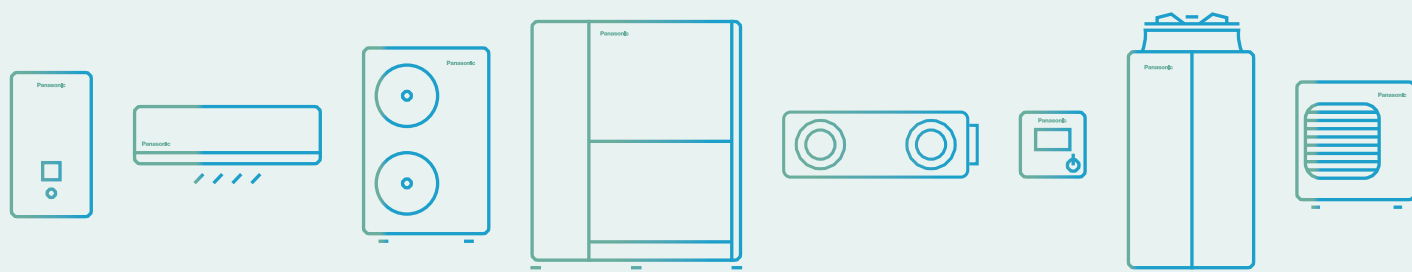


General Catalogue 2022 / 2023



Editorial

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.

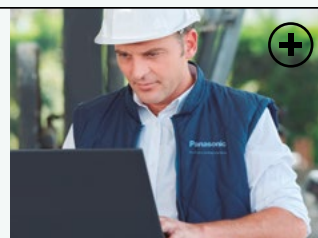
Bringing nature's balance indoors.

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



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.



Aquarea

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

New Aquarea EcoFlex.

2-in-1 - Sustainable and efficient comfort all year long.
New Aquarea EcoFlex is a groundbreaking heat pump that connects an air ducted unit with nanoe™ X technology providing heat recovery hot water, space heating, space cooling and cleaner air.



Aquarea Service Cloud for professionals.

Aquarea Service Cloud will activate remote maintenance service while end user is controlling and monitoring its heating and DHW remotely.

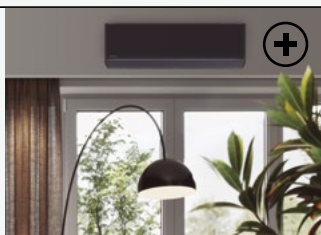


Domestic

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

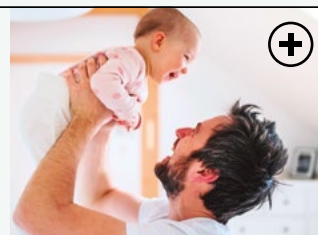
Etherea: Welcome to your new home.

Designed to produce the ultimate comfort and performance for homeowners, the new Etherea is a worthy addition to any indoor environment. Now available in Matt white, Silver and Graphite grey color.



nanoe™ X: improving protection 24/7.

nanoe™ X technology brings nature's detergent – hydroxyl radicals – indoors, so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be.



Commercial

The commercial range is constantly expanding so that you can always offer your clients the optimal solutions: high performance, silent machines and a complete range of ducts, cassettes and ceiling installations.

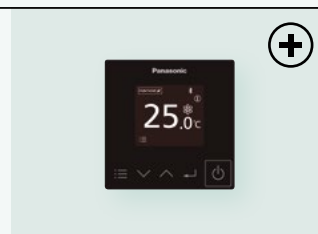
PACi NX Series.

This series has been developed with 3 wired method and communication. It makes it simple and easy to replace old systems with 3 wire connections, which is prevalent in many systems.



CONEX. Devices and apps.

CONEX provides comfort and control for varying user needs.
Accessible, flexible and scalable with different controllers and apps.
Perfectly meeting requirements of modern controls for end user, installer and service.



VRF Systems

The VRF industrial range considerably improves efficiency so even large buildings can benefit from a high-level of comfort with less energy consumption.

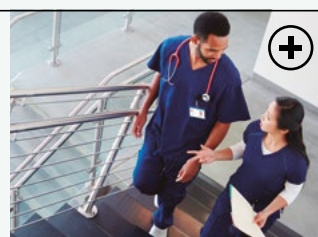
Mini ECOi LZ2 Series R32.

The Mini ECOi LZ2 Series utilizes environmentally friendly R32 refrigerant, reducing the total amount of refrigerant by 20 % and more, resulting in lower GWP, reduced by 75 %.



nanoe™ X.

Panasonic's nanoe™ X technology brings nature's detergent – hydroxyl radicals – indoors to help improve protection 24/7. Available in 4 way 90x90 cassette, floor console and adaptive ducted unit.



Ventilation

Panasonic ventilation solutions for maximum savings and easy integration.



AHU connection kit 3,6 to 14,0 kW for PACi NX.

The Panasonic AHU connection kits offer a wealth of connectivity possibilities so can be easily integrated into many systems.



Energy recovery ventilation.

Panasonic energy recovery ventilators help you with your comfort and energy-saving plan.



Control and connectivity

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



Panasonic AC Smart Cloud.

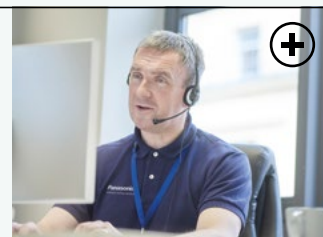
Panasonic AC Smart Cloud provides building mapping, remote monitoring, error notification and schedule setting for site managers.

Panasonic AC Service Cloud help maintenance companies to manage multiple sites with remote checking and advance failure prediction functions.



Panasonic AC Service Cloud.

Panasonic AC Service Cloud provides to maintenance company a unique tool to deliver advanced maintenance to increase response time, reduce sites visits and allocate better the resources.



Chiller

Panasonic introduces the ECOi-W heat pumps and cooling only chiller series. These series provides a wide variety of HVAC system solutions, to meet all of your residential, commercial and industrial needs.



ECOi-W heat pump and cooling only chillers.

An extensive line up from 20 kW to 210 kW with an operating range of -17 °C (heating) to 50 °C (cooling). Offering a high quality, flexible solution for commercial applications.



Explore the range of fan coils.

Available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location.



Refrigeration

Panasonic condensing units - CR Series with natural refrigerant.

Panasonic is now introducing the environmentally friendly CO₂ condensing units - CR Series for commercial refrigeration.



Refrigeration.

Offering a range of CO₂ solutions from 2 HP to 10 HP, including a new 4 HP unit. Medium or low temperature set-points available, offering a flexible installation for various applications.



CO₂ condensing units - CR Series by trusted technology.

CR Series are made in Japan with an excellent quality control established by skilled factory team.



Dimensions



Wiring diagrams



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: 01218030835R8L

Environmental Management System Certificate



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

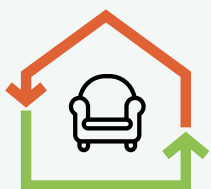


GB/T 24001-2016/ISO 14001: 2015
Panasonic Appliances Air-Conditioning
(GuangZhou) Co., Ltd.
Registration Number: 02118E10944R7M

Panasonic environmental vision 2050

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

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

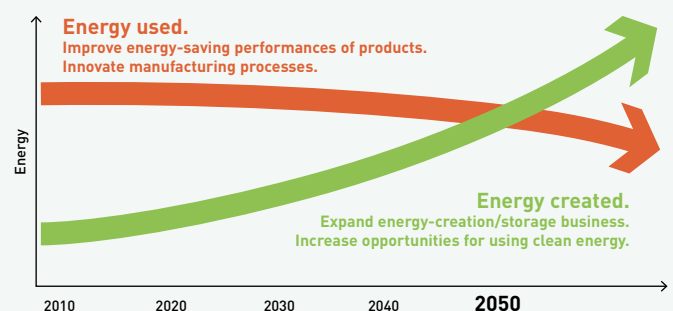
Energy used by Panasonic business activities and products.

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 CO₂ condensing units - CR Series for cold rooms in the warehouse. France.
Refrigeration



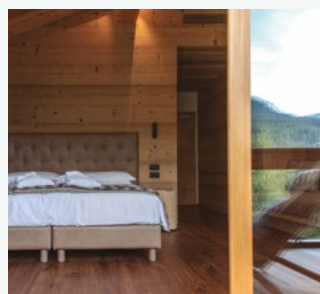
The EDEKA store in Germany, the first supermarket providing the maintenance-free nanoe™ X technology for better indoor air quality. Germany. **ECOi and nanoe™ X**



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 CO₂ 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.

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



First room air conditioner launched for domestic installation.



1958

1971

1975

1982

1985

1989

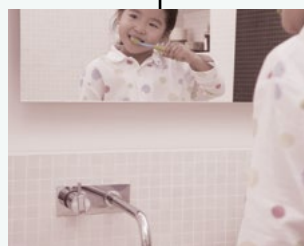
2008

2010

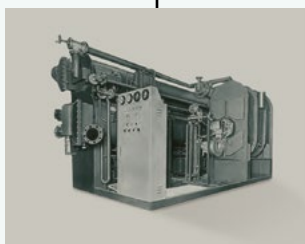
World's first air conditioner equipped with nanoe™



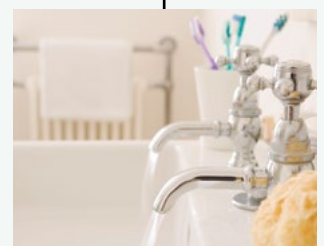
Introduces first GHP (gas heat pump) VRF air conditioner.



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



Starts production of absorption chillers.



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



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

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.

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



New VRF Systems ECOi EX with extraordinary energy saving performance.



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



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



2012

2015

2016

2018

2019

2020

2021

Looking ahead



CO₂ condensing units in Europe. The ideal solution for supermarkets, shops and gas stations.



The first Hybrid System with VRF and GHP in Europe.



nanoe™ X, technology with the benefits of hydroxyl radicals. Improving protection 24/7.

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.



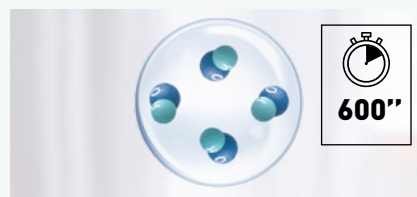
Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner 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.

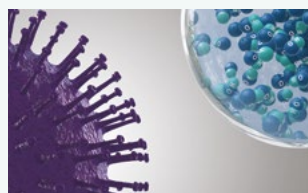


Hydroxyl radicals contained in water.

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

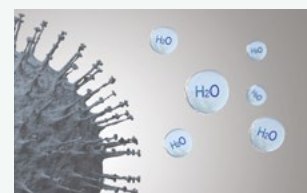
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



2 | Hydroxyl radicals denature pollutants' proteins.



3 | Pollutants activity is inhibited.

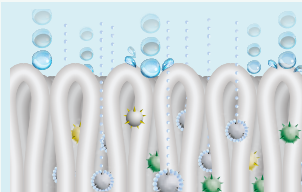
The well-being benefits of nature are well known – but do you know the power of hydroxyl radicals?

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.



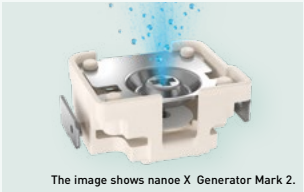
2 | Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.

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 maintenance, no replacement 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 Titanium.

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.

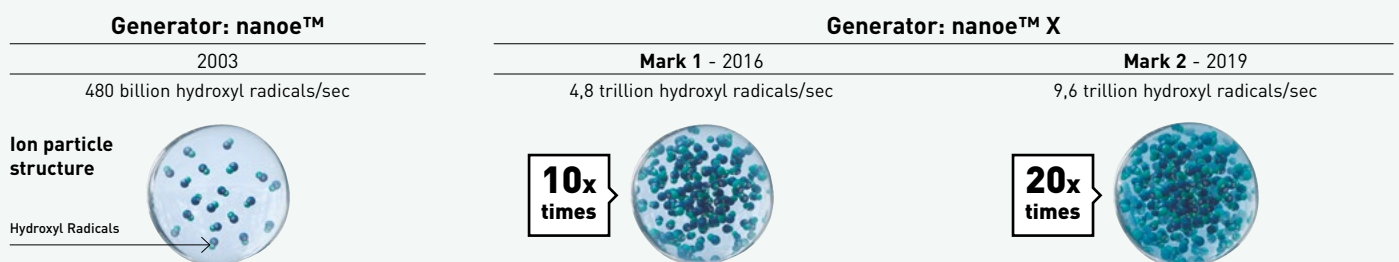
Panasonic heat pump with nanoe™ X technology verified against SARS-CoV-2

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.

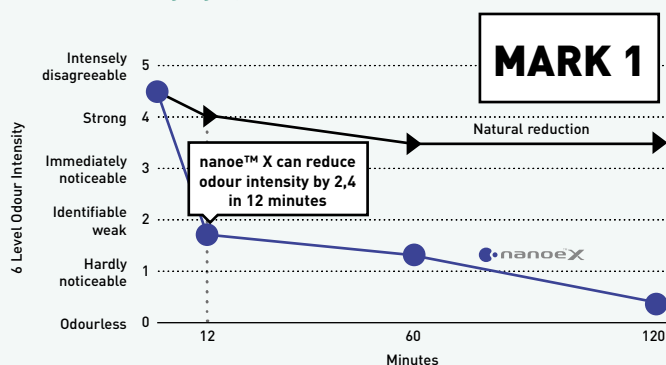
	Tested contents		Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Bacteriophage ΦX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental 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

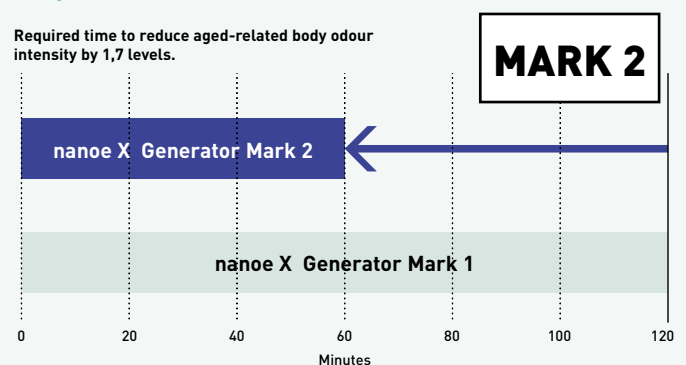


nanoe X Generator Mark 1 can reduce cigarette smoke odour intensity by 2,4 levels in 12 minutes



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



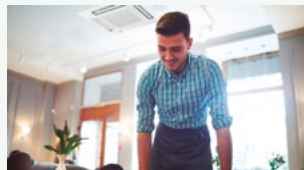
Hotel



Office



Clinic



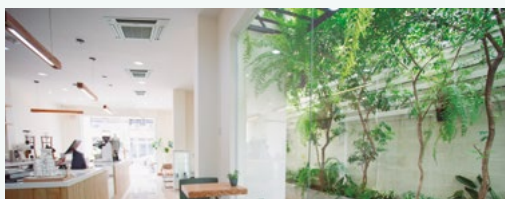
Restaurant



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.

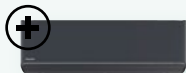
nanoe™ X: improving protection 24/7



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

Home.

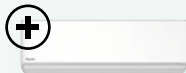
Built-in nanoe X Generator Mark 2.



Wall-mounted Etherea XZ-H.
CS-XZ**XKEW-H.
3 capacities: 2,0 - 3,5 kW.



Wall-mounted Etherea XZ.
CS-XZ**XKEW.
4 capacities: 2,0 - 5,0 kW.



Wall-mounted Etherea Z.
CS-(M)Z**XKE(W).
7 capacities: 1,6 - 7,1 kW.



Aquarea EcoFlex ducted unit.
S-71WF3E.

Built-in nanoe X Generator Mark 1.



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

Built-in nanoe™.



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

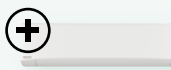
Commercial.

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



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

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



Wall-mounted.
S-***PK3E.
5 capacities: 3,6 - 10,0 kW.



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



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



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

VRF. **NEW** Built-in nanoe X Generator (TBC).



Y3 Type 4 way 60x60 cassette.
S-***MY3E.
6 capacities: 1,5 - 5,6 kW.

VRF. Built-in nanoe X Generator Mark 2.



U2 Type 4 way 90x90 cassette.
S-***MU2E5B.
11 capacities: 2,2 - 16,0 kW.



F3 Type adaptive duct.
S-***MF3E5B.
12 capacities: 1,5 - 16,0 kW.

VRF. Built-in nanoe X Generator Mark 1.



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

nanoe™ X: improving protection 24/7

100 % Panasonic, the DNA of Japanese craftsmanship

Applying advanced technologies that truly make life better, we live by an unparalleled commitment to product quality.

Panasonic is building on the Japanese tradition of uncompromising quality control worldwide, developing and manufacturing fine products and delivering them to customers everywhere.

**JAPAN
QUALITY**



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.



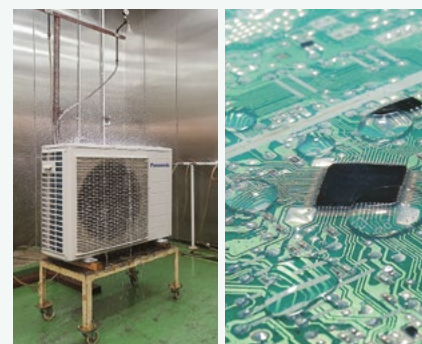
Long-term durability test.

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.



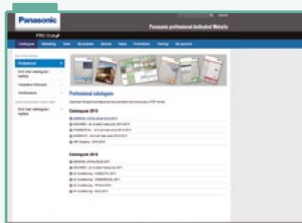
PRO Club. The professional website of Panasonic

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

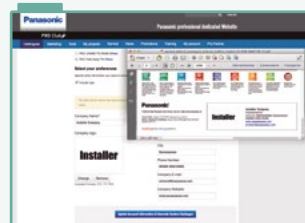


Panasonic PRO Club (www.panasonicproclub.com) is the online tool which makes your life easier! You just have to register and a lot of functionalities are freely available to you, where ever you are, from your computer or smartphone!

- 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



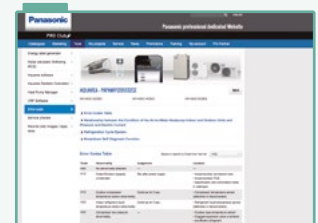
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Panasonic PRO Club is fully compatible with tablet computer and smartphone.

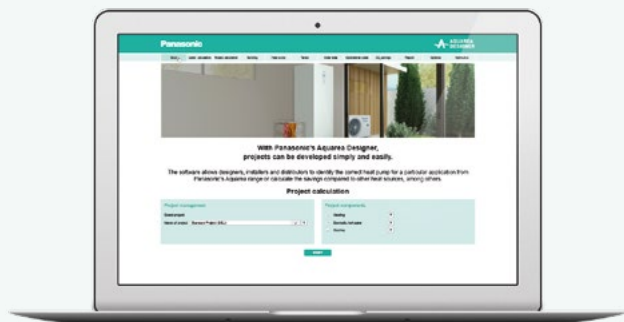
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Panasonic provides bespoke software and tools helping system designers, installers and dealers to very quickly select, design and size systems or create wiring or hydraulic diagrams at the push of a button.

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.



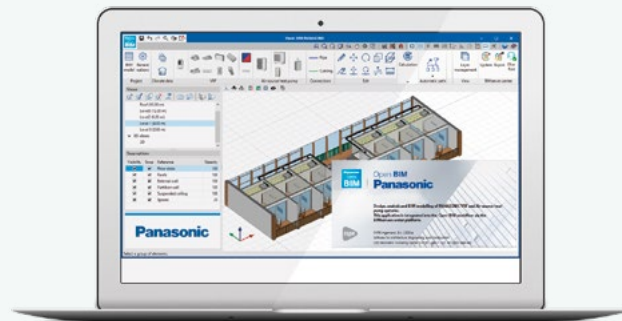
VRF Designer

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.



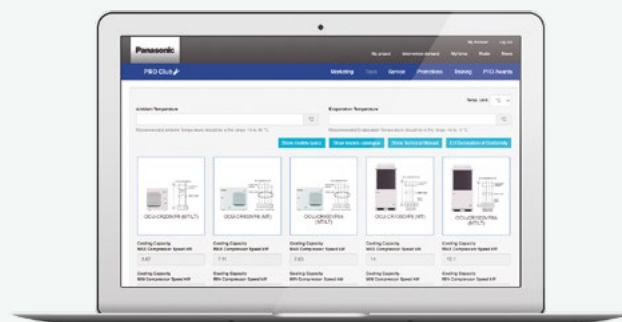
Chiller configurator

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.





PACi NX Series Elite adaptive ducted unit Inverter+ · R32

Adaptive ducted unit - PF3.

2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

			Single phase							
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW	
Kit			KIT-36PFH3Z5	KIT-50PFH3Z5	KIT-60PFH3Z5	KIT-71PFH3Z5	KIT-100PFH3Z5	KIT-125PFH3Z5	KIT-140PFH3Z5	
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	
Cooling capacity	Nominal (Min - Max)	kW	3,6(1,2 - 4,0)	5,0(1,2 - 5,6)	5,7(1,2 - 6,3)	6,8(2,2 - 7,8)	9,5(3,1 - 11,4)	12,1(3,2 - 13,6)	13,4(3,3 - 15,3)	
EER ¹⁾	Nominal (Min - Max)	W/W	4,24(3,57 - 5,45)	3,42(3,11 - 5,45)	3,68(3,15 - 5,45)	3,74(2,41 - 5,64)	4,17(2,82 - 5,08)	3,58(3,00 - 5,00)	3,38(2,59 - 4,18)	
SEER / $\eta_{s,c}$ ²⁾			6,8 A++	6,1 A++	7,1 A++	7,1 A++	7,4 A++	281,7 %	275,9 %	
Pdesign		kW	3,6	5,0	5,7	6,8	9,5	12,1	13,4	
Input power	Nominal (Min - Max)	kW	0,85(0,22 - 1,12)	1,46(0,22 - 1,80)	1,55(0,22 - 2,00)	1,82(0,39 - 3,24)	2,28(0,61 - 4,04)	3,38(0,64 - 4,54)	3,96(0,79 - 5,90)	
Annual energy consumption ³⁾		kWh/a	185	287	281	332	447	—	—	
Heating capacity	Nominal (Min - Max)	kW	4,0(1,2 - 5,0)	5,6(1,2 - 6,5)	7,0(1,2 - 8,0)	7,5(2,0 - 9,0)	10,8(3,1 - 13,5)	13,5(3,2 - 15,4)	15,5(3,3 - 17,4)	
COP ¹⁾	Nominal (Min - Max)	W/W	4,17(3,23 - 5,45)	3,61(2,97 - 5,45)	3,74(3,33 - 5,45)	4,03(3,16 - 5,41)	3,97(3,07 - 5,25)	3,46(3,06 - 5,16)	3,44(3,14 - 4,29)	
SCOP / $\eta_{s,h}$ ²⁾			4,5 A+	4,2 A+	4,4 A+	4,7 A++	4,5 A+	170,0 %	171,0 %	
Pdesign at -10 °C		kW	3,6	4,0	4,7	4,7	7,8	9,3	9,5	
Input power	Nominal (Min - Max)	kW	0,96(0,22 - 1,55)	1,55(0,22 - 2,19)	1,87(0,22 - 2,40)	1,86(0,37 - 2,85)	2,72(0,59 - 4,40)	3,90(0,62 - 5,04)	4,51(0,77 - 5,55)	
Annual energy consumption ³⁾		kWh/a	1120	1333	1495	1393	2424	—	—	
Indoor unit			S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	
External static pressure ⁴⁾	Nominal (Min - Max)	Pa	30(10 - 150)	30(10 - 150)	30(10 - 150)	30(10 - 150)	40(10 - 150)	50(10 - 150)	50(10 - 150)	
Air flow	Hi / Med / Lo	m³/min	14,0/13,0/10,0	16,0/15,0/12,0	21,0/19,0/15,0	21,0/19,0/15,0	32,0/26,0/21,0	34,0/29,0/23,0	36,0/32,0/25,0	
Moisture removal volume		L/h	0,9	1,9	1,7	2,7	3,2	4,1	4,9	
Sound pressure ⁵⁾	Hi / Med / Lo	dB(A)	30/27/22	34/30/25	30/26/23	30/26/23	33/29/25	35/31/27	39/35/29	
Sound power	Hi / Med / Lo	dB(A)	53/50/45	57/53/48	53/49/46	53/49/46	56/52/48	58/54/50	62/58/52	
Dimension	H x W x D	mm	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730	
Net weight		kg	25	25	30	30	39	39	39	
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5	
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	
Current	Cool	A	4,20 - 4,00 - 3,85	6,90 - 6,60 - 6,35	7,25 - 6,95 - 6,65	9,00 - 8,60 - 8,25	11,10 - 10,80 - 10,30	16,50 - 15,80 - 15,10	19,60 - 18,70 - 17,90	
	Heat	A	4,70 - 4,50 - 4,30	7,35 - 7,00 - 6,75	8,65 - 8,30 - 7,95	9,00 - 8,60 - 8,35	13,30 - 12,70 - 12,20	19,10 - 18,20 - 17,50	22,00 - 21,10 - 20,20	
Air flow	Cool / Heat	m³/min	34,1/36,4	42,0/42,0	42,0/42,0	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0	
Sound pressure	Cool / Heat (Hi)	dB(A)	43/44	46/48	47/50	48/50	52/52	53/53	54/54	
Sound power	Cool / Heat (Hi)	dB(A)	62/64	64/67	65/69	65/67	69/69	70/70	71/71	
Dimension	H x W x D	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	
Net weight		kg	42	42	43	65	98	98	98	
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) ⁶⁾	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) ⁷⁾	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	
Pipe length range		m	3 ~ 40	3 ~ 40	3 ~ 40	5 ~ 50	5 ~ 85	5 ~ 85	5 ~ 85	
Elevation difference (in / out) ⁸⁾		m	15/30	15/30	15/30	15/30	15/30	15/30	15/30	
Pipe length for additional gas		m	30	30	30	30	30	30	30	
Additional gas amount		g/m	15	15	15	45	45	45	45	
Refrigerant (R32) / CO ₂ Eq.		kg / T	1,13/0,76	1,13/0,76	1,15/0,78	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06	
Operating range	Cool Min ~ Max	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +48	-20 ~ +48 ⁹⁾	-20 ~ +48 ⁹⁾	-20 ~ +48 ⁹⁾	
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	

Technical focus

- 2 installation possibilities (horizontal / vertical)
- Maximum external static pressure: 150 Pa
- Selectable inlet air position (rear / bottom entry)
- Improved drain pan suitable for both horizontal / vertical installation
- Drain pump included
- nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
- Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®

* The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.

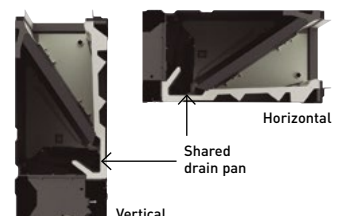
2 installation possibilities (horizontal / vertical)

Vertical installation is newly available. ESP 150Pa, sufficient for remotely installing units away from the rooms.



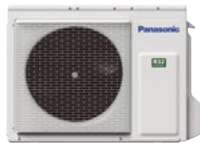
Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation. No need to modify the unit.





CZ-RTC5B



CONEX



Optional controller.
CONEX wired remote
controller.
CZ-RTC6 - CZ-RTC6BL
- CZ-RTC6BLW



COMPATIBLE WITH ALL PANASONIC
CONNECTIVITY SOLUTIONS. FOR
DETAILED INFORMATION GO TO THE
CONTROL SYSTEMS SECTION



Optional controller.
Infrared remote
controller.
CZ-RWS3 +
CZ-RWRC3



Optional Econavi
sensor.
CZ-CENSC1

			Three phase			
			7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-71PFH3Z8	KIT-100PFH3Z8	KIT-125PFH3Z8	KIT-140PFH3Z8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	6,8[2,2 - 7,8]	9,5[3,1 - 11,4]	12,1[3,2 - 13,6]	13,4[3,3 - 15,3]
EER ¹⁾	Nominal (Min - Max)	W/W	3,74[5,64 - 2,41]	4,17[5,08 - 2,82]	3,58[5,00 - 3,00]	3,38[4,18 - 2,59]
SEER / η_{sc} ²⁾			7,0 A++	7,3 A++	281,0 %	275,2 %
Pdesign		kW	6,8	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	1,82[0,39 - 3,24]	2,28[0,61 - 4,04]	3,38[0,64 - 4,54]	3,96[0,79 - 5,90]
Annual energy consumption ³⁾		kWh/a	338	451	—	—
Heating capacity	Nominal (Min - Max)	kW	7,5[2,0 - 9,0]	10,8[3,1 - 13,5]	13,5[3,2 - 15,4]	15,5[3,3 - 17,4]
COP ¹⁾	Nominal (Min - Max)	W/W	4,03[5,41 - 3,16]	3,97[5,25 - 3,07]	3,46[5,16 - 3,06]	3,44[4,29 - 3,14]
SCOP / η_{sh} ²⁾			4,7 A++	4,5 A+	170,0 %	171,0 %
Pdesign at -10 °C		kW	4,7	7,8	9,3	9,5
Input power	Nominal (Min - Max)	kW	1,86[0,37 - 2,85]	2,72[0,59 - 4,40]	3,9[0,62 - 5,04]	4,51[0,77 - 5,55]
Annual energy consumption ³⁾		kWh/a	1394	2424	—	—
Indoor unit			S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure ⁴⁾	Nominal (Min - Max)	Pa	30[10 - 150]	40[10 - 150]	50[10 - 150]	50[10 - 150]
Air flow	Hi / Med / Lo	m³/min	21,0/19,0/15,0	32,0/26,0/21,0	34,0/29,0/23,0	36,0/32,0/25,0
Moisture removal volume		L/h	2,7	3,2	4,1	4,9
Sound pressure ⁵⁾	Hi / Med / Lo	dB(A)	30/26/23	33/29/25	35/31/27	39/35/29
Sound power	Hi / Med / Lo	dB(A)	53/49/46	56/52/48	58/54/50	62/58/52
Dimension	H x W x D	mm	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-71PZH3E8	U-100PZH3E8	U-125PZH3E8	U-140PZH3E8
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	3,00 - 2,90 - 2,80	3,80 - 3,60 - 3,50	5,60 - 5,30 - 5,15	6,60 - 6,30 - 6,05
	Heat	A	3,05 - 2,95 - 2,85	4,50 - 4,30 - 4,15	6,45 - 6,10 - 5,90	7,55 - 7,15 - 6,90
Air flow	Cool / Heat	m³/min	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	53/53	54/54
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	70/70	71/71
Dimension	H x W x D	mm	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	65	98	98	98
Piping diameter	Liquid pipe	Inch (mm)	3/8(9,52)	3/8(9,52)	3/8(9,52)	3/8(9,52)
	Gas pipe	Inch (mm)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)
Pipe length range		m	5 - 50	5 - 85	5 - 85	5 - 85
Elevation difference (in / out) ⁶⁾		m	15/30	15/30	15/30	15/30
Pipe length for additional gas		m	30	30	30	30
Additional gas amount		g/m	45	45	45	45
Refrigerant (R32) / CO ₂ Eq.		kg / T	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06
Operating range	Cool Min ~ Max	°C	-15 ~ +48	-20 ~ +48 ¹⁰⁾	-20 ~ +48 ⁹⁾	-20 ~ +48 ⁹⁾
	Heat Min ~ Max	°C	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the η_{sc} / η_{sh} values is calculated based on EN 14825. 3) Factory setting. 4) Medium external static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. 9) For models 100 ~ 140PZH3E5[8], it is possible to operate the lowest -20 °C in the computer rooms with the piping length of 30 m or less. * Recommended fuse for the indoor 3 A. ** Above values are in the case of standard installation(horizontal installation in the ceiling, rear side air intake) and nanoe™ X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWF1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E



SEER and SCOP: For S-6071PF3E + U-71PZH3E5. SUPER QUIET: For S-3650PF3E + U-36PZH3E5. INTERNET CONTROL: Optional.

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



PACi NX Series Standard adaptive ducted unit Inverter+ R32

Adaptive ducted unit - PF3.

2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

			Single phase							
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW	
Kit			KIT-36PF3Z5	KIT-50PF3Z5	KIT-60PF3Z5	KIT-71PF3Z5	KIT-100PF3Z5	KIT-125PF3Z5	KIT-140PF3Z5	
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	
Cooling capacity	Nominal (Min - Max)	kW	3,4(1,5 - 4,0)	5,0(1,5 - 5,3)	5,7(2,0 - 6,3)	6,8(2,6 - 7,7)	9,5(3,0 - 11,4)	12,1(3,2 - 13,5)	13,4(3,3 - 15,0)	
EER ¹⁾	Nominal (Min - Max)	W/W	3,78(3,51 - 5,00)	2,78(2,76 - 4,63)	3,54(2,63 - 5,88)	3,18(2,69 - 4,56)	3,57(2,36 - 5,08)	3,40(2,76 - 5,08)	3,16(2,56 - 5,08)	
SEER / $\eta_{s,c}$ ²⁾			6,0 A+	6,5 A++	6,4 A++	6,0 A+	6,6 A++	257,4 %	252,2 %	
Pdesign		kW	3,4	5,0	5,7	6,8	9,5	12,1	13,4	
Input power	Nominal (Min - Max)	kW	0,90(0,30 - 1,14)	1,80(0,32 - 1,92)	1,61(0,34 - 2,40)	2,14(0,57 - 2,86)	2,66(0,59 - 4,84)	3,56(0,63 - 4,90)	4,24(0,65 - 5,86)	
Annual energy consumption ³⁾		kWh/a	198	267	310	391	502	—	—	
Heating capacity	Nominal (Min - Max)	kW	3,4(1,5 - 4,6)	5,0(1,5 - 5,9)	5,7(1,8 - 7,0)	6,8(2,1 - 8,1)	9,5(3,0 - 13,5)	12,1(3,3 - 15,0)	13,4(3,4 - 16,0)	
COP ¹⁾	Nominal (Min - Max)	W/W	4,15(3,51 - 5,36)	3,62(3,06 - 5,36)	4,04(2,82 - 6,21)	4,00(3,03 - 5,68)	4,09(3,00 - 5,08)	3,56(3,16 - 5,24)	3,76(3,03 - 5,23)	
SCOP / $\eta_{s,h}$ ²⁾			4,0 A+	4,0 A+	4,4 A+	4,1 A+	3,9 A	142,6 %	140,6 %	
Pdesign at -10 °C		kW	2,4	3,8	4,4	4,7	7,8	9,3	9,5	
Input power	Nominal (Min - Max)	kW	0,82(0,28 - 1,31)	1,38(0,28 - 1,73)	1,41(0,29 - 2,48)	1,70(0,37 - 2,67)	2,32(0,59 - 4,50)	3,40(0,63 - 4,74)	3,56(0,65 - 5,28)	
Annual energy consumption ³⁾		kWh/a	839	1303	1376	1591	2795	—	—	
Indoor unit			S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	
External static pressure ⁴⁾	Nominal (Min - Max)	Pa	30(10 - 150)	30(10 - 150)	30(10 - 150)	30(10 - 150)	40(10 - 150)	50(10 - 150)	50(10 - 150)	
Air flow	Hi / Med / Lo	m³/min	14,0/13,0/10,0	16,0/15,0/12,0	21,0/19,0/15,0	21,0/19,0/15,0	32,0/26,0/21,0	34,0/29,0/23,0	36,0/32,0/25,0	
Moisture removal volume		L/h	0,9	1,9	1,7	2,7	3,2	4,1	4,9	
Sound pressure ⁵⁾	Hi / Med / Lo	dB(A)	30/27/22	34/30/25	30/26/23	30/26/23	33/29/25	35/31/27	39/35/29	
Sound power	Hi / Med / Lo	dB(A)	53/50/45	57/53/48	53/49/46	53/49/46	56/52/48	58/54/50	62/58/52	
Dimension	H x W x D	mm	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730	
Net weight		kg	25	25	30	30	39	39	39	
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	
Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-125PZ3E5	U-140PZ3E5	
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	
Current	Cool	A	4,15-4,00-3,85	8,35-8,00-7,65	7,45-7,15-6,85	9,95-9,50-9,10	13,30-12,70-12,20	17,20-16,40-15,80	20,50-19,60-18,8	
	Heat	A	3,85-3,70-3,50	6,45-6,20-5,95	6,55-6,25-6,00	7,90-7,55-7,25	11,60-11,10-10,60	16,40-15,70-15,00	17,20-16,40-15,80	
Air flow	Cool / Heat	m³/min	33,6/34,0	32,7/31,9	42,6/41,5	44,7/45,9	73,0/73,0	82,0/80,0	84,0/82,0	
Sound pressure	Cool / Heat (Hi)	dB(A)	46/47	46/46	47/48	48/49	52/52	55/55	56/56	
Sound power	Cool / Heat (Hi)	dB(A)	64/66	64/64	64/65	66/68	70/70	73/73	74/74	
Dimension	H x W x D	mm	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	
Net weight		kg	32	35	42	50	83	87	87	
Piping diameter	Liquid pipe	Inch (mm)	1/4(Ø6,35)	1/4(Ø6,35)	1/4(Ø6,35) ⁶⁾	1/4(Ø6,35) ⁶⁾	3/8(9,52)	3/8(9,52)	3/8(9,52)	
	Gas pipe	Inch (mm)	1/2(Ø12,7)	1/2(Ø12,7)	1/2(Ø12,7) ⁷⁾	5/8(Ø15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)	
Pipe length range		m	3 - 15	3 - 20	3 - 40	3 - 40	5 - 50	5 - 50	5 - 50	
Elevation difference (in / out) ⁸⁾		m	15/15	15/15	15/30	20/30	15/30	15/30	15/30	
Pipe length for additional gas		m	7,5	7,5	30	30	30	30	30	
Additional gas amount		g/m	10	15	15	17	45	45	45	
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,87/0,59	1,14/0,77	1,15/0,78	1,32/0,89	2,40/1,62	2,80/1,89	2,80/1,89	
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	-10 ~ +43	
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	

Technical focus

- 2 installation possibilities (horizontal / vertical)
- Maximum external static pressure: 150 Pa
- Selectable inlet air position (rear / bottom entry)
- Improved drain pan suitable for both horizontal / vertical installation
- Drain pump included
- nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
- Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®

* The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.

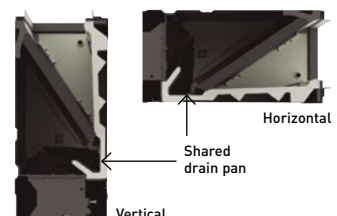
2 installation possibilities (horizontal / vertical)

Vertical installation is newly available. ESP 150Pa, sufficient for remotely installing units away from the rooms.



Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation. No need to modify the unit.

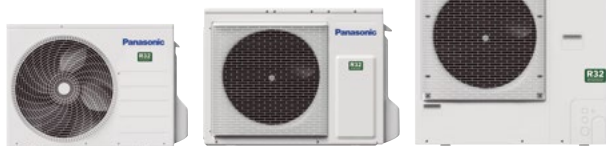




CZ-RTC5B



COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION



CONEX



Optional controller.
CONEX wired remote controller.
CZ-RTC6 - CZ-RTC6BL
- CZ-RTC6BLW



Optional controller.
Infrared remote controller.
CZ-RWS3 + CZ-RWRC3



Optional Econavi sensor.
CZ-CENSC1

			Three phase		
			10,0 kW	12,5 kW	14,0 kW
Kit			KIT-100PF3Z8	KIT-125PF3Z8	KIT-140PF3Z8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	9,5[3,0 - 11,4]	12,1[3,2 - 13,5]	13,4[3,3 - 15,0]
EER ¹⁾	Nominal (Min - Max)	W/W	3,57[2,36 - 5,08]	3,40[2,76 - 5,08]	3,16[2,56 - 5,08]
SEER / η_{sc} ²⁾			6,5 A++	256,2 %	251,4 %
Pdesign		kW	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	2,66[0,59 - 4,84]	3,56[0,63 - 4,90]	4,24[0,65 - 5,86]
Annual energy consumption ³⁾		kWh/a	508	—	—
Heating capacity	Nominal (Min - Max)	kW	9,5[3,0 - 13,5]	12,1[3,3 - 15,0]	13,4[3,4 - 16,0]
COP ¹⁾	Nominal (Min - Max)	W/W	4,09[3,00 - 5,08]	3,56[3,16 - 5,24]	3,76[3,03 - 5,23]
SCOP / η_{sh} ²⁾			3,9 A	142,6 %	140,6 %
Pdesign at -10 °C		kW	7,8	9,3	9,5
Input power	Nominal (Min - Max)	kW	2,32[0,59 - 4,50]	3,40[0,63 - 4,74]	3,56[0,65 - 5,28]
Annual energy consumption ³⁾		kWh/a	2795	—	—
Indoor unit			S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure ⁴⁾	Nominal (Min - Max)	Pa	40[10 - 150]	50[10 - 150]	50[10 - 150]
Air flow	Hi / Med / Lo	m³/min	32,0/26,0/21,0	34,0/29,0/23,0	36,0/32,0/25,0
Moisture removal volume		L/h	3,2	4,1	4,9
Sound pressure ⁵⁾	Hi / Med / Lo	dB(A)	33/29/25	35/31/27	39/35/29
Sound power	Hi / Med / Lo	dB(A)	56/52/48	58/54/50	62/58/52
Dimension	H x W x D	mm	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			U-100PZ3E8	U-125PZ3E8	U-140PZ3E8
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	A	4,45 - 4,20 - 4,05	5,75 - 5,45 - 5,25	6,85 - 6,50 - 6,30
	Heat	A	3,85 - 3,70 - 3,55	5,50 - 5,20 - 5,05	5,75 - 5,45 - 5,25
Air flow	Cool / Heat	m³/min	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	70/70	73/73	74/74
Dimension	H x W x D	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	83	87	87
Piping diameter	Liquid pipe	Inch (mm)	3/8[9,52]	3/8[9,52]	3/8[9,52]
	Gas pipe	Inch (mm)	5/8[15,88]	5/8[15,88]	5/8[15,88]
Pipe length range		m	5 ~ 50	5 ~ 50	5 ~ 50
Elevation difference (in / out) ⁶⁾		m	15/30	15/30	15/30
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO ₂ Eq.		kg / T	2,40/1,62	2,80/1,89	2,80/1,89
Operating range	Cool Min ~ Max	°C	-10 ~ +43	-10 ~ +43	-10 ~ +43
	Heat Min ~ Max	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the η_{sc} / η_{sh} values is calculated based on EN 14825. 3) Factory setting. 4) Medium external static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube (Ø6,35-Ø9,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (Ø12,70-Ø15,88) to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of standard installation (horizontal installation in the ceiling, rear side air intake) and nanoe™ X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E



SEER: For S-1014PF3E + U-100PZ3E5. SCOP: For S-6071PF3E + U-60PZ3E5A. SUPER QUIET: For S-3650PF3E + U-36PZ3E5. INTERNET CONTROL: Optional.

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