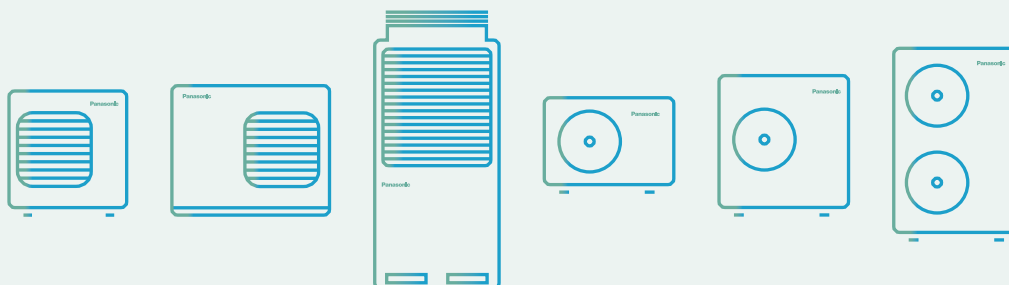


Refrigeration 2022/2023

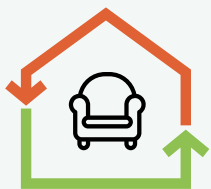
CO₂ Condensing units for LT and MT applications,
and R32 complete systems for HT applications.



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

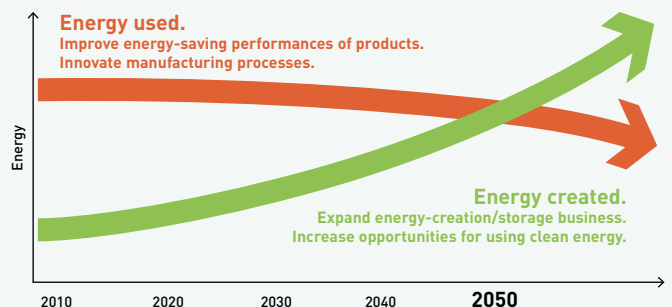
Energy used by Panasonic business activities and products.

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



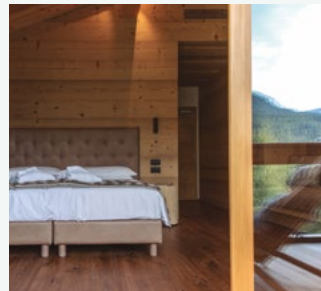
The EDEKA store in Germany, the first supermarket providing the maintenance-free nanoe™ X technology for better indoor air quality. Germany. **ECOi and nanoe™ X**



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

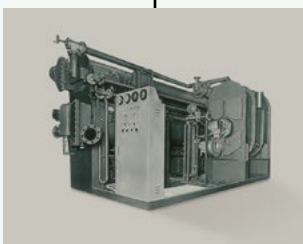
World's first air conditioner equipped with nanoe™



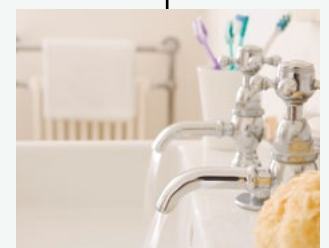
Introduces first GHP (gas heat pump) VRF air conditioner.



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.

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



New VRF Systems ECOi EX with extraordinary energy saving performance.



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



2012

2015

2016

2018

2019

2020

2021

Looking ahead



The first Hybrid System with VRF and GHP in Europe.



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



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



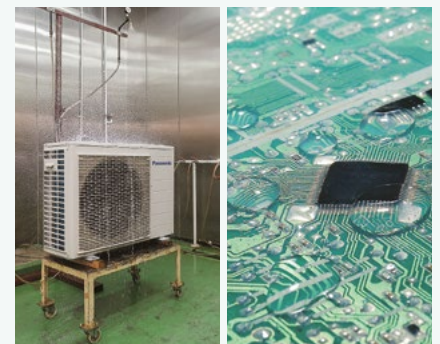
Long-term durability test.

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.



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.



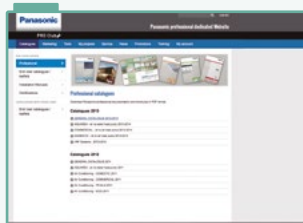
PRO Club. The professional website of Panasonic

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

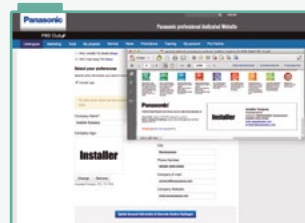


Panasonic PRO Club (www.panasonicproclub.com) is the online tool which makes your life easier! You just have to register and a lot of functionalities are freely available to you, where ever you are, from your computer or smartphone!

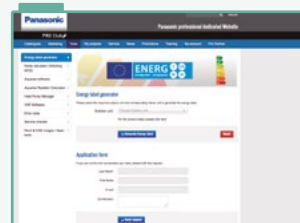
- Print catalogues with your logo and contact details
- Access to the extensive library of professional design, selection and calculation tools (Aquarea Designer, VRF software, chiller selector, etc.)
- Get documents of conformity and all other documents you may need
- Download all the service manuals,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



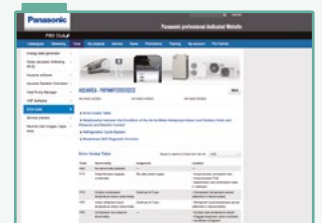
Easy download Panasonic service documentation and brochures.



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.

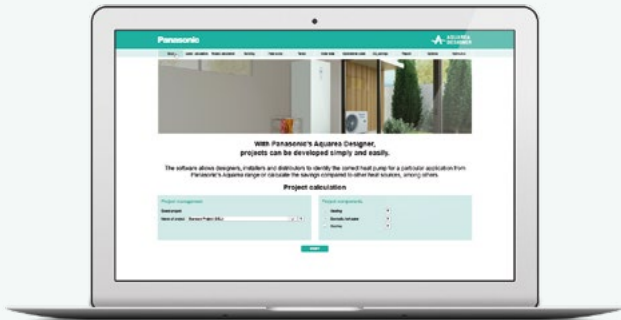




Panasonic provides bespoke software and tools helping system designers, installers and dealers to very quickly select, design and size systems or create wiring or hydraulic diagrams at the push of a button.

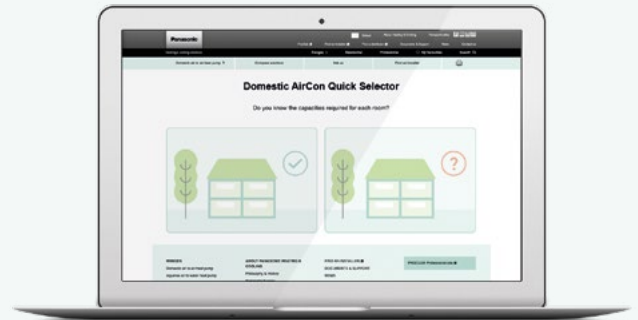
Aquarea Designer - online tool

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.



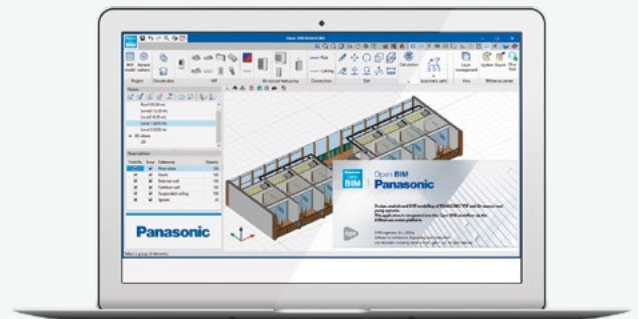
VRF Designer

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.



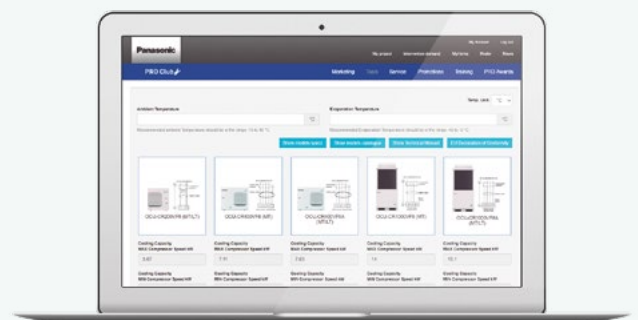
Chiller configurator

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.



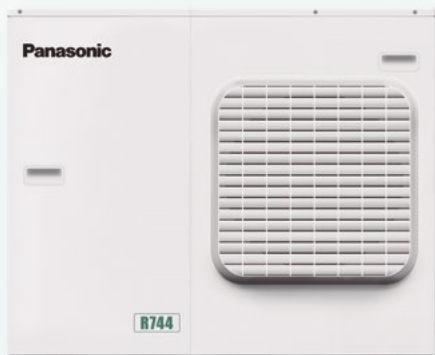
Refrigeration tool

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





/ PAC *i*





CO₂ condensing units - CR Series with natural refrigerant

Panasonic's CO₂ condensing units - CR Series provide the ideal solution for supermarkets, convenience stores and gas stations.

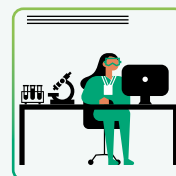
Keeping food always fresh at right temperature in showcases or cold rooms is a very critical point. And one of the biggest challenges for those retailers has been the expensive effects of refrigeration breakdowns which can result in costly product wastage.

PACi NX Elite can cool rooms down to 8 °C

Panasonic PACi NX Elite offers a high quality and efficient solution for high temperature refrigeration applications for facilities such as wine cellars, food processing facilities and supermarkets.

CO₂ transcritical condensing units - CR Series	→ 14
Choose the sustainable green solution by Panasonic	→ 16
CO ₂ condensing units - CR Series	→ 17

PACi NX Elite can cool rooms down to 8 °C	→ 18
Bringing nature's balance indoors	→ 20
PACi NX Series Elite wall-mounted · R32	→ 24
PACi NX Series Elite 4 way 90x90 cassette · R32	→ 25
PACi NX Series Elite ceiling · R32	→ 26
PACi NX Series Elite adaptive ducted unit · R32	→ 27



CO₂ transcritical condensing units - CR Series

4 HP MT/LT Type, a new line-up in CR Series, offers a wide range of refrigeration systems, meeting the specific needs of small retail stores.



1 Superior efficiency with reliable quality

- Panasonic has combined the 2-stage compressor with the split cycle for increased efficiency
- High seasonal performance. SEPR: Maximum 3,83 in cooling, 1,92 in freezing ¹⁾
- High COP at high ambient temperature

1) 200VF5A.

2 Flexible installation

- Set-points at medium or low temperature available depending on applications
- Compact unit
- Silent operation
- Long piping length: Maximum 100 m ²⁾
- High external static pressure ²⁾
- Transfer pressure control for stable expansion valve control in showcases ²⁾

2) 1000VF8/8A.

3 Heat recovery port as renewable energy

- Maximum 16,7 kW of heating for free
- Optional possibility to get subsidy (depending on location)
- Easy connection process

Why CO₂?: Natural refrigerant

EU F-Gas regulation is a key priority for European countries. It ensures compliance with the Kigali Amendment supporting international climate commitments on greenhouse gases and leading the global transition to climate-friendly HFC-free technologies. Carbon dioxide (R744) is regaining its place in the refrigeration world. Driven by environmental concerns, legislation now requires increased adoption of 'alternative' refrigerants, such as CO₂. CO₂ is an environmentally-friendly solution, with zero ODP and "GWP" (Global Warming Potential)=1 means natural substance in the atmosphere.

In Europe a step-by-step HFC reduction has been in place since the F-Gas regulation was introduced in 2015. Countries all over the world have actively been preparing to enact the necessary domestic legislation to implement the agreement to reduce the use of HFCs. Panasonic is now able to provide a solution in Europe with CO₂ refrigeration systems to prevent global warming and to support environment-friendly retail operations. The following table shows how well R744 (CO₂) performs regarding environmental impact and safety.

ODP (Ozone Depletion Potential) = 0 - GWP (Global Warming Potential) = 1.

	Next generation refrigerant			Current refrigerant	
	CO ₂	Ammonia	Isobutane	R410A	R404A
ODP	0	0	0	0	0
GWP	1	0	4	2090	3920
Flammability	Non flammable	Light flammable	Flammable	Non flammable	Non flammable
Toxicity	No	Yes	No	No	No

Superior cooling capacity at each evaporating temperature

CO₂ transcritical condensing units - CR Series have a high cooling capacity at each set point. The CO₂ 2-stage compressor developed by Panasonic is designed to compress CO₂ refrigerant twice; it reduces the load in operation by half (compared to 1-stage refrigerant compression) and delivers increased durability and reliability.

Units can be programmed to run at low and medium temperatures at initial set-up. These settings can then be modified by turning a simple and user friendly rotary switch to further enhance energy savings.

CR Series	Low temperature	Medium temperature	ET (Evaporation Temperature) set points range	Room size example (LT / MT)*
OCU-CR200VF5A	✓	✓	-45 ~ -5 °C	10 m ³ / 40 m ³
OCU-CR400VF8	—	✓	-20 ~ -5 °C	— / 80 m ³
OCU-CR400VF8A	✓	✓	-45 ~ -5 °C	20 m ³ / 80 m ³
OCU-CR1000VF8	—	✓	-20 ~ -5 °C	— / 200 m ³
OCU-CR1000VF8A	✓	✓	-45 ~ -5 °C	50 m ³ / 200 m ³

* Room size is reference. Please contact to authorized Panasonic dealer for calculation.

MT/LT TYPE
200VF5A
4 kW / 2 kW

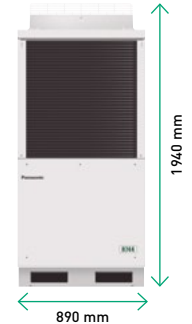
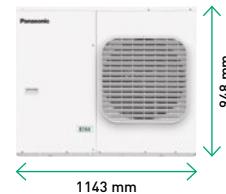
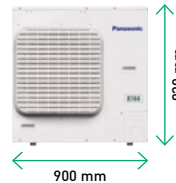
MT TYPE
400VF8 - 7,5 kW
NEW MT/LT TYPE
400VF8A
8 kW / 4 kW

MT TYPE
1000VF8 - 15 kW
MT/LT TYPE
1000VF8A
16 kW / 8 kW

3,83* SEPR
COOLING

1,92* SEPR
FREEZING

* SEPR values has been tested at 3-part laboratory.



Panasonic's combined technology of the 2-stage compressor with the split cycle

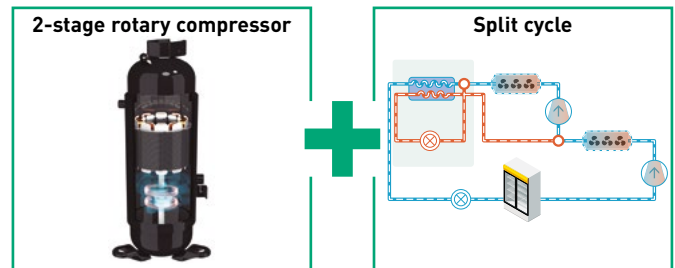
- Panasonic 2-stage rotary compressor delivering powerful performance for more than 20 years
- Split cycle* enhances cooling effect

The video for detailed information is ready!

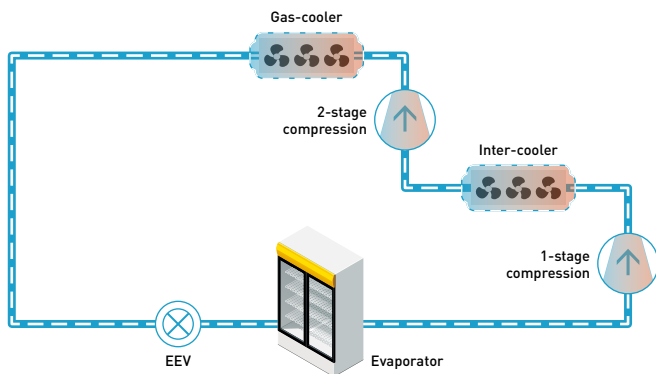


* Available for 200VF5A, 400VF8A and 1000VF8A models.

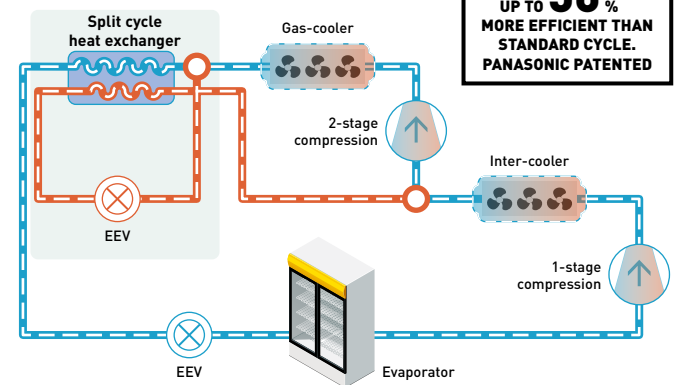
** In the case that the standard cycle with 1-stage rotary compressor was compared.



Standard cycle.



Split cycle.



New control panel and electric expansion valves.

An intelligent controller has been redesigned with a compact chassis. This controller has the smart program especially for showcases and cold rooms.

Electric expansion valves (EEVs) are ready with 7 different sizes to meet precisely the field demand.



Intelligent controller with compact chassis. Panel-C.

- MPXPRO control fully pre-programmed for MT and LT on the same panel
- Compact structure size: 300 x 220 x 120 mm
- Necessary cables, EEV stator, temperature and pressure probes as standard equipment
- Ultracap technology as standard equipment for emergency EEV's closing in the event of mains power failure
- Smart defrost functions, advanced superheat control, light and showcase curtain management, etc
- Own display user terminal plus keypad for programming, built-in switching power supply, Modbus, etc
- Management of HACCP alarms

* Please refer the model references in page 17.



Electric expansion valves (EEVs) line-up.

- EEV's E2V-CW with 3/8" ODF copper fittings for high pressure applications (CO₂)
- Operation refrigerant temperature: -40 T 70 °C
- Maximum operating pressure for all the models 03, 05, 09, 11, 14, 18, 24 (MOP) 140 barg
- Maximum operating pressure difference for 03, 05, 09, 11, 14, 18, (MOPD) 120 bar and 24 (MOPD) 85 bar
- Bipolar stator hermetic IP69K as standard equipment (supplied on panel)
- Mechanical strainer as standard equipment (500 mm mesh)
- Equipercntile control particularly effective at partial load with reliable operation even after 1,2 billion steps

Choose the sustainable green solution by Panasonic

Environmentally friendly CO₂ condensing units - CR Series.

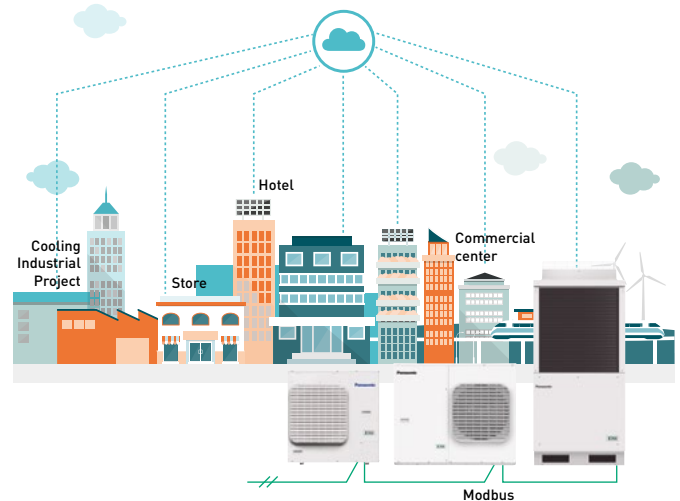
Modbus compatibility with monitoring system

Panasonic CO₂ condensing units - CR Series can be supervised by major monitoring system such as CAREL, Eliwell, Danfoss and RDM. Monitoring system ensures the recording, monitoring and reporting of temperature conditions etc... of entire CO₂ condensing units - CR Series system at shops.

Monitoring system

			
Standard boss & boss-mini	AK-SM Series*	TelevisGo	DMTOUCH

* M2M1-10 gateway (Model code: FDS021) is required in addition to the monitoring system. M2M1-10 gateway is a local supply.



New CO₂ service checker

The service checker is a useful tool which supports your technical tasks on the field such as commissioning, maintenance and troubleshooting for Panasonic CO₂ condensing units - CR Series.

Panasonic will supply the DRX file where the Panasonic unit's library is included with the acquisition of the CO₂ service checker.

Main features:

- Reading and recording variable technical parameters
- Setting change of operating values possible
- 2D graph visualization for the detailed analysis
- Monitoring an alarm status, for example the status of the compressor oil level



Model reference

PAW-CO2-CHECKER

To use it, is necessary to download free Device Manager software from the Eliwell website:

Visit: <https://www.eliwell.com/en/Family/DeviceManager.html> using this QR.

Eliwell product name: Device Manager 100. Eliwell part number: DMP1000002000.


by Schneider Electric

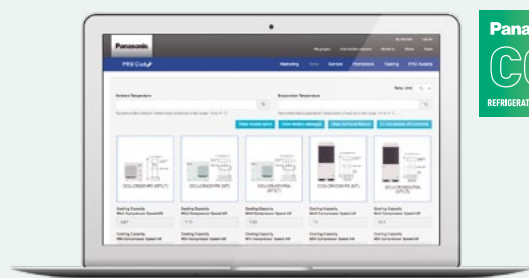


Design support tool available in Panasonic PRO Club.

Panasonic has launched a new online calculator to support engineers, installers, and technicians to quickly make calculations when specifying solutions for commercial refrigeration systems. The calculator can be found on Panasonic's PRO Club.

- Evaporation temperature selection
- Cooling capacity calculator
- Refrigerant pipe calculation
- Electric expansion valves calculation
- Refrigerant amount calculation

Ready to works on all devices, computers, tablets and smartphones!!

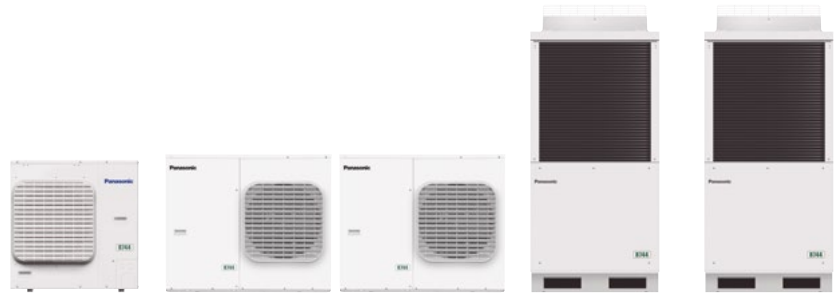



REFRIGERATION DESIGNER

PRO Club 

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



CO₂ condensing units - CR Series

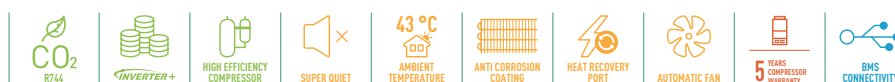
Standard outdoor unit			OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	
Anti corrosion coating outdoor unit			OCU-CR200VF5ASL	OCU-CR400VF8SL	OCU-CR400VF8ASL	OCU-CR1000VF8SL	OCU-CR1000VF8ASL	
Type (MT: medium temp. LT: low temp.)			MT (4 kW) / LT (2 kW)	MT (7,5 kW)	MT (8 kW) / LT (4 kW)	MT (15 kW)	MT (16 kW) / LT (8 kW)	
Power supply	Voltage	V	220/230/240	380/400/415	380/400/415	380/400/415	380/400/415	
	Phase		Single phase	Three phase	Three phase	Three phase	Three phase	
	Frequency	Hz	50	50	50	50	50	
Cooling capacity at ET -10 °C AT 32 °C	kW		3,70	7,10	7,7	14,00	15,10	
Cooling capacity at ET -35 °C AT 32 °C	kW		1,80	—	3,8	—	8,00	
Evaporator connection			Multiple	Multiple	Multiple	Multiple	Multiple	
Evaporation temperature	Min ~ Max	°C	-45 ~ -5	-20 ~ -5	-45 ~ -5	-20 ~ -5	-45 ~ -5	
Ambient temperature	Min ~ Max	°C	-20 ~ +43	-20 ~ +43	-20 ~ +45	-15 ~ +43	-15 ~ +43	
Refrigerant			R744	R744	R744	R744	R744	
Design pressure liquid line	Mpa		12	8	8	8	8	
Design pressure suction line	Mpa		8	8	8	8	8	
User system external alarm. Digital input. Non-voltage contact			Yes	Yes	Yes	Yes	Yes	
Liquid tube electromagnetic valve	Vac		220/230/240	220/230/240	220/230/240	220/230/240	220/230/240	
Showcase operation ON / OFF signal. Digital input. Non-voltage contact			Yes	Yes	Yes	Yes	Yes	
Modbus communication line (RS485)	Ports		2	2	2	2	2	
Compressor type			2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary	
Dimension	HxWxD	mm	930x900x437	948x1143x609	948x1143x609	1941x890x890	1941x890x890	
Net weight		Kg	70	136	149	293	320	
Piping diameter	Suction pipe	Inch (mm)	3/8(9,52)	1/2(12,70)	1/2(12,70)	3/4(19,05)	3/4(19,05)	
	Liquid pipe	Inch (mm)	1/4(6,35)	3/8(9,52)	3/8(9,52)	5/8(15,88)	5/8(15,88)	
Length of connection piping		m	25	50	50	100 ¹⁾	100 ¹⁾	
PED		CAT	I	II	II	II	II	
Air flow		m ³ /min	54	59	59	220	220	
External static pressure		Pa	17	50	50	58	58	
Heat recovery port			—	—	Yes	—	Yes	
Standard performance								
Ambient temperature		°C	32	32	32	32	32	
Evaporating temperature		°C	-10 -35	-10 -35	-10 -35	-10 -35	-10 -35	
Cooling capacity		kW	3,70 1,80	7,10	7,7 3,8	14,00	15,10 8,00	
Power consumption		kW	1,79 1,65	4,00	4,5 3,8	8,20	8,20 7,57	
Nominal load ampere		A	7,94 7,26	6,14	7,2 6,2	12,60	12,60 11,60	
Sound pressure		dB(A)	35,5 ²⁾ 35,5 ²⁾	33 ³⁾	36,1 ³⁾ 36,1 ³⁾	36,0 ⁴⁾	36,0 ⁴⁾ 36,0 ⁴⁾	
Necessary accessories								
Drier filter liquid line, Ø6,35 mm	D-152T / DCY-P12		Yes (included)	Yes (included)	Yes (included)	—	—	
Drier filter liquid line, Ø15,88 mm	D-155T / DCY-P8		—	—	—	Yes (included)	Yes (included)	
Suction filter, Ø19,05 mm [outer Ø welding]	S-008T / S-008T1		—	Yes (included)	Yes (included)	Yes (included)	Yes (included)	

1) PZ-68S (refrigeration oil) must be added if >50 m. 2) ET-10 °C, 65 S-1, 10 m from product. 3) ET-10 °C, 80 S-1, 10 m from product. 4) ET -10 °C, 60 S-1, 10 m from product.

Accessories

PAW-C02-PANEL	Panel + MPXPRO control, stator, probes, etc + EEV 12-12 ODF high pressure, size E2V09CSFC1
KIT-C02-PANEL-C-03	Panel-C + MPXPRO control, stator, probes, etc + EEV 3/8" ODF high pressure, size E2V03CWACO
KIT-C02-PANEL-C-05	Panel-C + MPXPRO control, stator, probes, etc + EEV 3/8" ODF high pressure, size E2V05CWACO
KIT-C02-PANEL-C-09	Panel-C + MPXPRO control, stator, probes, etc + EEV 3/8" ODF high pressure, size E2V09CWACO
KIT-C02-PANEL-C-11	Panel-C + MPXPRO control, stator, probes, etc + EEV 3/8" ODF high pressure, size E2V11CWACO
KIT-C02-PANEL-C-14	Panel-C + MPXPRO control, stator, probes, etc + EEV 3/8" ODF high pressure, size E2V14CWACO
KIT-C02-PANEL-C-18	Panel-C + MPXPRO control, stator, probes, etc + EEV 3/8" ODF high pressure, size E2V18CWACO
KIT-C02-PANEL-C-24	Panel-C + MPXPRO control, stator, probes, etc + EEV 3/8" ODF high pressure, size E2V24CWACO
SPK-TU125	Service adaptor for vacuum and service (HP and LP port), for 2 HP, 4 HP and 10 HP
PAW-C02-CHECKER	Service Checker for commissioning, maintenance and service, for 2 HP, 4 HP and 10 HP
CZ-C02LBROL500	Lubrication Oil PZ-68S (0,5L)*, for 2 HP, 4 HP and 10 HP

* You can find the PZ-68S oil "Safety Sheet" in the SAFETY section of our pipe selection software, available on our PRO Club platform. Stock availability: PAW-C02-PANEL until end of stock.



Spare parts for service and maintenance

80203514138000 ¹⁾	S-008T Suction filter, Ø19,05 (outer Ø welding) for 4 HP and 10 HP
80203514139000 ²⁾	S-008T1 Suction filter, Ø19,05 (outer Ø welding) for 4 HP and 10 HP
80203513179000 ³⁾	D-155T Filter dryer, Ø5/8 (15,88) (in Ø welding) (type CO-085-S) for 10 HP
80203513187000 ⁴⁾	DCY-P8 165 S Filter dryer, Ø 5/8 (16,10) (in Ø welding) for 10 HP
80203513180000 ⁵⁾	D-152T Filter dryer, Ø1/4 (6,35) (in Ø welding) (type CO-082-S) for 2 HP and 4 HP
80203513186000 ⁶⁾	DCY-P12 092 S Filter dryer, Ø1/4 (6,40) (in Ø welding) for 2 HP and 4 HP

Compatibility relationship: 1) and 2) are compatible; 3) and 4) are compatible; 5) and 6) are compatible. Stock availability: 1), 3) and 5) until end of stock.

Panasonic PACi NX Elite can cool rooms down to 8 °C

Panasonic PACi NX Elite offers a high quality and efficient solution for high temperature refrigeration applications for facilities such as wine cellars, food processing facilities and supermarkets.

**COOLING ROOMS
BETWEEN 8 °C WB
AND 24 °C WB**

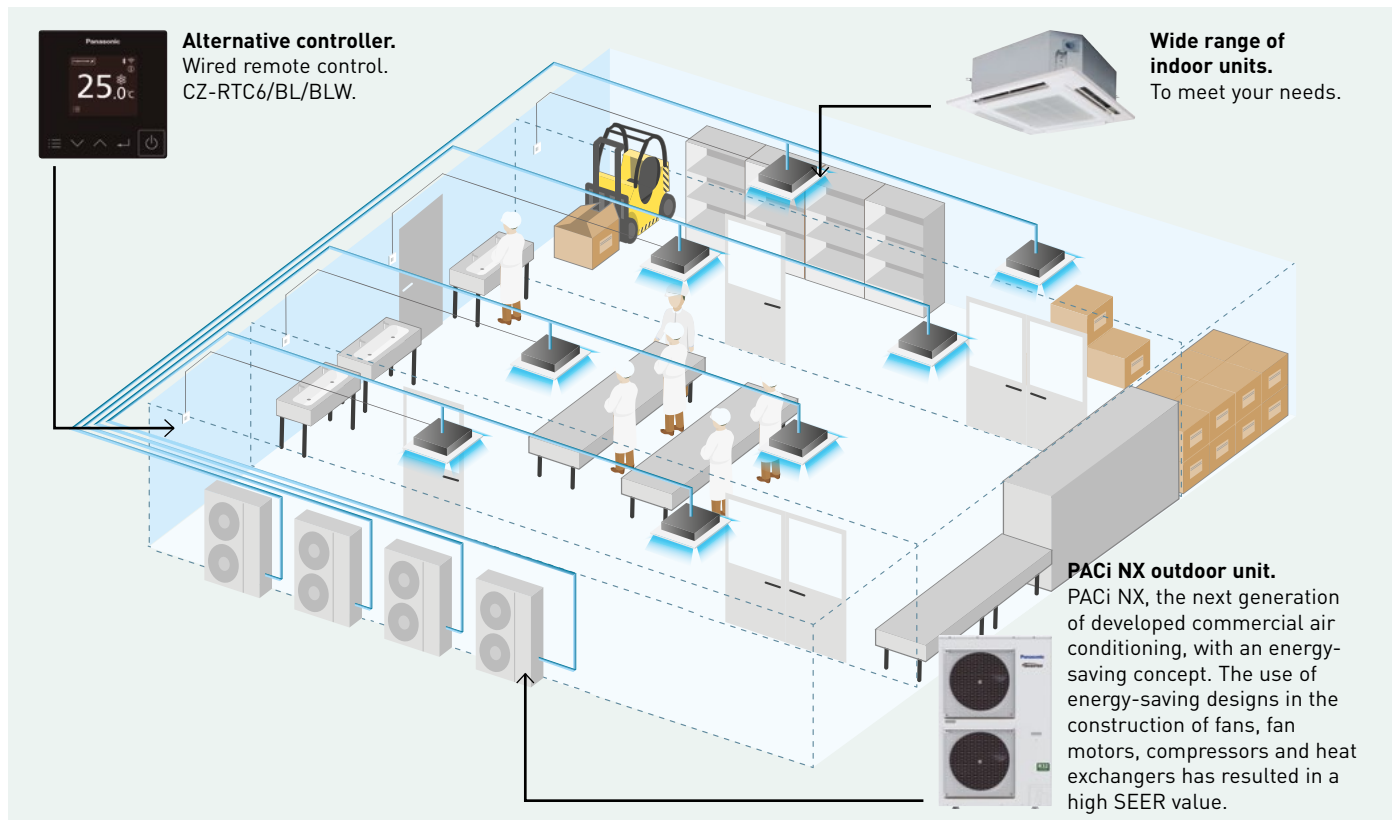


Solutions for cold rooms. Set the room temperature to 8 °C

Complete range from 2,1 to 23,2 kW. This unique solution is perfect for:

Wine cellars, ice cream factories, flower shops, supermarkets, grain stores, food storage, food processing, food distribution, lunchrooms, vegetable processing...

Just like all the indoor units in the PACi NX range, these units are compatible with all Panasonic control and monitoring solutions, which can be scaled from controlling a single zone to monitoring geographically distributed facilities.



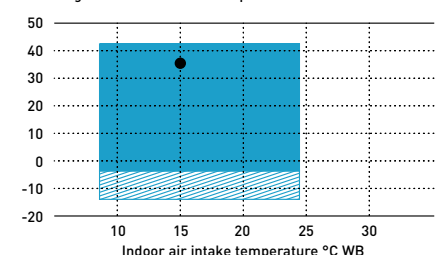
- Flexibility with different type of indoors
- Benefits of hydroxyl radicals
- Out of the box solution from Panasonic. Outdoor, indoor, controller comes as package
- Provides wide scale of control options (individual, central, cloud)
- Redundancy for 2 systems with CONEX controller range and up to 3 systems with PAW-PACR3 optional redundancy controller



Wine cellars and special high temperature rooms

One of the main features of the PACi NX series is the possibility of adjusting the product for special applications, not just for regular cooling applications. The purpose of this product information is to explain in detail these special applications that need a cooling operation to maintain the room temperature at +8 ~ +24 °C WB (or +10 ~ +30 °C DB). In order to do this in terms of enthalpy, the indoor unit needs to be oversized and certain parameters need to be adjustable.

Temperature range for wine cellar.
In cooling. Outdoor air intake temperature °C DB.



Only allowed after installation of wind and snow vents.

Area where cooling capacity is established for this purpose.

Temperature range for wine cellar

	Indoor	Outdoor
Cooling operation	+8 ~ +24 °C WB	-5 (-15) ~ 43 °C DB

Bringing nature's balance indoors



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

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.



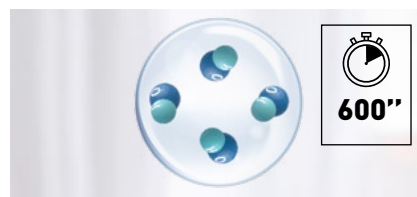
Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner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

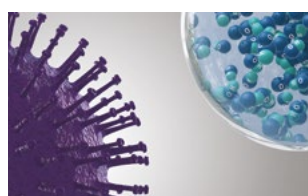


Hydroxyl radicals contained in water.

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

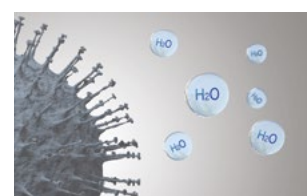
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



2 | Hydroxyl radicals denature pollutants' proteins.



3 | Pollutants activity is inhibited.



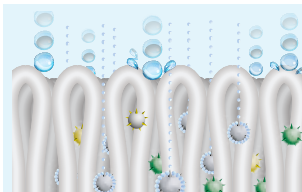
The well-being benefits of nature are well known – but do you know the power of hydroxyl radicals?

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.



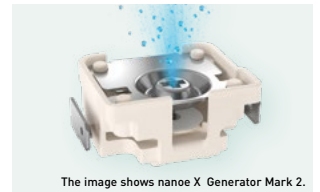
2 | Contained in tiny water particles, nanoe™ X has a long lifespan, which is about 600 seconds, to spread easily around the room.

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 Titanium.

7 effects of nanoe™ X – Panasonic unique technology

Deodorises



Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances



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.

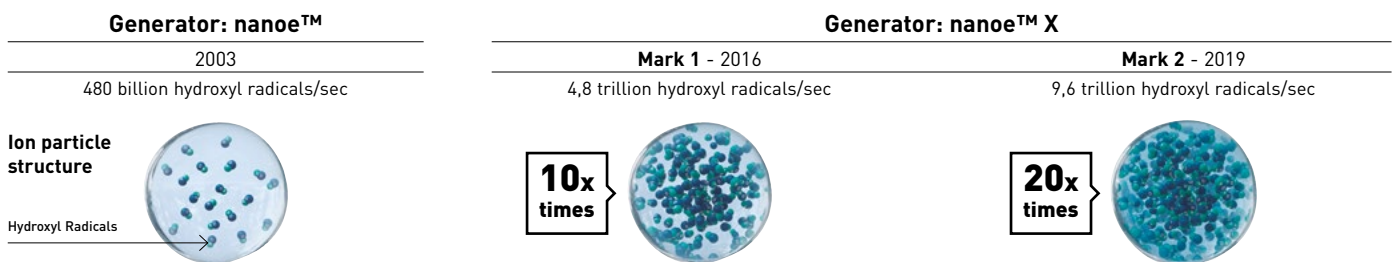
Panasonic heat pump with nanoe™ X technology verified against SARS-CoV-2

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.

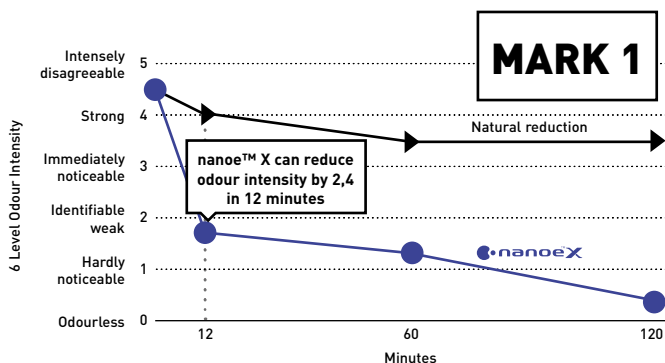
	Tested contents		Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Bacteriophage ΦX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental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

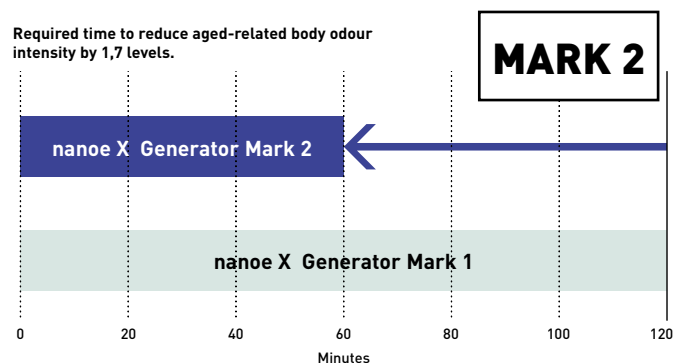


nanoe X Generator Mark 1 can reduce cigarette smoke odour intensity by 2,4 levels in 12 minutes



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

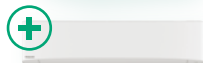
Built-in nanoe X Generator Mark 1.



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



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



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



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

nanoe™ X: improving protection 24/7



nanoe™ X as a standard.

PACi NX Series Elite wall-mounted Inverter+ · R32

For light refrigeration applications.



				High temperature												
Kit		36		50		60		71		100		125		140		
Indoor unit - 1		S-6010PK3E		S-6010PK3E		S-6010PK3E		S-6010PK3Ex2		S-6010PK3E		S-6010PK3E		S-6010PK3E		
Indoor unit - 2		—		—		—		—		S-6010PK3E		S-6010PK3E		S-6010PK3E		
Outdoor unit		U-36PZH3E5		U-50PZH3E5		U-60PZH3E5		U-71PZH3E5/8		U-100PZH3E5/8		U-125PZH3E5/8		U-140PZH3E5/8		
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,90	9,30	11,60	13,60						
		EER		4,55	3,83	3,56	3,14	3,60	3,09	3,19						
		Input power	kW	0,77	1,28	1,63	2,20	2,58	3,75	4,27						
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,46	10,56	12,38						
		EER		4,22	3,55	3,30	2,91	3,35	2,87	2,96						
		Input power	kW	0,75	1,25	1,60	2,16	2,53	3,68	4,18						
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,27	4,14	5,58	6,96	8,16						
		EER		3,50	2,94	2,14	2,41	2,77	2,38	2,45						
		Input power	kW	0,60	1,00	1,52	1,72	2,01	2,93	3,33						
	Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	7,04	9,95	12,41	14,55					
			EER		5,29	4,45	3,86	3,40	4,19	3,60	3,70					
			Input power	kW	0,71	1,18	1,53	2,07	2,37	3,45	3,93					
Indoor 12 °C (WB)		Cooling capacity	kW	3,43	4,80	5,39	6,42	9,11	11,37	13,33						
		EER		4,95	4,17	3,60	3,17	3,93	3,37	3,47						
		Input power	kW	0,69	1,15	1,50	2,02	2,32	3,38	3,84						
Indoor 8 °C (WB)		Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16						
		EER		3,90	3,28	2,97	2,61	3,09	2,65	2,73						
		Input power	kW	0,54	0,90	1,17	1,58	1,81	2,63	2,99						
Indoor unit		Dimension (HxWxD)	mm	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236					
		Net weight	kg	14	14	14	14	14	14	14						
		nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2						
Outdoor unit	Dimension (HxWxD)	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	1416 x 940 x 340						
	Net weight	kg	42	42	43	65	98	98	98							

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	Infrared remote controller
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

Technical focus

- Modern design with flat face and compact size
- DC fan for better efficiency and control
- Six directional piping outlet
- nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Quiet operation

These units are among the quietest in the industry, making them ideal for all types of installations.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making the installation work more flexible.



PACi NX Series Elite 4 way 90x90 cassette Inverter+ · R32

For light refrigeration applications.



			High temperature									
Kit			36	50	60	71	100	125	140	200	250	
Indoor unit - 1			S-6071PU3E	S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	
Indoor unit - 2			—	—	—	—	—	—	S-1014PU3E	S-1014PU3E	S-1014PU3E	
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5/8	U-100PZH3E5/8	U-125PZH3E5/8	U-140PZH3E5/8	U-200PZH2E8	U-250PZH2E8	
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,90	9,30	11,60	13,60	18,50	23,20
		EER		5,12	4,05	3,81	3,65	3,97	3,46	3,51	3,38	2,97
		Input power	kW	0,68	1,21	1,52	1,89	2,34	3,35	3,88	5,48	7,82
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,46	10,56	12,38	16,84	21,11
		EER		4,78	3,76	3,54	3,39	3,69	3,22	3,25	3,13	2,75
		Input power	kW	0,67	1,19	1,49	1,85	2,29	3,28	3,80	5,37	7,66
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	9,43	8,16	11,10	13,92
		EER		3,96	3,12	2,94	2,81	3,06	2,21	2,70	2,60	2,28
		Input power	kW	0,53	0,94	1,19	1,47	1,83	4,27	3,03	4,27	6,10
Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	7,04	9,95	12,41	14,55	20,17	25,29
		EER		5,99	4,71	4,14	3,96	4,62	4,03	4,08	4,00	3,51
		Input power	kW	0,63	1,11	1,43	1,78	2,15	3,08	3,57	5,04	7,19
	Indoor 12 °C (WB)	Cooling capacity	kW	3,43	4,80	5,39	6,42	9,11	11,37	13,33	18,50	23,20
		EER		5,60	4,41	3,86	3,69	4,33	3,77	3,82	3,75	3,30
		Input power	kW	0,61	1,09	1,40	1,74	2,11	3,02	3,49	4,93	7,04
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16	11,10	13,92
		EER		4,41	3,47	3,18	3,04	3,41	2,97	3,00	2,89	2,54
		Input power	kW	0,48	0,85	1,09	1,36	1,64	2,35	2,72	3,84	5,47
Indoor unit	Dimension (HxWxD)	mm	256x840x840	256x840x840	256x840x840	319x840x840	319x840x840	319x840x840	319x840x840	319x840x840	319x840x840	
	Net weight	kg	19	19	20	20	25	25	25	25	25	
	nanoe X Generator		Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	
Outdoor unit	Dimension (HxWxD)	mm	695x875x320	695x875x320	695x875x320	996x940x340	1416x940x340	1416x940x340	1416x940x340	1500x980x370	1500x980x370	
	Net weight	kg	42	42	43	65	98	98	98	117	128	

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-RWRU3W	Infrared remote controller and receiver

Accessories

CZ-KPU3AW	Econavi exclusive panel
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 400x900x400 mm
CZ-FDU3+CZ-ATU2	Fresh air-intake kit

Technical focus

- High performance turbo fan
- Econavi: An optional intelligent sensor to reduce waste of energy
- nanoe™ X (Generator Mark 1= 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X and dry operation
- Lower noise in slow fan operation
- Light weight, easy piping and integrated drain pump for quick installation
- Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)



nanoe™ X as a standard.



PACi NX Series Elite ceiling Inverter+ · R32

For light refrigeration applications.



		High temperature										
Kit		36	50	60	71	100	125	140	200	250		
Indoor unit - 1		S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E		
Indoor unit - 2		—	—	—	—	—	—	S-1014PT3E	S-1014PT3E	S-1014PT3E		
Outdoor unit		U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5/8	U-100PZH3E5/8	U-125PZH3E5/8	U-140PZH3E5/8	U-200PZH2E8	U-250PZH2E8		
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,90	9,30	11,60	13,60	18,50	23,20
		EER		4,67	3,71	3,63	3,67	3,92	3,30	3,45	3,32	2,92
		Input power	kW	0,75	1,32	1,60	1,88	2,37	3,52	3,94	5,57	7,94
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,46	10,56	12,38	16,84	21,11
		EER		4,33	3,45	3,37	3,41	3,64	3,06	3,21	3,08	2,71
		Input power	kW	0,74	1,29	1,57	1,84	2,32	3,45	3,86	5,46	7,78
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,51	8,16	11,10	13,92
		EER		3,59	2,86	2,79	2,82	3,02	2,98	2,66	2,55	2,25
		Input power	kW	0,59	1,03	1,25	1,47	1,85	2,19	3,07	4,34	6,19
Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	7,04	9,95	12,41	14,55	20,17	25,29
		EER		5,43	4,32	3,93	3,98	4,56	3,83	4,01	3,94	3,46
		Input power	kW	0,69	1,21	1,50	1,77	2,18	3,24	3,62	5,12	7,30
	Indoor 12 °C (WB)	Cooling capacity	kW	3,43	4,80	5,39	6,42	9,11	11,37	13,33	18,50	23,20
		EER		5,08	4,04	3,66	3,71	4,27	3,59	3,76	3,69	3,25
		Input power	kW	0,68	1,19	1,47	1,73	2,13	3,17	3,55	5,01	7,15
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16	11,10	13,92
		EER		4,00	3,18	3,02	3,06	3,36	2,82	2,96	2,85	2,50
		Input power	kW	0,53	0,92	1,15	1,35	1,66	2,46	2,76	3,90	5,56
Indoor unit	Dimension (HxWxD)	mm	235x1275x690	235x1275x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	
	Net weight	kg	34	34	40	40	40	40	40	40	40	
	nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	
Outdoor unit	Dimension (HxWxD)	mm	695x875x320	695x875x320	695x875x320	996x940x340	1416x940x340	1416x940x340	1416x940x340	1500x980x370	1500x980x370	
	Net weight	kg	42	42	43	65	98	98	98	117	128	

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-RWRT3	Infrared remote controller and receiver

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

Technical focus

- Wide air distribution for large rooms
- Horizontal air flow reaches maximum 9,5 m
- Fresh air connection available on the unit
- Slim design with 235 mm height fits narrow space
- Silent operation
- nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Further comfort improvement with airflow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.

The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.



PACi NX Series Elite adaptive ducted unit Inverter+ · R32

For light refrigeration applications.



			High temperature									
Kit			36	50	60	71	100	125	140	200	250	
Indoor unit - 1			S-6071PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	
Indoor unit - 2			—	—	—	—	—	—	S-1014PF3E	S-1014PF3E	S-1014PF3E	
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5/8	U-100PZH3E5/8	U-125PZH3E5/8	U-140PZH3E5/8	U-200PZH2E8	U-250PZH2E8	
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,90	9,30	11,60	13,60	18,50	23,20
		EER		3,98	3,20	3,52	3,50	3,94	3,36	3,64	3,50	3,08
		Input power	kW	0,88	1,53	1,65	1,97	2,36	3,45	3,74	5,29	7,54
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,46	10,56	12,38	16,84	21,11
		EER		3,69	2,97	3,26	3,25	3,66	3,12	3,38	3,25	2,86
		Input power	kW	0,86	1,50	1,62	1,93	2,31	3,38	3,67	5,18	7,39
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16	11,10	13,92
		EER		3,06	2,46	2,70	2,69	3,03	2,59	2,80	2,69	2,37
		Input power	kW	0,69	1,19	1,29	1,54	1,84	2,69	2,92	4,13	5,88
Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	7,04	9,95	12,41	14,55	20,17	25,29
		EER		4,63	3,72	3,81	3,80	4,58	3,91	4,23	4,14	3,65
		Input power	kW	0,81	1,41	1,55	1,85	2,17	3,17	3,44	4,87	6,94
	Indoor 12 °C (WB)	Cooling capacity	kW	3,43	4,80	5,39	6,42	9,11	11,37	13,33	18,50	23,20
		EER		4,33	3,49	3,55	3,54	4,29	3,66	3,96	3,89	3,42
		Input power	kW	0,79	1,38	1,52	1,81	2,12	3,11	3,37	4,76	6,79
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16	11,10	13,92
		EER		3,41	2,75	2,93	2,92	3,38	2,88	3,12	3,00	2,64
		Input power	kW	0,62	1,07	1,19	1,42	1,65	2,42	2,62	3,70	5,28
Indoor unit	Dimension (HxWxD)	mm	250x1000x730	250x1000x730	250x1000x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730	
	Net weight	kg	30	30	30	39	39	39	39	39	39	
	nano X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	
Outdoor unit	Dimension (HxWxD)	mm	695x875x320	695x875x320	695x875x320	996x940x340	1416x940x340	1416x940x340	1416x940x340	1500x980x370	1500x980x370	
	Net weight	kg	42	42	43	65	98	98	98	117	128	

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
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform

Accessories

PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy 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

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
- nanoex™ 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 nanoex™ X air can be expected even by 10 m long duct by Panasonic internal survey.

2 installation possibilities (horizontal / vertical)

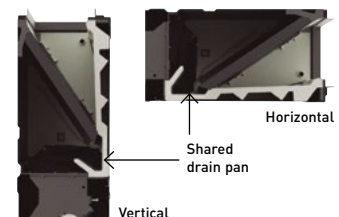
Vertical installation is newly available. ESP 150Pa, sufficient for remotely installing units away from the rooms.




Improved drain pan design


Drain pan is shared in both cases horizontal and vertical installation.


No need to modify the unit.




Energy saving


 Natural CO₂ / R744. R744 refrigerant provides higher energy saving and lower CO₂ emission compared to R404A. Zero ODP and GWP=1 means natural substance.


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

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


 High efficiency compressor. Powerful 2-stage CO₂ rotary compressor by Panasonic. It delivers high performance all year around.


High connectivity


 Connectivity. The system can be supervised with major monitoring system.


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


High performance and indoor air quality

 Super quiet. Systems operate extremely quiet. Minimum 33 dB(A) @10 m with OCU-CR400VF8(SL).

 Operating range up to 43 °C. The system operates up to 43 °C, allowing for installation in various locations.

 Anti corrosion coating. Selectable fin type with or without an anti corrosion coating. The anti corrosion coating prevents salt damage for a longer lifespan.

 Heat recovery port. The heat recovery port is available to cut running costs as optional. By utilizing exhausted heat generated by refrigeration to the energy source for heating.

 Automatic fan operation. Microprocessor control automatically adjusts the outdoor fan speed in CO₂ systems for efficient operation.



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: 01218Q30835P8L

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

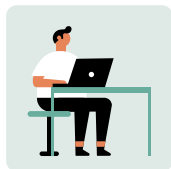


Notes

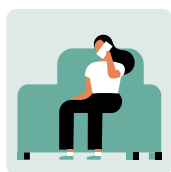
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Panasonic Heating & Cooling Solutions customer service

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



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heating & cooling solutions

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Panasonic®

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log on to: www.aircon.panasonic.eu

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Panasonic Heating & Ventilation Air-conditioning Europe
Sundbybergsvägen 1, SE-171 73 Solna, SWEDEN



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.

