Panasonic

DOMESTIC RANGE
2025 / 2026

PANASONIC TOTAL SOLUTION

ETHEREA

heating & cooling solutions

NORDIC HEAT PUMP

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.

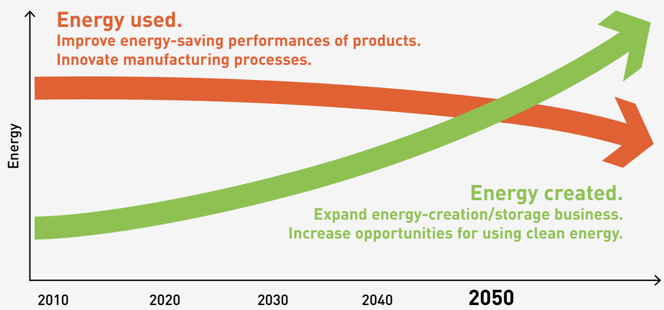
Energy used < Energy created

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.	10 Energy used
Clean energy created and / or made available by Panasonic products, etc.	1 Energy created

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 BLUE (50 – 640 kW*).

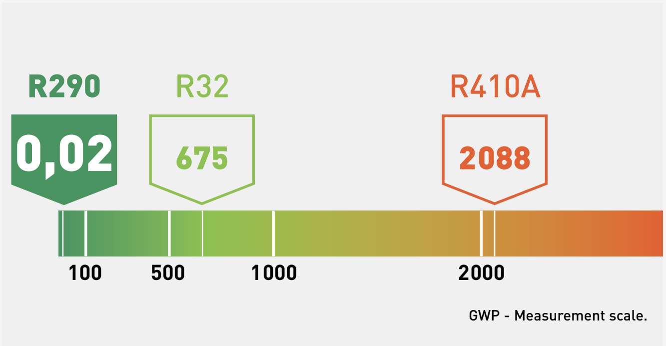
The R290 refrigerant technology has been integrated across a wide range of heating and cooling solutions, meeting both residential and commercial needs. These solutions are available in capacities from 5 to 640 kW*.

* Cascade control required.

Contributing to the decarbonisation of society.

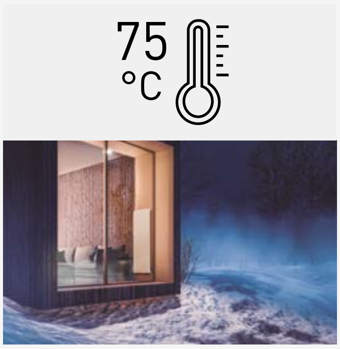
Natural refrigerant R290 has low Global Warming Potential (GWP) of just 0,02* (R32:675 and R410A: 2088), helping reduce CO_2 emissions and environmental impact. It's a green alternative solution for any residential and commercial projects and delivers outstanding performance, aligning with Panasonic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

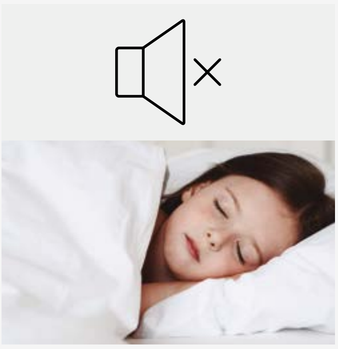


Industry leading Panasonic technology with natural refrigerant R290.

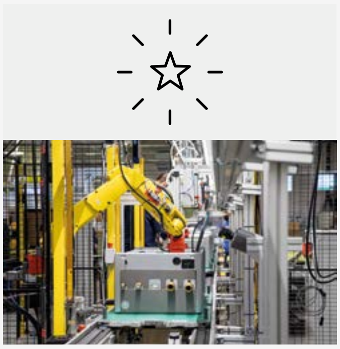
Panasonic's heating and cooling solution with R290 natural refrigerant, is not only a 'green solution' but also delivers outstanding performance to meet the demands of the most challenging projects. An ideal solution with high performance and quality, coupled with minimized environmental impact, making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

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, environmentally 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.

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

Panasonic ECOi-W series air cooled heat pumps 80 kW with sustainable R290 refrigerant were installed in a cascade system at an elementary school to provide energy-efficient heating.

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.

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.

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

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

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

Flumen Plus.
Residential passive house building.
Zaragoza, Spain.
PACi.

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

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

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

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

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

Nobelhorst.
Residential building.
Almere, Nederland.
Aquarea.

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

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

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

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

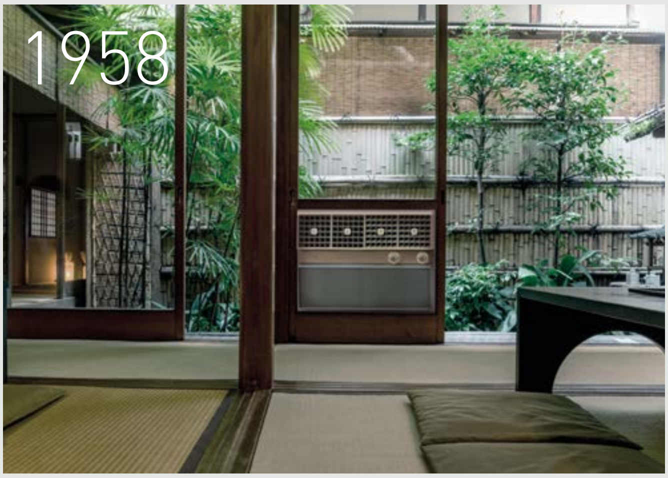
Pervalkos Jūra.
Residential.
Pervalka, Lithuania.
Aquarea.

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

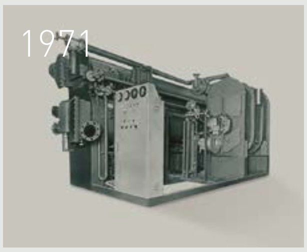
1989
Introduces world's first simultaneous 3-Pipe heating / cooling VRF System.

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.



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.

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

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 sustainable chiller solutions to suit a variety of commercial and industrial applications.

2023
Aquarea Heat Pumps with natural refrigerant R290.
—
New European factories 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.

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 CENTER

40 kW - 210 kW
ECOi-RT. Commercial Rooftop.

REFRIGERATION

MT: 2,5 - 42,0 kW, LT: 1,2 - 15,0 kW
iCORE / iCOOL ranges. Commercial refrigeration.

4 HP - 80 HP
ECOi, ECO G. Commercial VRF.
Peripherals: Air to air indoor units / Water Heat Exchanger / Connectivity.

150 m³/h - 2000 m³/h
Commercial ventilation.
Energy recovery ventilation with DX / Air curtains / AHU connection kit.

SERVICE AND MAINTENANCE

* Availability varies by country.

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.

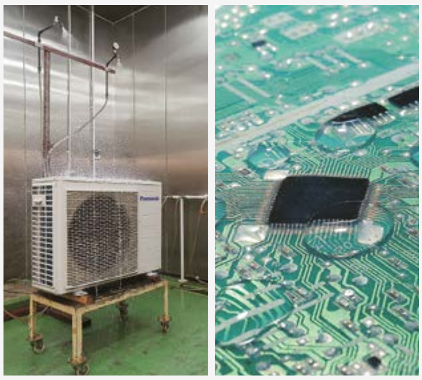
Sophisticated production process.
Panasonic's air conditioner production lines employ state-of-the-art factory automation technologies to ensure products are manufactured with high attention to quality to meet expectations of reliability and trustworthiness.

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

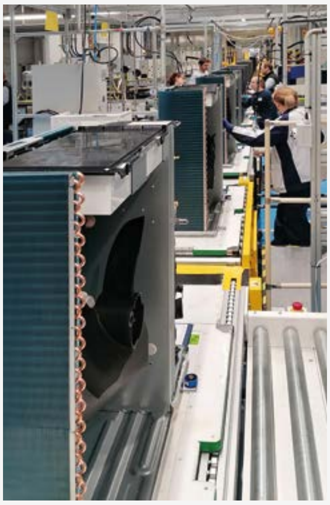
Panasonic – leading the way in Heating and Cooling.
With more than 50 years of experience, selling to more than 120 countries around the world, Panasonic is one of the leaders in the heating and cooling sector.
With a diverse network of production and R&D facilities, Panasonic delivers innovative products 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 environmentally 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 40 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

39 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 39 Training Center in 22 countries in Europe.

PRO Club. The professional website of Panasonic

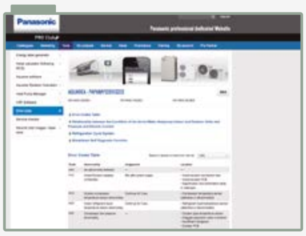
Panasonic has an impressive range of support services for designers, specifiers, engineers and distributors working in the heating and cooling markets.
Panasonic PRO Club (www.panasonicproclub.com) is the online tool which makes your life easier! You just have to register and a lot of functionalities are freely available to you, where ever 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.

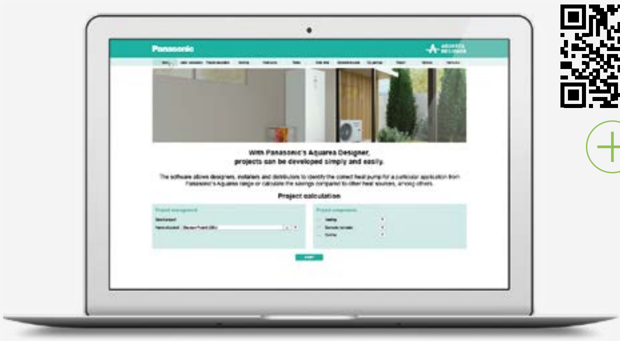
Visit www.panasonicproclub.com or connect simply with your smartphone to the PRO Club using this QR.

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.

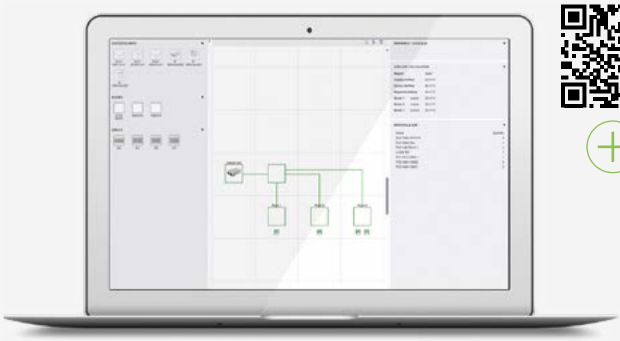
Aquarea Designer - online tool

With Panasonic's online tool, projects can be developed simply and easily. The newly developed tool is optimised to help HVAC professionals easily identify the most appropriate Aquarea air to water heat pump for a particular application.



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.

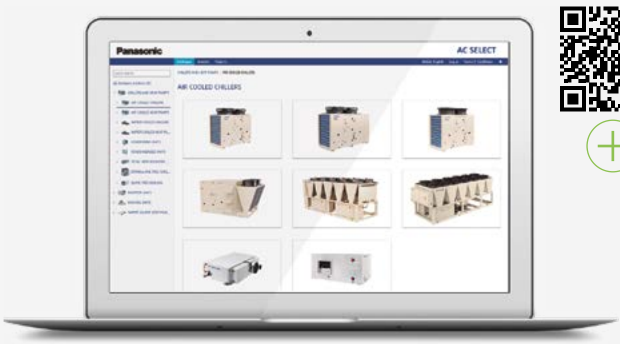


Panasonic DX PRO Designer

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.

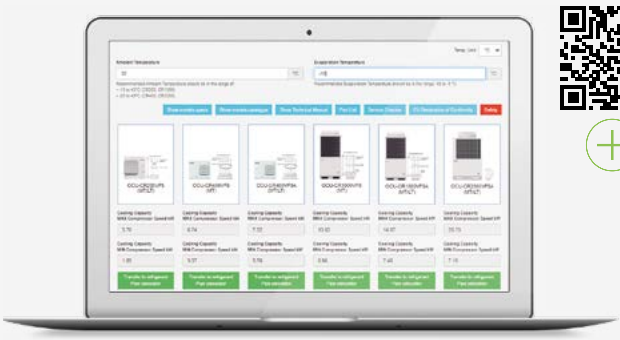
AC SELECT

Use AC SELECT to choose and configure your hydronic solution.
Panasonic online selection tool offers an easy and quick solution to specify all the hydronics ranges and rooftops at required conditions.



Refrigeration designer

This simple design tool supports engineers, installers, and technicians to make a quick calculation 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 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.

Panasonic heat pumps with top technology

To all that we then add sophisticated and elegant designs. Our heat pumps are like that: innovative inside and beautiful outside.
Panasonic's heat pumps are the heat source of choice for the future. Leadership isn't something you can just get. You have to show it. Which is why at Panasonic we strive each and every day to make our heat pumps highly reliable and surprisingly efficient, with minimum noise impact and the lowest environmental footprint possible.

Flagship. The high-efficiency air-to-air heat pump for Nordic usage.

FLAGSHIP

The best proof of our commitment is that we are leading the way in our industry sector by including the R32 refrigerant in our entire range of heat pumps for homes; this represents a huge technological advance that combines excellent comfort in the home and perfect harmony with the environment.

HZ Flagship – capable of more than you can imagine.
HZ Flagship is an energy-efficient air-to-air heat pump that is adapted to our Nordic climate. It provides a high level of efficiency even at really low outdoor temperatures, and a comfortable indoor climate with cleaner air. It is an excellent choice for residential houses as well as for summer or mountain cabins.
HZ Flagship is one of the best-selling air source heat pumps in the Nordic region.

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.

Panasonic air conditioners provide more savings and more comfort.

We believe that going green shouldn't compromise on comfort.
Our super silent air conditioners guarantee clean indoor air for you and your family. For a cleaner living environment, the nanoe™ X helps improve the quality of the indoor air as well as your surroundings. Together, these breakthrough technologies embody Panasonic's Eco Clean Life Innovation - innovations that improve our environment whilst making life as comfortable as possible.

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.

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+++ 10,50 SEER

Exceptional seasonal cooling efficiency based on the ErP regulation.
Higher SEER ratings mean greater efficiency and year-round cooling savings!

A+++ 6,20 SCOP

Exceptional seasonal heating efficiency based on the ErP regulation.
Higher SCOP ratings mean greater efficiency and year-round heating savings!

INVERTER+

Inverter Plus system.
Inverter Plus system classification highlights Panasonic's highest performing systems.

38% ECONAVI

Econavi. Sunlight sensor.
Sunlight Sensor technology can detect and reduce the waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.

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.

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 (30 dB(A)).

INSIDE CLEANING ON DEMAND

Inside 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.

FIREPLACE FUNCTION

Fireplace function.
The Fireplace function supports other heat sources by circulating the warm air throughout the space, even when the set temperature is reached.

AEROWINGS

More comfort with Aerowings.
Panasonic's Aerowings feature incorporates two blades that concentrate the airflow to cool or heat in the shortest possible time by distributing the air evenly throughout the room.

SUMMER HOUSE

Summer House.
This innovative function keeps the house at 8/10 or 8/15 °C to avoid freezing pipes during the winter. This function is beneficial for summer or weekend homes.

-25 °C HEATING MODE

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.

-15 °C COOLING MODE

Down to -15 °C in cooling mode.
The air conditioner works in cooling mode when the outdoor temperature of -15 °C.

5 YEARS COMPRESSOR WARRANTY

5 Years compressor warranty.
We guarantee the outdoor unit compressors in the entire range for five years.

High connectivity

INTEGRATION TO S-LINK

Domestic integration to S-Link - CZ-CAPRA1.
Can connect RAC range to S-Link. Full control is now possible.

WI-FI CONTROL

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

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.

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.

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

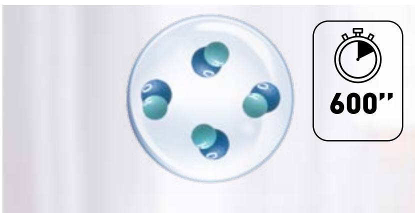
* From July 2024, the results apply to all other products with nanoe™ X devices, including heating and cooling.

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.

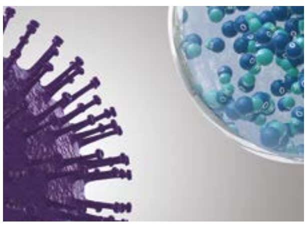


Hydroxyl radicals contained in water.

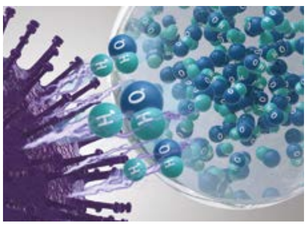
By creating hydroxyl radicals contained in water, nanoe™ X technology significantly boosts their effectiveness, increasing hydroxyl radicals lifetime from less than a second in nature, to more than 600 seconds – 10 minutes so that nanoe™ X can spread easily around the room.

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.

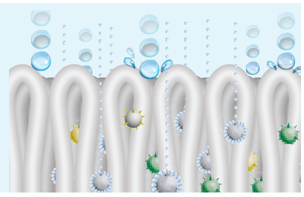
3 | Pollutants activity is inhibited.

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.

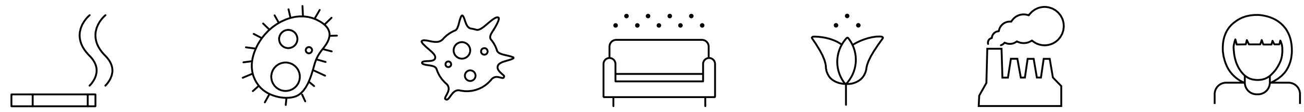
Maintenance-free.

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 | **Capacity to inhibit 5 types of pollutants** | **Moisturises**



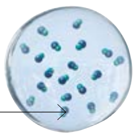
Odours | Bacteria and viruses | Mould | Allergens | Pollen | Hazardous substances | Skin and hair

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

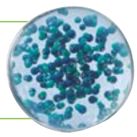
First nanoe™ device was developed by Panasonic in 2003

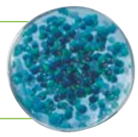
Introducing nanoe X Generator Mark 3, the latest of the continuously evolving nanoe™ X technology, it has the largest amount of hydroxyl radical in the history of nanoe™ (48 trillion hydroxyl radical per second, 100 times the traditional nanoe™). The increased number of hydroxyl radical, which are the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

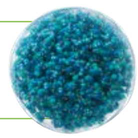
Generator: nanoe™	Generator: nanoe™ X		
2003	**Mark 1** - 2016	**Mark 2** - 2019	**Mark 3** - 2022
480 billion hydroxyl radicals/sec	4,8 trillion hydroxyl radicals/sec	9,6 trillion hydroxyl radicals/sec	48 trillion hydroxyl radicals/sec
Ion particle structure	10x times	20x times	100x times



Hydroxyl radicals







nanoeTM X, internationally-validated technology in testing facilities.

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

The nanoeTM X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoeTM 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 nanoeTM X might differ in real life environment.

Panasonic heat pump with nanoeTM 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 nanoeTM X in a space of 6,7 m^3 over 8 hours. Test report: 1140-01 C3.
Performance of nanoeTM 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 m^3	1,5 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2003WT8888-00889
		Bacteriophage ΦX174	Mark 1	99,2% inhibited	Approx. 25 m^3	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	Mark 1	99,7% inhibited	Approx. 25 m^3	4 h	Kitasato Research Center for Environmental Science	24_0301_1
Adhering	Virus	SARS-CoV-2	Mark 1	91,4% inhibited	6,7 m^3	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 m^3	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 m^3	4 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2002WT8888-00439
		Bacteriophage	**Mark 3**	98,81% inhibited	Approx. 139,3 m^3	4 h	SGS Inc	SHES210901902584
		MS2 Phage Virus	**Mark 3**	99,99% inhibited	Approx. 25 m^3	2 h	Shokukanken, Inc.	227131N
	Bacteria	Staphylococcus aureus	Mark 1	99,9% inhibited	20 m^3	8 h	Danish Technological Institute	868988
	Pollen	Cedar pollen	**Mark 3**	99%inhibited	Approx. 24 m^3	12 h	Panasonic Product Analysis Center	H21YA017-1
		Ambrosia pollen	Mark 1	99,4% inhibited	20 m^3	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Mark 1	Odour intensity reduced by 2,4 levels	Approx. 23 m^3	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04
			Mark 3	Odour intensity reduced 1,7 levels	Approx. 139,3 m^3	0,5 h	SGS Inc	SHES210901902478

Licensed in VDI 6022

Certification of a HVAC system under VDI 6022 guarantees that the system fulfills the market's strictest hygiene requirements.

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.

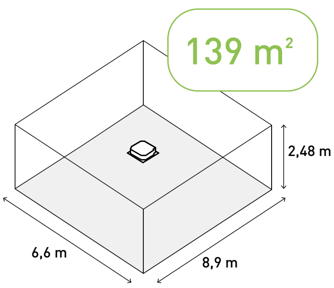
Panasonic nanoeTM X technology improving indoor air quality.

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.

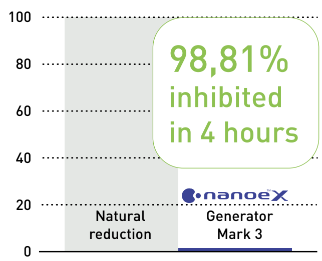
Effectiveness in large space with Generator Mark 3

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.

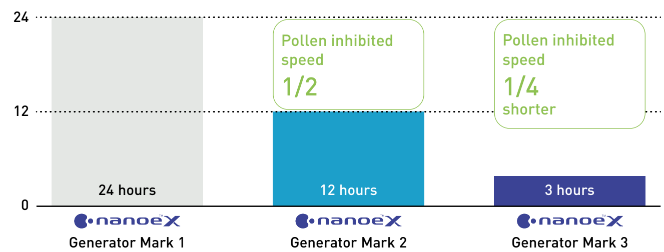


Test result (bacteriophage).



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 m^3 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 m^3. 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 m^3) [Method of inhibition] Release of nanoeTM [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 m^3) [Method of inhibition] Release of nanoeTM [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 m^3) [Method of inhibition] Release of nanoeTM [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

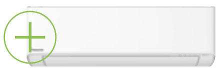
It has been adopted in people's homes as well as in public facilities where improved air quality is desired, such as offices, hospitals, healthcare centres and hotels etc.

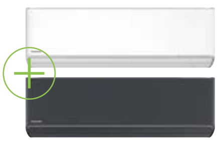
nanoe™ X: improving protection 24/7




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


Wall-mounted VZ Heatcharge.
Built-in nanoe™.


Wall-mounted NZ Etherea.
Built-in nanoe X Generator Mark 2.


Wall-mounted HZ Flagship.
Built-in nanoe X Generator Mark 3.


Floor console.
Built-in nanoe X Generator Mark 1.

nanoe™ X: improving protection 24/7

Heatcharge. Energy Charge System

heatcharge

Energy class A +++ and offers maximum comfort and energy savings. This powerful air heat pump is designed for commercial and residential climate that places extremely high demands on the heating system.

SEE PRODUCT SPECIFICATIONS

1 Powerful, reliable heating even at low ambient winter temperatures

When the air conditioner is operating, the compressor, which is the power supply of the unit, generates heat.
Until now, this heat was released into the atmosphere. Panasonic has utilised this waste heat!

Constant heating.
Using stored heat provides stable heating with less drop in temperature.
Even when heating operation stops during defrost operation, stored heat continues to constantly warm the room. This eliminates the previous discomfort due to the temperature dropping when heating temporarily stops to ensure stable air conditioner heating.

2 Panasonic's full line-up of A+++ heat pumps

In response to the Kyoto Protocol, the European Union set some challenging targets for the reduction in greenhouse-gas emissions. By the year 2020, across the member states, the EU wants to have achieved the following objectives:

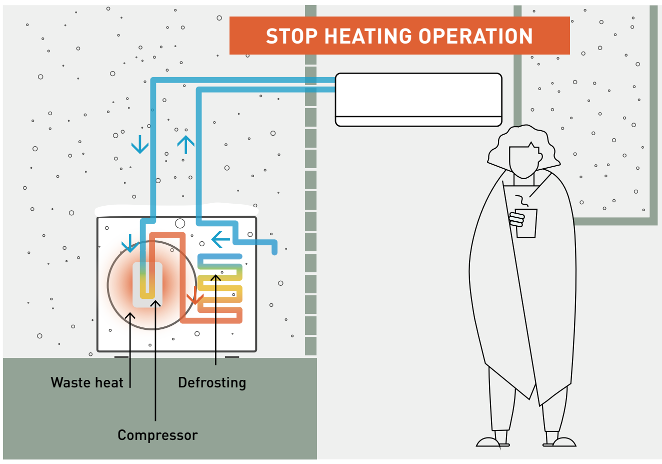
- A 20% cut in greenhouse gas emissions (from 1990 base levels)
- The share of renewables in the energy mix to increase by 20%
- An overall reduction of 20% in energy consumption

3 Comfort and efficiency

- nanoe™ technology with the benefits of hydroxyl radicals
- Higher efficiency and comfort with Econavi sunlight detection and human activity detection
- Powerful air flow to quickly reach the desired temperature

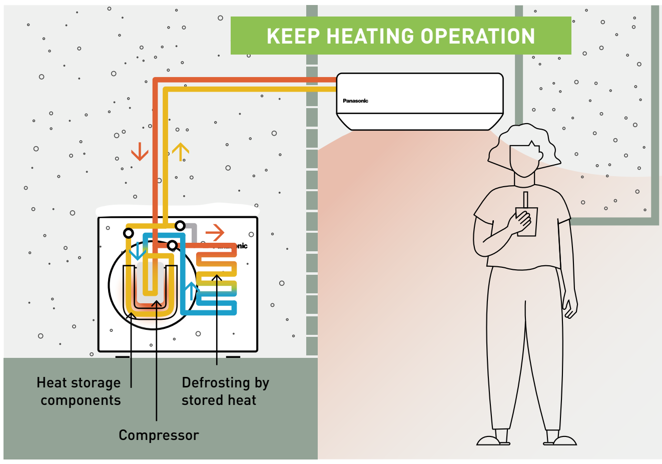
Conventional. The room gradually becomes cold.

Defrost operation: About 11 to 15 min. Fall in room temperature: About 5 to 6 °C.



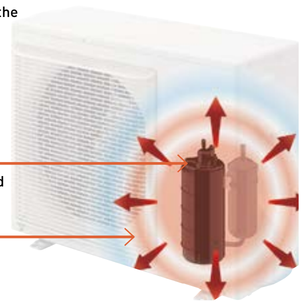
Heatcharge. The room is thoroughly warmed.

Defrost operation: About 5 to 6 min. Fall in room temperature: About 1 to 2 °C.



Conventional.

During operation, heat is generated inside the compressor.



Heatcharge.

Heat generated by the compressor is stored inside and used to warm the refrigerant to efficiently increase heating power.

Heatcharge.

The compressor is wrapped and exhaust heat is used for charging.

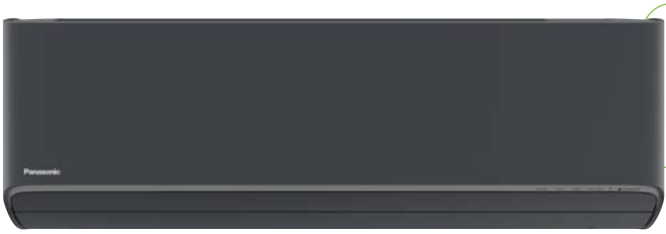
* Defrost operation time and how low room temperature falls differ depending on the environment in which the unit is being used (how insulated and airtight the room is), operation conditions, and temperature conditions. Output air temperature falls during defrost operation. How low room temperature falls differs depending on the environment in which the unit is being used (how insulated and airtight the room is), operation conditions, and temperature conditions. In environments where a lot of frost accumulates, heating may stop during defrost operation.

Flagship with nanoe™ X technology

FLAGSHIP

The smart, Flagship now comes with nanoe™ X technology with the benefits of hydroxyl radicals. With advanced control options, class-leading performance, a stylish design and intelligent features, Flagship is designed to make your home comfortable, cleaner and pleasant place to be even in extreme conditions.

Available in 2 colors



Built-in
nanoe X Generator Mark 3

BUILT-IN WI-FI

SEE PRODUCT SPECIFICATIONS

1 Air quality
- nanoe™ X technology with the benefits of hydroxyl radicals (Generator Mark 3)
- Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long
- Enhancing indoor unit inside cleanness together with nanoe™ X

2 Smart control
- Built-in Wi-Fi for instant connectivity, now with an easier and quicker set-up
- Advanced control via smartphone
- Compatible with Google Assistant and Amazon Alexa

3 Maximum heating capacity of 3,60 kW at -25 °C [1)]
- Exceptional maximum heating capacity even in low outdoor air temperature zones
- Top class energy efficiency up to A+++ in heating and cooling

1) 2,5 kW model. 3,5 kW model up to -20 °C.

4 Ultimate comfort
- Aerowings 2.0, end-to-end vanes enhance comfortable heating
- Super quiet ambient

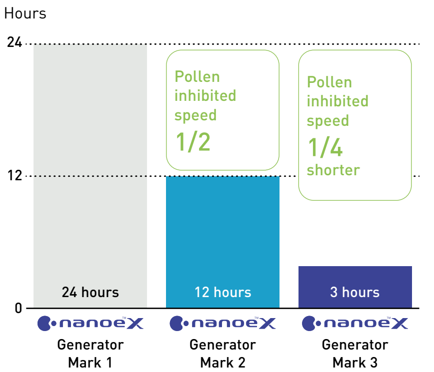
5 Design
- Available in graphite grey and matt white color
- Stylish, monolithic design
- Chassis and parts designed for easier installation and servicing
- High class, easy-to-use remote control with backlight

6 Fireplace function
The Fireplace function supports other heat sources by circulating the warm air throughout the space, even when the set temperature is reached.

nanoe™ X: Bringing nature's balance indoors
The Flagship comes with 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™ power, means you can expect an even higher level of performance.

Inside cleaning. The inside cleaning operation acts to clean the inside of indoor unit. It uses nanoe™ X technology that can inhibit certain adhered bacteria, viruses, and mould on the filter, evaporator and air outlet and filter up to 99%.

Comparison of time required to inhibit 99% of cedar pollen.



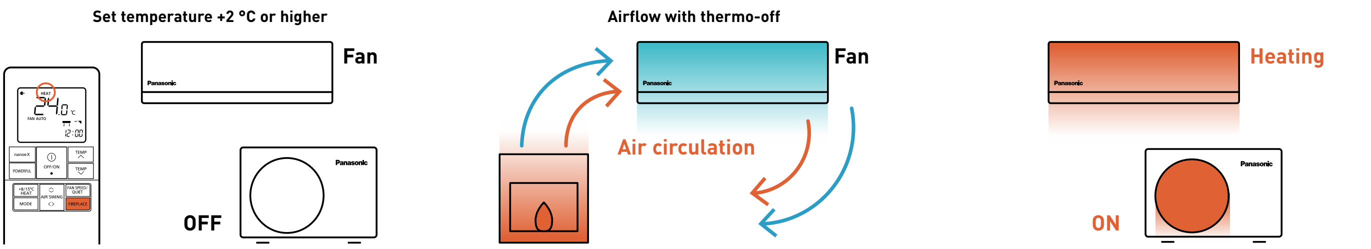
How does Fireplace function work?
This function increases the comfort at home and makes the use of the fireplace or other heat sources more efficient. When the indoor unit is installed in a room with an additional heating appliance (fireplace, oven, etc), when the set temperature is reached, it automatically turns to fan mode to maintain a uniform temperature throughout the space.

Step 1. Automatically switches to fan mode when temperature is stable.

Step 2. Circulate warm air from the fireplace throughout the space.

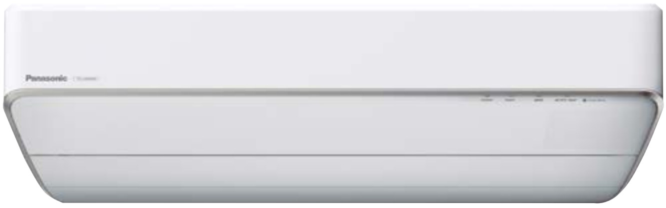
Step 3. When the indoor temperature goes lower than the set temperature, the unit automatically switches to heating mode.

Heating mode + Fireplace.
* Heating mode condition (exclude Summer House mode).



Wall-mounted LZ Retro Fit

Due to its well-thought-out design, LZ is perfect as a replacement pump. Only 249 mm high.



+ SEE PRODUCT SPECIFICATIONS

1 **The LZ series is perfect for replacing a 7–10 year old heat pump**

The LZ models are efficient and reliable even at outdoor temperatures as low as -35 °C.
Due to its well-thought-out design, LZ is perfect as a replacement pump.

2 **Only 249 mm high**

Only 249 mm high and fits perfectly above the front door for a discreet installation. Thanks to its thoughtful design, LZ is perfect as a replacement pump.

3 **Perfect as a replacement pump**

REPLACEMENT

LZ's design and dimensions are adapted to facilitate the replacement of an older Panasonic model. For example, the height of the inner section is the same as the older CKP and DKE models. This means that the existing position, e.g. above the outer door, can be retained. This is often not possible as the height of modern inner sections has generally increased. It is not necessary to replace the brackets behind the heat pump either and the pipe size is identical. Replacing a 10 year old heat pump with a new one is often a good investment. Modern heat pumps have a higher energy efficiency which benefits both the environment and your wallet. You will also benefit from new practical functions such as maintenance heating, remote control, better air purification and a timer setting.

Etherea with nanoe™ X technology

ETHEREA

Designed for the tough Nordic climate, the NZ models are powerful, highly efficient and reliable year-round. Due to its clever design, the NZ unit is also perfect as a replacement pump!

nanoeX

BUILT-IN WI-FI

SEE PRODUCT SPECIFICATIONS

1 Built-in Wi-Fi and compatible with Voice Assistant

The unit is ready to connect to the internet and to be controlled by a smartphone with the Panasonic Comfort Cloud App. Control, monitor, and schedule with an easy interface.
By connecting Panasonic Comfort Cloud the unit can be managed by Google Assistant and Amazon Alexa*.

* Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates
Google, Android™, Google Play and Google Home are trademarks of Google LLC.

2 Summer House

Keep your summer house, garage, or permit-free auxiliary building frost-free without using a lot of energy.

3 nanoe™ X: Bringing nature's balance indoors

Panasonic's nanoe™ X technology brings nature's detergent – hydroxyl radicals – indoors to help create a more ideal environment. 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.

nanoe™ X: Improving protection 24/7

nanoeX 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.

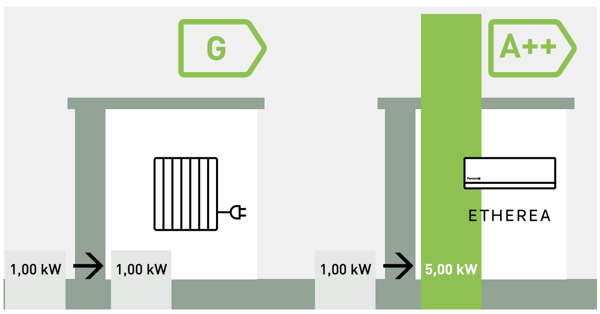
Cleans the air when you are away.
Leave the nanoe™ mode ON to inhibit certain pollutants and deodorise before you return home.

Improves your environment when you are at home.
Enjoy a cleaner, comfortable space with loved ones.

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.

4 High performance and energy savings

With improved SEER and SCOP, the unit provides high performance and energy savings. Stable heating operation can be provided even at an outside temperature of -25 °C.

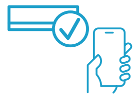


* SCOP on heating mode for CS-NZ25YKE-1 and CS-NZ35YKE-1 compared with electrical heaters at +7 °C.

Wall-mounted CZ super-compact design

The unit's chassis has been carefully re-designed for simple, stress-free installation and ongoing maintenance.

Heating possible at -25 °C



+ SEE PRODUCT SPECIFICATIONS

1 Smart control

· Built-in Wi-Fi for instant connectivity, now with an easier and quicker set-up
· Advanced control via smartphone
· Compatible with Google Assistant and Amazon Alexa

2 Super-compact design

The compact design of the indoor units have a width of just 779 mm. This allows for more installation possibilities, including the limited space above a door.
Structure for easier installation and servicing. Installation requires fewer steps and less time.

3 Perfect for your summer house

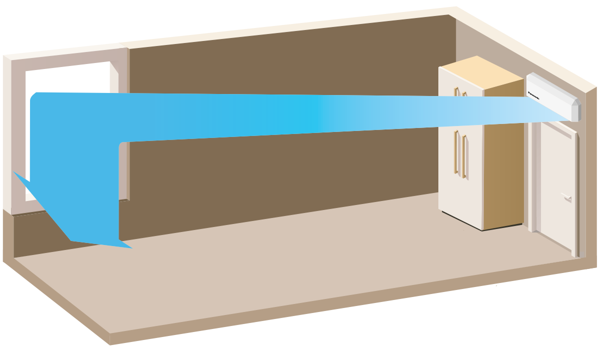
Thanks to its +8/+15 °C function, you can keep your summer house, garage, or permit-free auxiliary building frost-free without using a lot of energy.

4 Panasonic 1x4. Comfort year-round

With an installation you get an ideal indoor climate all year round: heating even at temperatures as low as -25 °C, or cooling, when the weather gets better.

Concentrated Airflow for more comfortable cooling

There are now two flaps to enable finer control of air flow direction.

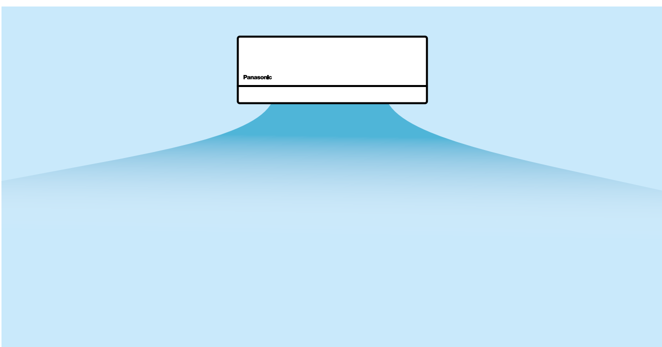


Fast cooling.
Aerowings twin flaps direct concentrated airflow downwards to cool you rapidly.

Shower cooling.
Shower air flow quickly spreads cool air across a room and up to the walls, and then it showers down gently.

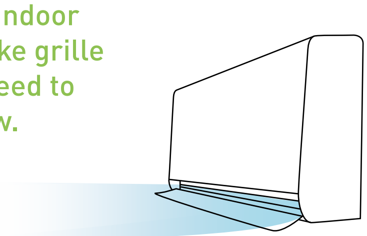
Aerowings

Panasonic's Aerowings feature incorporates two blades that concentrate air flow to cool you down in the shortest time possible. This also helps distribute cool air evenly throughout the room.



Comfort that goes on and on with Shower Cooling.
When the Aerowings twin blades direct air towards the ceiling they create the Shower Cooling effect.
This ensures cool air is evenly distributed throughout the room and you can stay comfortable without experiencing continuous direct cooling.

Panasonic Air Conditioners with Aerowings feature an indoor design with wider intake grille and super-high fan speed to produce bigger air flow.



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.

* Not applicable to VZ.

1 Simple installation

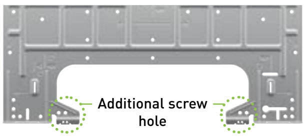
Thanks to advanced improvements, installation time has been dramatically decreased. The models have been designed to provide more stability and strength for neat installation, with newly built-in support and convenient access to the drain hose, cabling inserts and larger space for secure installation.

2 Easy maintenance

Meticulously designed for both installer and user 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. Electronics and wiring components are now on just one side of the unit to simplify maintenance.

1. Stronger installation plate.
The models feature a stronger, solid installation plate that provides more stability and strength. For uneven surfaces, there are 2 additional screws to ensure a neat and secure installation .

Installation plate: Strong and solid.



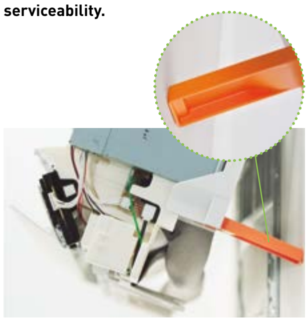
Screw holder for uneven surface (screws not provided).

2. One-piece front grille.
The model comes with a one-piece front grille design to make servicing easier. First, open the intake grille and remove the screws. Next, slide the three slider locks and remove the front grille.

One-piece front grille: Easy removal.

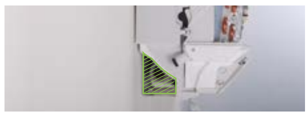
3. Built-in support holder.
The model features a built-in support holder, making installation easier and providing convenience and workspace improvements.

Convenient installation and serviceability.

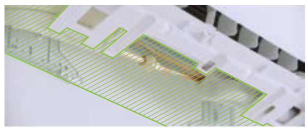


4. Easy access to drain hose and piping connection.
With larger piping space, pipes and insulations are securely and neatly hidden.
With the visible piping storage, pipes can easily be inspected for leaks without lifting the unit.

Piping storage: up to 15% larger (for TZ-ZKE).



Bigger working space.



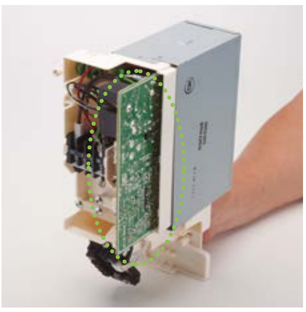
5. Easy wire insertion and tightening.
The models have combined 2 wire inserts into 1, ensuring front visibility and convenience while inserting wires from the back.

Single tunnel: easy wire insert.

Bigger working space for wiring connection.

6. Easy removal of PCB.
PCB removal is achieved in just 4 easy steps. Simply remove the control board cover, disconnect all connectors from the indicator, disconnect all connectors and pull out the main PCB.

Simple steps for PCB removal.



7. Easy / hidden installation of the Wi-Fi adapter.
The latest model features a dedicated space for a network adapter. Easy to plug in, the guided wire slots allow for clear, easy installation and can be neatly tucked away - simple and out of sight!

*** Only for models without built-in network adapter.**

8. Cross flow fan removal.
The models are carefully designed to make removal of cross flow fans easier compared to the previous models, saving valuable time.

Bigger diameter: up to Ø105 (for Z-ZKE).

Floor console. Efficient comfort and clean air all year round

Floor console with nanoe™ X technology: outstanding efficiency A++, comfort (Super Quiet technology only 20 dB(A)) and better air quality combined in a breakthrough design.

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.

+ SEE PRODUCT SPECIFICATIONS

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.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect (see page 20 for more detail). nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

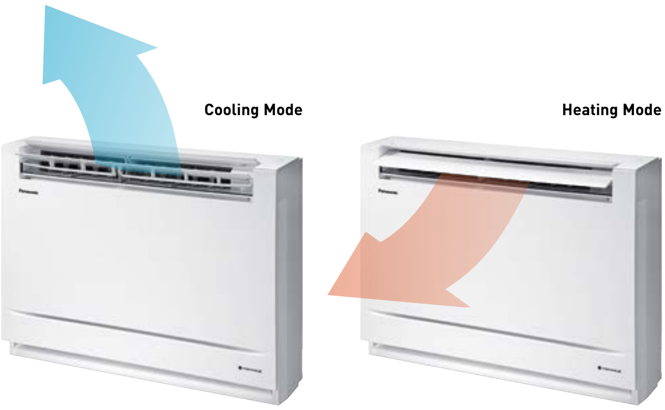
2 Super Quiet operation

When the system reaches its set temperature, the unit will operate at only 20 dB(A). Creating a comfortable home is not only by temperature - a quiet atmosphere is also important.

3 Designed to follow the high European demands

Super Quiet operation, highly efficient and technology to help clean the air.

Double air flow for improved comfort and temperature dispersion: through the top for an efficient operation



Stylish infrared control

Enjoy innovative design at your fingertips with the stylish and sleek Backlit Sky Controller. Bigger screen and easier to use.

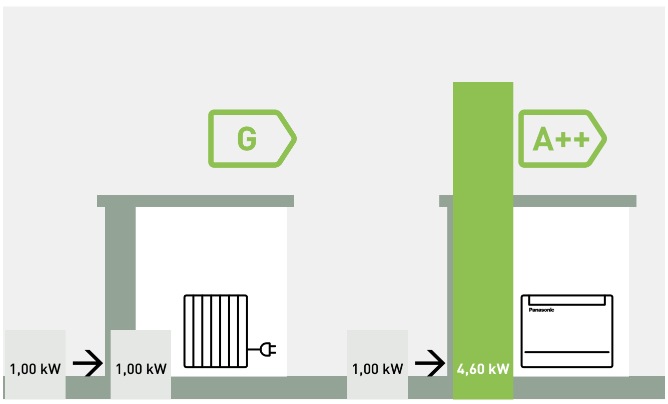
Easy to integrate into your home

A breakthrough design that integrates perfectly with any style. We have carefully selected materials and processes to create an elegant design. Compact in size and with a stylish design, the floor console will easily integrate into your home's interior decoration. There are four options available:

Floor installation | Wall installation | Half concealed | Concealed

High energy efficiency class A++

The floor console brings the outdoor heat energy inside. Can provide heat inside even when it is -15 °C outside.



* SCOP on heating mode for floor console type compared with electrical heaters at +7 °C.

The perfect solution for the replacement of old boiler heating systems

Power Heat Multi

Powerful heating and cleaner indoor air from a single outdoor unit.

The multi split system engineered for the Nordic climate.

Check out the installation of the Power Heat Multi at the Arctic Treehouse Hotel in Lapland, Finland.

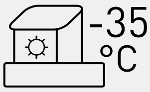
POWER HEAT

Powerful heating of two or three rooms with one outdoor unit, even at -35 °C low outdoor temperatures.

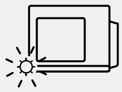
The multi split solution offers high flexibility, as 2 to 3 indoor units can be connected to a single outdoor unit. The wide range of compatible indoor units includes Flagship and NZ Etherea.

SEE PRODUCT SPECIFICATIONS

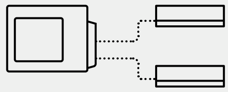
Reliable heating for Nordic winters.



Reliable heating even at -35 °C.

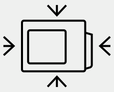


Equipped with base pan heater.

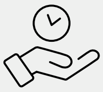


Compatible with Nordic indoor units HZ and NZ.

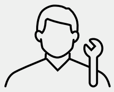
Reduces the burden of aesthetics, installation and maintenance.



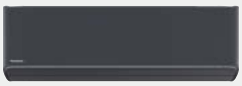
Seamless integration of outdoor unit.
Reduced outdoor unit space, harmonizing with building architecture.



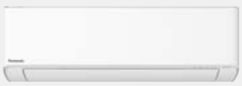
Reduced installation time.
Faster piping connection and pump-down time.



Excellent maintainability.
Advantageous under harsh conditions.



HZ Flagship



NZ Etherea

-35 °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: 4,40 kW for the 2-room model and 4,80 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 Nordic home exteriors without compromising aesthetics.

Connectable to the Nordic 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.

Welcome to the connected world of Panasonic Comfort Cloud App

Whether you are at home or at work, the Panasonic Comfort Cloud App puts total control of your indoor air quality at your fingertips.

Comfort Cloud

nanoe™ X: improving protection 24/7.

Monitor energy consumption.

Remote control.

Pre-heat or cool spaces.

Weekly timer.

Error notifications.

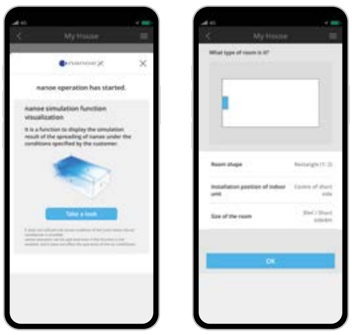
Voice Control.

nanoe™ X: improving protection 24/7

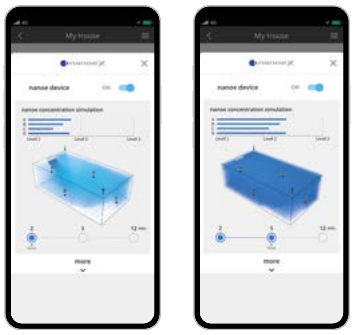
Panasonic Comfort Cloud App allows you to see the nanoe™ X coverage in your space through a simulation.

+ nanoe X

Turn nanoe™ X on easily with "One-touch nanoe™ button" on the main screen.



Select the room shape and size and the unit installation position.



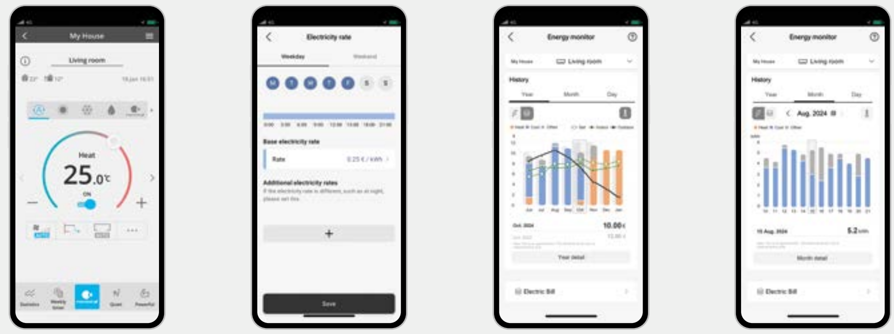
Observe the simulation of nanoe™ X concentration over time!

See page 20 for more detail.

Monitor energy consumption.

**Check the energy consumption of each unit at different time intervals to maximise energy savings and further reduce operation costs.
The electricity tariff can be set by the user and the app will provide the estimated electricity bill for the heat pump.**

* Electricity bill and energy consumption are estimated values. Actual usage may vary. For the multi split air conditioner, electricity bill and energy consumption will be the same for all indoor units.



The Panasonic Comfort Cloud Application enables you to conveniently manage and monitor multiple air conditioning units for homes from just one mobile device. Also, energy monitoring is possible allowing opportunity to learn how to reduce the operating cost even more.

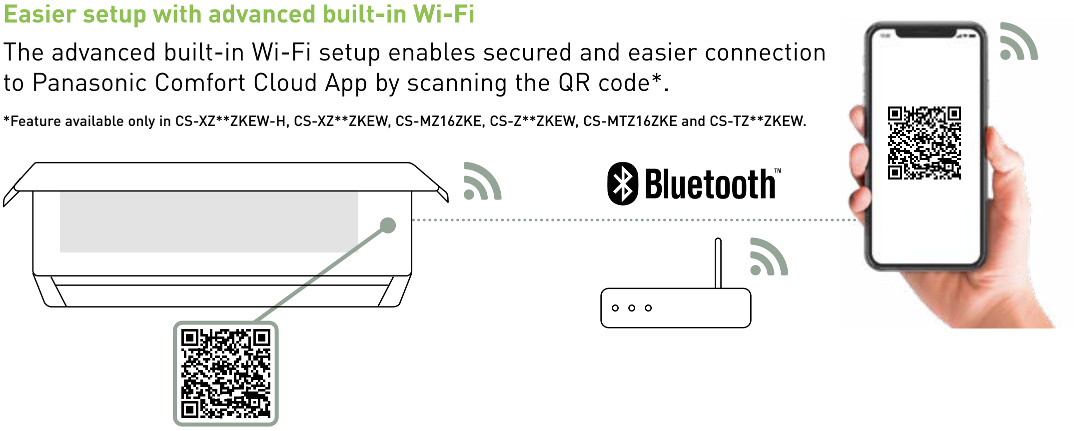
- Connectable up to 200 units* with just 1 device
- Compatible for both residential and commercial applications

* 10 different groups, with up to 20 units / per group.

Easier setup with advanced built-in Wi-Fi

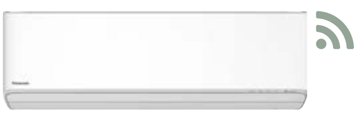
The advanced built-in Wi-Fi setup enables secured and easier connection to Panasonic Comfort Cloud App by scanning the QR code*.

*Feature available only in CS-XZ**ZKEW-H, CS-XZ**ZKEW, CS-MZ16ZKE, CS-Z**ZKEW, CS-MTZ16ZKE and CS-TZ**ZKEW.



Scan the QR code to enable easier Wi-Fi connectivity to the air conditioner.

Requirements for connecting with Panasonic Comfort Cloud App



Indoor unit with built-in Wi-Fi:
CS-HZ**ZKE-H, CS-HZ**ZKE,
CS-NZ**YKE-1, CS-CZ**ZKE.

Remark: indoor temperature display and some special functions are not available through the app for all models. Languages: 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.

Indoor unit with optional CZ-TACG1 Wi-Fi adapter:
CS-VZ**SKE, CS-LZ**TKE,
CS-Z**UFEAW-1.

Download free app: Panasonic Comfort Cloud App.

Other hardware requirements: Router and Internet (purchase and subscribe separately). Built-in Wi-Fi in certain models or with optional adaptor CZ-TACG1 connected to port CN-CNT. Panasonic Cloud Server is designed, operated and managed by 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 all 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.

Comfort Cloud

+

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 July 2024:

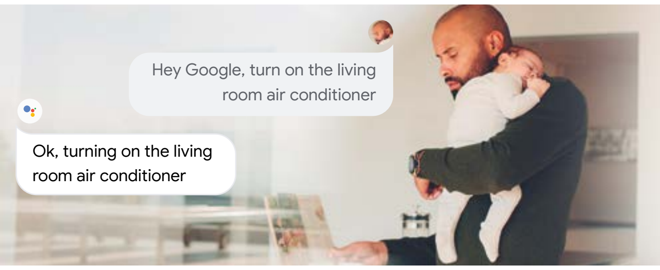
1. Android™ 8.1 or above
2. iOS 14.7 or above

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 page 46.

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.

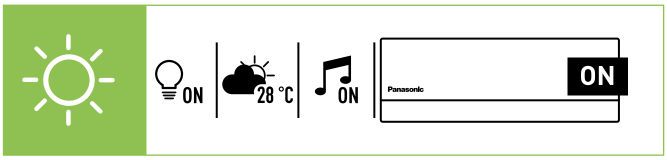
Get multiple things done with your voice

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	✔	—	✔
	Inside 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.

Wi-Fi adapter for smart control via Panasonic Comfort Cloud App

CZ-TACG1. Wi-Fi adaptor (optional)*.
· Optional Wi-Fi adaptor for domestic range
· Compact size for easy installation
· Available for built-in or exposed installation depending on model type

* Functionality varies depending on models. Please contact your local dealers for compatible models.

Specifications.
· Input voltage: DC 12 V
· Power consumption: Maximum 660 mW
· Size (H x W x D): 66 x 36 x 12 mm
· Mass: Approx. 85 g
· Interface: 1 x Wireless LAN
· Wireless LAN standard: IEEE 802,11 b/g/n
· Frequency range: 2,4GHz band
· Encryption: WPA2-PSK (TKIP/AES)

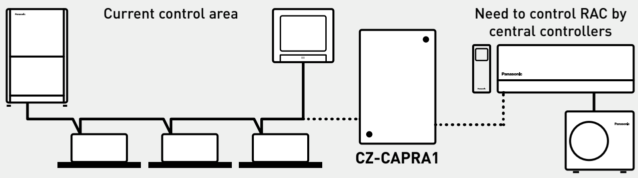
Domestic integration to S-Link

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 / 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

PAW-AC-KNX-1i (Intesis), PAW-AC-MBS-1 (Intesis), PAW-AC-BAC-1 [1] (Intesis), PAW-AZAC-KNX-1 (Airzone), PAW-AZAC-MBS-1 (Airzone) and PAW-AZAC-BAC-1 (Airzone).
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
· External power not required
· 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.

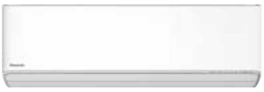
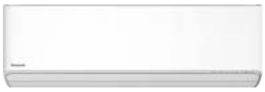
Easy connectivity

CN-CNT port easy to access in all indoor units, without dismanteling the unit to reach the connector. Can easier connect: Wireless accessory / KNX / Modbus / BACnet / CZ-TACG1 / CZ-CAPRA1 to integrate to PACi control.

Model name	Interface
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
CZ-CAPRA1	RAC interface adapter for integration into S-Link, plus external input and alarm/status output
PAW-AC-KNX-1i	KNX interface. Can be used with all models which have a CN-CNT connector (Intesis)
PAW-AC-MBS-1	Modbus interface. Can be used with all models which have a CN-CNT connector (Intesis)
PAW-AC-BAC-1	BACnet interface. Can be used with all models which have a CN-CNT connector (Intesis)

Model name	Interface
PAW-AZAC-KNX-1	KNX interface. Can be used with all models which have a CN-CNT connector (Airzone)
PAW-AZAC-MBS-1	Modbus interface. Can be used with all models which have a CN-CNT connector (Airzone)
PAW-AZAC-BAC-1	BACnet interface. Can be used with all models which have a CN-CNT connector (Airzone)
PAW-AC-DIO	This interface can be used with all models which have a CN-RMT connector

Domestic air conditioner R32 range

Page	Single split units	2,5 kW	3,5 kW	5,0 kW
P. 48	**Wall-mounted** **VZ Heatcharge · R32**	 CS-VZ9SKE CU-VZ9SKE	 CS-VZ12SKE CU-VZ12SKE	
P. 49	**Wall-mounted** **HZ Flagship · R32**	 CS-HZ25ZKE-H CU-HZ25ZKE	 CS-HZ35ZKE-H CU-HZ35ZKE	
		 CS-HZ25ZKE CU-HZ25ZKE	 CS-HZ35ZKE CU-HZ35ZKE	
P. 50	**Wall-mounted** **LZ Retro Fit · R32**	 CS-LZ25TKE CU-LZ25TKE	 CS-LZ35TKE CU-LZ35TKE	
P. 51	**Wall-mounted** **NZ Etherea · R32**	 CS-NZ25YKE-1 CU-NZ25YKE	 CS-NZ35YKE-1 CU-NZ35YKE	 CS-NZ50YKE-1 CU-NZ50YKE
P. 52	**Wall-mounted** **CZ super-compact · R32**	 CS-CZ25ZKE CU-CZ25ZKE	 CS-CZ35ZKE CU-CZ35ZKE	
P. 53	**Floor console · R32**	 CS-Z25UFEAW-1 CU-Z25UFEA-1	 CS-Z35UFEAW-1 CU-Z35UFEA-1	

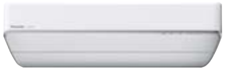
Page	Stand-alone units	1,7 kW	2,0 kW	2,5 kW	3,0 kW
P. 59	**RAC Solo · R290 / R32** 	P-MOG16IC5-E	P-MOZ20IC5-E	P-MOZ25IC5-E	P-MOZ30IC5-E

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.

Choose the correct model

Please contact an installer/dealer for assistance in choosing the correct model or use the guide below.

VZ Heatcharge	HZ Flagship	LZ Retro Fit 249	NZ Etherea	CZ super-compact	Floor console
					
The top model for cold areas	The best seller for larger houses	The perfect replacement model	The design model	The budget model	The floor model
Tested by 3rd party laboratory down to -35 °C					
✔ SP [1]		✔ DTI [2]			✔ DTI [2]
Lowest sound level (18 dB(A))					
✔	✔	✔			
Air purification					
✔ nanoe™	✔ nanoe™ X Mark 3	✔	✔ nanoe™ X Mark 2		✔ nanoe™ X Mark 1
Maximum capacity					
9,20 kW	7,90 kW	7,65 kW	8,30 kW	6,70 kW	6,20 kW
Home 190-230 sq. m					
✔					
Home 150-190 sq. m					
✔	✔	✔			
Home 100-150 sq. m					
	✔	✔	✔		✔
Home 50-100 sq. m					
		✔	✔	✔	✔
Summer House					
✔	✔	✔	✔	✔	✔
Garage / Shed / Permit-free building					
			✔	✔	✔
SCOP					
6,20 A+++	**5,30 A+++**	**5,17 [3] A+++ [4]**	**5,00 A++**	**4,30 A+**	**4,79 [3] A++**
No cold air dumping when defrosting					
✔					
Highest energy class (A+++)					
✔	✔	✔			
R32 refrigerant					
✔	✔	✔	✔	✔	✔
Compatible with Internet control					
✔	Included	✔	Included	Included	✔
Summer cottage function					
✔	✔	✔	✔	✔	✔
Econavi					
✔					
Replacement model					
		✔	✔		

1) -35 °C tested by SP, in accordance with EN 14511:2013 and SP Method 1721 (this temperature is not guaranteed by the factory). 2) -35 °C tested by DTI, an independent test laboratory, in accordance with EN 14511:2013 (this temperature is not guaranteed by the factory). 3) SCOP tested by the independent testing laboratory, DTI, in accordance with EN 14825:2016. 4) A+++ has been calculated on the basis of the SCOP test performed by the Danish Technological Institute. The test report from the Danish Technological Institute can be found at: lz25test.panasonic.se

In order to maximize comfort and savings, it is important that you choose the correct model of your heat pump. A heat pump with too little or too much power will not be able to provide the desired savings. A heat pump with an insufficient air flow rate will not manage to distribute heat in a larger building. A heat pump without remote control reduces comfort and control in the summer house.

Wall-mounted VZ Heatcharge · R32

- Energy Charge System. Heat storage unit which utilizes non-stop heating and fast heating function
- Econavi Sunlight Detection sensor: Even higher efficiency and great comfort
- nanoe™ technology to improve protection 24/7
- Super Quiet! Only 18 dB(A), equivalent to night-time in the countryside
- Performance tested at -35 °C outdoor temperature

Optional

Maximum capacity			**7,80 kW**	**9,20 kW**
Indoor unit			**CS-VZ9SKE**	**CS-VZ12SKE**
Outdoor unit			**CU-VZ9SKE**	**CU-VZ12SKE**
Heating capacity	Nominal (Min - Max)	kW	3,60 (0,60 - 7,80)	4,20 (0,60 - 9,20)
COP [1]		W/W	5,63	5,04
Heating capacity at -7 °C		kW	5,00	5,60
COP at -7 °C [1]		W/W	2,07	2,00
Heating capacity at -15 °C		kW	4,80	5,22
COP at -15 °C [1]		W/W	1,94	1,90
Heating capacity at -25 °C (tested by SP)		kW	3,72	3,67
COP at -25 °C (tested by SP)		W/W	1,63	1,50
Heating capacity at -35 °C (tested by SP)		kW	2,51	2,44
COP at -35 °C (tested by SP)		W/W	1,32	1,15
SCOP [2]			**6,20 A+++**	**5,90 A+++**
Pdesign at -10 °C		kW	3,60	4,20
Input power	Nominal (Min - Max)	kW	0,64 (0,14 - 2,72)	0,83 (0,14 - 3,16)
Annual energy consumption [3]		kWh/a	812	995
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,60 - 3,00)	3,50 (0,60 - 4,00)
SEER [1]			**10,50 A+++**	**10,00 A+++**
Pdesign (cooling)		kW	2,50	3,50
Input power	Nominal (Min - Max)	kW	0,43 (0,14 - 0,61)	0,80 (0,14 - 0,98)
Annual energy consumption [3]		kWh/a	83	122
Indoor unit				
Power supply		V	230	230
Connection indoor / outdoor		mm²	4 x 1,5	4 x 1,5
Air flow	Heat / Cool (Hi)	m³/min	15,5 / 12,5	15,9 / 12,9
Sound pressure [4]	Heat (Hi / Lo / Q-Lo)	dB(A)	44 / 26 / 18	45 / 29 / 18
	Cool (Hi / Lo / Q-Lo)	dB(A)	44 / 27 / 18	45 / 33 / 18
Dimension	H x W x D	mm	295 x 798 x 375	295 x 798 x 375
Net weight		kg	14,5	14,5
Outdoor unit				
Air flow	Heat / Cool (Hi)	m³/min	33,1 / 33,1	33,9 / 35,4
Sound pressure [4]	Heat / Cool (Hi)	dB(A)	49 / 49	50 / 50
Dimension [5]	H x W x D	mm	630 x 799 x 299	630 x 799 x 299
Net weight		kg	39,5	39,5
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
Pipe length range		m	3 ~ 15	3 ~ 15
Elevation difference (in / out)		m	12	12
Pre-charged pipe length		m	7,5	7,5
Additional gas amount		g/m	20	20
Refrigerant (R32) / CO_2 Eq.		kg / T	1,05 / 0,70875	1,10 / 0,7425
Operating range	Heat Min ~ Max	°C	-30 ~ +24	-30 ~ +24
	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43
Lowest outdoor temperature tested by 3rd party laboratory [6]		°C	-35	-35

1) COP calculation is based in accordance to EN14511. 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. 6) Tested by 3rd party laboratory, SP, according to EN14511:2013 and SP Method 1721, this temperature is not guaranteed by Factory.

Accessories	
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into S-Link

P CERTIFIED SP RI. SE

The product is P-labelled. The P-labelling means that the product fulfils legal and regulatory requirements, but also in most cases, other, higher requirements that meet market demands. P-labelling means that the product is type approved and that the manufacturer's quality controls are monitored by SP. Certificated No.: SC0450-16. Certificated No.: SC0451-16.

R32 REFRIGERANT · A+++ 10,50 SEER · A+++ 6,20 SCOP · 38% ECONAVI · INVERTER+ · R2 ROTARY COMPRESSOR · nanoe · 18 dB(A) · -35 °C HEATING MODE TESTED BY SP · SUMMER HOUSE · INTEGRATION TO S-LINK · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

SEER and SCOP: For CS-VZ9SKE. -35 °C HEATING MODE: Heating performance tested at -35 °C by SP, European third party laboratory. INTERNET CONTROL: Optional.

Wall-mounted HZ Flagship · R32

- nanoe™ X technology to improve protection 24/7 (nanoe X Generator Mark 3).
- Sleek and stylish design in matt white and graphite grey
- Improved SEER / SCOP to achieve top class energy efficiency
- Fireplace function and Aerowings 2.0 for the ultimate comfort
- Easy-to-use remote controller
- Built-in Wi-Fi for instant connectivity via Panasonic Comfort Cloud App
- Compatible with Google Assistant and Amazon Alexa
- Chassis and parts designed for easier installation

Built-in

Maximum capacity			**7,50 kW**	**7,90 kW**
Indoor unit graphite grey			**CS-HZ25ZKE-H**	**CS-HZ35ZKE-H**
Indoor unit matt white			**CS-HZ25ZKE**	**CS-HZ35ZKE**
Outdoor unit			**CU-HZ25ZKE**	**CU-HZ35ZKE**
Heating capacity	Nominal (Min - Max)	kW	3,20 (0,85 - 7,50)	4,20 (0,85 - 7,90)
COP 1)		W/W	5,61	5,00
Heating capacity at -7 °C 2)		kW	5,00	5,12
COP at -7 °C 1)		W/W	2,58	2,56
Heating capacity at -15 °C 2)		kW	4,78	5,00
COP at -15 °C 1)		W/W	2,54	2,53
Heating capacity at -20 °C 2)		kW	4,20	4,30
COP at -20 °C 1)		W/W	2,40	2,36
Heating capacity at -25 °C 2)		kW	3,60	3,70
COP at -25 °C 1)		W/W	2,22	2,20
SCOP 3)			**5,30 A+++**	**5,30 A+++**
Pdesign at -10 °C		kW	3,20	4,00
Input power	Nominal (Min - Max)	kW	0,57 (0,17 - 2,16)	0,84 (0,17 - 2,25)
Annual energy consumption 4)		kWh/a	845	1057
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,60)	3,50 (0,85 - 4,60)
SEER 3)			**8,80 A+++**	**8,60 A+++**
Pdesign (cooling)		kW	2,50	3,50
Input power	Nominal (Min - Max)	kW	0,46 (0,17 - 0,83)	0,80 (0,17 - 1,20)
Annual energy consumption 4)		kWh/a	99	142
Indoor unit				
Power supply		V	230	230
Air flow in powerful mode	Heat / Cool	m³/min	15,7 / 12,4	15,7 / 14,1
Moisture removal volume		l/h	1,5	2,0
Sound pressure 5)	Heat (Hi / Lo / Q-Lo)	dB(A)	45 / 24 / 18	45 / 25 / 18
	Cool (Hi / Lo / Q-Lo)	dB(A)	41 / 25 / 19	44 / 28 / 19
Dimension	H x W x D	mm	295 x 870 x 229	295 x 870 x 229
Net weight		kg	11	11
nanoe X Generator			Mark 3	Mark 3
Outdoor unit				
Air flow	Heat / Cool	m³/min	33,5 / 33,5	34,4 / 34,4
Sound pressure 5)	Heat — Cool (Hi / Lo)	dB(A)	47 / 44 — 46 / 43	50 / 47 — 48 / 45
Dimension 6)	H x W x D	mm	622 x 824 x 299	622 x 824 x 299
Net weight		kg	34	34
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
Pipe length range		m	3 ~ 20	3 ~ 20
Elevation difference (in / out)		m	10	10
Pre-charged pipe length		m	7,5	7,5
Additional gas amount		g/m	10	10
Refrigerant (R32) / CO_2 Eq.		kg / T	0,90 / 0,61	0,90 / 0,61
Operating range	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24
	Cool Min ~ Max	°C	+16 ~ +43	+16 ~ +43
Lowest outdoor temperature tested by 3rd party laboratory 7)		°C	-35	

1) COP calculation is based in accordance to EN14511. 2) Capacity of the heat pump is tested with powerful mode with deice mode included. 3) SCOP and SEER values are Panasonic Factory official result, Energy Label Scale from A+++ to D. 4) The annual energy consumption is calculated in accordance to EU/626/2011. 5) 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. 6) Add 70 mm for piping port. 7) Tested by an independent test laboratory. This temperature is not guaranteed by the factory.

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into S-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

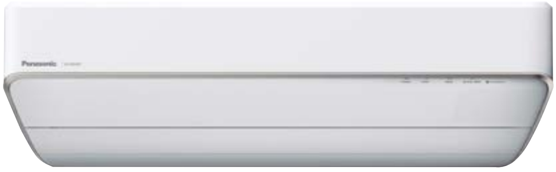
R32 REFRIGERANT · A+++ 5,30 SCOP · A+++ 8,80 SEER · INVERTER+ · R2 ROTARY COMPRESSOR · nanoeX · INSIDE CLEANING ON DEMAND · FIREPLACE FUNCTION · 18 dB(A) · AEROWINGS · -35 °C HEATING MODE · SUMMER HOUSE · INTEGRATION TO S-LINK · BUILT-IN WI-FI · 5 YEARS COMPRESSOR WARRANTY

SCOP and SEER: For CS-HZ25XKE. 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.

Wall-mounted LZ Retro Fit 249 · R32

· Only 249 mm high
· Perfect as a replacement pump
· Performance tested at -35 °C outdoor temperature
· Optional internet and voice control



Maximum capacity			6,55 kW	7,65 kW
Indoor unit			**CS-LZ25TKE**	**CS-LZ35TKE**
Outdoor unit			**CU-LZ25TKE**	**CU-LZ35TKE**
Heating capacity	Nominal (Min - Max)	kW	3,20 (0,85 - 6,55)	4,20 (0,85 - 7,65)
COP [1]		W/W	5,12	4,72
Heating capacity at -7 °C [2]		kW	4,00	4,60
COP at -7 °C [1]		W/W	2,52	2,35
Heating capacity at -15 °C [2]		kW	3,90	4,35
COP at -15 °C [1]		W/W	2,27	2,25
Heating capacity at -20 °C [2]		kW	3,30	3,70
COP at -20 °C [1]		W/W	2,04	2,03
Heating capacity at -25 °C [2]		kW	2,70	3,10
COP at -25 °C [1]		W/W	1,83	1,83
SCOP [3]			**5,00 A++**	**4,90 A++**
SCOP *tested by 3rd party laboratory DTI* [4]			5,17 [4] **A+++** [5]	—
Pdesign at -10 °C		kW	3,00	3,80
Input power	Nominal (Min - Max)	kW	0,63 (0,17 - 1,77)	0,89 (0,17 - 2,30)
Annual energy consumption [6]		kWh/a	840	1086
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)
SEER [3]			**7,60 A++**	**7,40 A++**
Pdesign (cooling)		kW	2,50	3,50
Input power	Nominal (Min - Max)	kW	0,51 (0,17 - 0,70)	0,86 (0,17 - 1,08)
Annual energy consumption [6]		kWh/a	115	166
Indoor unit				
Power supply		V	230	230
Air flow	Heat / Cool	m³/min	12,5 / 9,3	13,0 / 10,5
Moisture removal volume		l/h	1,5	2,0
Sound pressure [7]	Heat (Hi / Lo / Q-Lo)	dB(A)	45 / 29 / 18	46 / 30 / 19
	Cool (Hi / Lo / Q-Lo)	dB(A)	40 / 25 / 21	43 / 28 / 21
Dimension	H x W x D	mm	249 x 790 x 355	249 x 790 x 355
Net weight		kg	11	11
Outdoor unit				
Air flow	Heat / Cool	m³/min	34,0 / 33,1	35,6 / 34,4
Sound pressure [7]	Heat / Cool (Hi)	dB(A)	44 / 43	47 / 45
Dimension [8]	H x W x D	mm	622 x 824 x 299	622 x 824 x 299
Net weight		kg	38	38
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
Pipe length range		m	3 ~ 20	3 ~ 20
Elevation difference (in / out)		m	10	10
Pre-charged pipe length		m	7,5	7,5
Additional gas amount		g/m	20	20
Refrigerant (R32) / CO_2 Eq.		kg / T	1,10 / 0,743	1,10 / 0,743
Operating range	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24
	Cool Min ~ Max	°C	-15 ~ +43	-15 ~ +43
Lowest outdoor temperature tested by 3rd party laboratory [9]		°C	-35	—

1) COP calculation is based in accordance to EN14511. 2) Capacity of the heat pump is tested with powerful mode with deice mode included. 3) Energy Label Scale from A+++ to D. 4) SCOP tested by the independent testing laboratory, DTI, in accordance with EN 14825:2016. 5) A+++ has been calculated on the basis of the SCOP test performed by the Danish Technological Institute. The test report from the Danish Technological Institute can be found at: lz25test.panasonic.se. 6) The annual energy consumption is calculated in accordance to EU/626/2011. 7) 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. 8) Add 70 mm for piping port. 9) Tested by 3rd party laboratory, DTI, according to EN14511:2013, this temperature is not guaranteed by Factory.

Accessories	
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
CZ-CAPRA1	RAC interface adapter for integration into S-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

SCOP and SEER: For CS-LZ25TKE. SUPER QUIET: For CS-LZ25TKE. -35 °C HEATING MODE: For CS-LZ25TKE. INTERNET CONTROL: Optional.

Wall-mounted NZ Etherea · R32

- nanoe™ X technology to improve protection 24/7 (nanoe X Generator Mark 2)
- Sleek and stylish design
- Improved SEER / SCOP to achieve top class energy efficiency
- Super Quiet! Only 19 dB(A)
- Summer House
- Easy installation
- Built-in Wi-Fi for smart control
- Compatible with Google Assistant and Amazon Alexa

Built-in

Maximum capacity			6,50 kW	7,40 kW	8,30 kW
Indoor unit			**CS-NZ25YKE-1**	**CS-NZ35YKE-1**	**CS-NZ50YKE-1**
Outdoor unit			**CU-NZ25YKE**	**CU-NZ35YKE**	**CU-NZ50YKE**
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 6,50)	4,00 (0,85 - 7,40)	5,80 (0,98 - 8,30)
COP [1]		W/W	5,00	4,65	4,26
Heating capacity at -7 °C [2]		kW	4,05	4,63	5,22
COP at -7 °C [1]		W/W	2,79	2,50	2,55
Heating capacity at -15 °C [2]		kW	3,45	4,23	4,92
COP at -15 °C [1]		W/W	2,50	2,42	2,52
Heating capacity at -20 °C [2]		kW	2,85	3,63	4,17
COP at -20 °C [1]		W/W	2,24	2,21	2,29
Heating capacity at -25 °C [2]		kW	2,25	3,03	3,72
COP at -25 °C [1]		W/W	1,91	2,13	2,16
SCOP [3]			**5,00 A++**	**5,00 A++**	**4,80 A++**
Pdesign at -10 °C		kW	2,80	3,60	4,40
Input power	Nominal (Min - Max)	kW	0,68 (0,17 - 1,78)	0,86 (0,17 - 2,35)	1,36 (0,22 - 2,48)
Annual energy consumption [4]		kWh/a	784	1008	1283
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)	5,00 (0,98 - 6,10)
SEER [3]			**8,00 A++**	**8,00 A++**	**8,00 A++**
Pdesign (cooling)		kW	2,50	3,50	5,00
Input power	Nominal (Min - Max)	kW	0,50 (0,17 - 0,69)	0,85 (0,17 - 1,10)	1,30 (0,25 - 1,91)
Annual energy consumption [4]		kWh/a	250	425	650
Indoor unit					
Power supply		V	230	230	230
Air flow	Heat / Cool	m^3/min	13,9 / 11,9	15,0 / 13,0	19,2 / 17,5
Moisture removal volume		l/h	1,5	2,0	2,8
Sound pressure [5]	Heat (Hi / Lo / Q-Lo)	dB(A)	42 / 27 / 19	44 / 30 / 19	44 / 37 / 30
	Cool (Hi / Lo / Q-Lo)	dB(A)	39 / 25 / 21	42 / 28 / 21	44 / 37 / 30
Dimension	H x W x D	mm	295 x 870 x 229	295 x 870 x 229	295 x 1040 x 244
Net weight		kg	10	10	12
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit					
Air flow	Heat / Cool	m^3/min	32,7 / 32,7	34,4 / 34,4	38,6 / 39,8
Sound pressure [5]	Heat — Cool (Hi / Lo)	dB(A)	48 / 45 — 46 / 43	50 / 47 — 48 / 45	50 / 47 — 48 / 45
Dimension [6]	H x W x D	mm	622 x 824 x 299	622 x 824 x 299	701 x 875 x 320
Net weight		kg	34	34	42
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
Pipe length range		m	3 ~ 20	3 ~ 20	3 ~ 20
Elevation difference (in / out)		m	10	10	15
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	0,82 / 0,5535	0,82 / 0,5535	1,13 / 0,7627
Operating range	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24
	Cool Min ~ Max	°C	-15 ~ +43	-15 ~ +43	-15 ~ +43

1) COP calculation is based in accordance to EN14511. 2) Capacity of the heat pump is tested with powerful mode with deice mode included. 3) Energy Label Scale from A+++ to D. 4) The annual energy consumption is calculated in accordance to EU/626/2011. 5) 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. 6) 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++ 5,00 SCOP · A++ 8,00 SEER · INVERTER+ · R2 ROTARY COMPRESSOR · nanoeX · 19 dB(A) · AEROWINGS · -25 °C HEATING MODE · SUMMER HOUSE · INTEGRATION TO S-LINK · BUILT-IN WI-FI · 5 YEARS COMPRESSOR WARRANTY

SCOP: For CS-NZ25YKE-1 and CS-NZ35YKE-1. SUPER QUIET: For CS-NZ25YKE-1 and CS-NZ35YKE-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.

Wall-mounted CZ super-compact · R32

· Compact design with only 779 mm wide
· Dust Collection Filter
· Super Quiet! Only 20 dB(A)
· Aerowings to control air draft direction
· High energy savings
· Heating possible at -25 °C
· Summer House
· Built-in Wi-Fi for smart control
· Compatible with Google Assistant and Amazon Alexa

Built-in

Maximum capacity			5,30 kW	6,70 kW
Indoor unit			**CS-CZ25ZKE**	**CS-CZ35ZKE**
Outdoor unit			**CU-CZ25ZKE**	**CU-CZ35ZKE**
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,30)	4,00 (0,85 - 6,70)
COP [1]		W/W	4,66	4,12
Heating capacity at -7 °C [2]		kW	3,40	4,05
COP at -7 °C [1]		W/W	2,56	2,25
Heating capacity at -15 °C [2]		kW	2,80	3,60
COP at -15 °C [1]		W/W	2,33	2,28
Heating capacity at -20 °C [2]		kW	2,20	3,00
COP at -20 °C [1]		W/W	2,00	1,94
Heating capacity at -25 °C [2]		kW	1,60	2,40
COP at -25 °C [1]		W/W	1,63	1,80
SCOP [3]			**4,30 A+**	**4,30 A+**
Pdesign at -10 °C		kW	2,80	3,60
Input power	Nominal (Min - Max)	kW	0,73 (0,18 - 1,48)	0,97 (0,18 - 2,00)
Annual energy consumption [4]		kWh/a	912	1172
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)
SEER [3]			**6,70 A++**	**6,50 A++**
Pdesign (cooling)		kW	2,50	3,50
Input power	Nominal (Min - Max)	kW	0,54 (0,19 - 0,73)	0,94 (0,19 - 1,14)
Annual energy consumption [4]		kWh/a	131	188
Indoor unit				
Power supply		V	230	230
Air flow	Heat / Cool	m^3/min	12,5 / 10,8	12,8 / 12,1
Moisture removal volume		l/h	1,5	2,0
Sound pressure [5]	Heat (Hi / Lo / Q-Lo)	dB(A)	42 / 27 / 20	43 / 33 / 20
	Cool (Hi / Lo / Q-Lo)	dB(A)	39 / 25 / 21	42 / 28 / 21
Dimension	H x W x D	mm	290 x 779 x 209	290 x 779 x 209
Net weight		kg	8	8
Outdoor unit				
Air flow	Heat / Cool	m^3/min	28,9 / 29,7	30,5 / 30,5
Sound pressure [5]	Heat — Cool (Hi / Lo)	dB(A)	47 / 44 — 46 / 43	50 / 47 — 48 / 45
Dimension [6]	H x W x D	mm	622 x 824 x 299	622 x 824 x 299
Net weight		kg	33	33
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
Pipe length range		m	3 ~ 20	3 ~ 20
Elevation difference (in / out)		m	10	10
Pre-charged pipe length		m	7,5	7,5
Additional gas amount		g/m	10	10
Refrigerant (R32) / CO_2 Eq.		kg / T	0,67 / 0,45	0,67 / 0,45
Operating range	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24
	Cool Min ~ Max	°C	+16 ~ +43	+16 ~ +43

1) COP calculation is based in accordance to EN14511. 2) Capacity of the heat pump is tested with powerful mode with deice mode included. 3) Energy Label Scale from A+++ to D. 4) The annual energy consumption is calculated in accordance to EU/626/2011. 5) 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. 6) 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

SCOP and SEER: For CS-CZ25ZKE. INTERNET CONTROL: Built-in Wi-Fi.

Floor console · R32

- nanoe™ X technology to improve protection 24/7 (nanoe X Generator Mark 1)
- Stylish Sky remote controller
- A breakthrough design that integrates perfectly with the most modern environments
- High energy efficiency class A++ SEER and A++ SCOP
- Optional internet and voice control

Optional

nanoeX

Maximum capacity			5,50 kW	6,20 kW
Indoor unit			CS-Z25UFEAW-1	CS-Z35UFEAW-1
Outdoor unit			CU-Z25UFEA-1	CU-Z35UFEA-1
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,50)	4,30 (0,85 - 6,20)
COP [1]		W/W	4,59	4,06
Heating capacity at -7 °C [2]		kW	3,80	4,20
COP at -7 °C [1]		W/W	2,53	2,33
Heating capacity at -15 °C [2]		kW	3,50	3,90
COP at -15 °C [1]		W/W	2,30	2,15
Heating capacity at -20 °C [2]		kW	2,90	3,30
COP at -20 °C [1]		W/W	1,96	1,94
Heating capacity at -25 °C [2]		kW	2,40	2,85
COP at -25 °C [1]		W/W	1,68	1,73
SCOP [3]			**4,70 A++**	**4,60 A++**
SCOP *tested by 3rd party laboratory DTI* [4]			4,79 [4]	—
Pdesign at -10 °C		kW	3,00	3,60
Input power	Nominal (Min - Max)	kW	0,74 (0,17 - 1,51)	1,06 (0,17 - 1,83)
Annual energy consumption [5]		kWh/a	894	1096
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,40)	3,50 (0,85 - 3,80)
SEER [3]			**8,10 A++**	**7,80 A++**
Pdesign (cooling)		kW	2,50	3,50
Input power	Nominal (Min - Max)	kW	0,51 (0,17 - 0,88)	0,84 (0,17 - 1,04)
Annual energy consumption [5]		kWh/a	108	157
Indoor unit				
Air flow	Heat / Cool	m³/min	9,9 / 9,6	10,1 / 9,9
Moisture removal volume		L/h	1,5	2,0
Sound pressure [6]	Heat (Hi / Lo / Q-Lo)	dB(A)	38 / 25 / 19	39 / 26 / 19
	Cool (Hi / Lo / Q-Lo)	dB(A)	38 / 25 / 20	39 / 26 / 20
Dimension	H x W x D	mm	600 x 750 x 207	600 x 750 x 207
Net weight		kg	13	13
nanoe X Generator			Mark 1	Mark 1
Outdoor unit				
Power supply		V	230	230
Air flow	Heat / Cool	m³/min	32,2 / 32,2	34,4 / 32,7
Sound pressure [6]	Heat — Cool (Hi / Lo)	dB(A)	48 / 45 — 46 / 43	50 / 47 — 48 / 45
Dimension [7]	H x W x D	mm	622 x 824 x 299	622 x 824 x 299
Net weight		kg	34	37
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
Pipe length range		m	3 ~ 20	3 ~ 20
Elevation difference (in / out)		m	15	15
Pre-charged pipe length		m	7,5	7,5
Additional gas amount		g/m	10	10
Refrigerant (R32) / CO_2 Eq.		kg / T	0,97 / 0,65475	1,07 / 0,72225
Operating range	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24
	Cool Min ~ Max	°C	-15 ~ +43	-15 ~ +43
Lowest outdoor temperature tested by 3rd party laboratory [8]		°C	-35	—

1) COP calculation is based in accordance to EN14511. 2) Capacity of the heat pump is tested with powerful mode with deice mode included. 3) Energy Label Scale from A+++ to D. 4) SCOP Tested by 3rd Party laboratory DTI under EN14825:2016. 5) The annual energy consumption is calculated in accordance to EU/626/2011. 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) Add 70 mm for piping port. 8) Tested by 3rd party laboratory, DTI, according to EN14511:2013, this temperature is not guaranteed by Factory.

Accessories	
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
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++ 4,70 SCOP · A++ 8,10 SEER · INVERTER+ · R2 ROTARY COMPRESSOR · nanoeX · 19 dB(A) · -35 °C HEATING MODE TESTED BY DTI · SUMMER HOUSE · INTEGRATION TO S-LINK · OPTIONAL WI-FI · 5 YEARS COMPRESSOR WARRANTY · iF

SCOP and SEER: For CS-Z25UFEAW-1. -35 °C HEATING MODE: For CS-Z25UFEAW-1 heating performance tested at -35 °C by DTI, European 3rd party laboratory. 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.

Power Heat Multi · R32

· Operation range down to -25 °C
· Equipped with base pan heater
· 4,40 kW heating capacity at -25 °C outside for 2 room model
· High energy efficiency: SCOP of 4,60
· HZ and NZ indoor units with nanoe™ X technology to improve protection 24/7
· Indoor units with built-in Wi-Fi for internet and voice control
· Performance tested at -35 °C outdoor temperature

Tentative data

Outdoor unit			CU-2Z50ABEC	CU-3Z75ABEC
Indoor nominal capacity			**4,0 ~ 8,5 kW (2 room)**	**4,5 ~ 11,0 kW (3 room)**
Heating capacity	Nominal (Min - Max)	kW	6,40 (1,70 - 8,70)	8,60 (1,70 - 10,60)
COP [1]			4,71	4,50
Heating capacity at -15 °C	Max	kW	6,40	6,80
COP at -15 °C		W/W	2,30	2,47
Heating capacity at -25 °C	Max	kW	4,40	4,80
COP at -25 °C		W/W	1,80	1,85
SCOP [2]			**4,60 A++**	**4,60 A++**
Pdesign at -10 °C		kW	5,20	5,70
Input power	Nominal (Min - Max)	kW	1,36 (0,32 - 2,40)	1,91 (0,32 - 2,86)
Cooling capacity	Nominal (Min - Max)	kW	5,30 (2,11 - 7,50)	7,50 (2,11 - 8,80)
EER [1]			4,42	3,95
SEER [2]			**8,00 A++**	**8,00 A++**
Pdesign (cooling)		kW	5,30	7,50
Input power	Nominal (Min - Max)	kW	1,20 (0,36 - 2,00)	1,90 (0,38 - 2,42)
Current	Heat / Cool	A	6,00 / 5,10	8,30 / 8,30
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
Lowest outdoor temperature tested by 3rd party laboratory [5]		°C	-35	-35

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. 5) Tested by 3rd party laboratory, SP, according to EN14511:2013 and SP Method 1721, this temperature is not guaranteed by Factory.

Possible outdoor / indoor units combinations

Rooms	Outdoor unit	Indoor capacity connected (Min - Max)	Wall-mounted HZ Flagship		Wall-mounted NZ Etherea		
			25	35	25	35	50
2	CU-2Z50ABEC	4,0 ~ 8,5 kW	•	•	•	•	•
3	CU-3Z75ABEC	4,5 ~ 11,0 kW	•	•	•	•	•

R32 REFRIGERANT
INVERTER+
R2 ROTARY COMPRESSOR
-35 °C HEATING MODE
-10 °C COOLING MODE
5 YEARS COMPRESSOR WARRANTY

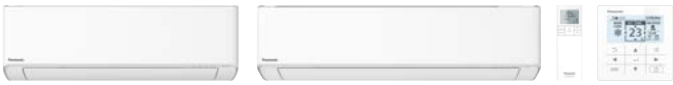
Configure your multi split system in a few steps using our online tool and see all possible combinations.

Optional wired remote controller.
CZ-RD517C

INTERNET CONTROL: Built-in Wi-Fi.

nanoe X | 18 dB(A) | AEROWINGS | BUILT-IN WI-FI | BMS CONNECTIVITY

Wall-mounted HZ Flagship	Indoor unit		Heating capacity	Cooling capacity	Connection in. / out.	Sound pressure 1)	Dimension / Net weight	Piping diameter
	Graphite grey	Matt white				Cool — Heat (Hi/Lo/Q-Lo)	HxWxD	Liquid / Gas
			kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
2,5 kW	CS-HZ25ZKE-H	CS-HZ25ZKE	3,60	2,50	4x1,5	41/25/19 — 45/24/18	295x870x229/11	1/4 (6,35) / 3/8 (9,52)
3,5 kW	CS-HZ35ZKE-H	CS-HZ35ZKE	4,50	3,50	4x1,5	44/28/19 — 45/25/18	295x870x229/11	1/4 (6,35) / 3/8 (9,52)



Optional wired remote controller.
CZ-RD517C

INTERNET CONTROL: Built-in Wi-Fi.

nanoe X | 19 dB(A) | AEROWINGS | BUILT-IN WI-FI | BMS CONNECTIVITY

Wall-mounted NZ Etherea	Indoor unit	Heating capacity	Cooling capacity	Connection in. / out.	Sound pressure 1)	Dimension / Net weight	Piping diameter
					Cool — Heat (Hi/Lo/Q-Lo)	HxWxD	Liquid / Gas
		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
2,5 kW	CS-NZ25YKE-1	3,60	2,50	4x1,5	39/25/21 — 42/27/19	295x870x229/10	1/4 (6,35) / 3/8 (9,52)
3,5 kW	CS-NZ35YKE-1	4,50	3,50	4x1,5	42/28/21 — 44/30/19	295x870x229/10	1/4 (6,35) / 3/8 (9,52)
5,0 kW	CS-NZ50YKE-1	6,80	5,00	4x2,5	44/37/30 — 44/37/30	295x1040x244/12	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.

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 combinations table

Power Heat Multi 2x1 CU-2Z50ABEC. Minimum capacity connected: 4,0 kW. Maximum capacity connected: 8,5 kW· R32

Indoor unit capacity	Cooling capacity (kW). Rooms			EER	SEER [1]	Input power rating	A.E.C.	Current	Heating capacity (kW). Rooms			COP	SCOP [1]	Input power rating	A.E.C.	Current
	A	B	Total (Min - Max)	W/W		kW	kWh	230 V	A	B	Total (Min - Max)	W/W		kW	kWh	230 V
Wall-mounted CS-HZZKE/-H**																
1 Room																
25	2,50		2,50 (1,80 - 2,90)	5,32		0,47 (0,34 - 0,62)	235	2,3	3,60		3,60 (1,20 - 4,30)	3,83		0,94 (0,30 - 1,19)	470	4,70
35	3,50		3,50 (1,80 - 3,80)	3,98		0,88 (0,34 - 0,99)	440	4,3	4,50		4,50 (1,20 - 5,80)	3,66		1,23 (0,30 - 1,95)	615	6,00
2 Rooms																
25 + 25	2,65	2,65	5,30 (2,11 - 7,50)	4,42	**8,00 A++**	1,20 (0,36 - 2,00)	600	5,40	3,20	3,20	6,40 (1,70 - 8,70)	4,71	**4,60 A++**	1,36 (0,32 - 2,40)	680	6,00
25 + 35	2,21	3,09	5,30 (2,11 - 7,50)	4,53	**8,00 A++**	1,17 (0,36 - 1,97)	585	5,27	2,67	3,73	6,40 (1,70 - 8,70)	4,78	**4,60 A++**	1,34 (0,32 - 2,37)	670	5,91
35 + 35	2,65	2,65	5,30 (2,11 - 7,50)	4,57	**8,00 A++**	1,16 (0,36 - 1,96)	580	5,22	3,20	3,20	6,40 (1,70 - 8,70)	4,81	**4,60 A++**	1,33 (0,32 - 2,36)	665	5,87

Indoor unit capacity	Cooling A	Cooling B	Cooling Total (Min - Max)	EER W/W	SEER [1]	Input power rating kW	A.E.C. kWh	Current 230 V	Heating A	Heating B	Heating Total (Min - Max)	COP W/W	SCOP [1]	Input power rating kW	A.E.C. kWh	Current 230 V
Wall-mounted CS-NZYKE-1**																
1 Room																
20	2,00		2,00 (1,80 - 2,50)	5,00		0,40 (0,34 - 0,52)	200	2,00	3,20		3,20 (1,20 - 4,10)	3,95		0,81 (0,30 - 1,16)	405	4,00
25	2,50		2,50 (1,80 - 2,90)	5,32		0,47 (0,34 - 0,62)	235	2,30	3,60		3,60 (1,20 - 4,30)	3,83		0,94 (0,30 - 1,19)	470	4,70
35	3,50		3,50 (1,80 - 3,80)	3,98		0,88 (0,34 - 0,99)	440	4,30	4,50		4,50 (1,20 - 5,80)	3,66		1,23 (0,30 - 1,95)	615	6,00
50	5,00		5,00 (1,90 - 5,70)	3,52		1,42 (0,34 - 1,82)	710	6,60	6,80		6,80 (1,20 - 7,70)	3,24		2,10 (0,30 - 2,52)	1050	9,70
2 Rooms																
20 + 20	2,00	2,00	4,00 (2,10 - 6,90)	4,26	**8,00 A++**	0,94 (0,36 - 1,91)	470	4,23	3,15	3,15	6,30 (1,70 - 8,30)	4,06	**4,40 A+**	1,55 (0,32 - 2,45)	775	6,84
20 + 25	2,00	2,50	4,50 (2,10 - 7,00)	4,09	**8,00 A++**	1,10 (0,36 - 1,92)	550	4,95	2,84	3,56	6,40 (1,70 - 8,60)	4,16	**4,40 A+**	1,54 (0,32 - 2,50)	770	6,79
20 + 35	1,93	3,37	5,30 (2,10 - 7,50)	4,27	**8,00 A++**	1,24 (0,36 - 2,04)	620	5,58	2,33	4,07	6,40 (1,70 - 8,70)	4,18	**4,40 A+**	1,53 (0,32 - 2,44)	765	6,75
20 + 50	1,51	3,79	5,30 (2,10 - 7,80)	4,38	**8,00 A++**	1,21 (0,36 - 2,24)	605	5,45	1,83	4,57	6,40 (1,70 - 8,80)	4,44	**4,40 A+**	1,44 (0,32 - 2,48)	720	6,35
25 + 25	2,65	2,65	5,30 (2,10 - 7,50)	4,21	**8,00 A++**	1,26 (0,36 - 2,06)	630	5,67	3,20	3,20	6,40 (1,70 - 8,70)	4,18	**4,40 A+**	1,53 (0,32 - 2,44)	765	6,75
25 + 35	2,21	3,09	5,30 (2,10 - 7,50)	4,31	**8,00 A++**	1,23 (0,36 - 2,03)	615	5,54	2,67	3,73	6,40 (1,70 - 8,70)	4,21	**4,40 A+**	1,52 (0,32 - 2,43)	760	6,71
25 + 50	1,77	3,53	5,30 (2,10 - 7,80)	4,42	**8,00 A++**	1,20 (0,36 - 2,20)	600	5,40	2,13	4,27	6,40 (1,70 - 8,80)	4,48	**4,40 A+**	1,43 (0,32 - 2,47)	715	6,31
35 + 35	2,65	2,65	5,30 (2,10 - 7,50)	4,34	**8,00 A++**	1,22 (0,36 - 2,02)	610	5,49	3,20	3,20	6,40 (1,70 - 8,70)	4,24	**4,40 A+**	1,51 (0,32 - 2,42)	755	6,66
35 + 50	2,18	3,12	5,30 (2,10 - 7,80)	4,45	**8,00 A++**	1,19 (0,36 - 2,18)	595	5,36	2,64	3,76	6,40 (1,70 - 8,80)	4,51	**4,40 A+**	1,42 (0,32 - 2,46)	710	6,26

1) Energy Label Scale from A+++ to D.

Configure your multi split system in a few steps using our online tool and see all possible combinations.

Power Heat Multi 3x1 CU-3Z75ABEC. Minimum capacity connected: 6,0 kW. Maximum capacity connected: 10,5 kW · R32

Indoor unit capacity	Cooling capacity (kW). Rooms				EER	SEER [1]	Input power rating	A.E.C.	Current	Heating capacity (kW). Rooms				COP	SCOP [1]	Input power rating	A.E.C.	Current
	A	B	C	Total (Min - Max)	W/W		kW	kWh	230 V	A	B	C	Total (Min - Max)	W/W		kW	kWh	230 V
Wall-mounted CS-HZZKE/-H**																		
1 Room																		
25	2,50			2,50 (1,80 - 2,90)	5,32		0,47 (0,34 - 0,62)	235	2,30	3,60			3,60 (1,20 - 4,30)	3,83		0,94 (0,30 - 1,19)	470	4,70
35	3,50			3,50 (1,80 - 3,80)	3,98		0,88 (0,34 - 0,99)	440	4,30	4,50			4,50 (1,20 - 5,80)	3,66		1,23 (0,30 - 1,95)	615	6,00
2 Rooms																		
25 + 25	2,50	2,50		5,00 (2,11 - 7,48)	4,50	**7,20 A++**	1,11 (0,38 - 2,45)	555	4,85	3,65	3,65		7,30 (1,39 - 9,99)	4,87	**4,60 A++**	1,50 (0,33 - 2,99)	750	6,52
25 + 35	2,50	3,50		6,00 (2,11 - 7,59)	4,05	**7,20 A++**	1,48 (0,38 - 2,46)	740	6,47	3,42	4,78		8,20 (1,39 - 10,09)	4,39	**4,60 A++**	1,87 (0,32 - 2,99)	935	8,13
35 + 35	3,50	3,50		7,00 (2,11 - 7,70)	3,80	**7,20 A++**	1,84 (0,38 - 2,41)	920	8,04	4,30	4,30		8,60 (1,44 - 10,19)	4,34	**4,60 A++**	1,98 (0,33 - 2,99)	990	8,60
3 Rooms																		
25 + 25 + 25	2,50	2,50	2,50	7,50 (2,11 - 8,80)	3,95	**8,00 A++**	1,90 (0,38 - 2,42)	950	8,30	2,87	2,87	2,87	8,60 (1,70 - 10,60)	4,50	**4,60 A++**	1,91 (0,32 - 2,86)	955	8,30
25 + 25 + 35	2,21	2,21	3,09	7,50 (2,11 - 8,80)	3,99	**8,00 A++**	1,88 (0,38 - 2,33)	940	8,21	2,53	2,53	3,54	8,60 (1,70 - 10,60)	4,53	**4,60 A++**	1,90 (0,32 - 2,83)	950	8,26
25 + 35 + 35	1,99	2,76	2,76	7,50 (2,11 - 8,91)	4,03	**8,00 A++**	1,86 (0,41 - 2,34)	930	8,13	2,26	3,17	3,17	8,60 (1,70 - 10,70)	4,60	**4,60 A++**	1,87 (0,33 - 2,85)	935	8,13
35 + 35 + 35	2,50	2,50	2,50	7,50 (2,11 - 9,02)	4,10	**8,00 A++**	1,83 (0,41 - 2,34)	915	7,99	2,87	2,87	2,87	8,60 (1,70 - 10,70)	4,73	**4,60 A++**	1,82 (0,32 - 2,83)	910	7,91

Indoor unit capacity	A	B	C	Total (Min - Max)	EER	SEER	kW	kWh	230 V	A	B	C	Total (Min - Max)	COP	SCOP	kW	kWh	230 V
Wall-mounted CS-NZYKE-1**																		
1 Room																		
20	2,00			2,00 (1,80 - 2,50)	5,00		0,40 (0,34 - 0,52)	200	2,00	3,20			3,20 (1,20 - 4,10)	3,95		0,81 (0,30 - 1,16)	405	4,00
25	2,50			2,50 (1,80 - 2,90)	5,32		0,47 (0,34 - 0,62)	235	2,30	3,60			3,60 (1,20 - 4,30)	3,83		0,94 (0,30 - 1,19)	470	4,70
35	3,50			3,50 (1,80 - 3,80)	3,98		0,88 (0,34 - 0,99)	440	4,30	4,50			4,50 (1,20 - 5,80)	3,66		1,23 (0,30 - 1,95)	615	6,00
50	5,00			5,00 (1,90 - 5,70)	3,52		1,42 (0,34 - 1,82)	710	6,60	6,80			6,80 (1,20 - 7,70)	3,24		2,10 (0,30 - 2,52)	1050	9,70
2 Rooms																		
20 + 20	2,00	2,00		4,00 (2,11 - 7,04)	4,30		0,93 (0,38 - 2,11)	465	4,06	3,25	3,25		6,50 (1,39 - 9,99)	4,01		1,62 (0,33 - 3,42)	810	7,04
20 + 25	2,00	2,50		4,50 (2,11 - 7,04)	4,69	**7,20 A++**	0,96 (0,38 - 2,07)	480	4,19	3,07	3,83		6,90 (1,39 - 9,99)	3,85	**4,40 A+**	1,79 (0,33 - 3,33)	895	7,78
20 + 35	2,00	3,50		5,50 (2,11 - 7,59)	4,04	**7,20 A++**	1,36 (0,38 - 2,30)	680	5,94	2,84	4,96		7,80 (1,39 - 9,99)	3,73	**4,40 A+**	2,09 (0,32 - 3,24)	1045	9,08
20 + 50	2,00	5,00		7,00 (2,22 - 8,25)	3,72	**7,20 A++**	1,88 (0,40 - 2,34)	940	8,21	2,46	6,14		8,60 (1,44 - 10,40)	3,72	**4,40 A+**	2,31 (0,29 - 3,14)	1155	10,04
25 + 25	2,50	2,50		5,00 (2,11 - 7,48)	4,27	**7,20 A++**	1,17 (0,38 - 2,29)	585	5,11	3,65	3,65		7,30 (1,39 - 9,99)	3,78	**4,40 A+**	1,93 (0,33 - 3,18)	965	8,39
25 + 35	2,50	3,50		6,00 (2,11 - 7,59)	3,85	**7,20 A++**	1,56 (0,38 - 2,30)	780	6,81	3,42	4,78		8,20 (1,39 - 10,09)	3,68	**4,40 A+**	2,23 (0,32 - 3,18)	1115	9,69
25 + 50	2,50	5,00		7,50 (2,11 - 8,25)	3,59	**7,20 A++**	2,09 (0,37 - 2,34)	1045	9,13	2,87	5,73		8,60 (1,44 - 10,40)	3,72	**4,40 A+**	2,31 (0,29 - 3,14)	1155	10,04
35 + 35	3,50	3,50		7,00 (2,11 - 7,70)	3,66	**7,20 A++**	1,91 (0,38 - 2,26)	955	8,34	4,30	4,30		8,60 (1,44 - 10,19)	3,63	**4,40 A+**	2,37 (0,33 - 3,18)	1185	10,30
35 + 50	3,09	4,41		7,50 (2,22 - 8,36)	3,73	**7,20 A++**	2,01 (0,40 - 2,34)	1005	8,78	3,54	5,06		8,60 (1,44 - 10,50)	3,82	**4,40 A+**	2,25 (0,28 - 3,12)	1125	9,78
50 + 50	3,75	3,75		7,50 (2,33 - 8,91)	3,89	**7,20 A++**	1,93 (0,46 - 2,35)	965	8,43	4,30	4,30		8,60 (1,44 - 10,70)	4,32	**4,40 A+**	1,99 (0,26 - 3,02)	995	8,65
3 Rooms																		
20 + 20 + 20	2,00	2,00	2,00	6,00 (2,11 - 8,80)	4,48	**8,00 A++**	1,34 (0,38 - 2,27)	670	5,85	2,87	2,87	2,87	8,60 (1,70 - 10,60)	4,26	**4,60 A++**	2,02 (0,32 - 3,22)	1010	8,78
20 + 20 + 25	2,00	2,00	2,50	6,50 (2,11 - 8,80)	3,94	**8,00 A++**	1,65 (0,38 - 2,27)	825	7,21	2,65	2,65	3,31	8,60 (1,70 - 10,60)	4,26	**4,60 A++**	2,02 (0,32 - 3,16)	1010	8,78
20 + 20 + 35	2,00	2,00	3,50	7,50 (2,11 - 8,80)	3,87	**8,00 A++**	1,94 (0,38 - 2,19)	970	8,47	2,29	2,29	4,01	8,60 (1,70 - 10,60)	4,30	**4,60 A++**	2,00 (0,32 - 3,08)	1000	8,69
20 + 20 + 50	1,67	1,67	4,17	7,50 (2,22 - 9,35)	4,29	**8,00 A++**	1,75 (0,48 - 2,29)	875	7,64	1,91	1,91	4,78	8,60 (1,65 - 10,80)	4,62	**4,60 A++**	1,86 (0,31 - 2,78)	930	8,08
20 + 25 + 25	2,00	2,50	2,50	7,00 (2,11 - 8,80)	3,78	**8,00 A++**	1,85 (0,38 - 2,27)	925	8,08	2,46	3,07	3,07	8,60 (1,70 - 10,60)	4,26	**4,60 A++**	2,02 (0,32 - 3,07)	1010	8,78
20 + 25 + 35	1,88	2,34	3,28	7,50 (2,11 - 8,80)	3,87	**8,00 A++**	1,94 (0,38 - 2,19)	970	8,47	2,15	2,69	3,76	8,60 (1,70 - 10,60)	4,30	**4,60 A++**	2,00 (0,32 - 2,94)	1000	8,69
20 + 25 + 50	1,58	1,97	3,95	7,50 (2,22 - 9,35)	4,29	**8,00 A++**	1,75 (0,48 - 2,29)	875	7,64	1,81	2,26	4,53	8,60 (1,65 - 10,80)	4,62	**4,60 A++**	1,86 (0,31 - 2,78)	930	8,08
20 + 35 + 35	1,67	2,92	2,92	7,50 (2,11 - 8,91)	3,95	**8,00 A++**	1,90 (0,41 - 2,20)	950	8,30	1,91	3,34	3,34	8,60 (1,70 - 10,70)	4,34	**4,60 A++**	1,98 (0,33 - 2,96)	990	8,60
20 + 35 + 50	1,43	2,50	3,57	7,50 (2,22 - 9,35)	4,29	**8,00 A++**	1,75 (0,48 - 2,24)	875	7,64	1,64	2,87	4,10	8,60 (1,65 - 10,80)	4,65	**4,60 A++**	1,85 (0,31 - 2,76)	925	8,04
25 + 25 + 25	2,50	2,50	2,50	7,50 (2,11 - 8,80)	3,87	**8,00 A++**	1,94 (0,38 - 2,27)	970	8,47	2,87	2,87	2,87	8,60 (1,70 - 10,60)	4,26	**4,60 A++**	2,02 (0,32 - 2,92)	1010	8,78
25 + 25 + 35	2,21	2,21	3,09	7,50 (2,11 - 8,80)	3,87	**8,00 A++**	1,94 (0,38 - 2,19)	970	8,47	2,53	2,53	3,54	8,60 (1,70 - 10,60)	4,30	**4,60 A++**	2,00 (0,32 - 2,85)	1000	8,69
25 + 25 + 50	1,88	1,88	3,75	7,50 (2,22 - 9,35)	4,29	**8,00 A++**	1,75 (0,48 - 2,29)	875	7,64	2,15	2,15	4,30	8,60 (1,65 - 10,80)	4,62	**4,60 A++**	1,86 (0,31 - 2,78)	930	8,08
25 + 35 + 35	1,99	2,76	2,76	7,50 (2,11 - 8,91)	3,95	**8,00 A++**	1,90 (0,41 - 2,20)	950	8,30	2,26	3,17	3,17	8,60 (1,70 - 10,70)	4,34	**4,60 A++**	1,98 (0,33 - 2,87)	990	8,60
25 + 35 + 50	1,71	2,39	3,41	7,50 (2,22 - 9,35)	4,29	**8,00 A++**	1,75 (0,48 - 2,24)	875	7,64	1,96	2,74	3,91	8,60 (1,65 - 10,80)	4,65	**4,60 A++**	1,85 (0,31 - 2,76)	925	8,04
35 + 35 + 35	2,50	2,50	2,50	7,50 (2,11 - 9,02)	4,05	**8,00 A++**	1,85 (0,41 - 2,20)	925	8,08	2,87	2,87	2,87	8,60 (1,70 - 10,70)	4,48	**4,60 A++**	1,92 (0,32 - 2,85)	960	8,34

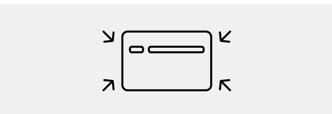
1) Energy Label Scale from A+++ to D.

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.

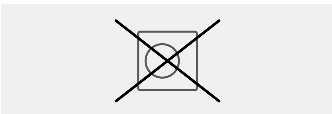
RAC Solo, the compact air conditioner without outdoor unit

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

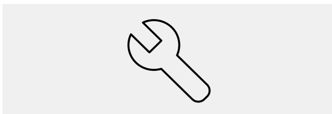


Slim and compact full metal body.
Only 16,5 cm deep (indoor).

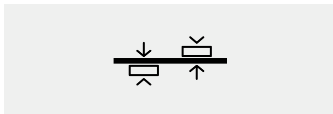


No outdoor unit.
Just two 162 mm holes*.

* 202 mm for the biggest capacity.



Easy to install.
Stand-alone unit with no refrigerant connections.

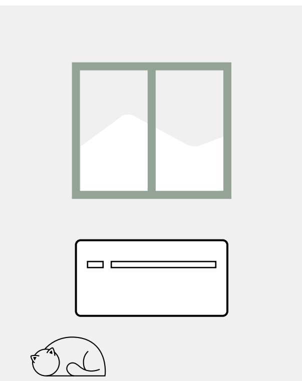


Self-closing grille.
Open only during operation.

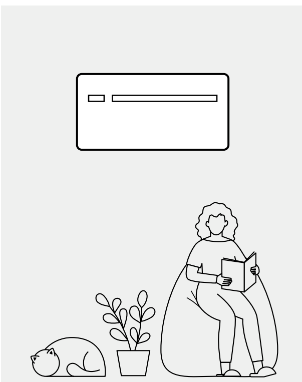
Easy and flexible installation, without outdoor unit

The RAC Solo range offers great installation flexibility as it is a stand-alone unit with no refrigerant connections during installation. The outdoor unit is replaced by two holes in the wall.

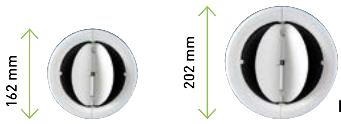
Down installation.



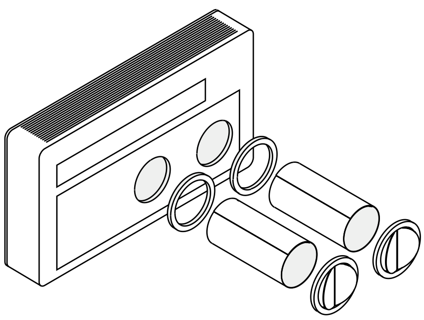
Overhead installation.



All you need is a perimeter wall, to exchange air with the outside. The unit can be placed high on the wall or low on the floor.



For P-MOZ30IC5-E.



RAC Solo · R290 / R32

- Slim and compact, only 165 mm deep
- No outdoor unit
- Heating and cooling or cooling only modes available
- DC Inverter technology
- No frost system, with preheated condenser water tray
- Easy and flexible installation
- Wi-Fi control via the Aquarea Home App

Kit matt white			P-MOG16IC5-E	P-MOZ20IC5-E	P-MOZ25IC5-E	P-MOZ30IC5-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-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)
PCZ-L00773	Side exit formwork for corner installation (right-hand outlet)

Accessories	
PCZ-L00774	Side exit formwork for corner installation (left-hand outlet)
PCZ-GB0737	Bottom cover kit for overhead installation for P-MOZ20/25/30IC5-E
PCZ-GB1105	Bottom cover kit for overhead installation for P-MOG16IC5-E
PCZ-GB1119	Condensate drain pipe heater kit*

* Check availability.

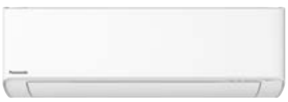
The side installation kit, which must be embedded in the wall, allows the air flow to be redirected sideways for greater installation flexibility.

R290 REFRIGERANT | R32 REFRIGERANT | -15 °C HEATING MODE

R290: For P-MOG16IC5-E. R32: For P-MOZ20IC5-E, P-MOZ25IC5-E and P-MOZ30IC5-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
Wall-mounted VZ Heatcharge - 2,5 and 3,5 kW 	295 x 798 x 375	A+++ A+++	nanoe	-30 °C in heating mode -10 °C in cooling mode	Econavi sunlight detection sensor	18 dB(A)	Optional Wi-Fi CZ-TACG1
Wall-mounted HZ Flagship - 2,5 and 3,5 kW 	295 x 870 x 229	A+++ A+++	nanoe X nanoe X Generator Mark 3	-35 °C [2] in heating mode +16 °C in cooling mode	Aerowings 2.0	18 dB(A)	**Built-in Wi-Fi**
Wall-mounted LZ Retro Fit - 2,5 and 3,5 kW 	249 x 790 x 355	A++ A++	Dust collection filter	-20 °C in heating mode -15 °C in cooling mode	–	18 dB(A)	Optional Wi-Fi CZ-TACG1
Wall-mounted NZ Etherea - 2,5 to 5,0 kW 	295 x 870 x 229 (295 x 1040 x 244 wide model)	A++ A++	nanoe X nanoe X Generator Mark 2	-25 °C in heating mode -15 °C in cooling mode	Aerowings	19 dB(A)	**Built-in Wi-Fi**
Wall-mounted CZ super-compact - 2,5 and 3,5 kW 	290 x 779 x 209	A+ A++	Dust collection filter	-25 °C in heating mode +16 °C in cooling mode	Aerowings	20 dB(A)	**Built-in Wi-Fi**
Floor console - 2,5 and 3,5 kW 	600 x 750 x 207	A++ A++	nanoe X nanoe X Generator Mark 1	-35 °C [3] in heating mode -15 °C in cooling mode	Double air flow	19 dB(A)	Optional Wi-Fi CZ-TACG1

1) Energy efficiency class in 2,5 kW references. 2) For CS-HZ25ZKE-H and CS-HZ25ZKE: Tested by an independent test laboratory. This temperature is not guaranteed by the factory. 3) For CS-Z25UFEAW-1: Tested by 3rd party laboratory, DTI, according to EN14511:2013, this temperature is not guaranteed by Factory. * 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	VZ Heatcharge	HZ Flagship	LZ Retro Fit 249	NZ Etherea	CZ super-compact	Floor console
Refrigerant R32	✔	✔	✔	✔	✔	✔
Econavi. Sunlight sensor	✔					
Inverter+ system	✔	✔	✔	✔	✔	✔
R2 rotary compressor	✔	✔	✔	✔	✔	✔
nanoe X Generator	✔ nanoe™	✔ Mark 3		✔ Mark 2		✔ Mark 1
Dust collection filter					✔	
Antiallergy properties	✔	✔		✔		✔
Super Quiet [1]	✔	✔	✔	✔ 19 dB(A)	✔ 20 dB(A)	✔ 19 dB(A)
Inside cleaning		✔				
Fireplace function		✔				
Aerowings		✔		✔	✔	
Down to -25 °C in heating mode	✔ -35 °C [2]	✔ -35 °C [3]	✔ -20 °C	✔	✔	✔ -35 °C [2]
Down to -15 °C in cooling only	✔ -10 °C	✔ +16 °C	✔	✔	✔ +16 °C	✔
Summer House	✔	✔	✔	✔	✔	✔
Odour-removing function	✔	✔	✔	✔	✔	✔
Removable, washable panel	✔	✔	✔	✔	✔	✔
Powerful mode	✔	✔	✔	✔	✔	✔
Soft dry operation mode	✔	✔	✔	✔	✔	✔
Personal air flow creation	✔	✔	✔			
Automatic vertical air flow control				✔	✔	✔
Manual horizontal air flow control				✔	✔	✔
Auto mode	✔	✔	✔	✔	✔	✔
Hot start mode	✔	✔	✔	✔	✔	✔
Real time clock with dual ON / OFF timer	✔	✔	✔	✔	✔	✔
LCD infrared remote controller	✔	✔	✔	✔	✔	✔
Automatic restart	✔	✔	✔	✔	✔	✔
Long piping	✔ 15 m	✔ 20 m	✔ 20 m	✔ 20 m	✔ 20 m	✔ 20 m
Top-Panel maintenance access	✔	✔	✔	✔	✔	✔
Self-diagnosis function	✔	✔	✔	✔	✔	✔
RAC interface adapter for integration into S-Link	✔	✔	✔	✔	✔	✔
Wi-Fi control	✔	✔ Built-in	✔	✔ Built-in	✔ Built-in	✔
Easy control by BMS	✔	✔	✔	✔	✔	✔
Warranty on the compressor	✔	✔	✔	✔	✔	✔

1) At the lowest fan speed. 2) Tested by 3rd party laboratory, SP, according to EN14511:2013 and SP Method 1721, this temperature is not guaranteed by Factory. 3) For CS-HZ25ZKE-H and CS-HZ25ZKE: Tested by an independent test laboratory. This temperature is not guaranteed by the factory.

Features explained

Energy saving

Refrigerant R32.
Our heat pumps containing R32 refrigerant show a drastic reduction in the value of Global Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a component refrigerant, making it easy to recycle.

Econavi. Sunlight sensor.
Sunlight Sensor technology can detect and reduce 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.

Panasonic R2 rotary compressor.
Designed to withstand extreme conditions, it delivers high performance and efficiency.

High performance and indoor air quality

nanoe™ X.
Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise.

Dust collection filter.
This filter collects and retains particles suspended in the air, resulting in cleaner air in the room.

Antiallergy properties.
System is equipped with antiallergy properties filter.

Inside cleaning.
This function works to dry-off to inside air conditioner with nanoe™ X. It can inhibit certain adhered bacteria, viruses and mould up to 99% efficiency.

Fireplace function.
The Fireplace function supports other heat sources by circulating the warm air throughout the space, even when the set temperature is reached.

Super Quiet.
Thanks to its latest generation compressor and its twin blade fan, our outdoor unit is one of the most silent on the market. The indoor unit emits an almost imperceptible 18 dB(A).

Aerowings.
Panasonic's Aerowings feature incorporates two blades that concentrate the airflow to cool or heat in the shortest possible time by distributing the air evenly throughout the room.

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.

Down to -15 °C in cooling mode.
The air conditioner works in cooling mode when the outdoor temperature of -15 °C.

Summer House.
This innovative function keeps the house at 8/10 or 8/15 °C to avoid freezing pipes during the winter. This function is beneficial for summer or weekend homes.

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.

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.

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.

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.
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.

5 Years compressor warranty.
We guarantee the outdoor unit compressors in the entire range for five years.

Accessories and control

Connectivity

Wi-Fi adapter for smart control via Panasonic Comfort Cloud App.

CZ-TACG1

Interface adapter for integration into S-Link, plus external input and alarm/status output.

CZ-CAPRA1

KNX interface. Can be used with all models which have a CN-CNT connector (Intesis).

PAW-AC-KNX-1i

Modbus interface. Can be used with all models which have a CN-CNT connector (Intesis).

PAW-AC-MBS-1

BACnet interface. Can be used with all models which have a CN-CNT connector (Intesis).

PAW-AC-BAC-1

KNX interface. Can be used with all models which have a CN-CNT connector (Airzone).

PAW-AZAC-KNX-1

Modbus interface. Can be used with all models which have a CN-CNT connector (Airzone).

PAW-AZAC-MBS-1

BACnet interface. Can be used with all models which have a CN-CNT connector (Airzone).

PAW-AZAC-BAC-1

This interface can be used with all models which have a CN-RMT connector.

PAW-AC-DIO

Individual controls

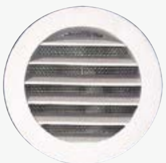
Wired remote controller for wall-mounted and floor console.

CZ-RD517C

RAC Solo accessories

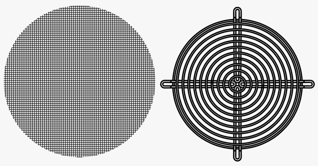
Kit of external aluminium grids with fixed fins (162 mm holes).

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).

PCZ-GB0755

Condensate drain pipe heater kit*.

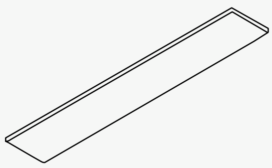
PCZ-GB1119

Side exit formwork for corner installation (right-hand outlet).

PCZ-L00773

Side exit formwork for corner installation (left-hand outlet).

PCZ-L00774



Bottom cover kit for overhead installation for P-MOZ20/25/30IC5-E.

PCZ-GB0737

Bottom cover kit for overhead installation for P-MOG16IC5-E.

PCZ-GB1105

* Check availability.

Notes

Notes

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 center, who are more than qualified to support Panasonic clients in 13 different languages across Europe.

Our service center in Europe for end customers:

Country	B2C support center	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 2 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 center	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-Sat 7-18h
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

www.eggeassociats.net

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.

Panasonic®

To find out how Panasonic cares for you, log on to: www.aircon.panasonic.eu

Panasonic Nordic
Branch of Panasonic Marketing Europe GmbH, Germany
Panasonic Heating & Ventilation Air-conditioning Europe
Sundbybergsvägen 1, SE-171 73 Solna, Sweden

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