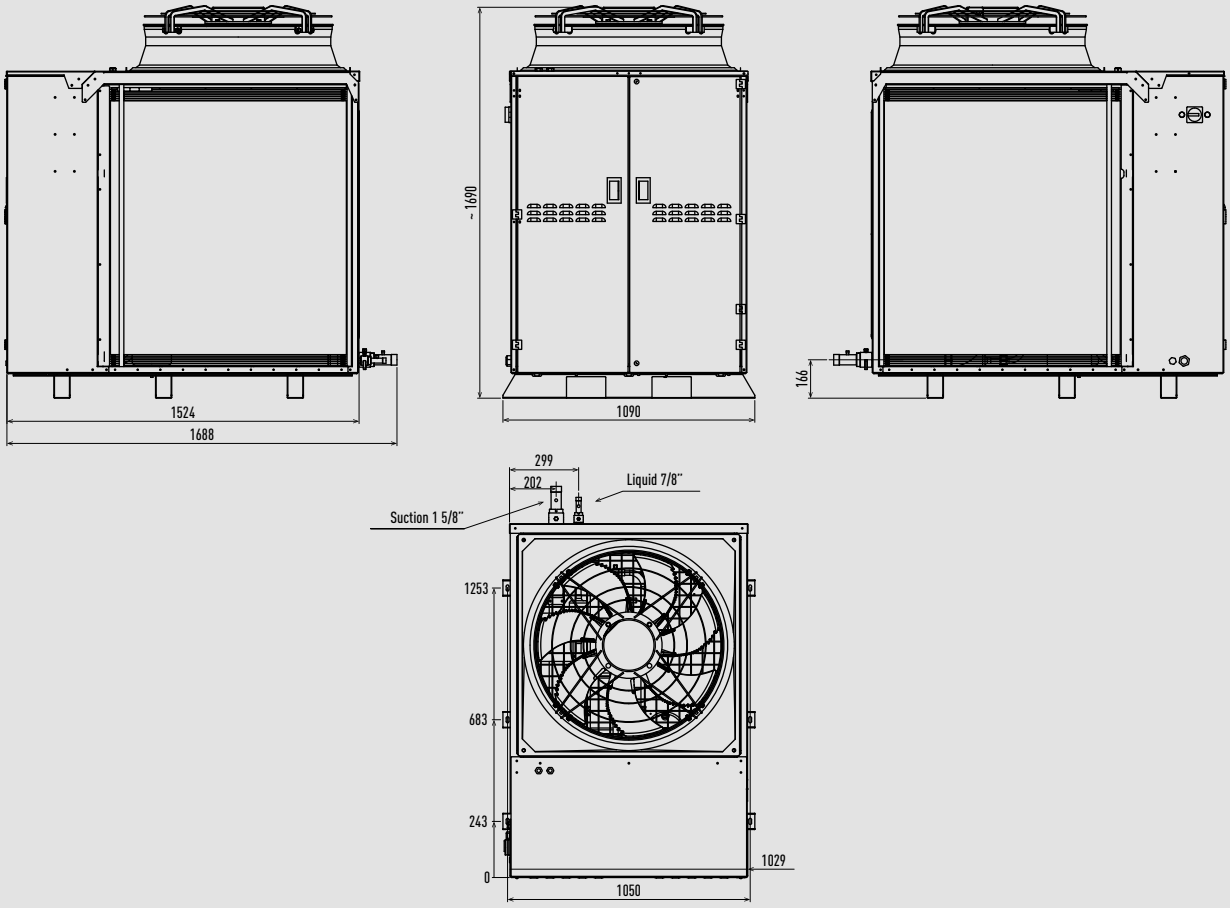
Unit: mm

iCOOL OCU Series – OCU-KSC240M08 / OCU-KSC280M08.



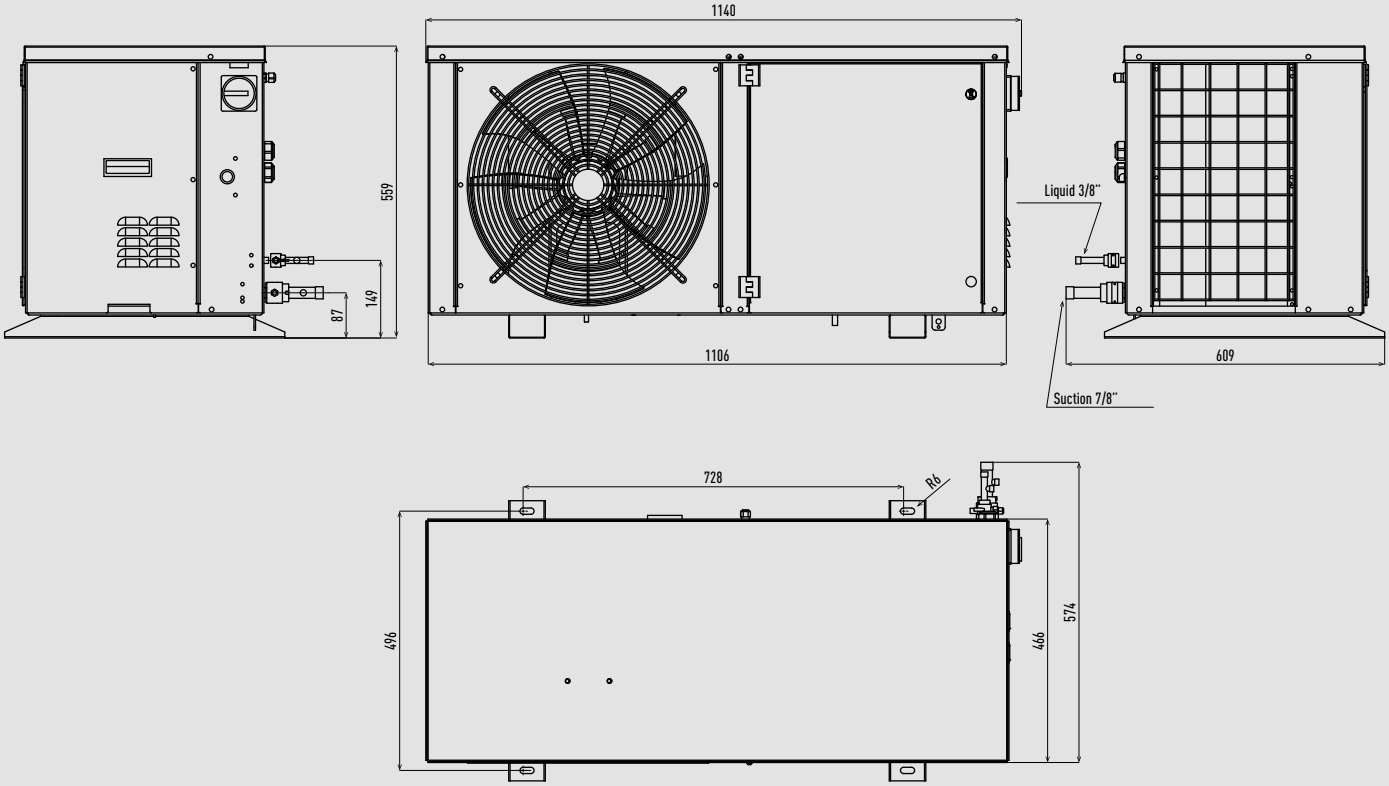
Unit: mm

iCOOL OCU Series – OCU-KSC400M08 / OCU-KSC420M08.



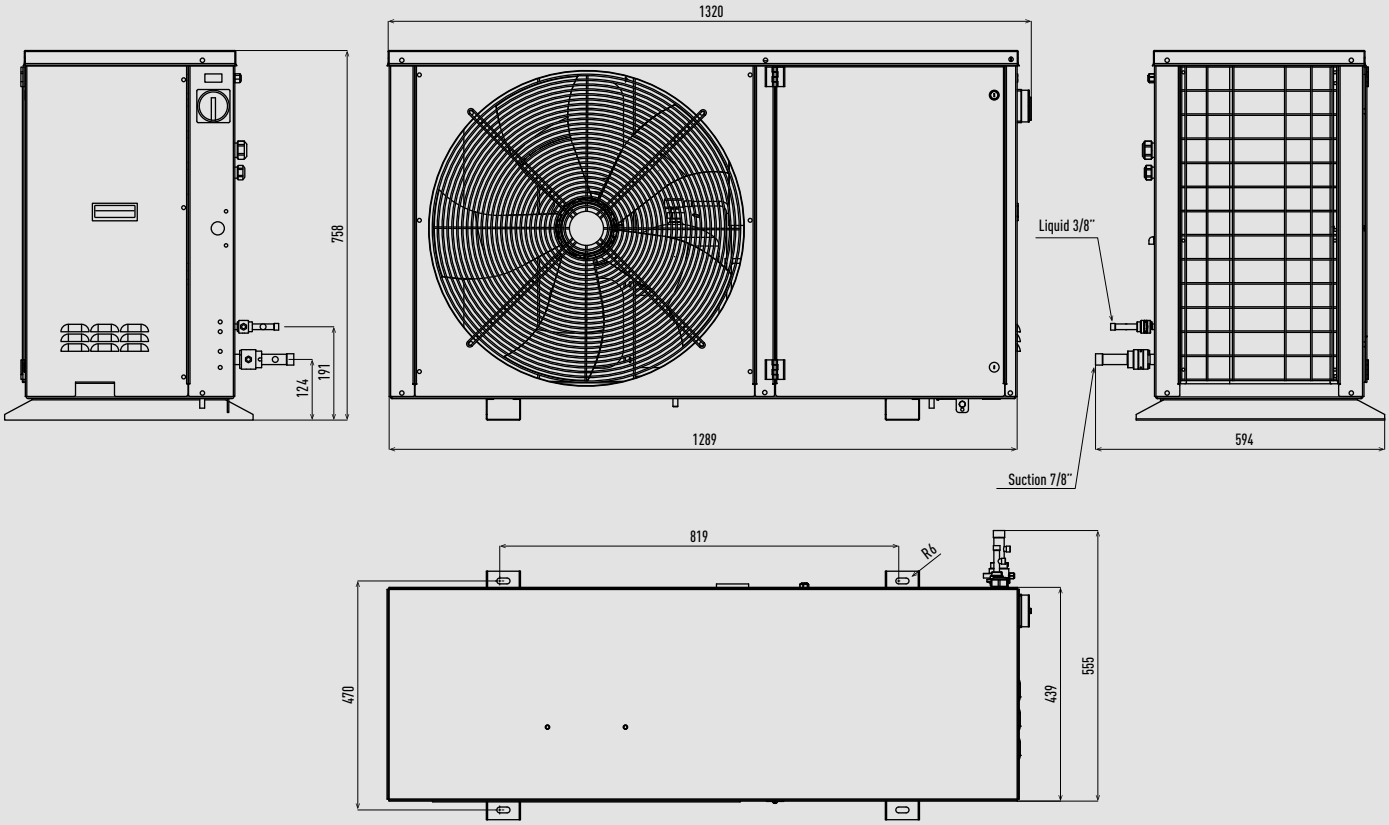
Unit: mm

iCOOL OCU Series – OCU-KRC035L08.



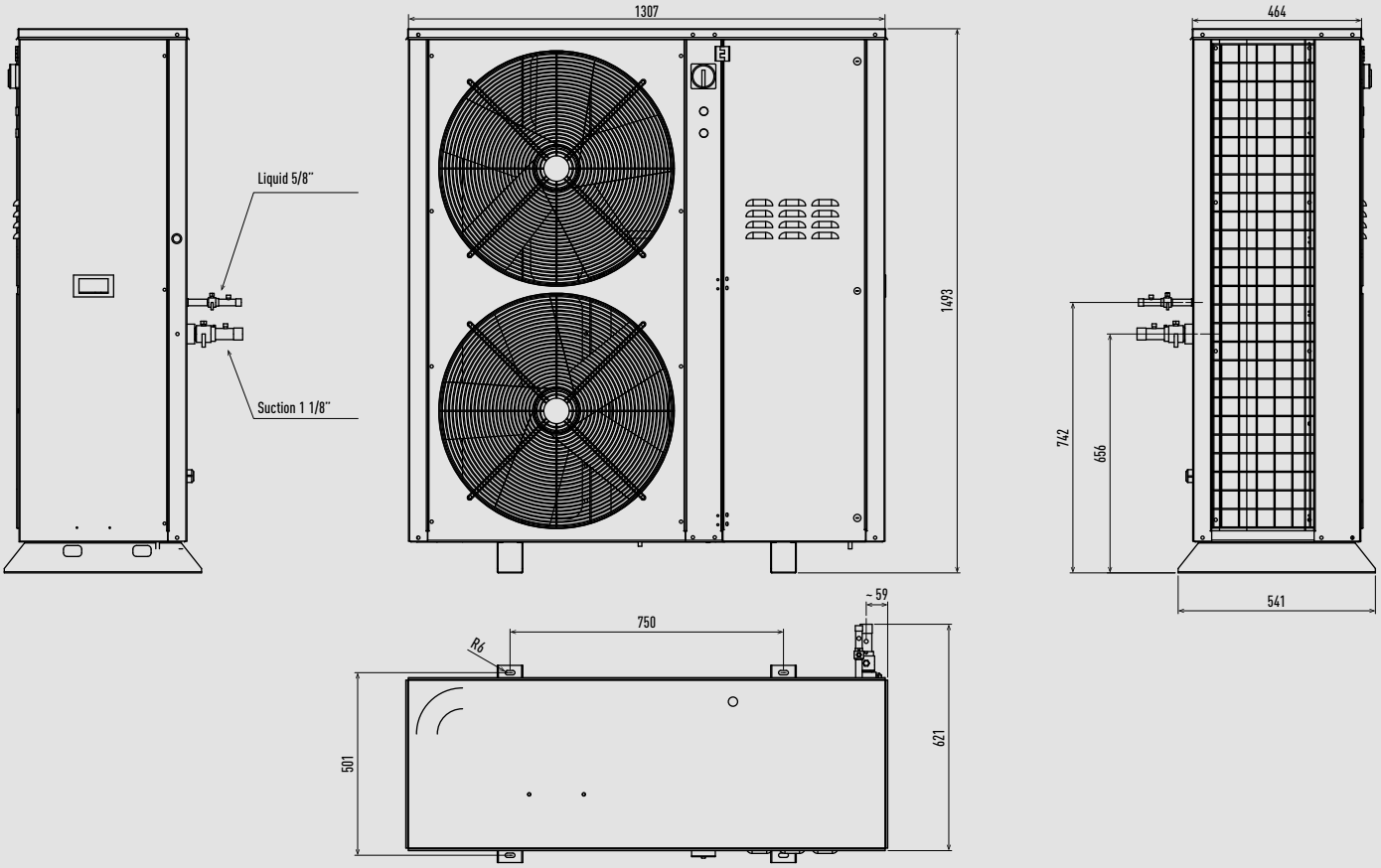
Unit: mm

iCOOL OCU Series – OCU-KRC050L08.



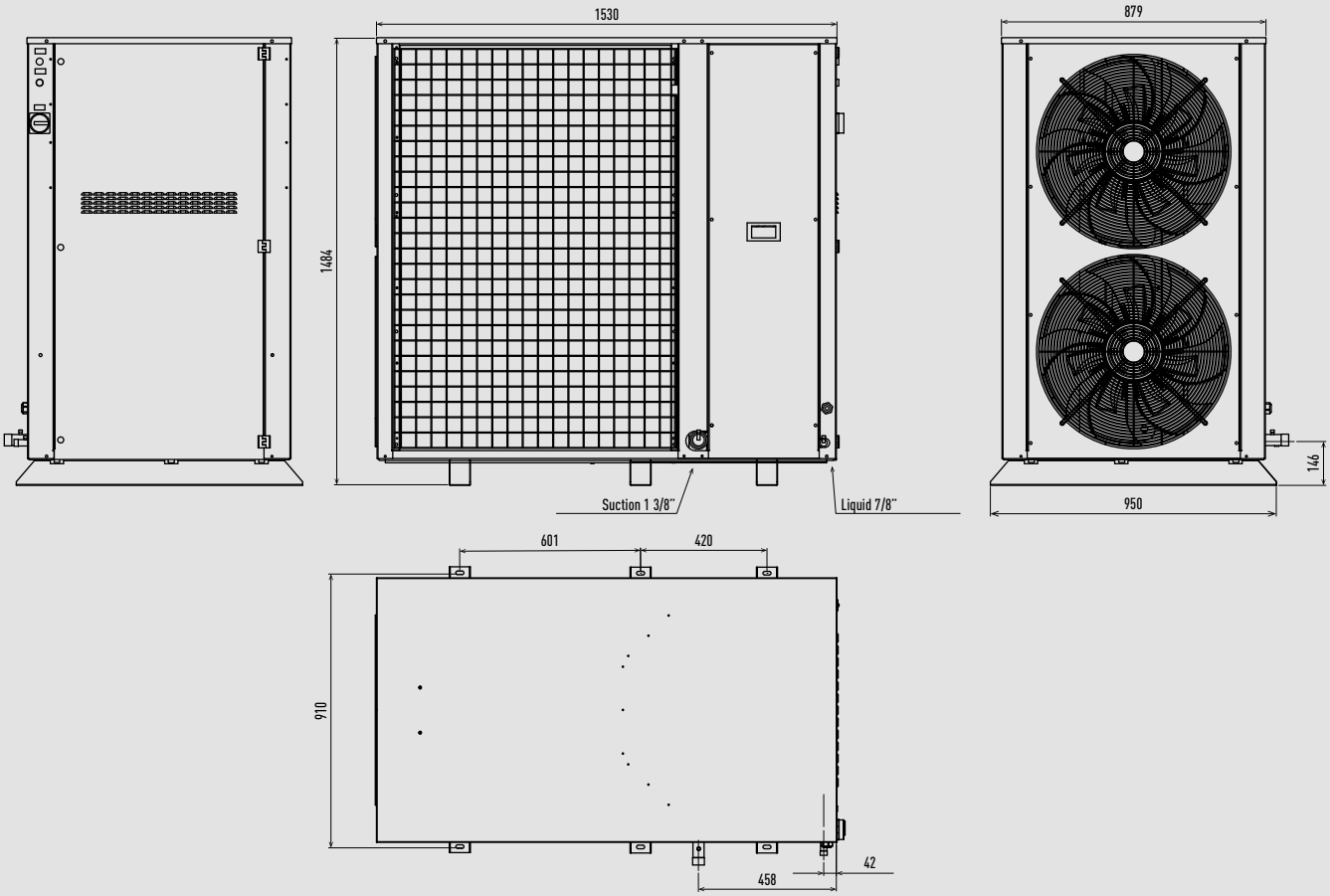
Unit: mm

iCOOL OCU Series – OCU-KSC090L08.



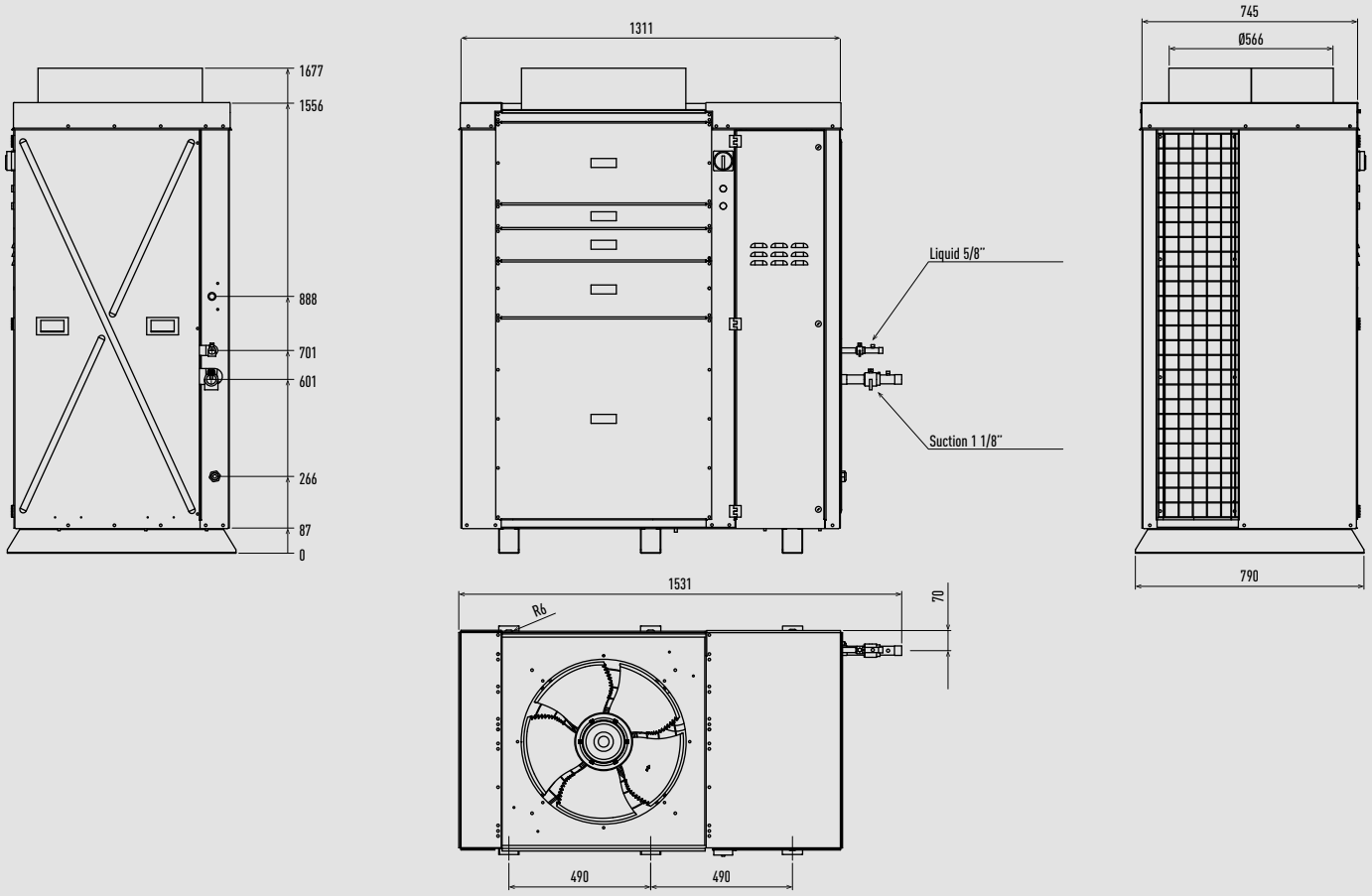
Unit: mm

iCOOL OCU Series – OCU-KSC140L08.



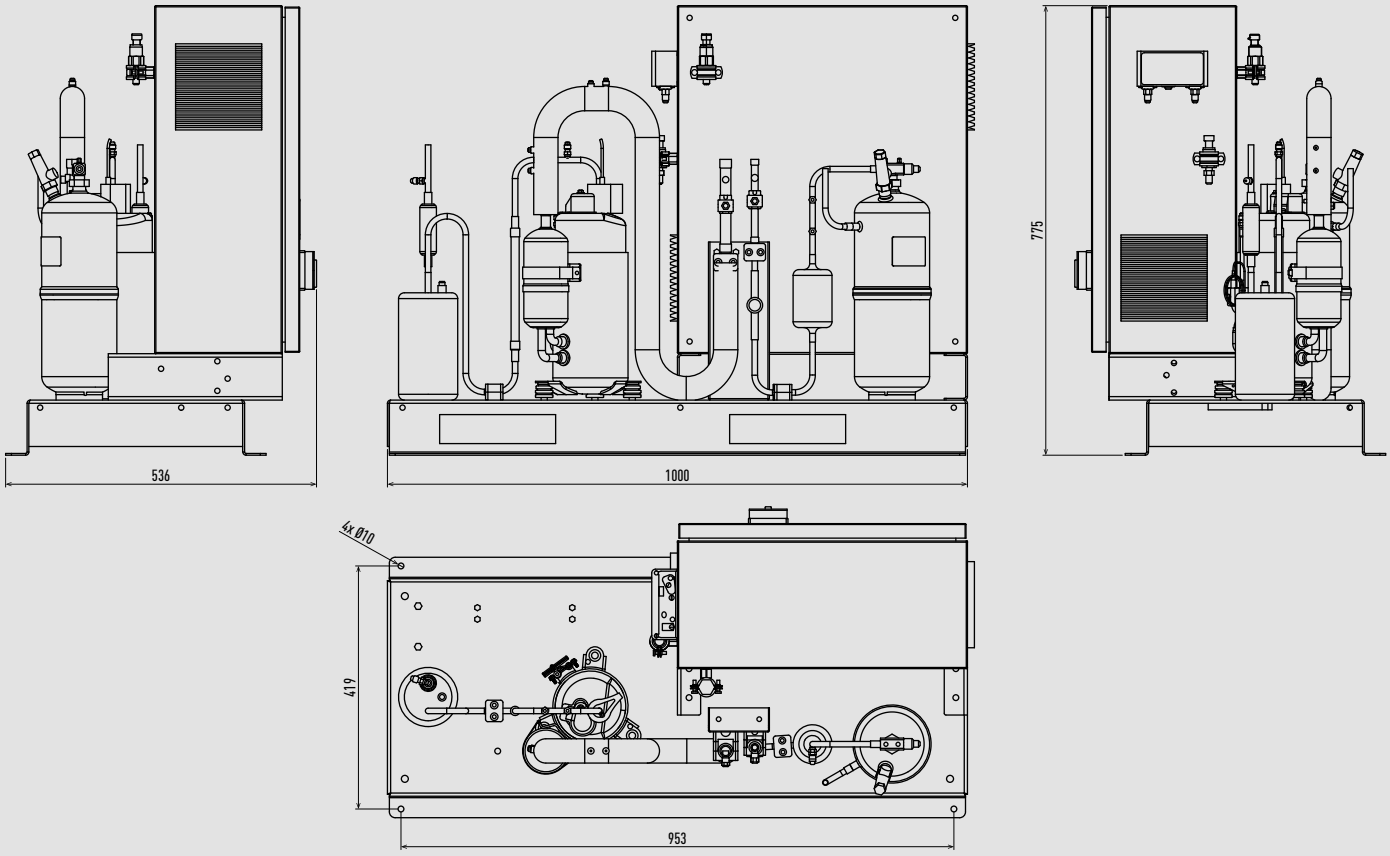
Unit: mm

iCOOL SCU Series – SCU-KSC160M08 / SCU-KSC190M08 / SCU-KSC090L08.



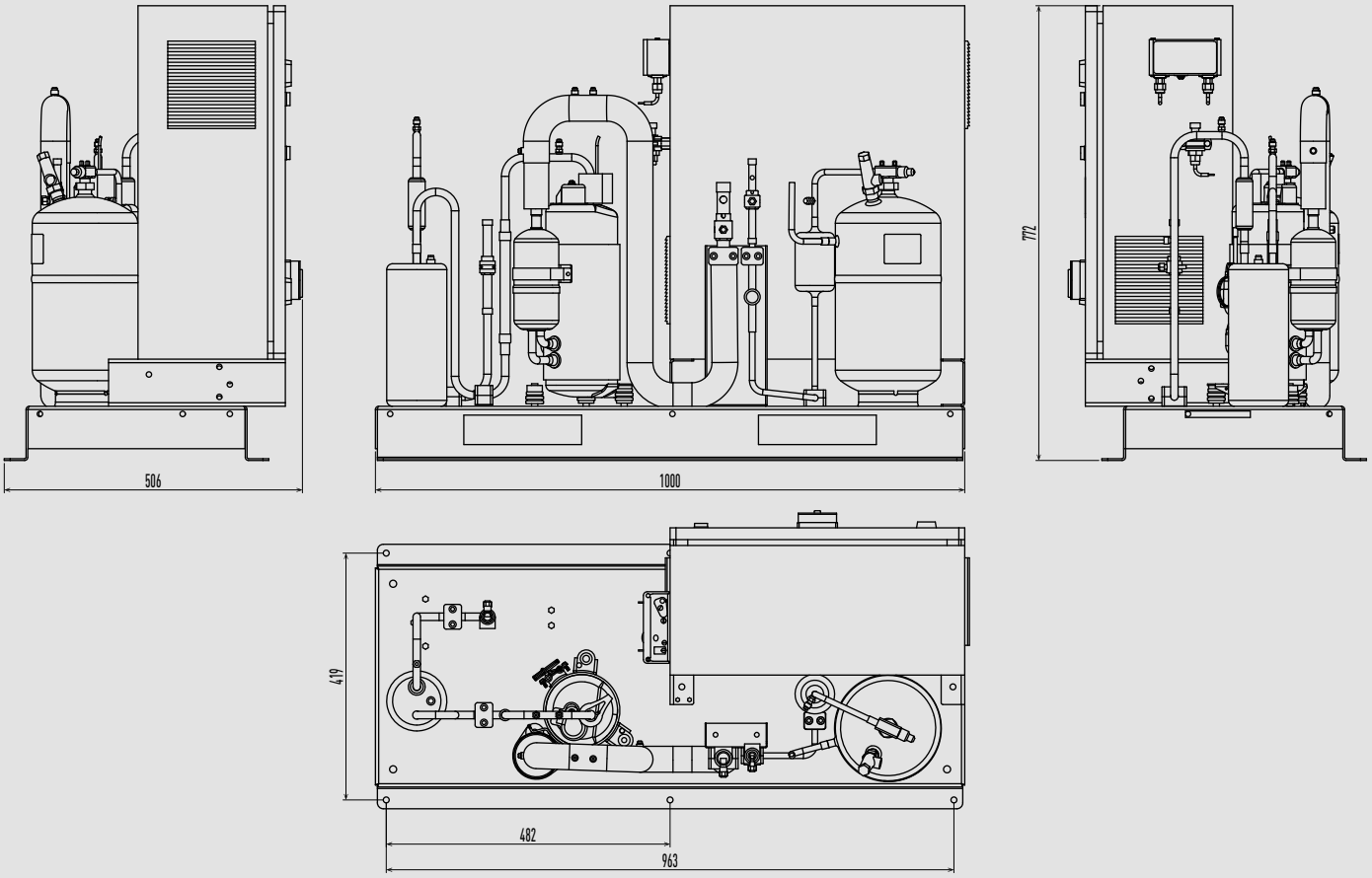
Unit: mm

iCOOL LCU Series – LCU-KRC045M08.



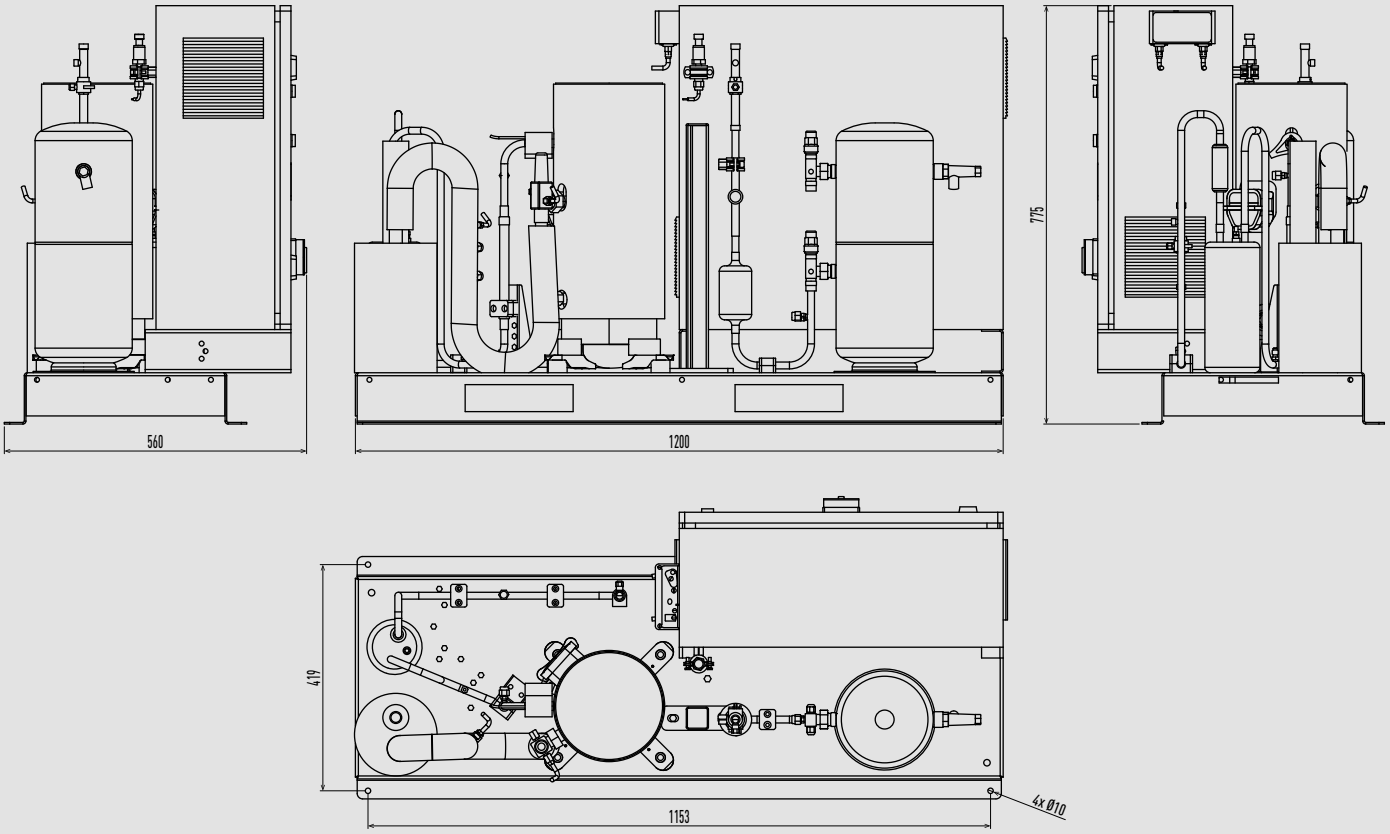
Unit: mm

iCOOL LCU Series – LCU-KRC070M08.



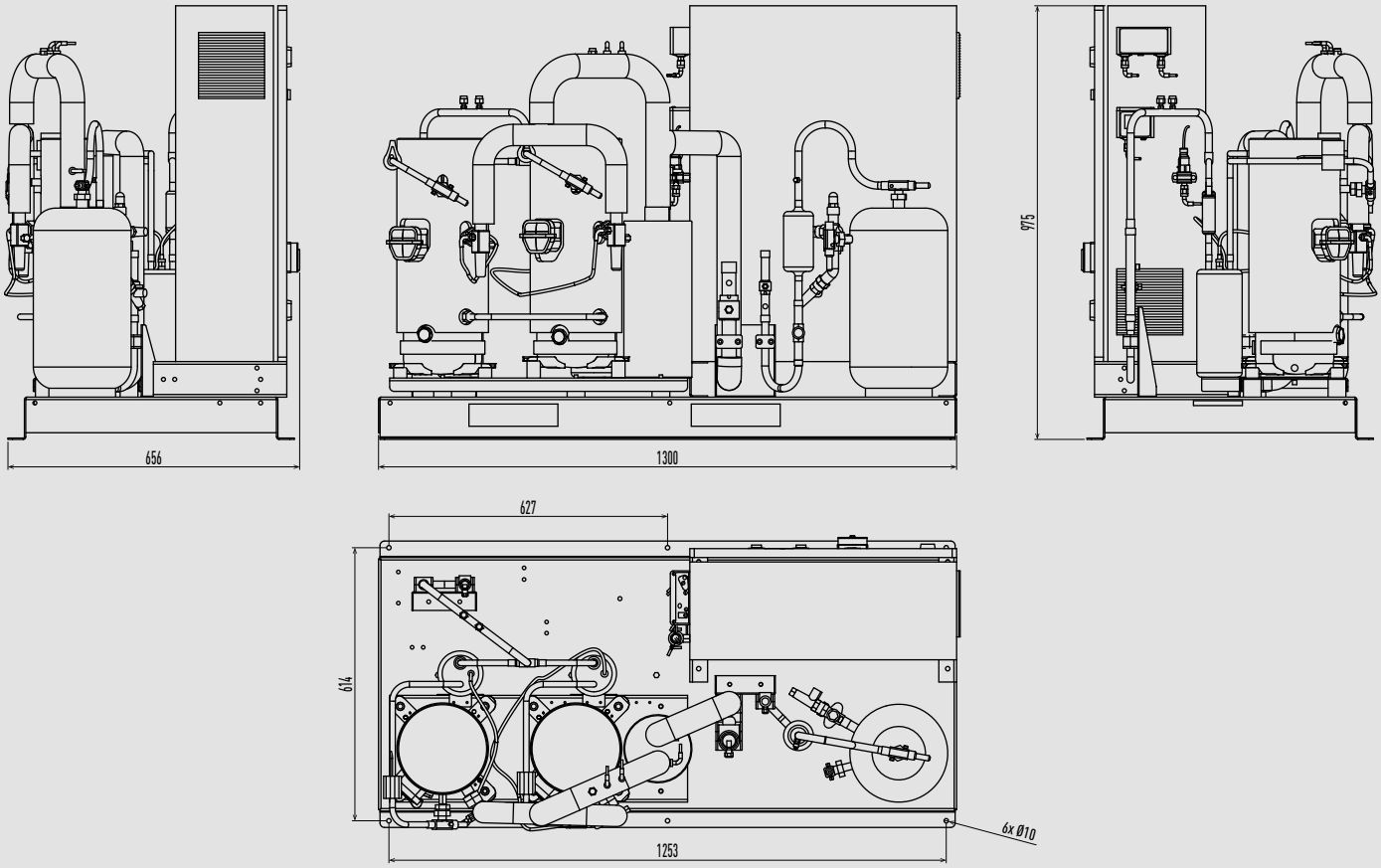
Unit: mm

iCOOL LCU Series – LCU-KSC100M08.



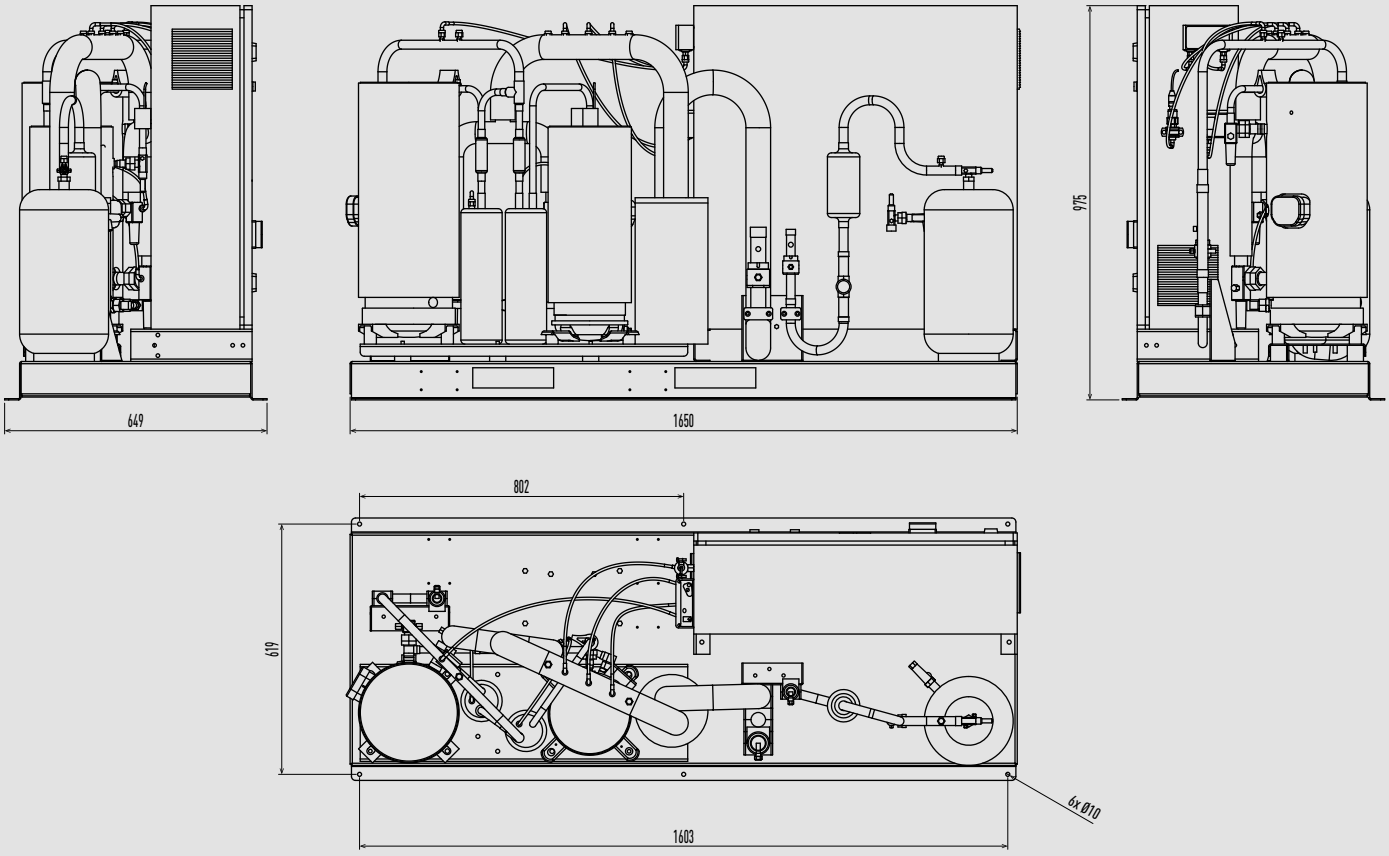
Unit: mm

iCOOL LCU Series – LCU-KSC160M08 / LCU-KSC190M08.



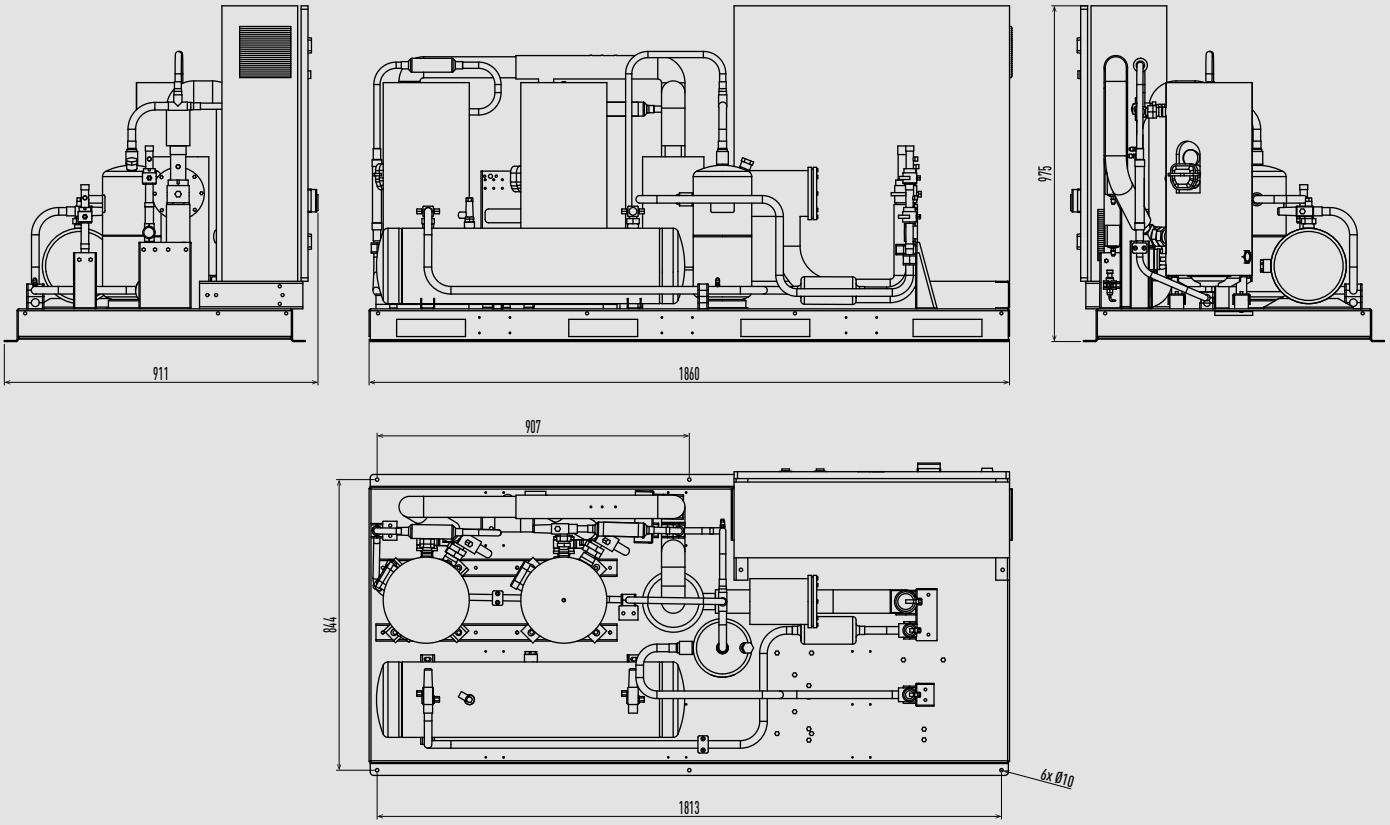
Unit: mm

iCOOL LCU Series – LCU-KSC280M08.



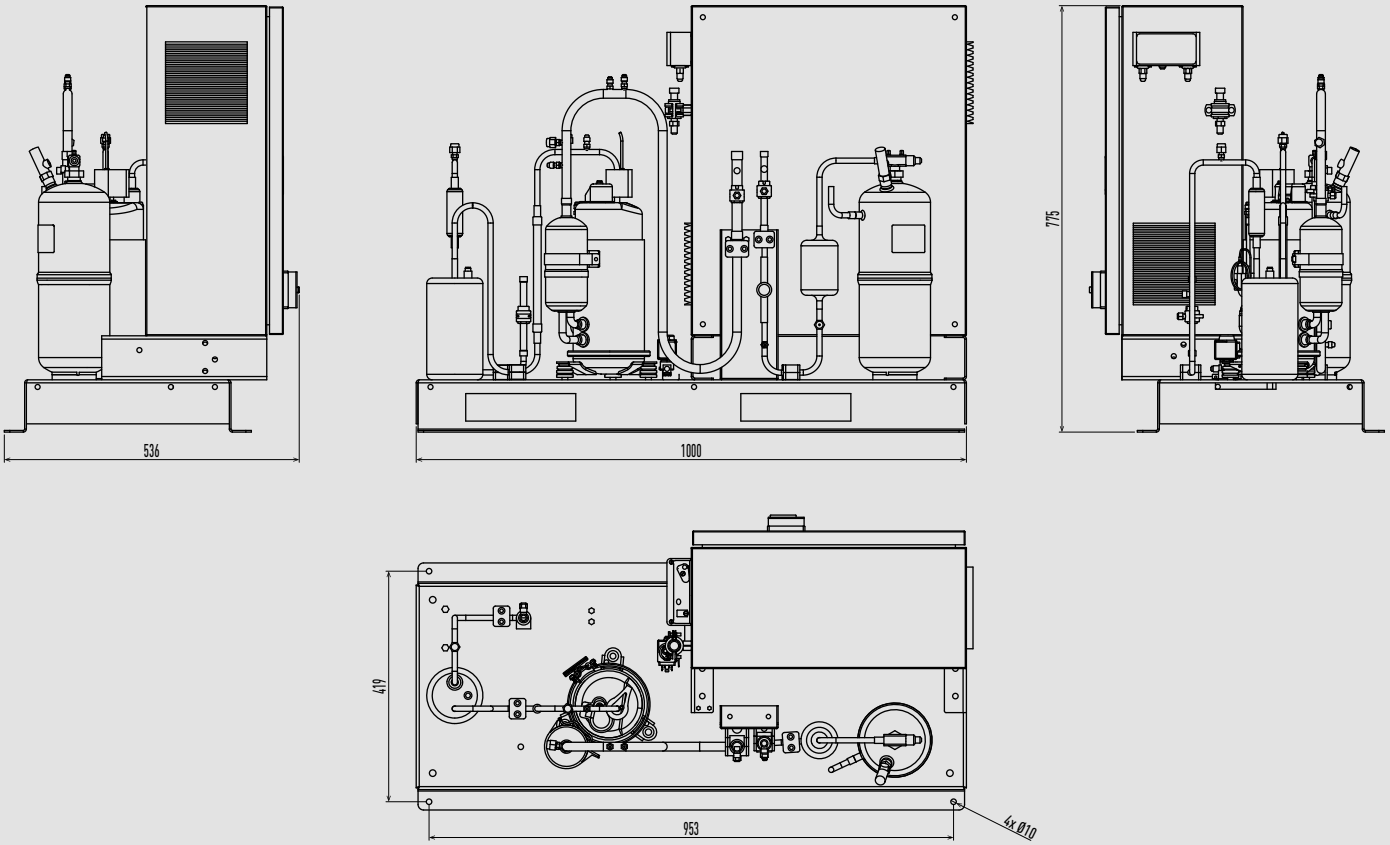
Unit: mm

iCOOL LCU Series – LCU-KSC400M08.



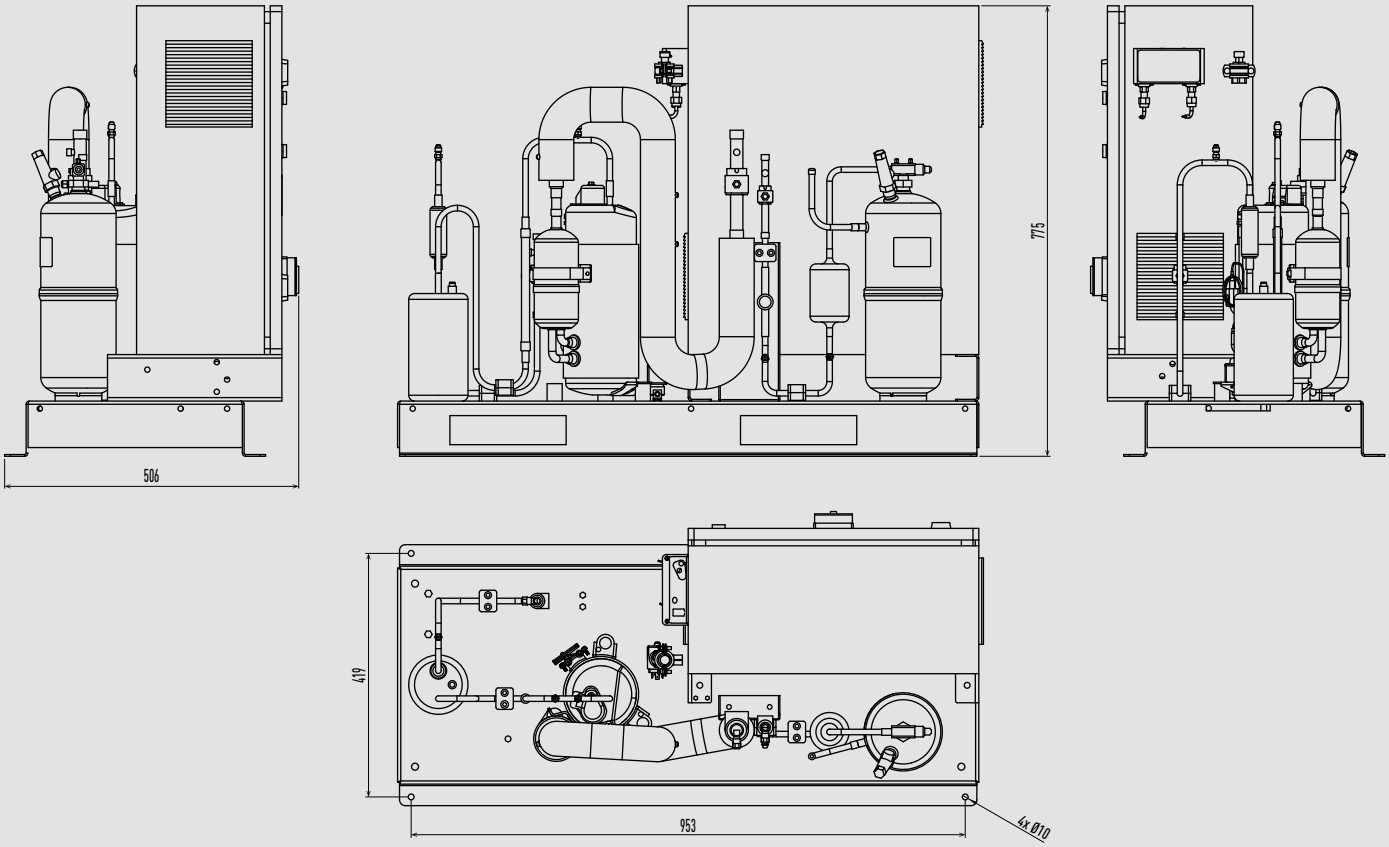
Unit: mm

iCOOL LCU Series – LCU-KRC020L08.



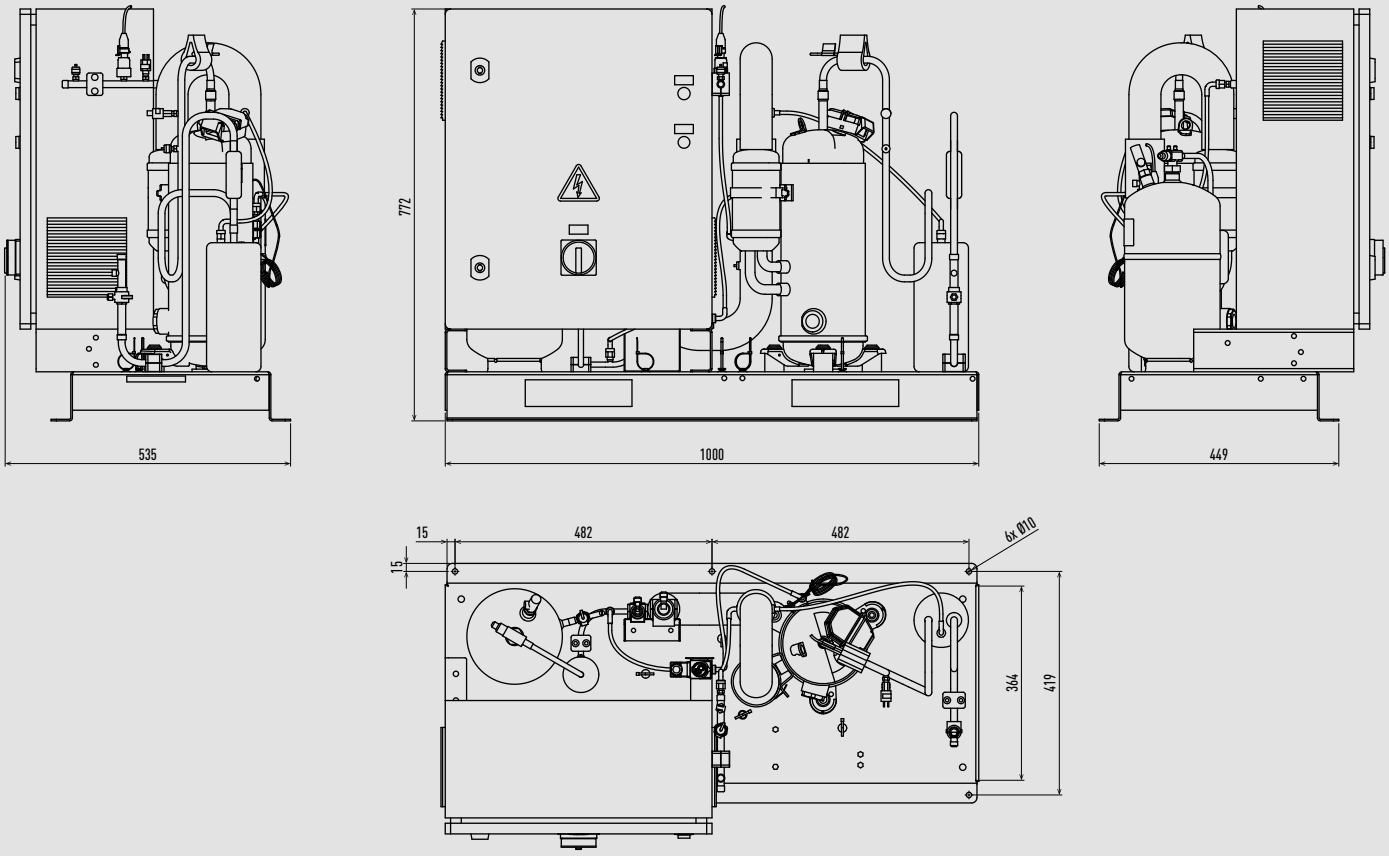
Unit: mm

iCOOL LCU Series – LCU-KRC035L08.



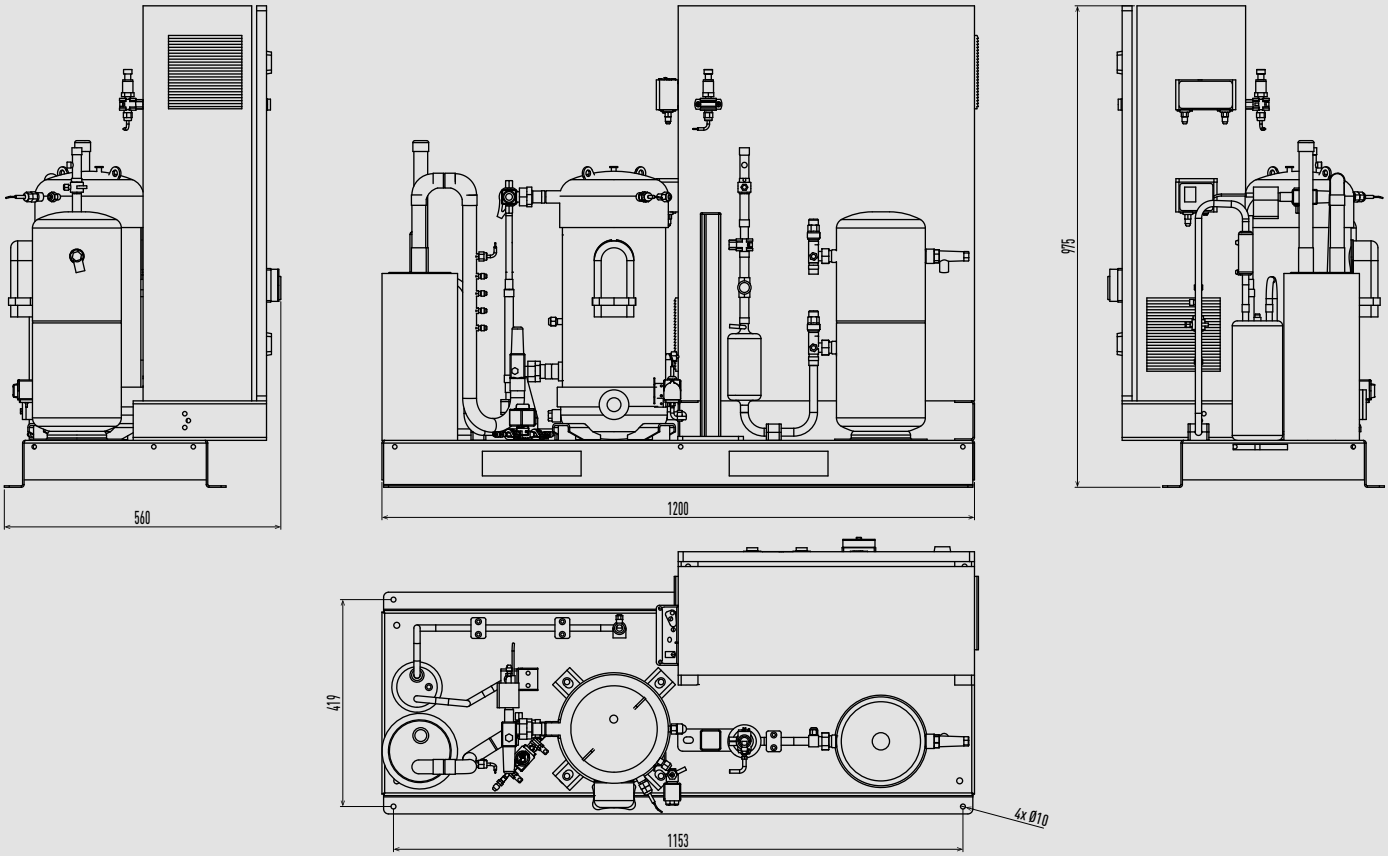
Unit: mm

iCOOL LCU Series – LCU-KRC050L08.



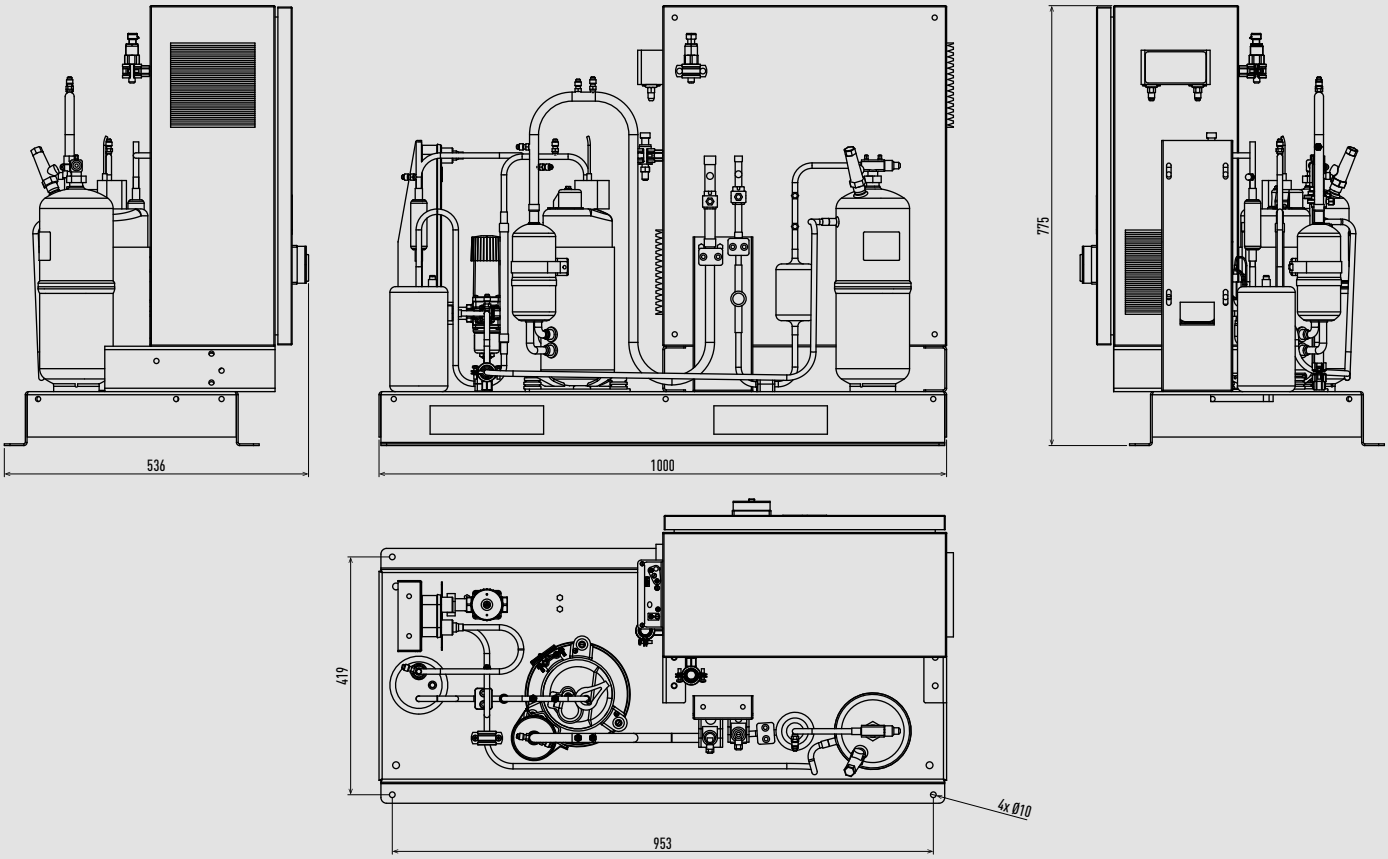
Unit: mm

iCOOL LCU Series – LCU-KSC090L08.



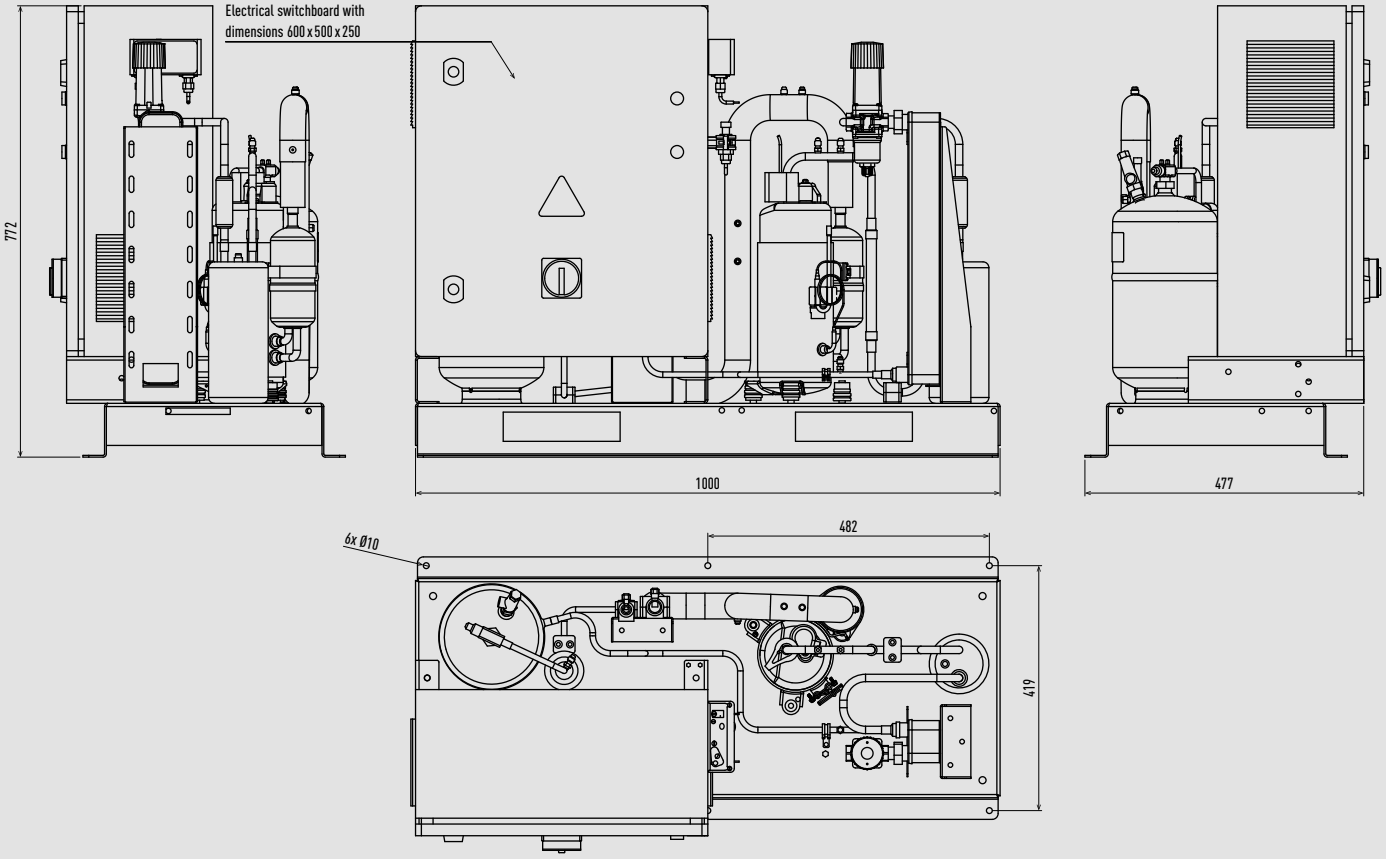
Unit: mm

iCOOL WCU Series – WCU-KRC045M08.



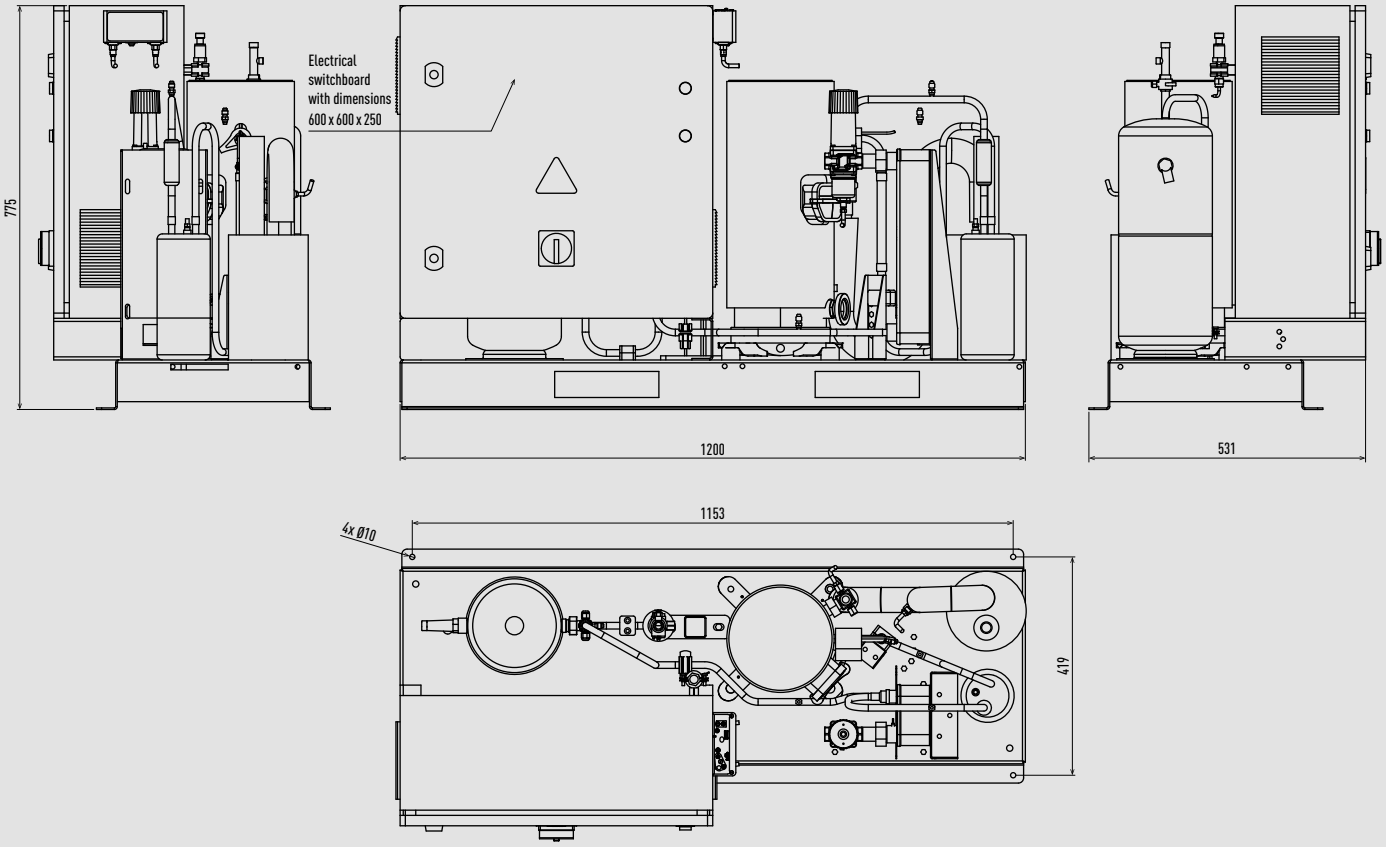
Unit: mm

iCOOL WCU Series – WCU-KRC070M08.



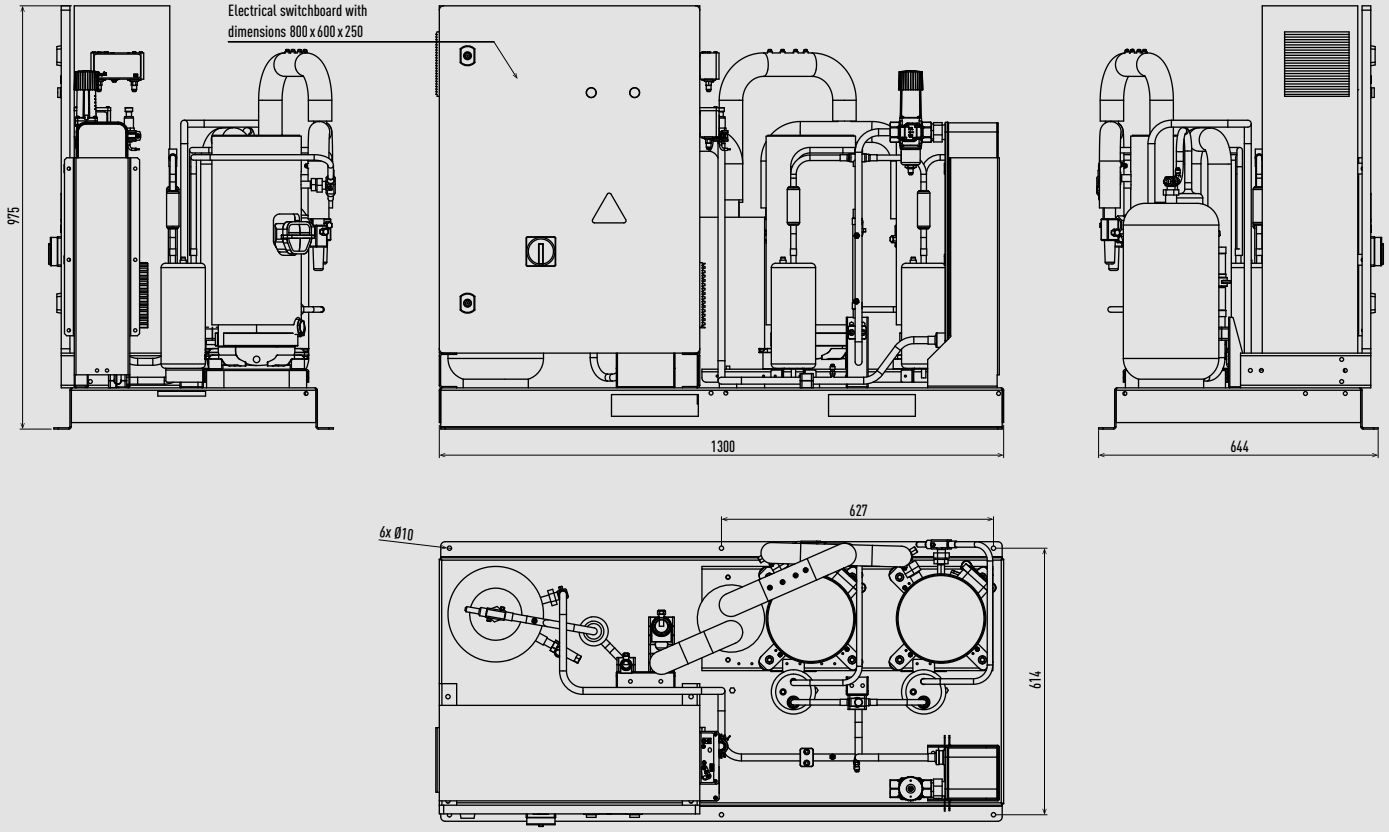
Unit: mm

iCOOL WCU Series – WCU-KSC100M08.



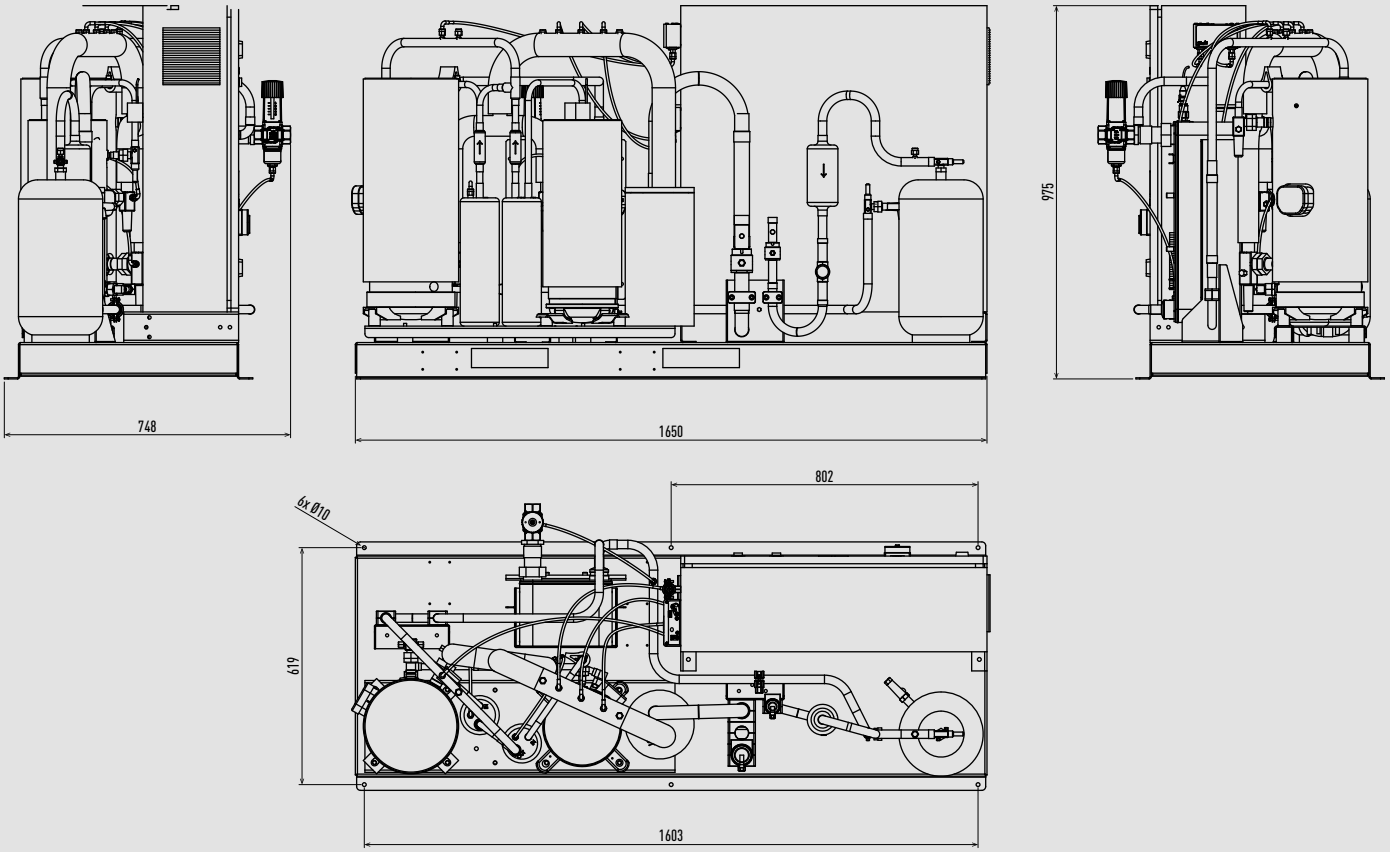
Unit: mm

iCOOL WCU Series – WCU-KSC160M08 / WCU-KSC190M08.



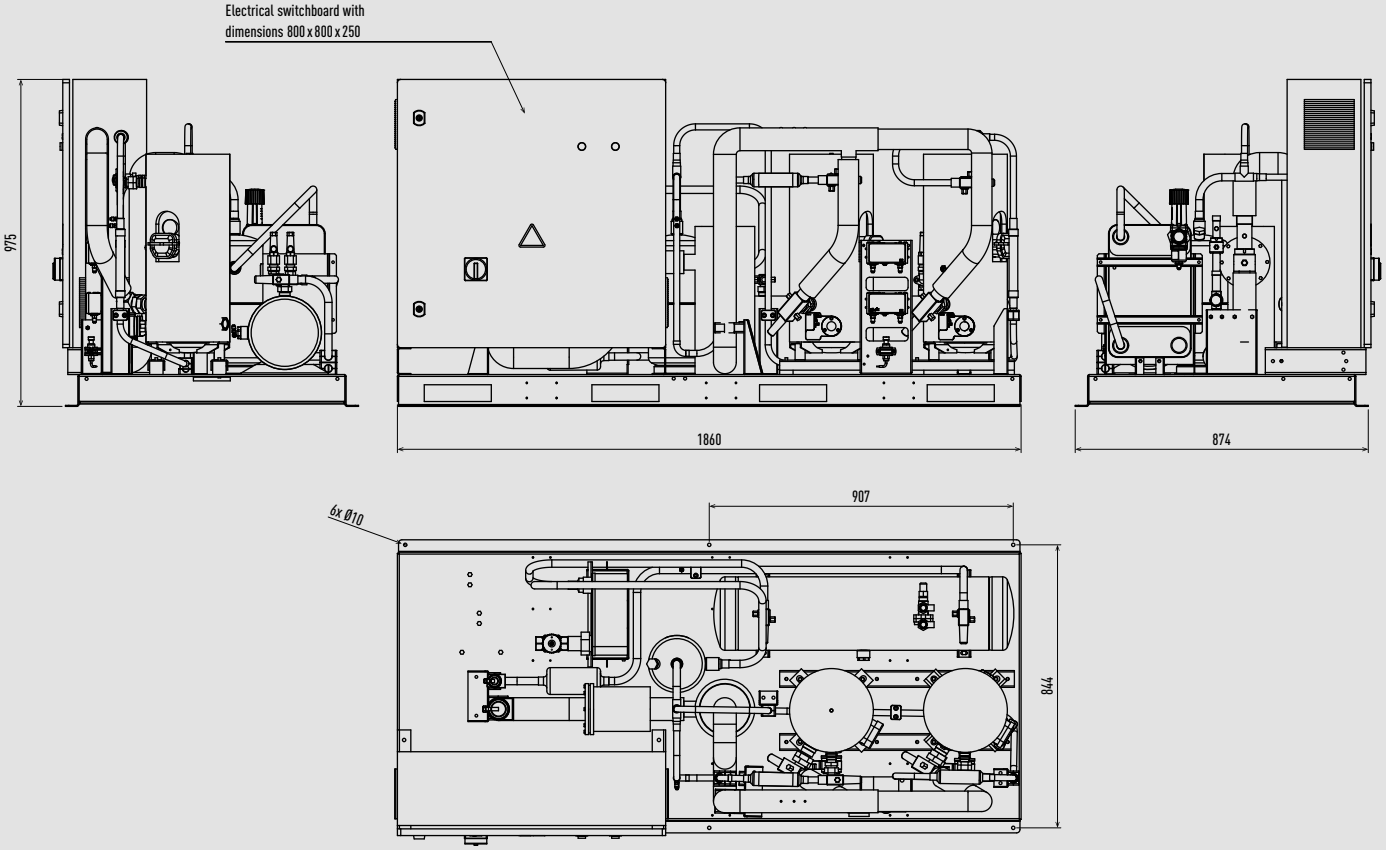
Unit: mm

iCOOL WCU Series – WCU-KSC280M08.



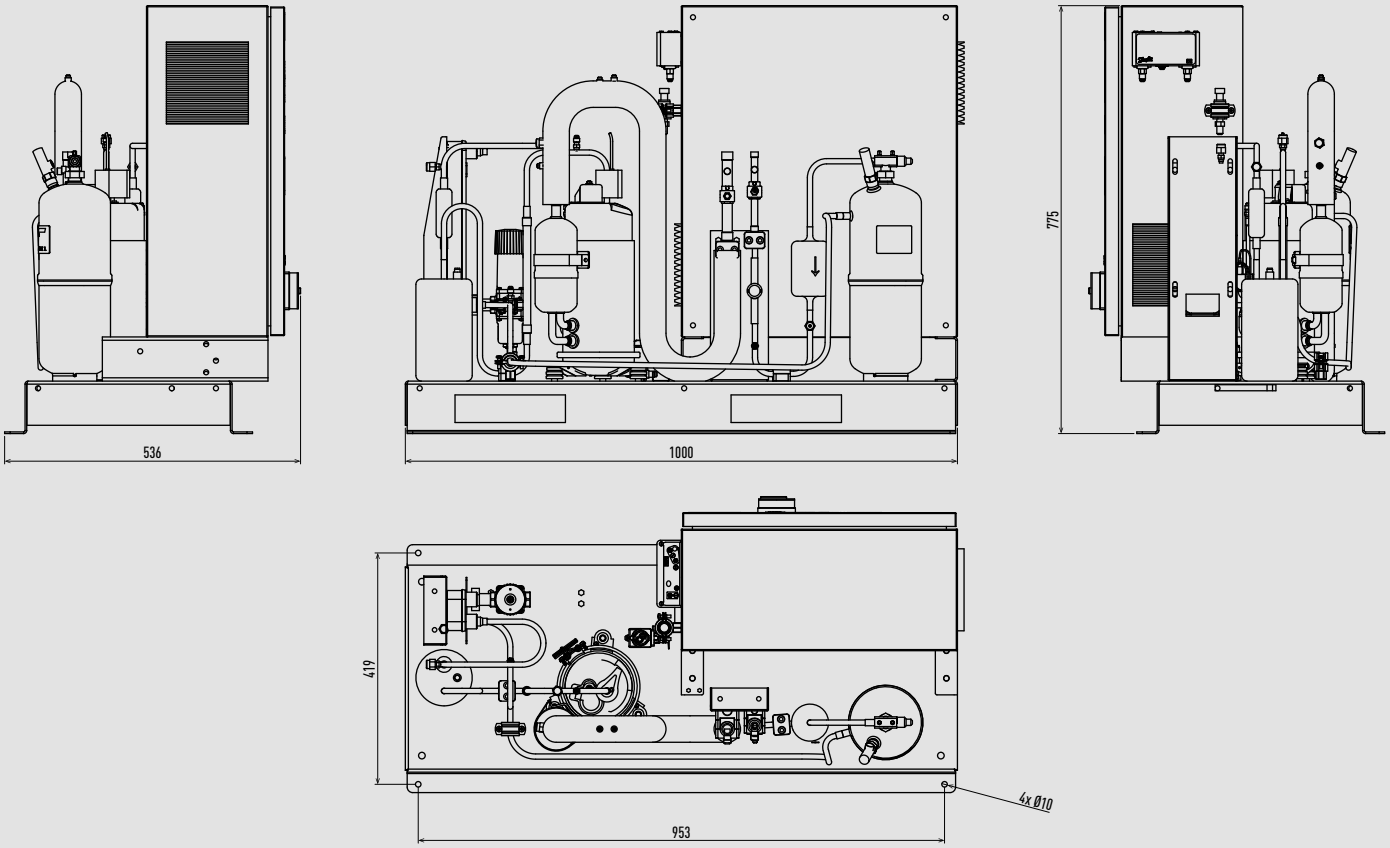
Unit: mm

iCOOL WCU Series – WCU-KSC400M08.



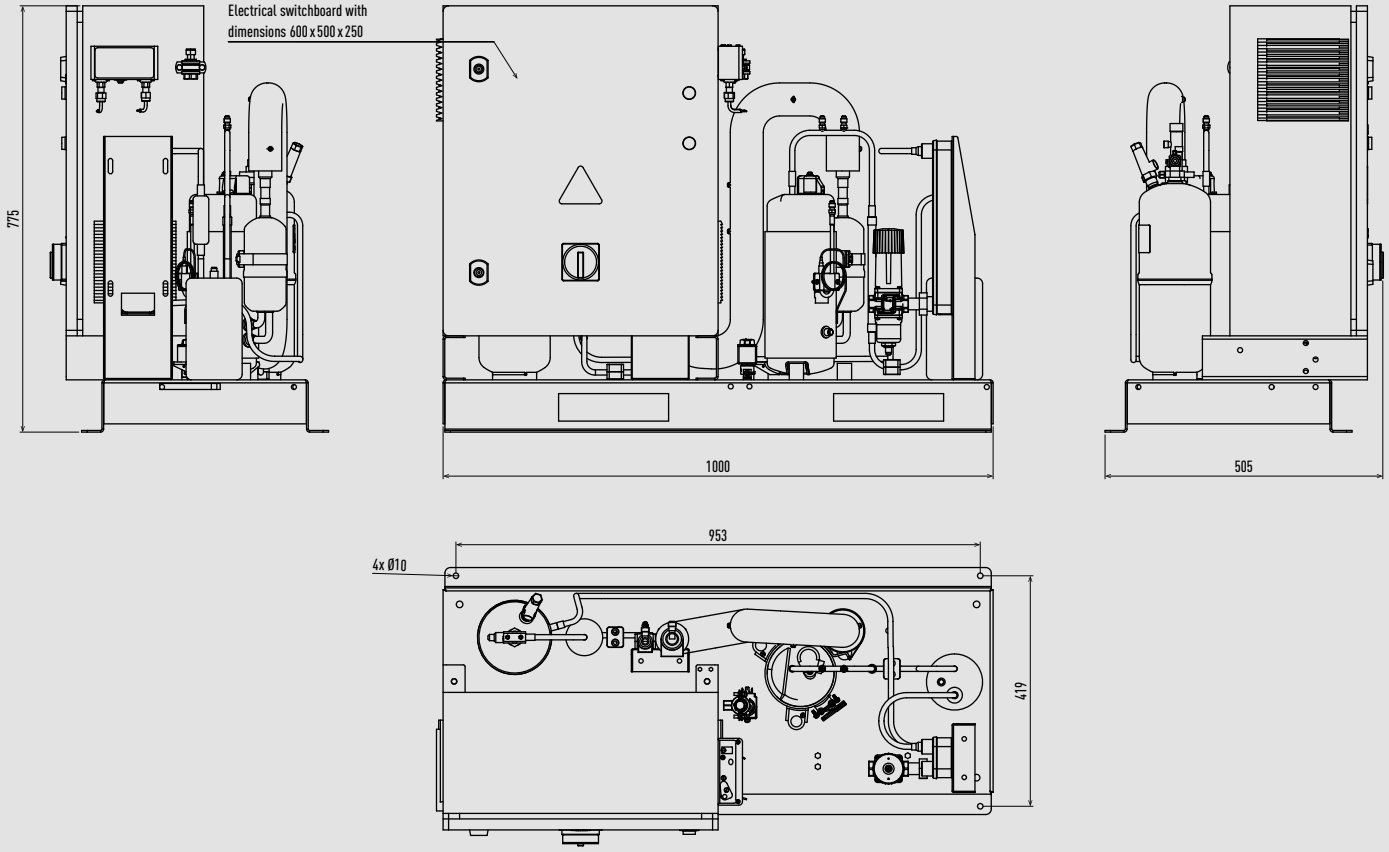
Unit: mm

iCOOL WCU Series – WCU-KRC020L08.



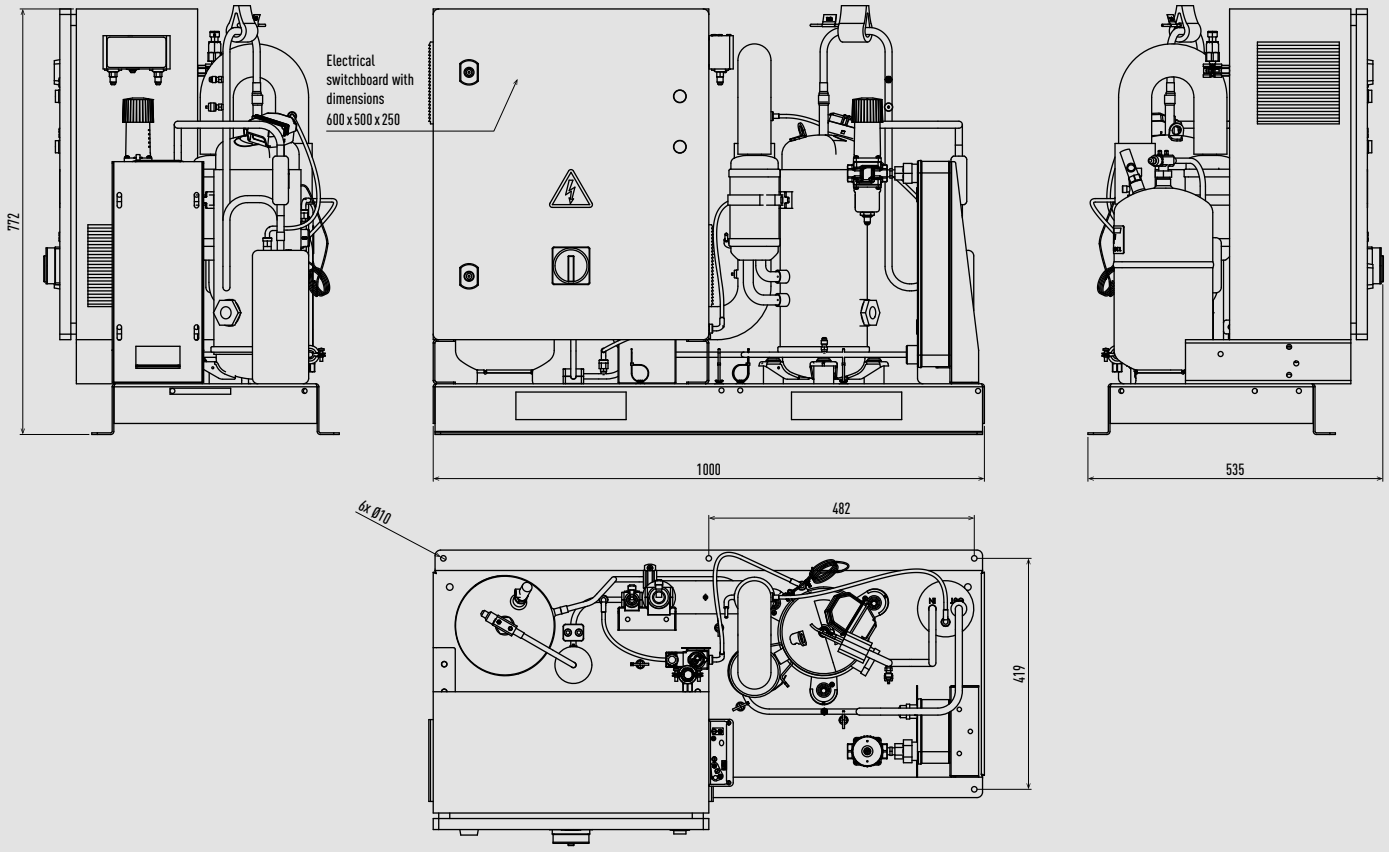
Unit: mm

iCOOL WCU Series – WCU-KRC035L08.



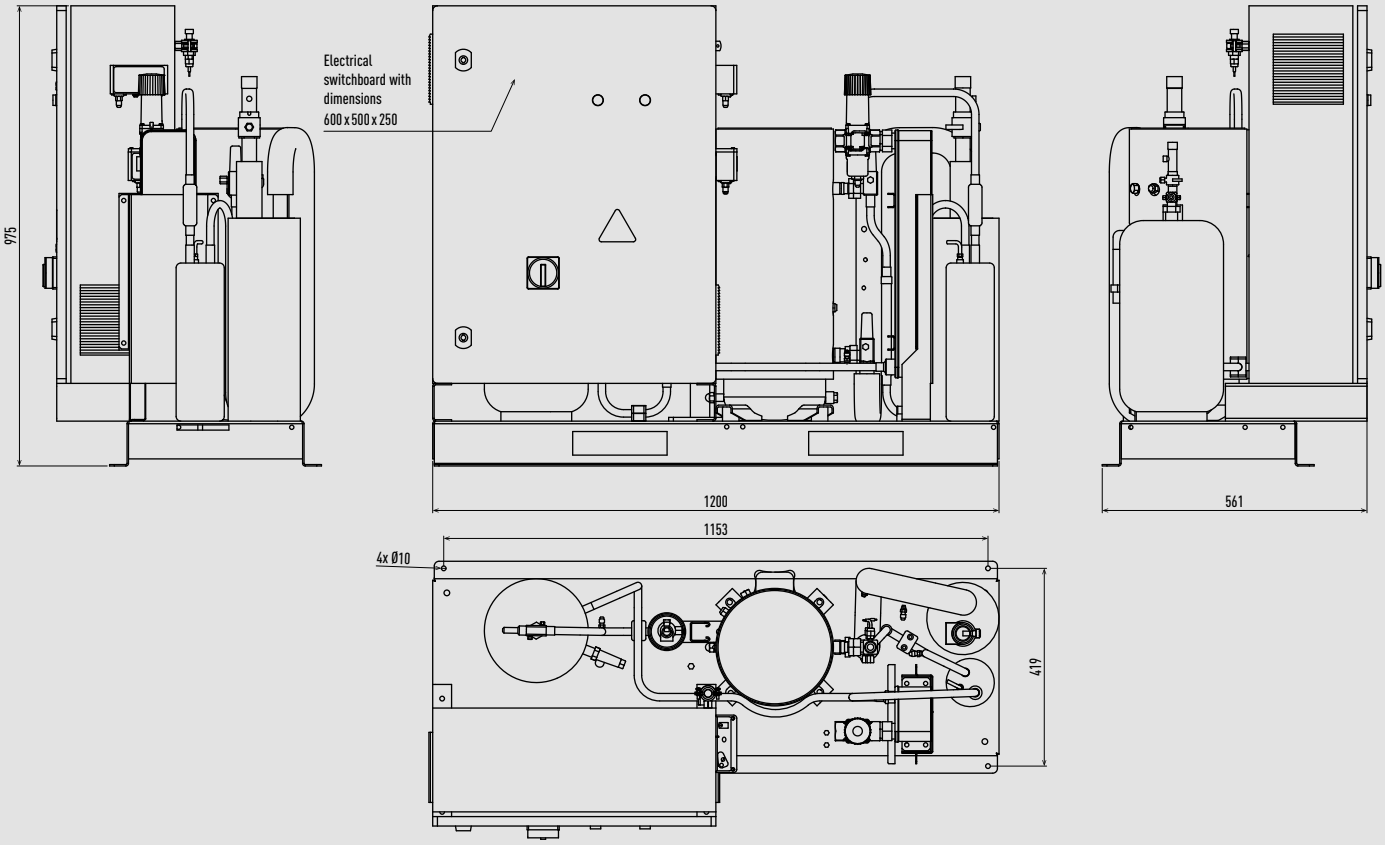
Unit: mm

iCOOL WCU Series – WCU-KRC050L08.



Unit: mm

iCOOL WCU Series – WCU-KSC090L08.



Unit: mm

Wiring diagrams

Domestic

Wall-mounted Etherea and TZ super-compact kits 1x1	→ 765
Wall-mounted BZ and UZ super-compact kits 1x1	→ 765
Floor console kits 1x1	→ 766
Low static pressure hide-away kits 1x1	→ 766
Multi system 2 rooms	→ 767
Multi system 3 rooms	→ 767
Multi system 4 rooms	→ 768
Multi system 5 rooms	→ 768

Commercial

PACi NX wall-mounted kits 1x1	→ 769
PACi NX 4 way 60x60 cassette kits 1x1	→ 769
PACi NX 4 way 90x90 cassette kits 1x1	→ 770
PACi NX ceiling kits 1x1	→ 770
PACi NX adaptive ducted unit kits 1x1	→ 771
PACi NX multi zone duct unit	→ 771
Big PACi NX hide-away kits 1x1	→ 772
PACi NX Jet Air Stream	→ 772
PACi NX twin system	→ 773
PACi NX triple system	→ 773
PACi NX double-twin system	→ 774
Wall-mounted Professional YKEA kits 1x1	→ 774

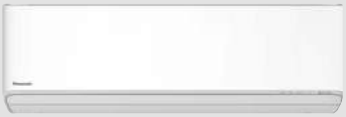
VRF Systems

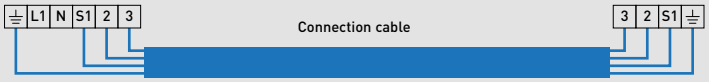
Mini ECOi Series	→ 775
ECOi EX Series	→ 775

Please note: The wiring requirements indicated here are the minimum requirements in accordance with the installation instructions, please refer to the instructions for further details. Regulations on wire diameters and installation requirements differ from region to region. Please refer to your LOCAL ELECTRICAL CODES before commencing installation.

Wall-mounted Etherea and TZ super-compact kits 1x1.

Indoor unit

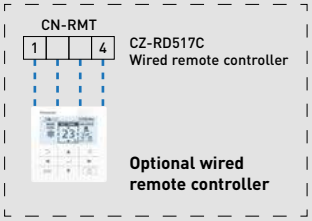




Terminal connections differ when Etherea and TZ indoor units are connected to multi split outdoor units

Outdoor unit

Infrared remote controller (included in the delivery)



Single phase
Power supply
230 V / 50 Hz

Power supply to indoor or outdoor depending on model, see table.

Wall-mounted Etherea Graphite grey, Silver and Matt white · R32

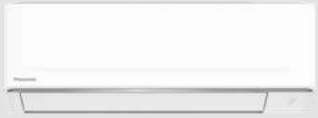
Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-XZ20CKEW-H / CS-XZ20CKEW / CS-Z20CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z20CKE
CS-XZ25CKEW-H / CS-XZ25CKEW / CS-Z25CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z25CKE
CS-XZ35CKEW-H / CS-XZ35CKEW / CS-Z35CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z35CKE
CS-XZ42CKEW-H / — / CS-Z42CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z42CKE
— / CS-XZ50CKEW / CS-Z50CKEW	230 V (indoor)	16 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-Z50CKE
— / — / CS-Z71CKEW	230 V (indoor)	20 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-Z71CKE

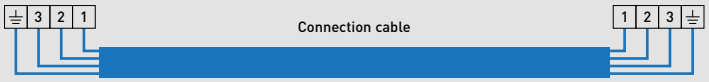
Wall-mounted TZ super-compact · R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-TZ20CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-TZ20CKE
CS-TZ25CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-TZ25CKE
CS-TZ35CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-TZ35CKE
CS-TZ42CKEW	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-TZ42CKE
CS-TZ50CKEW	230 V (indoor)	16 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-TZ50CKE
CS-TZ60CKEW	230 V (indoor)	16 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-TZ60CKE
CS-TZ71CKEW	230 V (indoor)	20 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-TZ71CKE

Wall-mounted BZ and UZ super-compact kits 1x1.

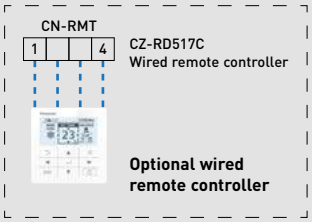
Indoor unit





Outdoor unit

Infrared remote controller (included in the delivery)



Single phase
Power supply
230 V / 50 Hz

Power supply to indoor or outdoor depending on model, see table.

Wall-mounted BZ super-compact · R32

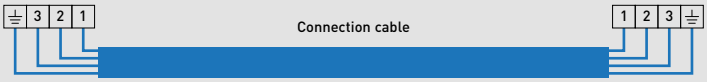
Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-BZ25CKE	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-BZ25CKE
CS-BZ35CKE	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-BZ35CKE
CS-BZ50CKE	230 V (indoor)	16 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-BZ50CKE
CS-BZ60CKE	230 V (indoor)	16 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-BZ60CKE

Wall-mounted UZ super-compact · R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-UZ25CKE	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-UZ25CKE
CS-UZ35CKE	230 V (indoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-UZ35CKE
CS-UZ50CKE	230 V (indoor)	16 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-UZ50CKE

Floor console kits 1x1.

Indoor unit



Outdoor unit

Infrared remote controller (included in the delivery)

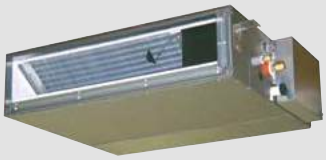
Single phase
Power supply
230 V / 50 Hz

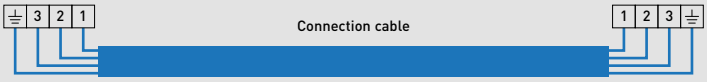
Floor console · R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-Z25CFEAW	230 V (outdoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z25CBEA
CS-Z35CFEAW	230 V (outdoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z35CBEA
CS-Z50CFEAW	230 V (outdoor)	16 A	3 x 2,5 mm²	4 x 1,5 mm²	CU-Z50CBEA

Low static pressure hide-away kits 1x1.

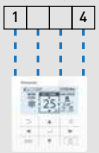
Indoor unit





Outdoor unit

CN-DISP



Wired remote controller (included in the delivery)

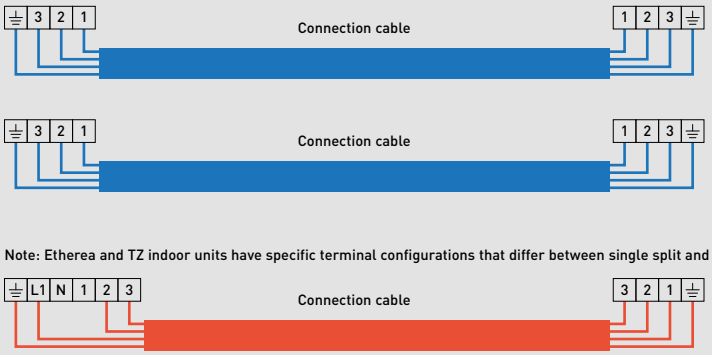
Single phase
Power supply
230 V / 50 Hz

Low static pressure hide-away · R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-Z25CD3EAW	230 V (outdoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z25CBEA
CS-Z35CD3EAW	230 V (outdoor)	15/16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z35CBEA
CS-Z50CD3EAW	230 V (outdoor)	16 A	3 x 2,5 mm²	4 x 1,5 mm²	CU-Z50CBEA
CS-Z60CD3EAW	230 V (outdoor)	16 A	3 x 2,5 mm²	4 x 1,5 mm²	CU-Z60CBEA

Multi system 2 rooms.

Indoor unit



Outdoor unit

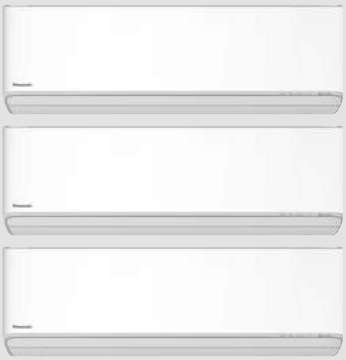
Single phase
Power supply
230 V / 50 Hz / 16 A

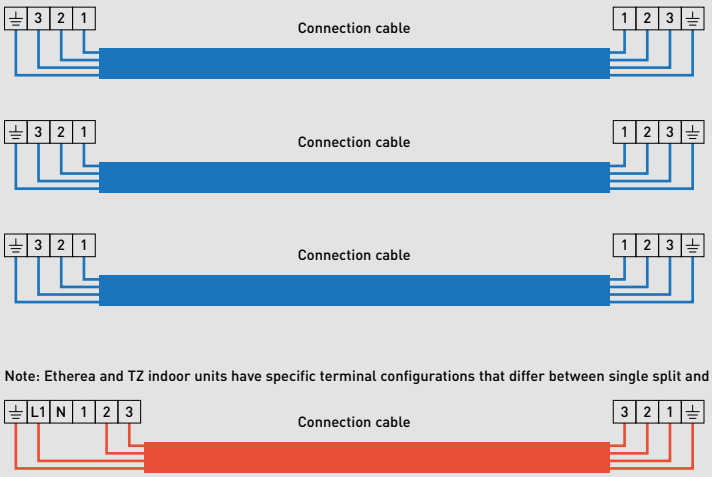
Multi system · R32

Outdoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor
CU-2Z35CBE	230 V	16 A	3 x 1,5 mm²	4 x 1,5 mm²
CU-2Z41CBE	230 V	16 A	3 x 1,5 mm²	4 x 1,5 mm²
CU-2Z50CBE	230 V	16 A	3 x 1,5 mm²	4 x 1,5 mm²
CU-2TZ41TBE	230 V	16 A	3 x 1,5 mm²	4 x 1,5 mm²
CU-2TZ50TBE	230 V	16 A	3 x 1,5 mm²	4 x 1,5 mm²
CU-2Z50ABEC	230 V	16 A	3 x 2,5 mm²	4 x 1,5 mm²

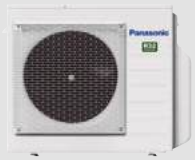
Multi system 3 rooms.

Indoor unit





Outdoor unit



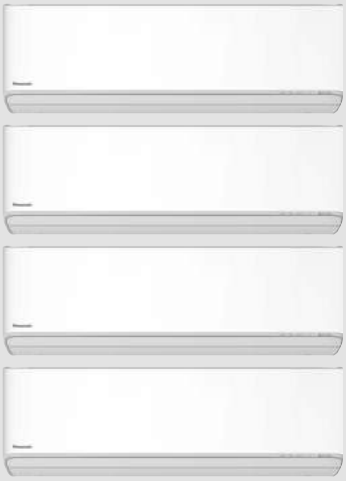
Single phase
Power supply
230 V / 50 Hz / 16 A

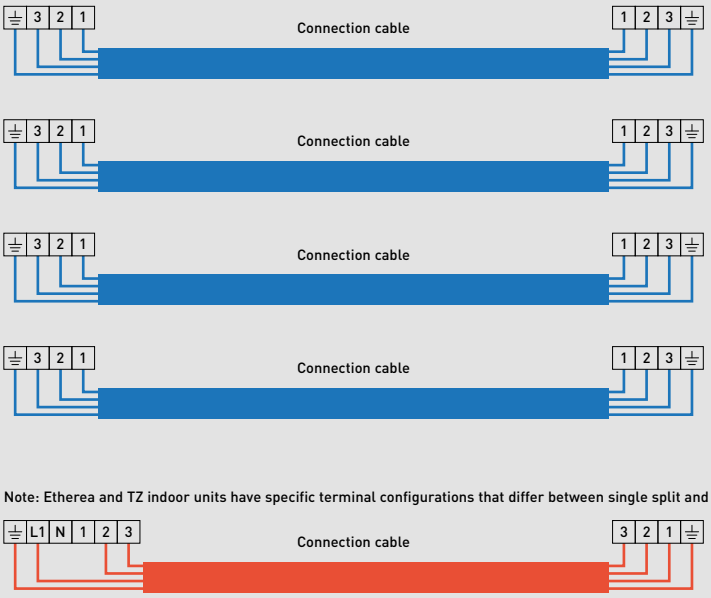
Multi system · R32

Outdoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor
CU-3Z52CBE	230 V	16 A	3 x 2,5 mm²	4 x 1,5 mm²
CU-3Z68CBE	230 V	20 A	3 x 2,5 mm²	4 x 1,5 mm²
CU-3TZ52TBE	230 V	16 A	3 x 2,5 mm²	4 x 1,5 mm²
CU-3Z75ABEC	230 V	16 A	3 x 2,5 mm²	4 x 1,5 mm²

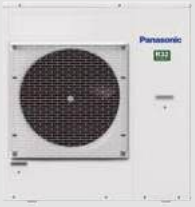
Multi system 4 rooms.

Indoor unit





Outdoor unit



Single phase
Power supply
230 V / 50 Hz / 20 A

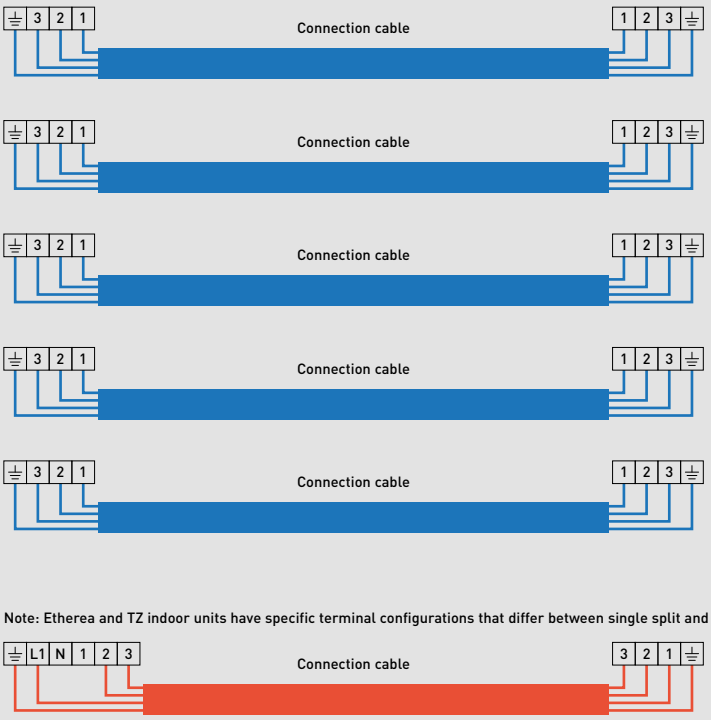
Note: Etherea and TZ indoor units have specific terminal configurations that differ between single split and multi split installations

Multi system · R32

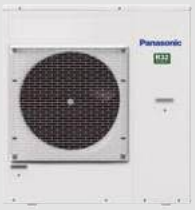
Outdoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor
CU-4Z68CBE	230 V	20 A	3 x 2,5 mm²	4 x 1,5 mm²
CU-4Z80CBE	230 V	25 A	3 x 4,0 mm²	4 x 1,5 mm²

Multi system 5 rooms.

Indoor unit



Outdoor unit



Single phase
Power supply
230 V / 50 Hz / 25 A

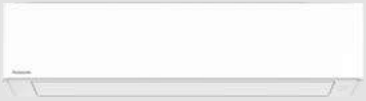
Note: Etherea and TZ indoor units have specific terminal configurations that differ between single split and multi split installations

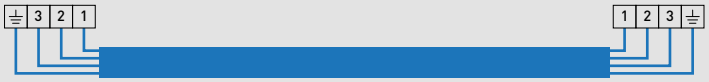
Multi system · R32

Outdoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor
CU-5Z90CBE	230 V	25 A	3 x 4,0 mm²	4 x 1,5 mm²

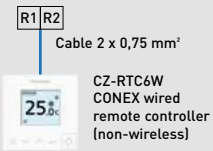
PACi NX wall-mounted kits 1x1.

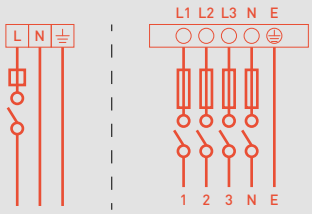
Indoor unit





Outdoor unit





Single phase
Power supply
230 V / 50 Hz / *

Three phase
Power supply
3 x 400 V / 1 N ~ 50 Hz / **

Single phase

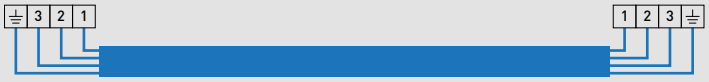
Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
S-2545PK4E	4 x 1,5 mm²	U-36PZH3E5		20 A
S-5010PK4E	4 x 1,5 mm²	U-50PZH3E5		20 A
S-5010PK4E	4 x 1,5 mm²	U-60PZH3E5		25 A
S-5010PK4E	4 x 2,5 mm²	U-71PZH4E5		25 A
S-5010PK4E	4 x 2,5 mm²	U-100PZH4E5		35 A
S-2545PK4E	4 x 1,5 mm²	U-25PZ3E5	220/230/240V	16 A
S-2545PK4E	4 x 1,5 mm²	U-36PZ3E5		16 A
S-5010PK4E	4 x 1,5 mm²	U-50PZ3E5		16 A
S-5010PK4E	4 x 1,5 mm²	U-60PZ3E5A		20 A
S-5010PK4E	4 x 1,5 mm²	U-71PZ3E5A		20 A
S-5010PK4E	4 x 2,5 mm²	U-100PZ3E5		35 A

Three phase

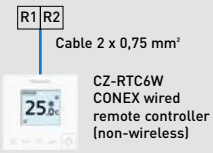
Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker**
S-5010PK4E	4 x 2,5 mm²	U-71PZH4E8		16 A
S-5010PK4E	4 x 2,5 mm²	U-100PZH4E8	380/400/415V	16 A
S-5010PK4E	4 x 2,5 mm²	U-100PZ3E8		16 A

PACi NX 4 way 60x60 cassette kits 1x1.

Indoor unit



Outdoor unit

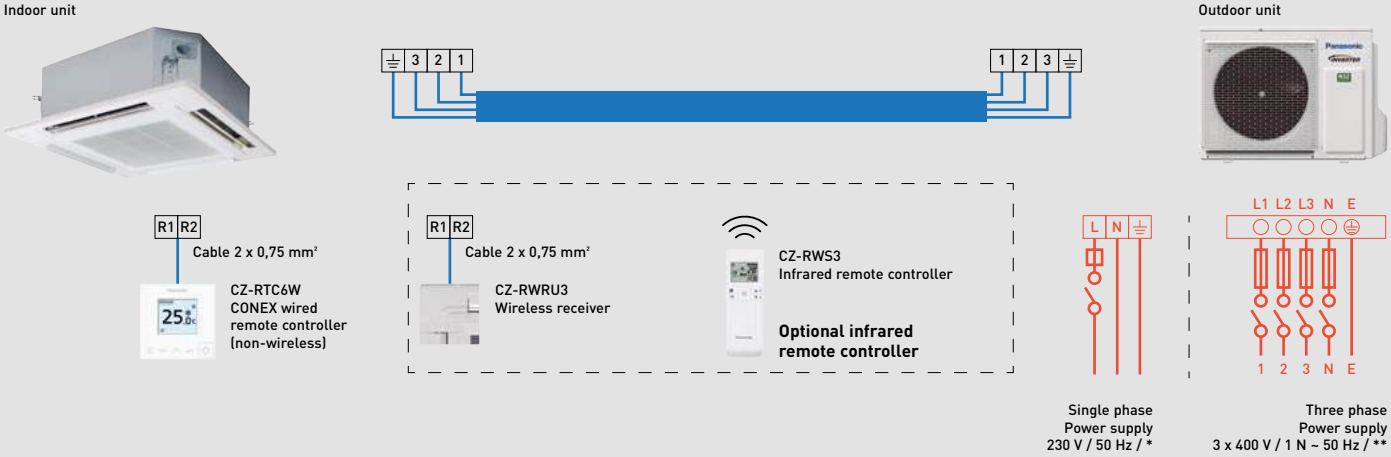


Single phase
Power supply
230 V / 50 Hz / 16 A

Single phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker
S-36PY3E	4 x 1,5 mm²	U-36PZH3E5		20 A
S-50PY3E	4 x 1,5 mm²	U-50PZH3E5		20 A
S-60PY3E	4 x 1,5 mm²	U-60PZH3E5		20 A
S-25PY3E	4 x 1,5 mm²	U-25PZ3E5	220/230/240 V	16 A
S-36PY3E	4 x 1,5 mm²	U-36PZ3E5		16 A
S-50PY3E	4 x 1,5 mm²	U-50PZ3E5		16 A
S-60PY3E	4 x 1,5 mm²	U-60PZ3E5A		20 A

PACi NX 4 way 90x90 cassette kits 1x1.



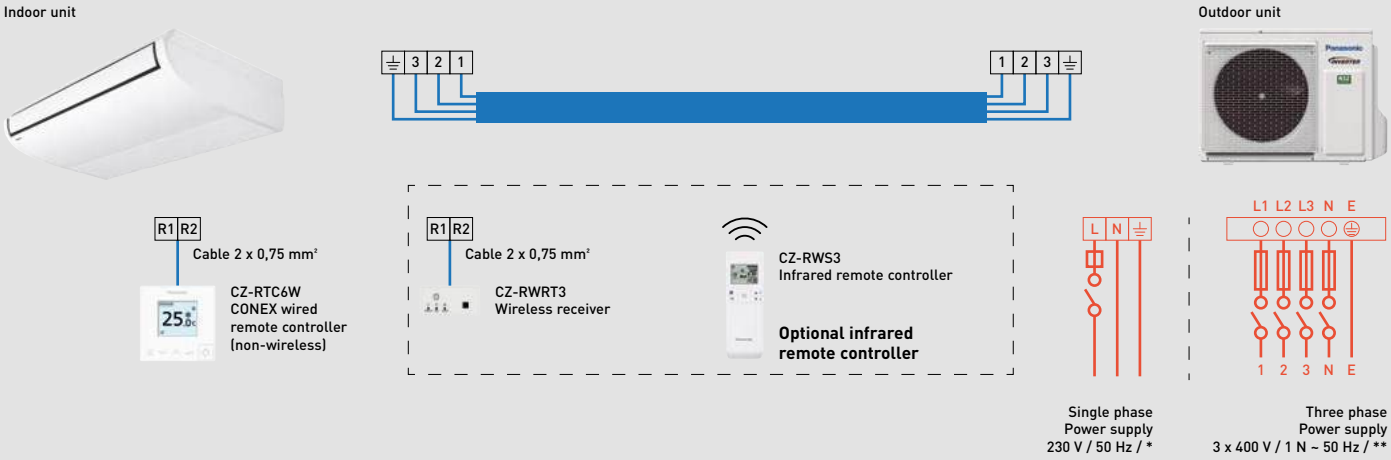
Single phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
S-3650PU3E	4 x 1,5 mm²	U-36PZH3E5	220/230/240 V	20 A
S-3650PU3E	4 x 1,5 mm²	U-50PZH3E5		20 A
S-6071PU3E	4 x 1,5 mm²	U-60PZH3E5		25 A
S-6071PU3E	4 x 2,5 mm²	U-71PZH4E5		25 A
S-1014PU3E	4 x 2,5 mm²	U-100PZH4E5		35 A
S-1014PU3E	4 x 2,5 mm²	U-125PZH4E5		40 A
S-1014PU3E	4 x 2,5 mm²	U-140PZH4E5		40 A
S-3650PU3E	4 x 1,5 mm²	U-36PZ3E5		16 A
S-3650PU3E	4 x 1,5 mm²	U-50PZ3E5		16 A
S-6071PU3E	4 x 1,5 mm²	U-60PZ3E5A		20 A
S-6071PU3E	4 x 1,5 mm²	U-71PZ3E5A		20 A
S-6010PU3E	4 x 2,5 mm²	U-100PZ3E5		35 A
S-1014PU3E	4 x 2,5 mm²	U-125PZ3E5		40 A
S-1014PU3E	4 x 2,5 mm²	U-140PZ3E5		40 A

Three phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker**
S-6071PU3E	4 x 2,5 mm²	U-71PZH4E8	380/400/415 V	16 A
S-1014PU3E	4 x 2,5 mm²	U-100PZH4E8		16 A
S-1014PU3E	4 x 2,5 mm²	U-125PZH4E8		16 A
S-1014PU3E	4 x 2,5 mm²	U-140PZH4E8		16 A
S-1014PU3E	4 x 2,5 mm²	U-100PZ3E8		16 A
S-1014PU3E	4 x 2,5 mm²	U-125PZ3E8		20 A
S-1014PU3E	4 x 2,5 mm²	U-140PZ3E8		20 A

PACi NX ceiling kits 1x1.



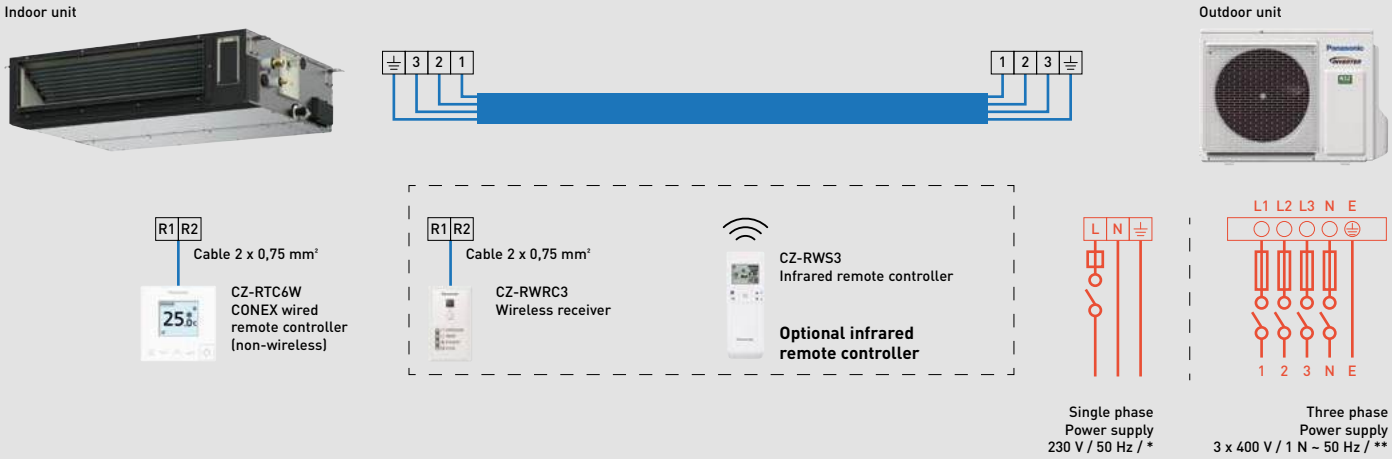
Single phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
S-3650PT3E	4 x 1,5 mm²	U-36PZH3E5	220/230/240 V	20 A
S-3650PT3E	4 x 1,5 mm²	U-50PZH3E5		20 A
S-6071PT3E	4 x 1,5 mm²	U-60PZH3E5		25 A
S-6071PT3E	4 x 2,5 mm²	U-71PZH4E5		25 A
S-1014PT3E	4 x 2,5 mm²	U-100PZH4E5		35 A
S-1014PT3E	4 x 2,5 mm²	U-125PZH4E5		40 A
S-1014PT3E	4 x 2,5 mm²	U-140PZH4E5		40 A
S-3650PT3E	4 x 1,5 mm²	U-36PZ3E5		16 A
S-3650PT3E	4 x 1,5 mm²	U-50PZ3E5		16 A
S-6071PT3E	4 x 1,5 mm²	U-60PZ3E5A		20 A
S-6071PT3E	4 x 1,5 mm²	U-71PZ3E5A		20 A
S-6010PT3E	4 x 2,5 mm²	U-100PZ3E5		35 A
S-1014PT3E	4 x 2,5 mm²	U-125PZ3E5		40 A
S-1014PT3E	4 x 2,5 mm²	U-140PZ3E5		40 A

Three phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker**
S-6071PT3E	4 x 2,5 mm²	U-71PZH4E8	380/400/415 V	16 A
S-1014PT3E	4 x 2,5 mm²	U-100PZH4E8		16 A
S-1014PT3E	4 x 2,5 mm²	U-125PZH4E8		16 A
S-1014PT3E	4 x 2,5 mm²	U-140PZH4E8		16 A
S-1014PT3E	4 x 2,5 mm²	U-100PZ3E8		16 A
S-1014PT3E	4 x 2,5 mm²	U-125PZ3E8		20 A
S-1014PT3E	4 x 2,5 mm²	U-140PZ3E8		20 A

PACi NX adaptive ducted unit kits 1x1.



Single phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
S-3650PF3E	4 x 1,5 mm²	U-36PZH3E5	220/230/240 V	20 A
S-3650PF3E	4 x 1,5 mm²	U-50PZH3E5		20 A
S-6071PF3E	4 x 1,5 mm²	U-60PZH3E5		25 A
S-6071PF3E	4 x 2,5 mm²	U-71PZH4E5		25 A
S-1014PF3E	4 x 2,5 mm²	U-100PZH4E5		35 A
S-1014PF3E	4 x 2,5 mm²	U-125PZH4E5		40 A
S-1014PF3E	4 x 2,5 mm²	U-140PZH4E5		40 A
S-3650PF3E	4 x 1,5 mm²	U-36PZ3E5		16 A
S-3650PF3E	4 x 1,5 mm²	U-50PZ3E5		16 A
S-6071PF3E	4 x 1,5 mm²	U-60PZ3E5A		20 A
S-6071PF3E	4 x 1,5 mm²	U-71PZ3E5A		20 A
S-6010PF3E	4 x 2,5 mm²	U-100PZ3E5		35 A
S-1014PF3E	4 x 2,5 mm²	U-125PZ3E5		40 A
S-1014PF3E	4 x 2,5 mm²	U-140PZ3E5		40 A

Three phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker**
S-6071PF3E	4 x 2,5 mm²	U-71PZH4E8	380/400/415 V	16 A
S-1014PF3E	4 x 2,5 mm²	U-100PZH4E8		16 A
S-1014PF3E	4 x 2,5 mm²	U-125PZH4E8		16 A
S-1014PF3E	4 x 2,5 mm²	U-140PZH4E8		16 A
S-1014PF3E	4 x 2,5 mm²	U-100PZ3E8		16 A
S-1014PF3E	4 x 2,5 mm²	U-125PZ3E8		20 A
S-1014PF3E	4 x 2,5 mm²	U-140PZ3E8		20 A

PACi NX multi zone duct unit.

Single phase

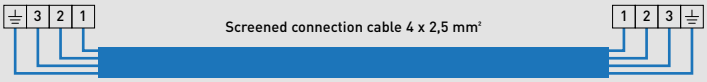
Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
S-7110PQ41E	4 x 1,5 mm²	U-71PZ3E5A	220/230/240 V	20 A
S-7110PQ41E	4 x 2,5 mm²	U-100PZ3E5		35 A
S-1014PQ51E	4 x 2,5 mm²	U-100PZ3E5		35 A
S-1014PQ51E	4 x 2,5 mm²	U-125PZ3E5		40 A
S-1014PQ51E	4 x 2,5 mm²	U-140PZ3E5		40 A

Three phase

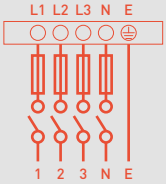
Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker**
S-7110PQ41E	4 x 2,5 mm²	U-100PZ3E8	380/400/415 V	16 A
S-1014PQ51E	4 x 2,5 mm²	U-100PZ3E8		16 A
S-1014PQ51E	4 x 2,5 mm²	U-125PZ3E8		20 A
S-1014PQ51E	4 x 2,5 mm²	U-140PZ3E8		20 A

Big PACi NX high static pressure hide-away 20,0-25,0 kW kits 1x1.

Indoor unit



Outdoor unit



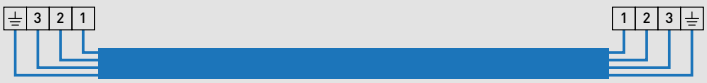
Three phase
Power supply
3 x 400 V / 1 N ~ 50 Hz / *

Three phase

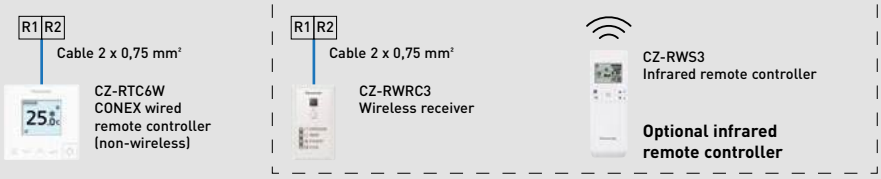
Indoor unit	Outdoor unit	Power supply	Circuit breaker*
S-200PE4E	U-200PZH4E8	380/400/415 V	20 A
S-250PE4E	U-250PZH4E8		25 A

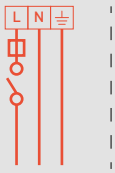
PACi NX Jet Air Stream.

Indoor unit

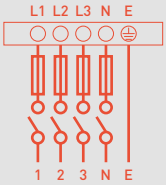


Outdoor unit





Single phase
Power supply
230 V / 50 Hz / *



Three phase
Power supply
3 x 400 V / 1 N ~ 50 Hz / **

Single phase

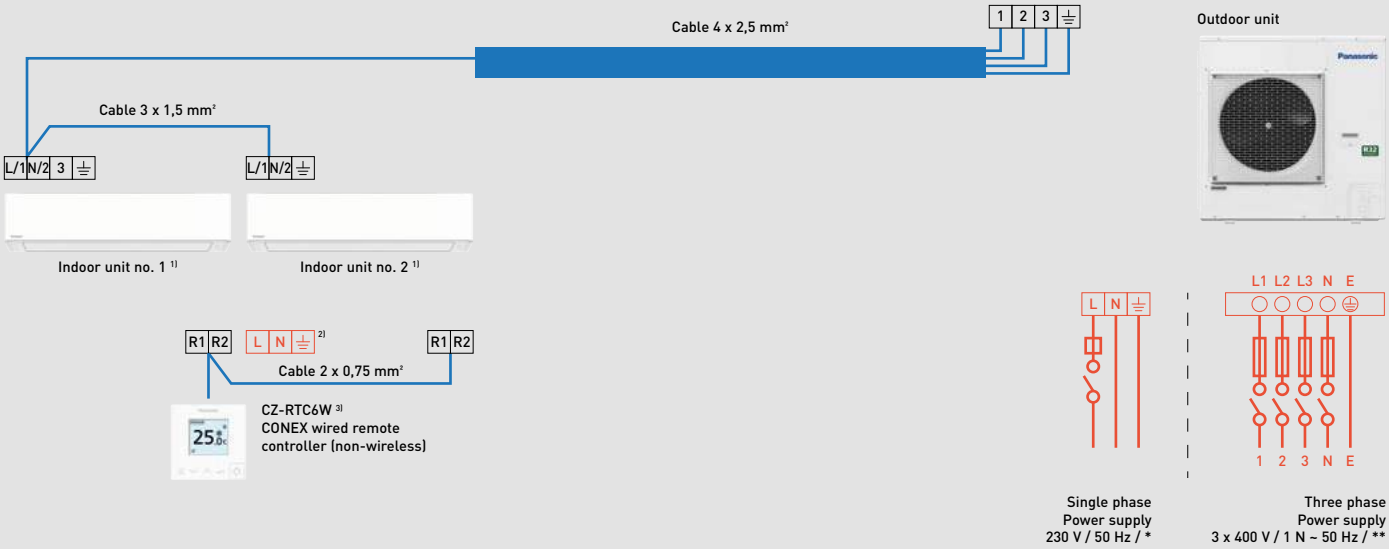
Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
P-VTVF140MC5A-PE	4 x 2,5 mm²	U-140PZH4E5	220/230/240 V	40 A

*Same wiring applies to both Standard (NC5) and Ducted (PC5) models.

Three phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker**
P-VTVF140MC5A-PE	4 x 2,5 mm²	U-140PZH4E8	380/400/415 V	16 A
P-VTVF250MC5A-PE	4 x 2,5 mm²	U-250PZH4E8		25 A

PACi NX twin system.



Single phase

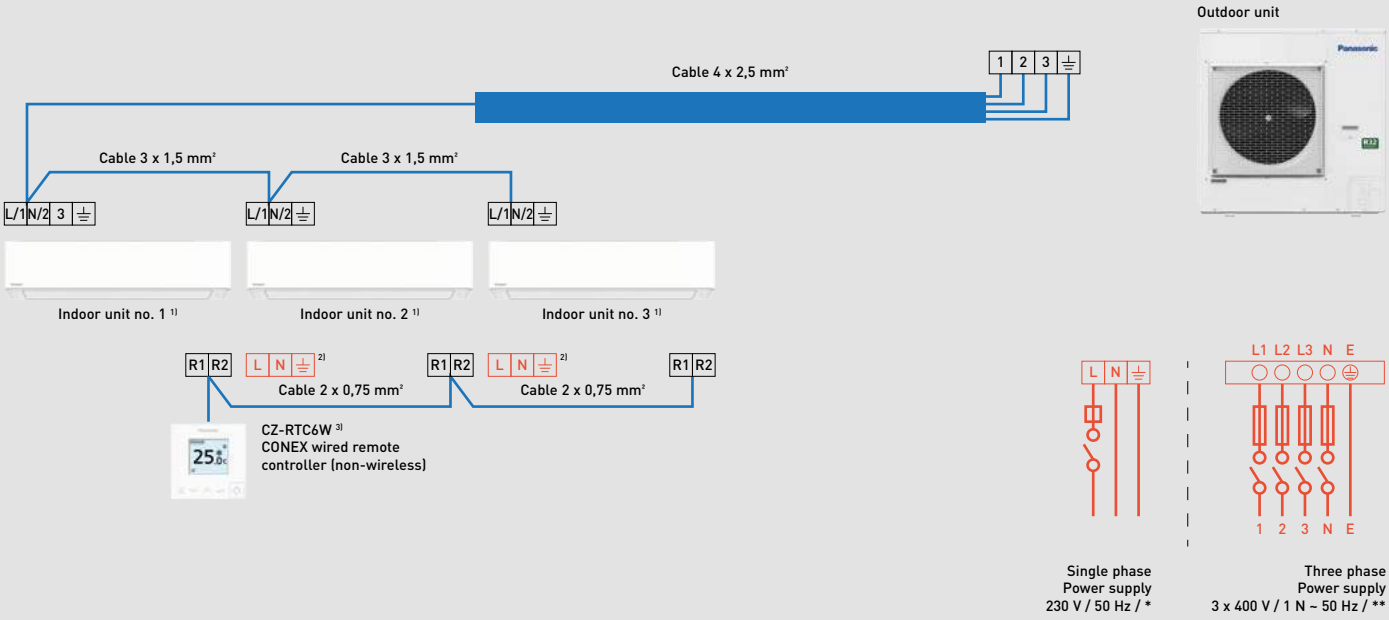
Outdoor unit	Power supply	Circuit breaker*
U-50PZH3E5	220/230/240 V	20 A
U-71PZH4E5		25 A
U-100PZH4E5		35 A
U-125PZH4E5		40 A
U-140PZH4E5		40 A
U-100PZ3E5		35 A
U-125PZ3E5		40 A
U-140PZ3E5		40 A

1) Available system combinations vary by indoor unit type. 2) Optional connection of single phase power supply connection to unit no. 2. Please refer to installation instructions for details.
3) Optional infrared remote controller is also possible. Wireless receivers may be required depending on indoor units.

Three phase

Outdoor unit	Power supply	Circuit breaker**
U-71PZH4E8	380/400/415 V	16 A
U-100PZH4E8		16 A
U-125PZH4E8		16 A
U-140PZH4E8		16 A
U-200PZH4E8		20 A
U-250PZH4E8		30 A
U-100PZ3E8		16 A
U-125PZ3E8		20 A
U-140PZ3E8		20 A

PACi NX triple system.



Single phase

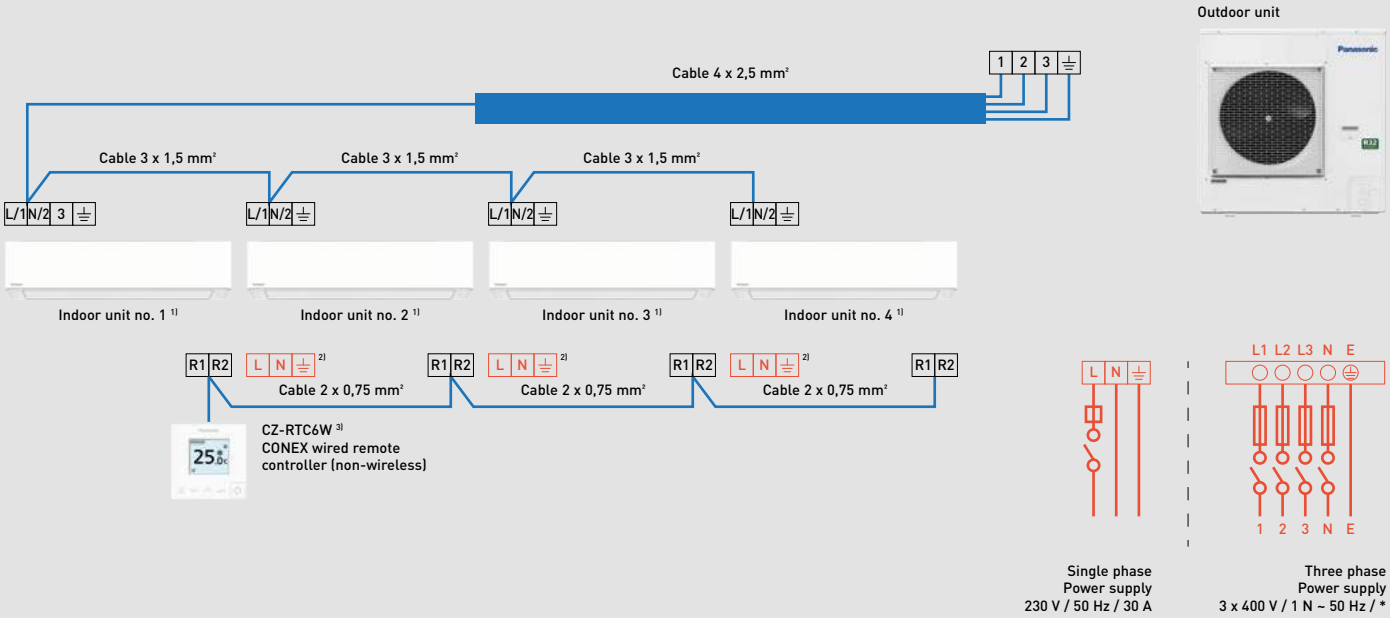
Outdoor unit	Power supply	Circuit breaker*
U-71PZH4E5	220 / 230 / 240 V	25 A
U-100PZH4E5		35 A
U-125PZH4E5		40 A
U-140PZH4E5		40 A

1) Available system combinations vary by indoor unit type. 2) Optional connection of single phase power supply connection to unit no. 2 and unit no. 3. Please refer to installation instructions for details. 3) Optional infrared remote controller is also possible. Wireless receivers may be required depending on indoor units.

Three phase

Outdoor unit	Power supply	Circuit breaker**
U-71PZH4E8	380 / 400 / 415 V	16 A
U-100PZH4E8		16 A
U-125PZH4E8		16 A
U-140PZH4E8		16 A
U-200PZH4E8		20 A
U-250PZH4E8		25 A

PACi NX double-twin system.



Single phase

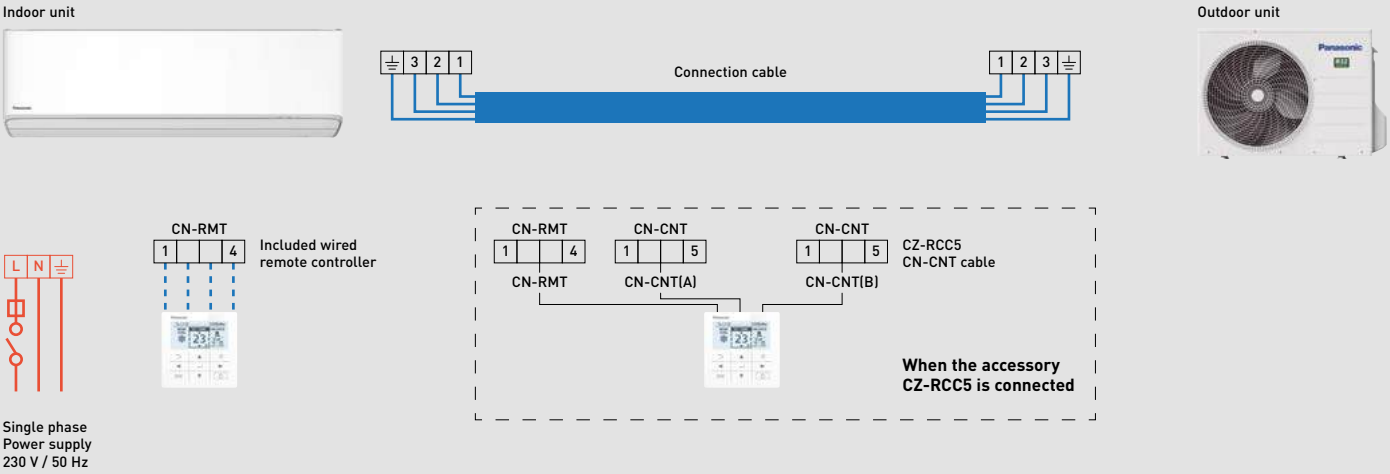
Outdoor unit	Power supply	Circuit breaker
U-100PZH4E5	220 / 230 / 240 V	35 A
U-125PZH4E5		40 A

1) Available system combinations vary by indoor unit type. 2) Optional connection of single phase power supply connection to unit no. 2, unit no. 3 and unit no. 4. Please refer to installation instructions for details. 3) Optional infrared remote controller is also possible. Wireless receivers may be required depending on indoor units.

Three phase

Outdoor unit	Power supply	Circuit breaker*
U-100PZH4E8	380 / 400 / 415 V	16 A
U-125PZH4E8		16 A
U-200PZH4E8		20 A
U-250PZH4E8		25 A

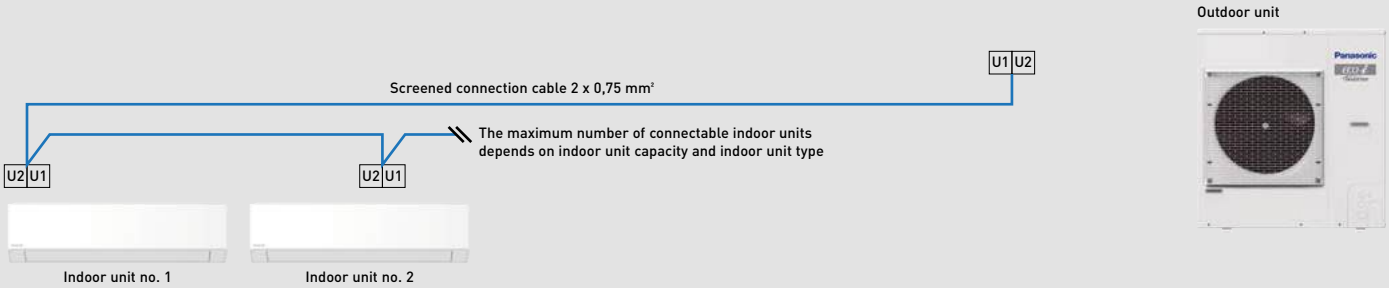
Wall-mounted Professional YKEA kits 1x1.

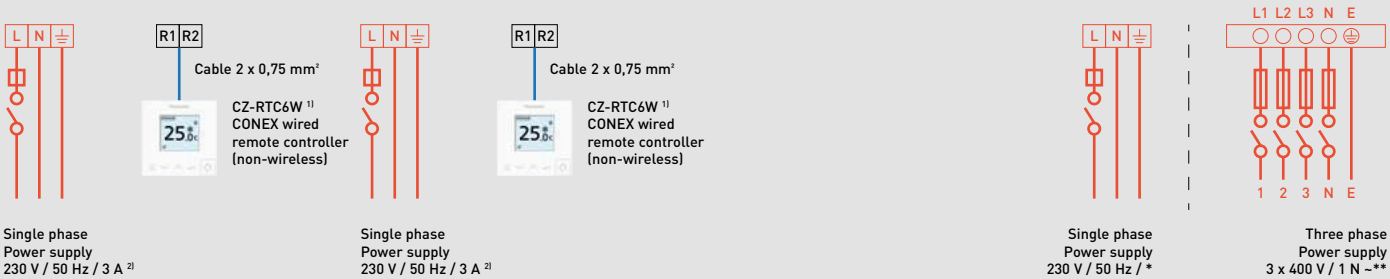


Wall-mounted Professional · R32

Indoor unit	Power supply	Recommended fuse	Connection indoor / outdoor	Outdoor unit
CS-Z25YKEA-1	230 V (indoor)	16 A	4 x 1,5 mm²	CU-Z25YKEA-1
CS-Z35YKEA-1	230 V (indoor)	16 A	4 x 1,5 mm²	CU-Z35YKEA-1
CS-Z42YKEA-1	230 V (indoor)	16 A	4 x 1,5 mm²	CU-Z42YKEA-1
CS-Z50YKEA-1	230 V (indoor)	16 A	4 x 2,5 mm²	CU-Z50YKEA-1
CS-Z71YKEA-1	230 V (indoor)	20 A	4 x 2,5 mm²	CU-Z71YKEA-1

Mini ECOi Series.





Single phase

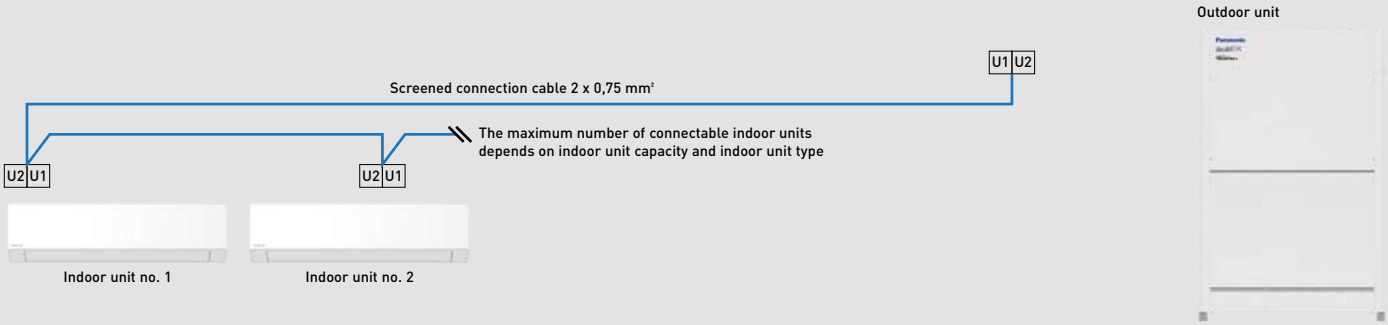
Outdoor unit	Power supply	Circuit breaker*
U-4LZ2E5	220/230/240 V	20 A
U-5LZ2E5		25 A
U-6LZ2E5		30 A
U-4LE2E5		20 A
U-5LE2E5		25 A
U-6LE2E5		30 A

1) Optional infrared remote controller is also possible. Wireless receivers may be required depending on indoor units.
2) 10 A for single indoor connection to S-224ME2E5 / S-280ME2E5, in combination with U-8LE1E8 / U-10LE1E8.

Three phase

Outdoor unit	Power supply	Circuit breaker**
U-4LZ2E8	380/400/415 V	10 A
U-5LZ2E8		16 A
U-6LZ2E8		16 A
U-8LZ2E8		16 A
U-10LZ2E8		20 A
U-4LE2E8		10 A
U-5LE2E8		16 A
U-6LE2E8		16 A
U-8LE1E8		16 A
U-10LE1E8		20 A

ECOi EX Series.



2-Pipe ECOi EX Series

Outdoor unit	Power supply	Circuit breaker**
U-8MZ1E8	380 / 400 / 415 V	20 A
U-10MZ1E8		25 A
U-12MZ1E8		25 A
U-8ME2E8		16 A
U-10ME2E8		16 A
U-12ME2E8		20 A
U-14ME2E8		25 A
U-16ME2E8		30 A
U-18ME2E8		40 A
U-20ME2E8		40 A

3-Pipe ECOi EX Series

Outdoor unit	Power supply	Circuit breaker**
U-8MF4E8	380 / 400 / 415 V	20 A
U-10MF4E8		25 A
U-12MF4E8		25 A
U-8MF3E8		25 A
U-10MF3E8		25 A
U-12MF3E8		30 A
U-14MF3E8		40 A
U-16MF3E8		40 A

1) Optional infrared remote controller is also possible. Wireless receivers may be required depending on indoor units.
2) 10 A for single indoor connection to S-224ME2E5 / S-280ME2E5.

Panasonic service

Our Panasonic Service teams are committed to ensuring your peace of mind. Best service is our aim.

Panasonic provides a team of highly trained technicians and engineers to deliver professional and responsive services that meet the highest levels of quality and safety while being efficient and cost effective.
To find out more about Panasonic Heating & Cooling Solutions, please visit **www.aircon.panasonic.eu**.

MAINTENANCE

To meet the requirements of the standard warranty, the product must be maintained and serviced annually by a suitably trained and qualified engineer. This way we can extend the lifetime of the product.

REPAIR

Panasonic offers a wide range of service agreements, like Panasonic Service+ for a maximized product lifetime. Leave the care of your Panasonic products to the experts. In the unlikely event that something goes wrong, trust one of our qualified and Panasonic trained experts to get things back on track.

WARRANTY

In accordance with the regulations, Panasonic guarantees its products against hidden defects. Moreover, Panasonic grants to the professional purchaser a commercial warranty, specific to the product families, subject to compliance of all the rules of installation and use of its products.

Panasonic Heating & Cooling Solutions customer service

Panasonic enables different channels for end users or professionals to get in touch with us:

Use our European website **www.aircon.panasonic.eu** for contacting us.
Panasonic has implemented a contact page on the Panasonic Heating & Cooling Solutions website for potential or existing Panasonic customers.

Another option is to contact the highly experienced teams at the Panasonic customer service centre, who are more than qualified to support Panasonic clients in 13 different languages across Europe.

Our service centre in Europe for end customers:

Country	B2C support centre	Opening times
Spain	900 82 87 87	Mo-Fr 9-17h
Portugal	800 78 22 20	Mo-Fr 9-17h
France	0800 805 215	Mo-Fr 9-17h
Italy	+39 02 6433235	Mo-Fr 9-17h
United Kingdom	0808 208 2115	Mo-Fr 9-17h
Ireland	1800 939 977	Mo-Fr 9-17h
Poland	800 080 911	Mo-Fr 9-17h
Denmark	+45 89 87 45 00	Mo-Fr 9-17h
Sweden	+46 85 221 81 00	Mo-Fr 9-17h
Finnland	+35 8646041590	Mo-Fr 9-17h

Country	B2C support centre	Opening times
Norway	+47 69 67 61 00	Mo-Fr 9-17h
Germany	+49 611 71187211	Mo-Sat 7-18h
Hungary	+36 1 700 89 65	Mo-Fr 9-17h
Switzerland DE	+41 415615366	Mo-Fr 9-17h
Switzerland FR	+41 435880049	Mo-Fr 9-17h
Switzerland IT	+41 435880048	Mo-Fr 9-17h
The Netherlands	+31 73 6402 538	Mo-Fr 9-17h
Belgium NL	+32 2 320 55 38	Mo-Fr 9-17h
Belgium FR	+32 2 320 55 38	Mo-Fr 9-17h
Luxemburg	+32 2 320 55 38	Mo-Fr 9-17h

www.aircon.panasonic.eu

Panasonic

heating & cooling solutions

Panasonic®

To find out how Panasonic cares for you, log on to: www.aircon.panasonic.eu

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Panasonic Heating & Ventilation Air-Conditioning Europe
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www.aircon.panasonic.eu

Ireland
Panasonic Heating & Cooling Solutions
1 The Courtyard, Kilcarbery Business Park, Nangor Road, Dublin D22 R791, Ireland
1800 939 977
www.aircon.panasonic.ie

France
Panasonic Solutions Chauffage & Refroidissement
Arboretum, Bâtiment Cèdre, 1 Place des Papeteries, 92000 Nanterre, France
0800 805 215 (France)

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Spain / Portugal
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WTC Almeda Park, plaza de la Pau s/n, Edificio 6, planta 4ª, Local D – 08940 Cornellà de Llobregat, Spain
900 82 87 87 (Spain)
800 78 22 20 (Portugal)
www.aircon.panasonic.eu

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Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of the other refrigerant.
The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.

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Please refer to the detailed technical data in the technical manuals for the final design and installation.

EU-GCAT0226/01

www.eggeassociats.net