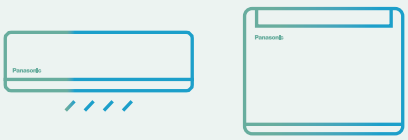
Panasonic

Domestic
2022 / 2023



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.

2050

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

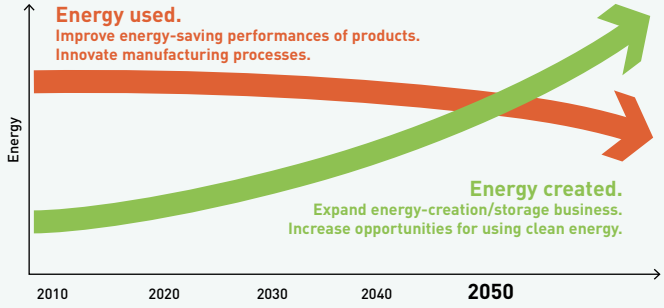
Energy used by Panasonic business activities and products.

10 Energy used

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

1 Energy created

Working to realise environmental vision 2050



Projects and case studies of Panasonic Heating & Cooling Solutions

Panasonic, a partner with the knowledge and experience to achieve your objectives and green needs.

Integrated technology that permits better work, easy installation, high efficiency performance, and energy savings

Our main targets are the distributed services and B2B-integrated solutions.
Panasonic provides a single point of contact for the design and maintenance of your system, making things easy for you. Given our experience in processes, technologies and complex business models, we can offer you effective solutions that reduce costs, whilst also being efficient, user-friendly, reliable and innovative. Another advantage we offer to our clients is a support service for systems integration projects, which we provide through our wide range of services and solutions. As a global company, we have at our disposal the financial, logistical and technical resources to develop complex and wide-ranging solutions, both at country and international level by implementing them both on-time and on-budget.

Aquarea Heat Pumps provide heating and hot water for new rural housing development, UK. **Aquarea**

The Hotel Vincci Gala with efficiency class A, up to 70 % save energy. Barcelona, Spain. **ECOi - ECO G**

STEMCELL Technologies, a global biotechnology company, installed CO_2 condensing units - CR Series for cold rooms in the warehouse. France. **Refrigeration**

The EDEKA store in Germany, the first supermarket providing the maintenance-free nanoe™ X technology for better indoor air quality. Germany. **ECOi and nanoe™ X**

Aquarea T-CAP provides a complete solution of heating, cooling and DHW for the refurbishment of a luxury house in Voorthuizen, Netherlands. **Aquarea**

CÉDRUS LIGET, a complex facility including apartments, penthouses and showrooms etc. Hungary. **ECOi-W - ECOi - PACi**

Dolomiti Lodge Alverà hotel with nice wooden furnishings, located in Cortina d'Ampezzo, Italy. **ECOi**

LIAIGRE showroom, well-known as a luxury design architect in Paris, France. **ECOi**

Marina Village Greystones. 205 apartments and 153 houses. Ireland. **Aquarea**

ITK Engineering GmbH. An innovative office building located in Germany. **ECOi - PACi**

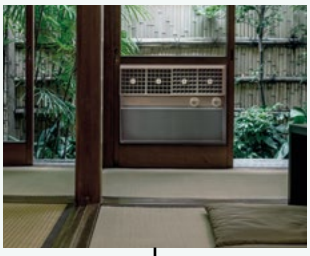
A historic building on Amsterdam's Marineterrein. Netherlands. **ECOi-W**

Nolan's supermarket in Ireland installs the first Panasonic CO_2 condensing units - CR Series for showcases. Ireland. **Refrigeration**

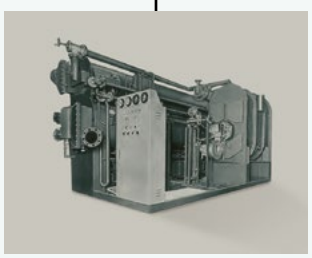
A desire to create things of value

"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.

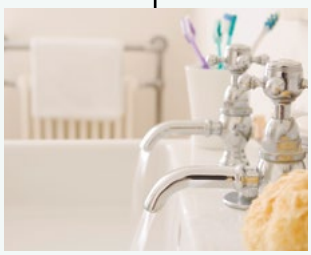
1982
Panasonic launches the first highly efficient air to water heat pump in Japan.

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.



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.

2012

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

2015

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

2016

New VRF Systems ECOi EX with extraordinary energy saving performance.

2018

The first Hybrid System with VRF and GHP in 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.

2021

Mini VRF R32 up to 10 HP. Outstanding efficiency in a compact body.

Looking ahead

100 % Panasonic, the DNA of Japanese craftsmanship

JAPAN QUALITY

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.

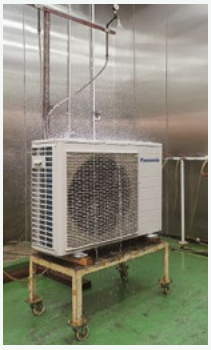
Sophisticated production process.
Panasonic's air conditioner production lines employ state-of-the-art factory automation technologies to ensure products are manufactured with high attention to quality to meet expectations of reliability and trustworthiness.

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).

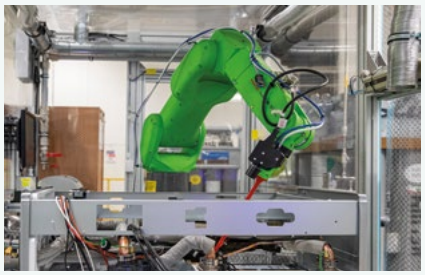
A globally trusted air conditioning brand

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

In 2018 Panasonic initiated the production of air to water heat pumps in its factory in Pilsen, Czech Republic. Keeping an excellent combination of highly skilled human resources and production automation the big demand growth foreseen in Europe can be met with outstanding quality standards.

Factory in Pilsen, Czech Republic.



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.

Panasonic R&D Center Germany GmbH.

The European Research and Development Center of Panasonic focusing on technology development for intelligent and environmentally friendly future products, such as audio video, communication and energy solutions.

Panasonic R&D Center Germany GmbH.

38 Training Center in 19 countries in Europe

The Panasonic PRO Academy.

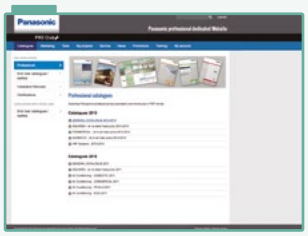
Heating and Cooling business is changing rapidly, new technologies, new regulations, new solutions that require continuous update for professionals. Panasonic takes its responsibility to its distributors, specifiers and installers seriously and has developed a comprehensive training programme with 38 Training Center in 19 countries in Europe.

PRO Club. The professional website of Panasonic

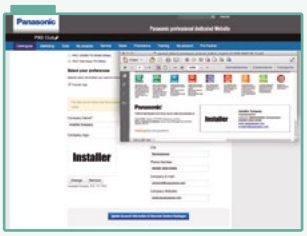
Panasonic has an impressive range of support services for designers, specifiers, engineers and distributors working in the heating and cooling markets.

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!

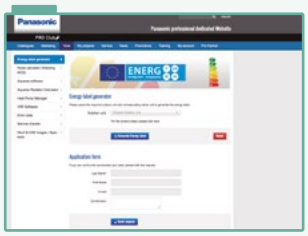
- Print catalogues with your logo and contact details
- Access to the extensive library of professional design, selection and calculation tools (Aquarea Designer, VRF software, chiller selector, etc.)
- Get documents of conformity and all other documents you may need
- Download all the service manuals, 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



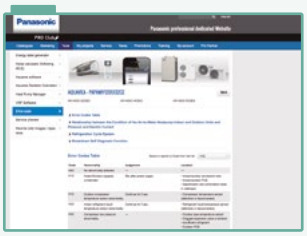
Easy download Panasonic service documentation and brochures.



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.

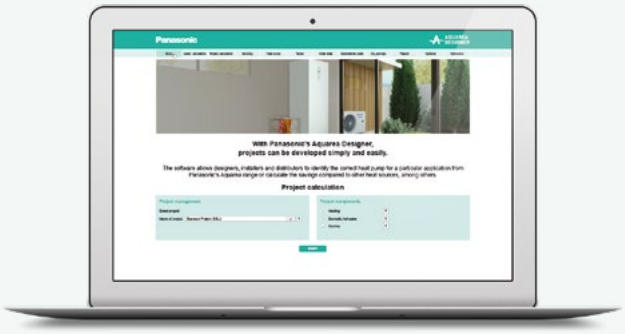
Visit www.panasonicproclub.com or connect simply with your smartphone to the PRO Club using this QR.

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.



Domestic AirCon Quick Selector

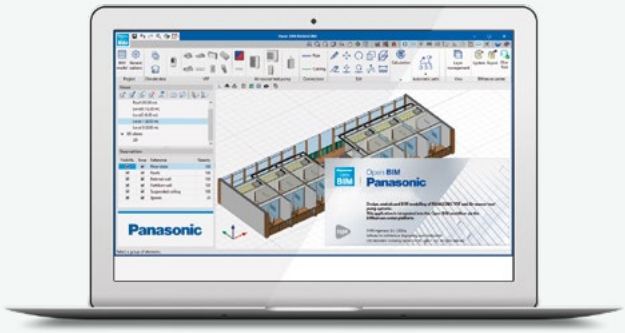
This user-friendly online tool for our domestic range allows to choose the best split or multi-split system for each project needs and get the specifications of that particular application.

VRF Designer

Building on the success of the ECOi VRF Designer software, this package provides air conditioning system designers, installers and dealers with a program to design and size projects for Panasonic's VRF ranges.

Open BIM

Design, analysis and BIM modeling of Panasonic VRF and Air to Water heat pump systems. Generates documents, 3D model, schematics and drawings. This application is integrated into the Open BIM workflow via the BIMserver.center platform.

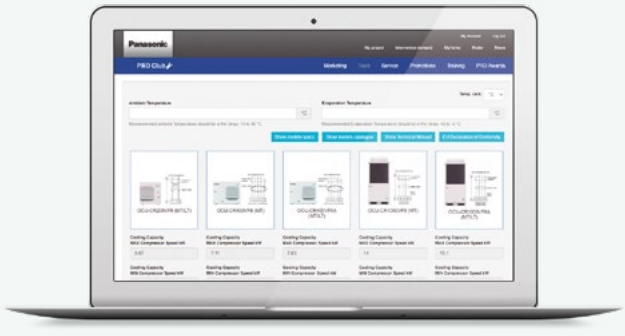


Chiller configurator

This online software solution offers a complete tool to allow the user to accurately calculate the performance at specified conditions, select and configure our range of commercial chillers, heat pumps and fan coils. It also provides a comprehensive report to share with customers and clients alike.

Refrigeration tool

Panasonic has launched a new online calculator to support engineers, installers, and technicians to quickly make calculations when specifying solutions for commercial refrigeration systems.



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.

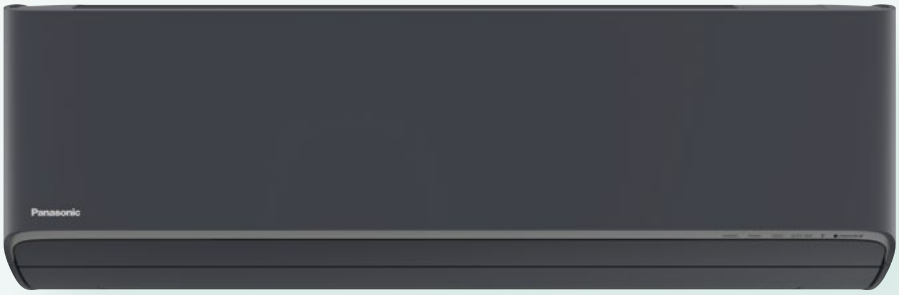
Flagship. The high-efficiency air-to-air heat pump for Nordic usage.

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.

FLAGSHIP

FLAGSHIP



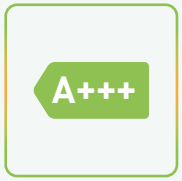
Panasonic domestic air to air heat pump

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.

Bringing nature's balance indoors → 16
Panasonic Comfort Cloud App → 20
Voice Control. Words do more than actions → 24
Super-compact units → 26

A complete selection for Nordic households → 28
VZ Heatcharge · R32 → 30
HZ Flagship · R32 → 32
LZ Retro Fit 249 · R32 → 34
NZ Etherea · R32 → 36
CZ super-compact · R32 → 38
Floor console · R32 → 40

Control and connectivity → 42
Accessories and control → 43



Bringing nature's balance indoors

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

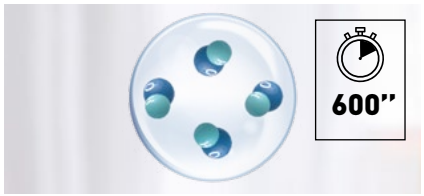
In today's health-conscious world, we care about taking exercise, we care about what we eat and what we touch, we also care about what we breathe – and technology exists to bring good outdoor air, indoors.

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.

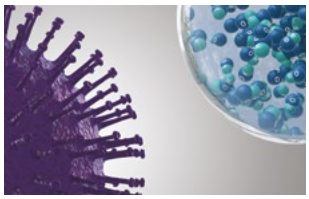


Hydroxyl radicals contained in water.

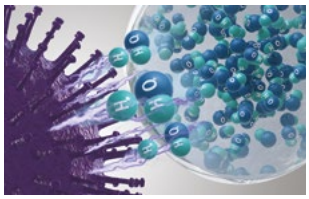
By creating hydroxyl radicals contained in water, nanoe™ X technology significantly boosts their effectiveness, increasing hydroxyl radicals lifetime from less than a second in nature, to more than 600 seconds – 10 minutes so that nanoe™ X can spread easily around the room.

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

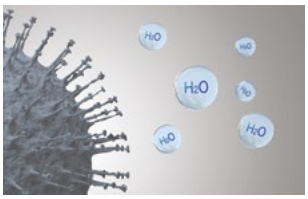
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



2 | Hydroxyl radicals denature pollutants' proteins.



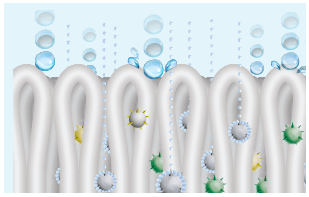
3 | Pollutants activity is inhibited.

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.

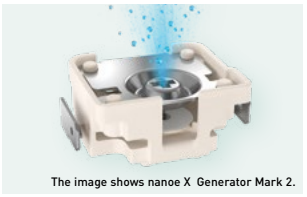
Longer lifespan.

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 2 produces 9,6 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 2.

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

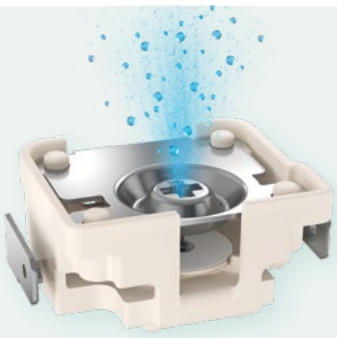
Capacity to inhibit 5 types of pollutants

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.

The latest nanoe™ X device uses a "multi-leader discharge" system that focuses the discharge to 4 needle-shaped electrodes, greatly expanding the hydroxyl radicals.



The image shows nanoe X Generator Mark 1.

How nanoe™ X is generated.

1 | Atomised electrode produces condensation.
2 | Electrical discharge is applied to the water
3 | nanoe™ X particles are generated

nanoe™ X, internationally-validated technology in testing facilities

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

Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

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

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

	Tested contents		Result	Capacity	Time	Testing organisation	Report No.
Airborne	**Virus**	Bacteriophage ΦX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
Adhered	**Virus**	SARS-CoV-2	91,4 % inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	99,9 % inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Feline Coronavirus	99,3 % inhibited	45 L	2 h	Yamaguchi University Faculty of Agriculture	—
		Xenotropic murine leukemia virus	99,999 % inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Influenza (H1N1 subtype)	99,9 % inhibited	1 m³	2 h	Kitasato Research Center for Environmental Science	21_0084_1
		Bacteriophage ΦX174	99,80% inhibited	25 m³	8 h	Japan Food Research Laboratories	13001265005-01
	Bacteria	Staphylococcus aureus	99,9 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Ambrosia pollen	99,4 % inhibited	20 m³	8 h	Danish Technological Institute	868988
		Cedar	97 % inhibited	Approx. 23 m³	8 h	Panasonic Product Analysis Center	4AA33-151001-F01
	Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04

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.

First nanoe™ device was developed by Panasonic in 2003

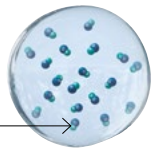
Generator: nanoe™

2003

480 billion hydroxyl radicals/sec

Ion particle structure

Hydroxyl Radicals

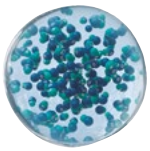


Generator: nanoe™ X

Mark 1 - 2016

4,8 trillion hydroxyl radicals/sec

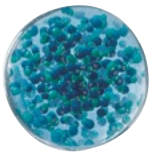
10x times



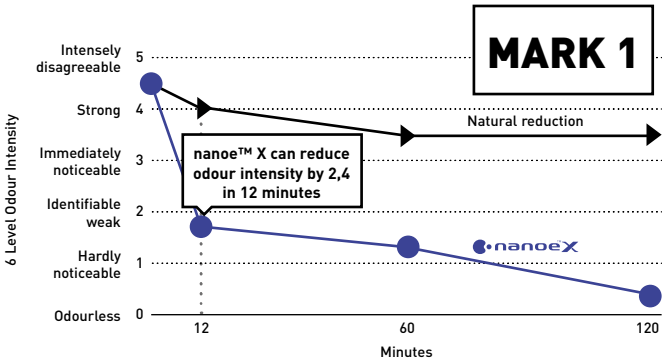
Mark 2 - 2019

9,6 trillion hydroxyl radicals/sec

20x times

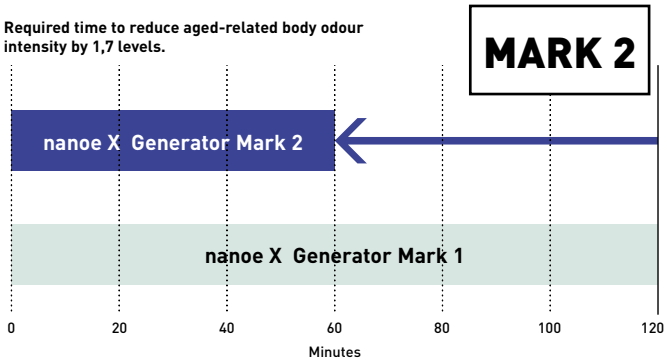


nanoe X Generator Mark 1 can reduce cigarette smoke odour intensity by 2,4 levels in 12 minutes



Deodorisation effect for adhering odour (cigarette smoke). Deodorisation test.
Testing organisation: Panasonic Product Analysis Center. Testing method: Verified using the six-level odour intensity scale method in an approximately 23 m³ sized test room. Deodorisation method: nanoe™ released. Test substance: Surface-attached cigarette smoke odour. Test result: Odour intensity reduced by 2,4 levels in 12 minutes. (4AA33-160615-N04).

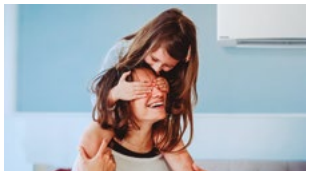
nanoe X Generator Mark 2 can reduce the aged-related body odour in half of the time



Deodorisation test.
Testing organization: Panasonic Product Analysis Center. Testing method: Verified using the six-level odour intensity scale method in an approximately 23 m³ sized test room. Deodorisation method: nanoe™ released. Test substance: Surface-attached aged related body odour. Test result: Odour intensity reduced by 1.7 levels in 1 hour (Y18HM059).

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.

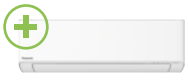
nanoe™ X: improving protection 24/7

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

Built-in nanoe X Generator Mark 2.

Wall-mounted HZ Flagship.
CS-HZ**XKE.
2 capacities: 2,5 - 3,5 kW.

Wall-mounted HZ-H Flagship.
CS-HZ**XKE-H.
2 capacities: 2,5 - 3,5 kW.


Wall-mounted NZ Etherea.
CS-NZ**YKE.
3 capacities: 2,5 - 5,0 kW.

Built-in nanoe X Generator Mark 1.

Floor console.
CS-Z**UFEAW-1.
2 capacities: 2,5 - 3,5 kW.

Built-in nanoe™.

Wall-mounted VZ Heatcharge.
CS-VZ**SKE.
2 capacities: 2,5 - 3,5 kW.

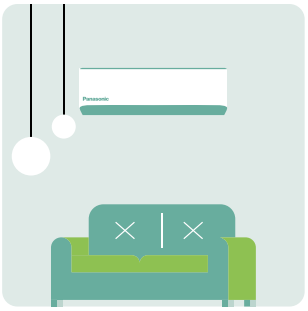
nanoe™ X: improving protection 24/7

Welcome to the connected world of Panasonic Comfort Cloud App

Whether you are at home, at the office or running a business, Panasonic Comfort Cloud put total control of your indoor air quality at your fingertips.

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.



1 Smart control

In control of cooling comfort anytime, anywhere.
· Control multiple units in 1 group (up to 20 units per group and up to 10 different groups)
· Control multiple units in multiple locations

2 Smart comfort

Easily manage your comfort and air quality.
· Remotely access all AC features
· Activate 24-hour nanoe™ X [1]
· Pre-heat or cool spaces

1) nanoe™ X is available in certain series.

3 Smart efficiency

More comfort with less wasted energy.
· Analyze energy usage patterns [2]
· Compare usage history for better budget planning

2) Estimated energy consumption data accuracy depends on power supply quantity.

4 Smart assist

Be informed of breakdowns.
· Assign other users while you are away
· Effortless troubleshooting [3]

3) Contact trained technicians to perform any repairing / service.

Panasonic Comfort Cloud App connectable up to 200 units. 20 units per group.

The smartest way to bring convenience to your living space (living room, bedroom, study room...) and business (spa, schools, restaurants...).

New possibilities, new applications

Families.
Different users can be set up, such as each child can manage their own room. In second homes, rooms can be remotely pre-cooled or pre-warmed, or turned off if needed.

Multi tenant owner.
The ability to manage up to 200 units with just one smartphone. It allows for quick and efficient maintenance through remote error codes and the knowledge of consumption.

Small and medium sized offices.
Owner can control different rooms of the office easily and give unit by unit access to their staff. Also provides information to know where energy might be wasted for heating and cooling and promoting best comfort practices.

Experience what Panasonic Comfort Cloud App can do for you and for your commercial spaces

Quick access to preset operations.
Panasonic Comfort Cloud App comes with many different preset modes (auto, heat, cool, dry, nanoe)*. Choose the best mode that suits your lifestyle or your business space.

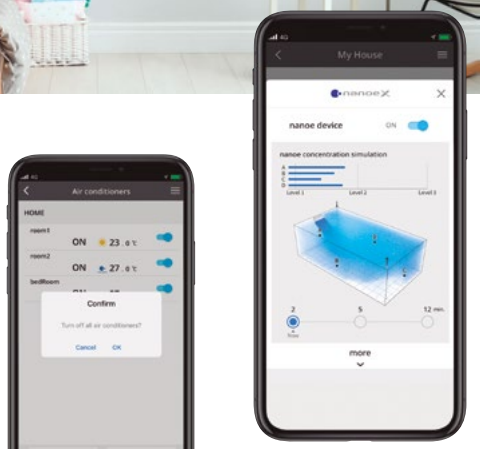
* Available mode depends on your model.

Pre-heat your home before arriving.
After a hectic day outside, when you depart for home, pre-cool or pre-heat it before arriving and be greeted with a welcoming home.

Conveniently turn ALL ON / OFF.
Never have to worry about individually switching ON / OFF your air conditioner units. You can now do it with a single tap of a button.

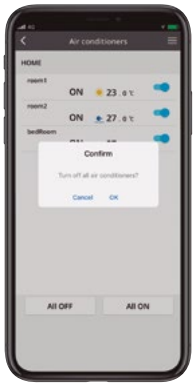
Monitor your energy consumption.
Monitor and compare your air conditioner energy consumption across different time intervals such as daily, weekly, monthly and yearly.

Clean the air of your home all day long with nanoe™ X.
Activate nanoe™ X technology with the with the benefits of hydroxyl radicals.



Smart control at your fingertips

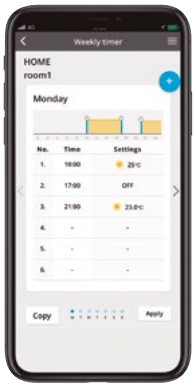
With Panasonic Comfort Cloud App, the user can manage all functions of the heat pump such as nanoe™ X, air flow direction, speed, temperature setting, mode, plus more.



Energy monitor and statistics

Knowing the energy each unit uses when operating is key to see opportunities to reduce the energy bill. Panasonic Comfort Cloud App stores the energy consumption* of each unit, which can then be shown in easy and powerful statistics graphs.
With the weekly timer the operation can be adjusted to optimise the usage of the energy.

* Estimated energy consumption data accuracy depends on power supply quality.
** This function is available from YKE, XKE, WKE, VKE, TKE and UKE generation.



nanoe™ X: improving protection 24/7

Improve the protection of your living spaces at all hours of the day. Turn nanoe™ X on or off easily with "One-touch nanoe™ button" on the main screen. Panasonic Comfort Cloud App includes a nanoe™ X Concentration Simulator to see how the nanoe™ X particles fulfill the room.

* Only for units compatible with nanoe™ X function. The Concentration Simulator is beta version covering limited patterns of simulation results.

Connection diagram

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.

Built-in Wi-Fi.
CS-HZ**XKE-H, CS-HZ**XKE and CS-NZ**YKE.

Optional CZ-TACG1 Wi-Fi accessory required.
CS-VZ**SKE, CS-LZ**TKE, CS-CZ**WKE and CS-Z**UFEAW-1.

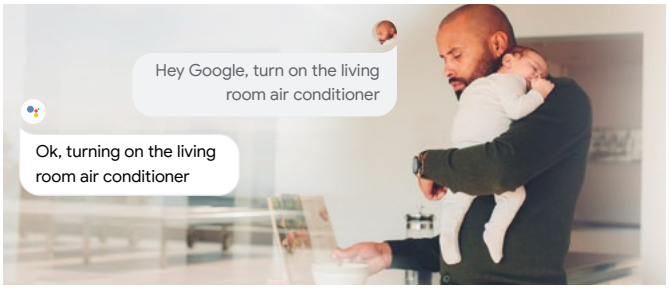
Remark: indoor temperature display and some special functions are not available through the app for all models. Languages: Available in 19 European languages: Bulgarian, Croatian, Czech, Danish, Deutsch, English, Estonian, Finnish, French, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Slovenian, Spanish, Swedish and Turkish.

Voice Control. Words do more than actions

Control without boundaries and get hands-free help to fully access the features of your air conditioners. Maximising your cooling comfort is now a breeze with our Network-Enabled air conditioners with Panasonic Comfort Cloud App and Voice Control.

1 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.



2 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.

3 Adjust temperature

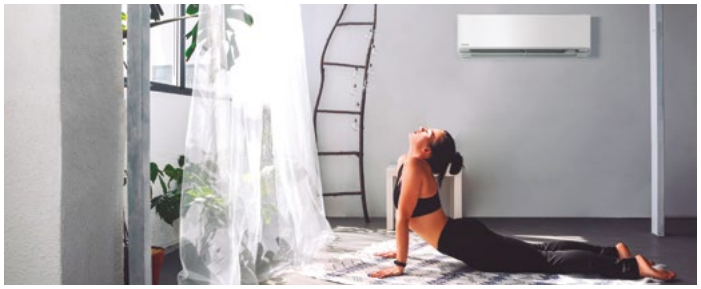
Easy control for uninterrupted quality time.
Adjust AC temperature to your comfort with a simple voice command.

4 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.

Example of morning routine.

Example of night routine.

Find out more: [Amazon] https://www.techhive.com/article/3327501/how-to-use-alexa-routines.html

Voice Control with Network-Enabled air conditioners

Functions		When you are home		When away from home
		Remote Control	Voice Control	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	✔	—	✔
	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 current mode	✔	✔	✔
	Check temperature settings	✔	✔	✔
	Check room temperature	✔	✔	✔

Seamless set up in 3 simple steps

Set up your Panasonic Comfort Cloud App.

Set up your GOOGLE NEST MINI or Amazon Echo devices and app.

Link your Google Nest Mini or Amazon Echo with Panasonic Comfort Cloud App.

Compatible device and browsers as of June 2020

1. Android™ 5.0 Lollipop or above
2. iOS 9.0 or above

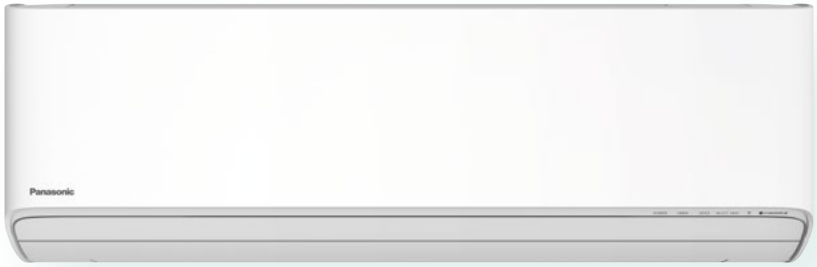
Please note:
- This is not a definitive list of all compatible devices, other similar devices which use supported Operating Systems should also work either via dedicated apps. Please note that user experience may vary slightly depending on hardware and software combination
- Google, Android, Google Play 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
- More information about set up procedures: https://aircon.panasonic.com/connectivity/application.html
- Google Assistant and Alexa are compatible with the models shown in page 28

Download on the App Store
GET IT ON Google Play

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.



FEATURE AVAILABLE IN HZ, NZ AND CZ

1 Simple installation

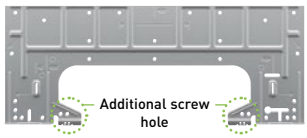
Thanks to advanced improvements, installation time has been dramatically decreased. The models have been designed to provide more stability and strength for neat installation, with newly built-in support and convenient access to the drain hose, cabling inserts and larger space for secure installation.

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.

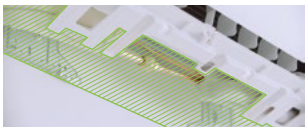
One-piece front grille: Easy removal.

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.

Bigger working space.



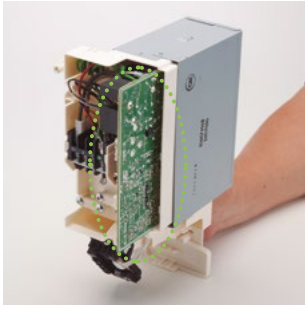
5. Easy wire insertion and tightening.
The models have combined 2 wire inserts into 1, ensuring front visibility and convenience while inserting wires from the back.

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.



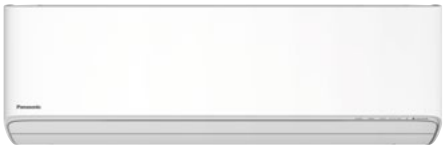
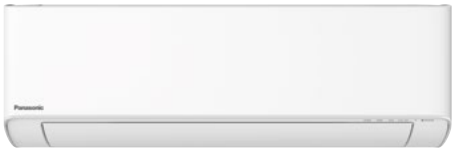
7. Easy / hidden installation of the Wi-Fi adapter.
The latest model features a dedicated space for a network adapter. Easy to plug in, the guided wire slots allow for clear, easy installation and can be neatly tucked away - simple and out of sight!

* 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.

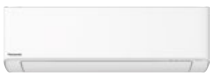
A complete selection for Nordic households

Page	Indoor units	2,5 kW	3,5 kW	5,0 kW
	Wall-mounted VZ Heatcharge Inverter+ · R32			
P. 30		CS-VZ9SKE CU-VZ9SKE	CS-VZ12SKE CU-VZ12SKE	
	Wall-mounted HZ Flagship Inverter+ · R32			
P. 32		CS-HZ25XKE-H CU-HZ25XKE	CS-HZ35XKE-H CU-HZ35XKE	
		CS-HZ25XKE CU-HZ25XKE	CS-HZ35XKE CU-HZ35XKE	
	Wall-mounted LZ Retro Fit Inverter+ · R32			
P. 34		CS-LZ25TKE CU-LZ25TKE	CS-LZ35TKE CU-LZ35TKE	
	NEW Wall-mounted NZ Etherea Inverter+ · R32			
P. 36		CS-NZ25YKE CU-NZ25YKE	CS-NZ35YKE CU-NZ35YKE	CS-NZ50YKE CU-NZ50YKE
	Wall-mounted CZ super-compact Inverter · R32			
P. 38		CS-CZ25WKE CU-CZ25WKE	CS-CZ35WKE CU-CZ35WKE	
	Floor console Inverter+ · R32			
P. 40		CS-Z25UFEAW-1 CU-Z25UFEA-1	CS-Z35UFEAW-1 CU-Z35UFEA-1	

Choose the correct model

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.

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 2	✔	✔ 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+++	**5,69** [3] **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 Gas					
✔	✔	✔	✔	✔	✔
Compatible with Internet control					
✔	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

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.

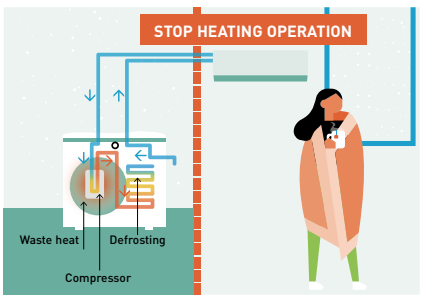
1 Powerful, reliable heating even at low ambient winter temperatures

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!

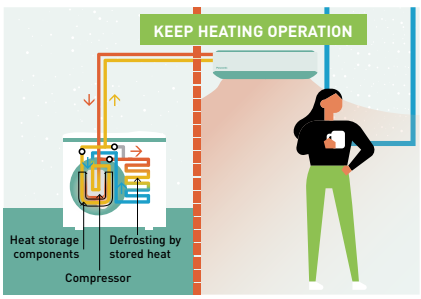
Constant heating.
Using stored heat provides stable heating with less drop in temperature.

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.

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.



* 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.

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

Wall-mounted VZ Heatcharge Inverter+ · 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

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
Pipe length for additional gas		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

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 | A+++ 6,20 SCOP | A+++ 10,50 SEER | 38% ECONAVI | INVERTER+ | R2 ROTARY COMPRESSOR | nanoe | 18 dB(A) | -35 °C HEATING MODE TESTED BY SP | SUMMER HOUSE | R22 / R410A RENEWAL | INTEGRATION TO S-LINK | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

SCOP and SEER: For CS-VZ9SKE. -35°C HEATING MODE: Heating performance tested at -35°C by SP, 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.

FLAGSHIP

Flagship with nanoe™ X technology

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.

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 certain 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 18 for more detail). nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

2 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

3 Smart control

- Integrated built-in Wi-Fi
- Advanced control via smartphone
- Compatible with Google Assistant and Amazon Alexa [2]

4 Ultimate comfort

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

5 New design

- Stylish, monolithic design
- High class, easy-to-use remote control with backlight

1) 2,5 kW model. 3,5 kW model up to -20 °C. 2) Google, Android, Google Play and Google Home are trademarks of Google LLC. 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. More information about set up procedures: https://aircon.panasonic.com/connectivity/application.html.

Flagship specially designed for the tough Nordic climate. Thanks to its exceptional performance and reliability, it is one of the best-selling heat pumps in the Nordic region. Its efficiency helps to quickly reaches a comfortable indoor temperature and keeps A+++ class.

nanoe™ X

Wall-mounted HZ Flagship Inverter+ · R32

- nanoe™ X technology to improve protection 24/7 (nanoe X Generator Mark 2).
- Sleek and stylish design in matt white and graphite grey
- Improved SEER/SCOP to achieve top class energy efficiency
- 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

Maximum capacity			**7,50 kW**	**7,90 kW**
Indoor unit graphite grey			**CS-HZ25XKE-H**	**CS-HZ35XKE-H**
Indoor unit white			**CS-HZ25XKE**	**CS-HZ35XKE**
Outdoor unit			**CU-HZ25XKE**	**CU-HZ35XKE**
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	3,00	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	792	1057
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,50 (0,85 - 4,00)
SEER [3]			**8,70 A+++**	**8,50 A+++**
Pdesign (cooling)		kW	2,50	3,50
Input power	Nominal (Min - Max)	kW	0,46 (0,17 - 0,67)	0,80 (0,17 - 0,99)
Annual energy consumption [4]		kWh/a	101	144
Indoor unit				
Power supply		V	230	230
Air flow in powerful mode	Heat / Cool	m³/min	16,80 / 15,22	16,80 / 15,22
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)	44 / 25 / 20	44 / 28 / 20
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 2	Mark 2
Outdoor unit				
Air flow	Heat / Cool	m³/min	32,7 / 32,7	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
Pipe length for additional gas		m	7,5	7,5
Additional gas amount		g/m	10	10
Refrigerant (R32) / CO_2 Eq.		kg / T	1,06 / 0,716	1,06 / 0,716
Operating range	Heat Min ~ Max	°C	-25 ~ +24	-25 ~ +24
	Cool Min ~ Max	°C	+16 ~ +43	+16 ~ +43

Confirmed operational data from third-party tests				
SCOP [7]			**5,69**	**5,62**
Heating capacity at -20 °C [8]		**kW**	**4,29**	**4,41**
Operating range [9]	**Heat Min**	**°C**	**-35**	**-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) SCOP tested by the independent test laboratory DTI in accordance with EN 14825: 2018. 8) The capacity at -20 °C was tested by independent test laboratory DTI in accordance with EN 14511: 2018. 9) Tested by DTI, an independent test laboratory, in accordance with EN 14511: 2018. 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

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

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

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

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.

Wall-mounted LZ Retro Fit 249 Inverter+ · 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
Pipe length for additional gas		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

R32 | A+++ 5,17 SCOP [5] | A++ 7,60 SEER | INVERTER+ | R2 ROTARY COMPRESSOR | SUPER DUST COLLECTION FILTER | 18 dB(A) | -35 °C HEATING MODE TESTED BY DTI [9] | REPLACEMENT | R22 R410A → R32 R22 / R410A RENEWAL | INTEGRATION TO S-LINK | OPTIONAL WI-FI | 5 YEARS COMPRESSOR WARRANTY

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

Rating Conditions: Cooling Indoor 27 °C DB / 19 °C WB. Cooling Outdoor 35 °C DB / 24 °C WB. Heating Indoor 20 °C DB. Heating Outdoor 7 °C DB / 6 °C WB. (DB: Dry Bulb; WB: Wet Bulb).
Specifications subject to change without notice. For detailed information about ErP / Energy Labelling, please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

New Etherea

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!

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

The unit is ready to be connected to the internet and controlled by a smartphone with the Panasonic Comfort Cloud App. Control, monitor, and schedule with an easy interface.
By connecting to the Panasonic Comfort Cloud App, 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.

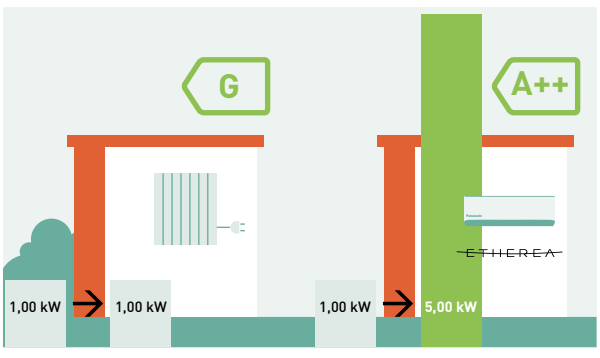
3 nanoe™ X: Bringing nature's balance indoors

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.

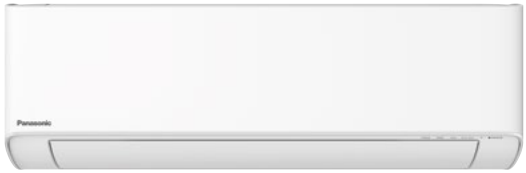
The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect (see page 18 for more detail). nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

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 and CS-NZ35YKE compared with electrical heaters at +7 °C.



NEW 2022

nanoe™X

NEW Wall-mounted NZ Etherea Inverter+ · 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 with new chassis and parts design
- Built-in Wi-Fi for smart control
- Compatible with Google Assistant and Amazon Alexa

Maximum capacity			**6,50 kW**	**7,40 kW**	**8,30 kW**
Indoor unit			**CS-NZ25YKE**	**CS-NZ35YKE**	**CS-NZ50YKE**
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	109	153	219
Indoor unit					
Power supply		V	230	230	230
Air flow	Heat / Cool	m³/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
Outdoor unit					
Air flow	Heat / Cool	m³/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
Pipe length for additional gas		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 · A++ 5,00 SCOP · A++ 8,00 SEER · INVERTER+ · R2 ROTARY COMPRESSOR · nanoeX · 19 dB(A) · AEROWINGS · -25 °C HEATING MODE · SUMMER HOUSE · R22 / R410A RENEWAL · INTEGRATION TO S-LINK · BUILT-IN WI-FI · 5 YEARS COMPRESSOR WARRANTY

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

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

HEATING POSSIBLE AT -25 °C

1 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.
New structure for easier installation and servicing. Installation requires fewer steps and less time.

2 High heating capacity and SCOP

CZ series heating capacity has further improved and, thanks to the high SCOP, CZ is a perfect solution to achieve high energy savings while keeping a high level of comfort.

3 Perfect for your summer house

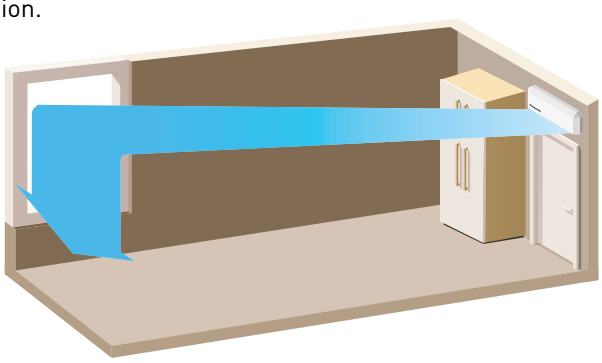
Thanks to its +8/+15-degree function, you can keep your summer house, garage, or permit-free auxiliary building frost-free without using a lot of energy.

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.

Wall-mounted CZ super-compact Inverter · 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
- Optional internet and voice control

Maximum capacity			**5,20 kW**	**6,70 kW**
Indoor unit			**CS-CZ25WKE**	**CS-CZ35WKE**
Outdoor unit			**CU-CZ25WKE**	**CU-CZ35WKE**
Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,20)	4,00 (0,85 - 6,70)
COP [1]		W/W	4,66	4,08
Heating capacity at -7 °C [2]		kW	3,30	4,05
COP at -7 °C [1]		W/W	2,54	2,19
Heating capacity at -15 °C [2]		kW	2,70	3,60
COP at -15 °C [1]		W/W	2,25	2,22
Heating capacity at -20 °C [2]		kW	2,10	3,00
COP at -20 °C [1]		W/W	1,91	1,90
Heating capacity at -25 °C [2]		kW	1,50	2,40
COP at -25 °C [1]		W/W	1,60	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 - 1,45)	0,98 (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]			**6,60 A++**	**6,40 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	133	191
Indoor unit				
Power supply		V	230	230
Air flow	Heat / Cool	m^3/min	12,5 / 11,2	12,8 / 12,1
Moisture removal volume		l/h	1,5	2,0
Sound pressure [5]	Heat (Hi / Lo / Q-Lo)	dB(A)	40 / 27 / 20	42 / 33 / 20
	Cool (Hi / Lo / Q-Lo)	dB(A)	39 / 25 / 22	42 / 28 / 22
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	29,7 / 31,3	30,5 / 32,9
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
Pipe length for additional gas		m	7,5	7,5
Additional gas amount		g/m	10	10
Refrigerant (R32) / CO_2 Eq.		kg / T	0,84 / 0,567	0,84 / 0,567
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-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-CZ25WKE. 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.

Floor console. Efficient comfort and clean air all year round

Floor console with new 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.

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 18 for more detail). nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

2 Superquiet operation

When the system reaches its set temperature, the unit will operate at only 19 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

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

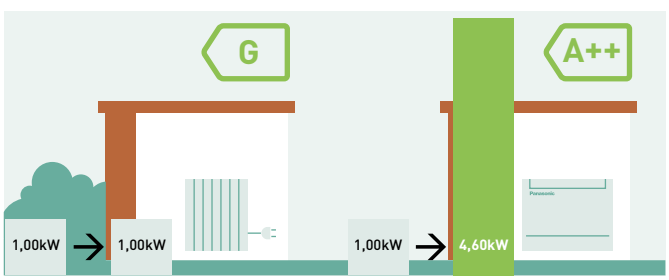
Easy to integrate into your home

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 compared with electrical heaters at +7 °C.

The perfect solution for the replacement of old boiler heating systems

Floor console Inverter+ · 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

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
Pipe length for additional gas		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

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.

Control and connectivity

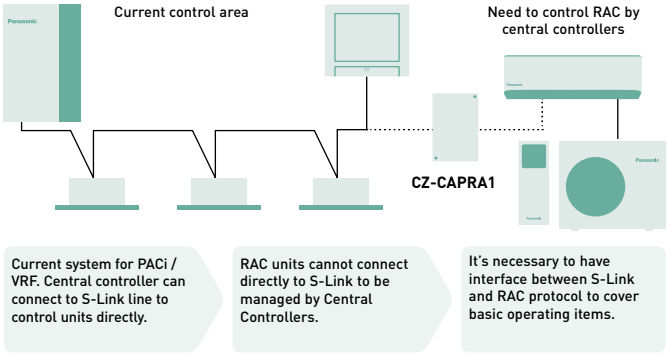
Panasonic offers its customers cutting-edge technology, specially designed to ensure our air conditioning systems deliver even higher performance.
You can properly manage the air conditioning and perform comprehensive monitoring and control, with all of the features the remote controller provides at home, from anywhere in the world thanks to the internet applications Panasonic has created for you.

Domestic integration to S-Link - CZ-CAPRA1

Can connect RAC range to S-Link. Full control is now possible.

Integrates any unit in big system control.
· YKEA server room integration [1]
· Small offices with domestic indoors
· Tender for refurbishment (old system Domestic and VRF in one installation)

1) When duty rotation using the remote controller is set up, CZ-CAPRA1 cannot be connected.



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 [1]**:** Operation status (ON / OFF), Alarm status output.

1) Because current CN-CNT connector can not provide the power for external output relay, additional Input power for external relay is necessary.

Connectivity. Control by BMS

Great flexibility for integration into your KNX, Modbus and BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters.

Reference	KNX PAW-AC-KNX-1i	Modbus® PAW-AC-MBS-1	BACnet™ PAW-AC-BAC-1 [1]
Quick installation and possibility of hidden installation	✔	✔	✔
External power not required	✔	✔	✔
Direct connection to the AC indoor unit	✔ (Split or multi split)	✔ (Split or multi split)	✔ (Split or multi split)
Control and monitoring of the internal variables of the indoor unit and error codes and indication	✔ Fully compatible	✔ Fully compatible	✔ Fully compatible
Use the AC ambient temperature or the one measured by external sensor	✔	✔	Only internal temperature
AC unit can be controlled simultaneously by the remote controller of the AC unit and interface devices	✔	✔	✔
Advanced control functions	✔	✔	✔
4 binary inputs. They work as standard interface binary inputs as well as being used to control the AC directly	✔	✘	✘
Total control and supervision. Real states of the AC unit's internal variables	✔	✔	✔

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.

PAW-AC-DIO

Dry contact ON / OFF Interface. Panasonic has developed for hotels applications a dry contact PCB which works with Etherea, RE, UE and YE indoor units in order to control simply the unit centrally.
· ON / OFF signal by 3rd party BMS
· PCB connected to CN-RMT port on indoor unit PCB

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	This interface can be used with all models which have a CN-CNT connector
PAW-AC-MBS-1	This interface can be used with all models which have a CN-CNT connector

Model name	Interface
PAW-AC-BAC-1	This interface can be used with all models which have a CN-CNT connector
PAW-AC-HEAT-1	Heating only PCB for Etherea and low static pressure hide-away
PAW-AC-DIO	This interface can be used with all models which have a CN-RMT connector

Accessories and control

Connectivity

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

———
CZ-TACG1

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

———
CZ-CAPRA1

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

———
PAW-AC-KNX-1i

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

———
PAW-AC-MBS-1

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

———
PAW-AC-BAC-1

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

———
PAW-AC-DIO

Heating only PCB for Etherea and low static pressure hide-away.

———
PAW-AC-HEAT-1

Individual controls

NEW wired remote controller for wall-mounted and floor console.

* Available in Winter 22.

———
CZ-RD517C

Wired remote controller for wall-mounted and floor console.

———
CZ-RD514C

Energy saving

R32 Refrigerant gas R32 Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP).

A+++ 10,50 SEER Exceptional Seasonal Cooling Efficiency based on the new ErP regulation. Higher SEER ratings mean greater efficiency - year-round cooling savings!

A+++ 6,20 SCOP Exceptional Seasonal Heating Efficiency based on the new ErP regulation. Higher SCOP ratings mean greater efficiency - year-round heating savings!

38% ECONAVI Domestic Econavi. 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 + Inverter Plus System classification highlights Panasonic's highest performing systems.

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)).

AEROWINGS More comfort with Aerowings. Direct air flow to the ceiling, creating a shower cooling effect with built-in twin flap.

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.

R22 R410A → R32 R22 / R410A RENEWAL R410A/R22 renewal. The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.

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.

OPTIONAL WI-FI Internet control. A next generation system providing user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone, tablet or PC via the internet.

BMS CONNECTIVITY Connectivity. The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.

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

CE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Quality Management System Certificate

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

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

Environmental Management System Certificate

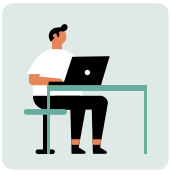
ISO 14001: 2015
Panasonic Appliances Air-Conditioning Malaysia Sdn.Bhd.
Cert. No.: EMS 00109

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

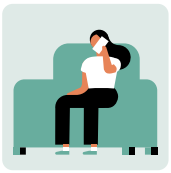
Notes

Panasonic Heating & Cooling Solutions customer service

If your end customer is seeking further support from Panasonic directly, please forward the following ways to contact us:



Use our European website **www.aircon.panasonic.eu** for contacting us.
Panasonic has implemented a new 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 call centres, who are more than qualified to support Panasonic clients in 13 different languages across Europe.

Our call centres in Europe for end customers:

Country	Phone number	Opening times
Belgium	+32 2 320 55 38	Mo-Fr 9-17h
Denmark	+45 89 87 45 00	Mo-Fr 9-17h
Finland	+35 8646041590	Mo-Fr 9-17h
France	0800 805 215	Mo-Fr 9-17h
Germany	+49 611 71187211	Mo-Sat 7-18h
Hungary	+36 1 700 89 65	Mo-Fr 9-17h
Ireland	1800 939 977	Mo-Fr 9-17h
Italy	+39 2 6433235	Mo-Fr 9-17h
Luxembourg	+32 2 320 55 38	Mo-Fr 9-17h
Netherlands	+31 73 6402 538	Mo-Sat 7-18h

Country	Phone number	Opening times
Norway	+47 69 67 61 00	Mo-Fr 9-17h
Poland	800 080 911	Mo-Fr 9-17h
Portugal	800 78 22 20	Mo-Fr 9-17h
Spain	+34 900 828 787	Mo-Fr 9-17h
Sweden	+46 85 221 81 00	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
United Kingdom	0808 208 2115	Mo-Fr 9-17h

www.aircon.panasonic.eu

heating & cooling solutions

Due to the ongoing innovation of our products, the specifications of this catalogue are valid barring typographic errors, and may be subject to minor modifications by the manufacturer without prior warning in order to improve the product. The total or partial reproduction of this catalogue is prohibited without the express authorisation of Panasonic Marketing Europe GmbH.

www.eggassociats.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

NE/EN-CATRAC1022/01