Библиотека СОК

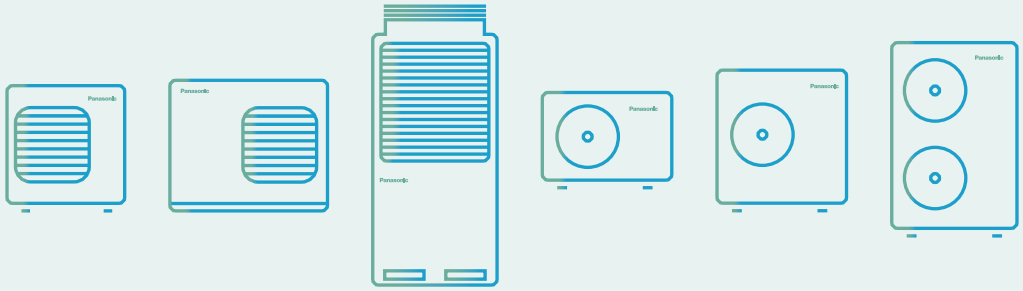
Panasonic

CO_2 REFRIGERATION

PAC*i*

Refrigeration Catalogue 2022/2023

CO_2 Condensing units for LT and MT applications, and R32 complete systems for HT applications.



heating & cooling solutions

CO2 REFRIGERATION / PAC i







CO_2 condensing units - CR Series with natural refrigerant

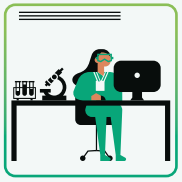
Panasonic's CO_2 condensing units - CR Series provide the ideal solution for supermarkets, convenience stores and gas stations.
Keeping food always fresh at right temperature in showcases or cold rooms is a very critical point. And one of the biggest challenges for those retailers has been the expensive 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.

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Choose the sustainable green solution by Panasonic

Environmentally friendly CO_2 condensing units - CR Series and medium temperature solutions with PACi NX R32.



CO_2 condensing units - CR Series					Medium temperature solutions with PACi NX
MT/LT Type	**MT Type**	**MT/LT Type**	**MT Type**	**MT/LT Type**	
					
Capacity range (kW)					**Capacity range (kW)**
4 (MT) / 2 (LT)	7,5	8 (MT) / 4 (LT)	15	16 (MT) / 8 (LT)	2,1 to 23,2
Low temperature					**Low temperature**
✔	—	✔	—	✔	—
Medium temperature					**Medium temperature**
—	✔	✔	—	✔	✔
High Temperature					**High Temperature**
—	—	—	—	—	✔
Heat recovery port					**Heat recovery port**
—	✔	✔	—	✔	—
ET (Evaporation Temperature) set points range					**Room temp. set point**
-45 ~ -5 °C	-20 ~ -5 °C	-45 ~ -5 °C	-20 ~ -5 °C	-45 ~ -5 °C	+8 ~ +24 °C WB
Room size example (m³)*					**Room size example (m²)***
40 (MT) / 10 (LT)	80	80 (MT) / 20 (LT)	200	200 (MT) / 50 (LT)	From 6

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

Energy saving

Natural CO_2 / R744.
R744 refrigerant provides higher energy saving and lower CO_2 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+.
Inverter Plus System classification highlights Panasonic's highest performing systems.

High efficiency compressor.
Powerful 2-stage CO_2 rotary compressor by Panasonic. It delivers high performance all year around.

High connectivity

BMS connectivity.
The system can by supervised with major monitoring system.

High performance and comfortability

Super quiet.
Systems operate extremely quiet. Minimum 33 dB(A) @10 m with 4 HP model.

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.
Microprocessor control automatically adjusts the outdoor fan speed in CO_2 systems for efficient operation.

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

Why CO_2?: Natural refrigerant

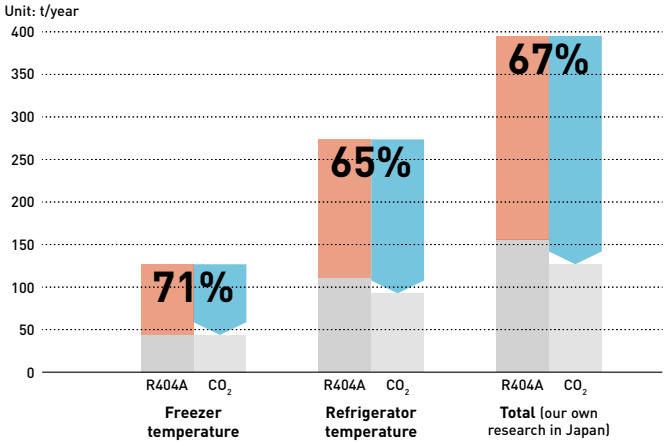
EU F-Gas regulation is a key priority for European countries. It ensures compliance with the Kigali Amendment supporting international climate commitments on greenhouse gases and leading the global transition to climate-friendly HFC-free technologies.
Carbon dioxide (R744) is regaining its place in the refrigeration world. Driven by environmental concerns, legislation now requires increased adoption of 'alternative' refrigerants, such as CO_2.
CO_2 is an 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 CO_2 refrigeration systems to prevent global warming and to support environment-friendly retail operations.
The following table shows how well R744 (CO_2) 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

Comparison of CO_2 emissions



ENERGY SAVING
25,4 % Freezer
16,2 % Refrigeration

CO_2 EMISSION
67 % Reduction

Direct influence [1]
Indirect influence [2]

1) Direct influence presents the effect of refrigerant leakage comparing R744 (CO_2) with R404A.
2) Indirect influence presents CO_2 emissions linked to power consumption of CO_2 unit and conventional units.

By Panasonic research in Japan. Comparing 6 shops average for R404A inverter multi condensing unit.

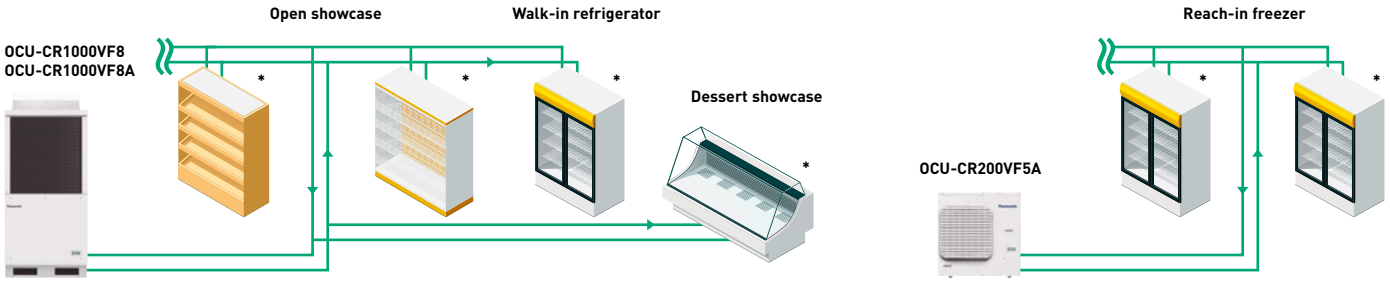
Natural solution with high energy saving

Panasonic's range of CO_2 condensing units with natural refrigerant, and R32 complete systems for HT applications offer a reliable solution for a wide range of applications, including convenience stores, supermarket, gas stations and cold rooms.



Showcases

Convenience stores, supermarkets, service stations.



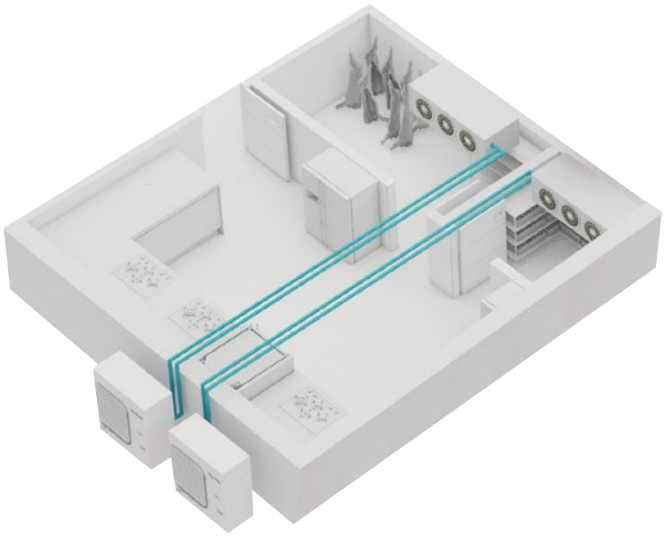
* Controllers: KIT-CO2-PANEL-C or local supply.

Cold room application to keep food fresh

Multiple installation capabilities. Unparalleled flexibility:

- Food retail applications (c-store, supermarkets, gas-stations)
- Food service applications (restaurants, canteens, schools)
- Non-food applications (warehousing, industrial storage, healthcare)





Cold room application integrated with PACi NX Series

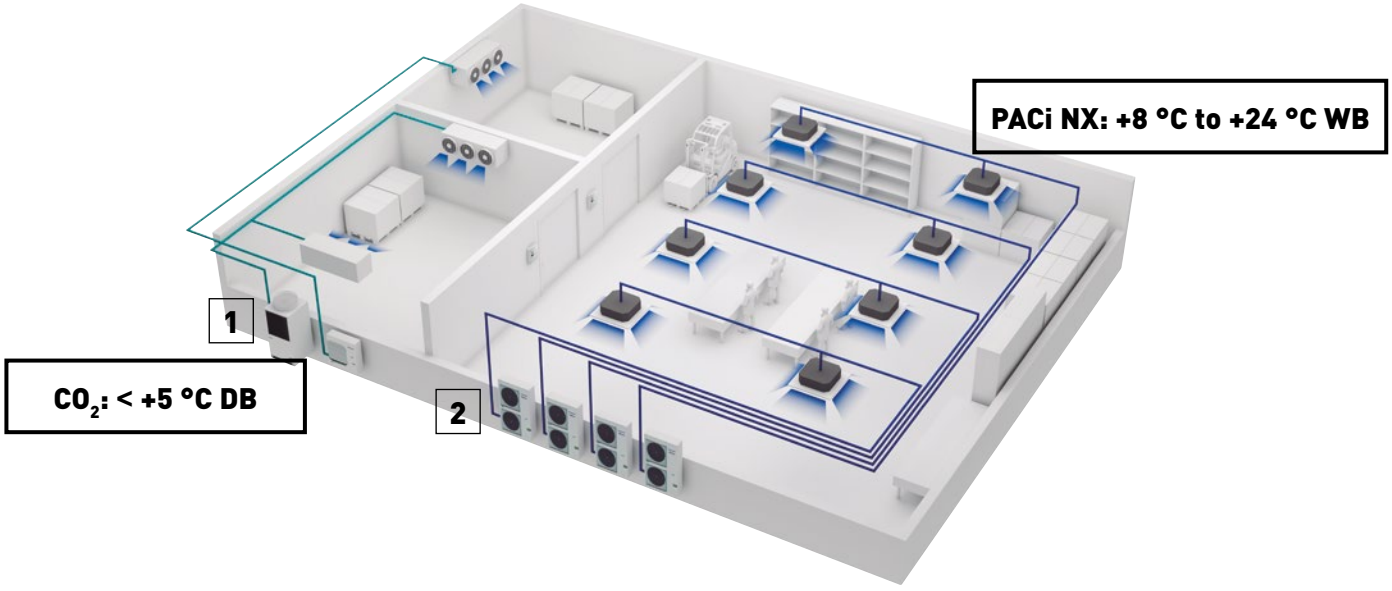
Panasonic offers various solutions for cold rooms by combining a wide range of products.
Integrated with PACi NX Series, it allows for flexible design and installation.



CO_2 condensing units - CR Series for refrigerated room.



PACi NX Series for cooling rooms between 8 °C WB and 24 °C.



A sustainable refrigeration systems in your food retail

CO_2 refrigerant is the choice to curb carbon footprint of any business organization, especially to food retailers, to whom it brings key advantages. Panasonic professional strongly supports your projects to meet customer's request!



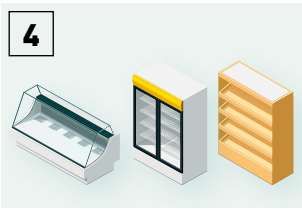
10 HP MT TYPE (OCU-CR1000VF8).



2 HP MT/LT TYPE (OCU-CR200VF5A).



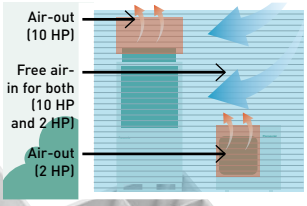
Reach-in freezer (field supplied).



Serve-over counters, showcase and walk-in refrigerator (field supplied).

- **Quiet operation makes outdoor units installation inside possible**
- **Flexible duct installation**

View from outside.



MT application with cold room and multiple showcase in the same system.

Up to 100 m piping connection.

Multiple evaporators connections possible.

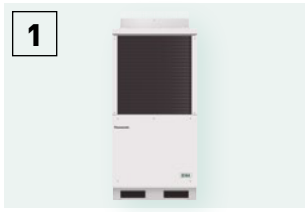
MT operation.
LT operation.



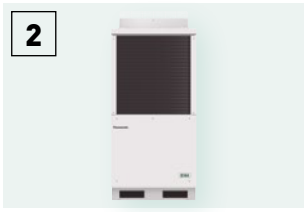
Nolan's Supermarket.
A particular focus of the project was to create a state-of-the-art refrigeration system operating on the 'Zero Ozone Depletion' plus ultra-low GWP of 1 natural refrigerant CO_2 and as part of the scheme.
Panasonic units also has several unique thermo-physical properties.
The high performance, reliable and ultimately very efficient.

The safe refrigeration systems for your healthcare business

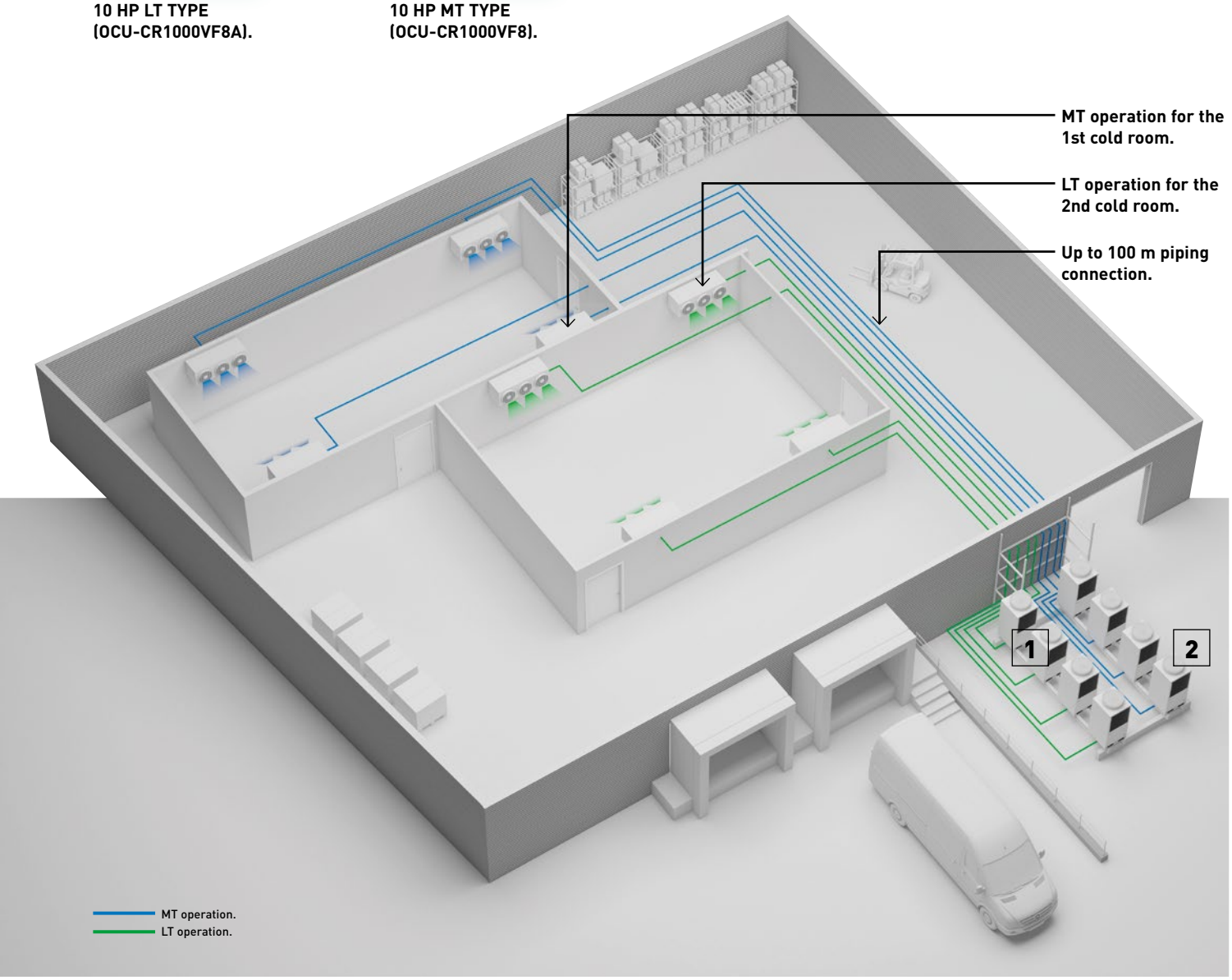
CO_2 is the right refrigerant to curb carbon footprint of any business organization. In addition, there are advantages specially for healthcare business.
The project example shows one of the warehouse in the healthcare laboratory which requires several cold rooms there to keep bio-products safely.



10 HP LT TYPE (OCU-CR1000VF8A).



10 HP MT TYPE (OCU-CR1000VF8).





STEMCELL Technologies.
STEMCELL Technologies is a global biotechnology company that develops, manufactures and sells products and provides services that support academic and industrial scientists.
Panasonic CO_2 condensing units - CR Series have been chosen to fulfill the expectation of environmental-friendly and safety requirements.
The products with reliable quality and high performance was also an essential point.

CO_2 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 electric 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

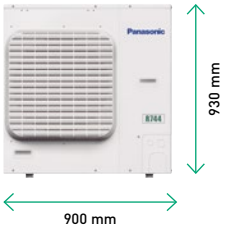
Superior cooling capacity at each evaporating temperature

CO_2 transcritical condensing units - CR Series have a high cooling capacity at each set point. The CO_2 2-stage compressor developed by Panasonic is designed to compress CO_2 refrigerant twice; it reduces the load in operation by half (compared to 1-stage refrigerant compression) and delivers increased durability and reliability.
Units can be programmed to run at low and medium temperatures at initial set-up. These settings can then be modified by turning a simple and user friendly rotary switch to further enhance energy savings.

MT/LT TYPE
200VF5A - 4 kW / 2 kW

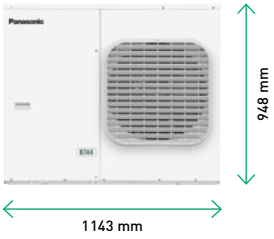
3,83 SEPR COOLING* | **1,92** SEPR FREEZING*

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



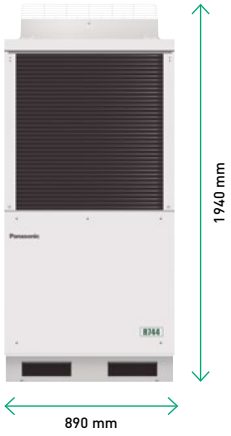
MT TYPE
400VF8 - 7,5 kW

NEW MT/LT TYPE
400VF8A - 8 kW / 4 kW

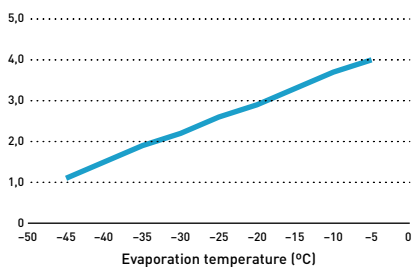


MT TYPE
1000VF8 - 15 kW

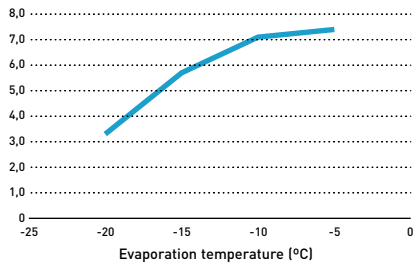
MT/LT TYPE
1000VF8A - 16 kW / 8 kW



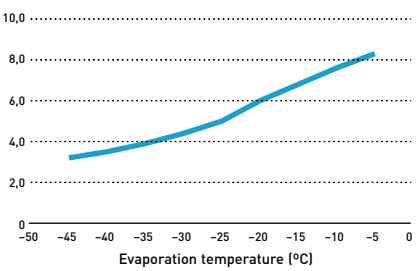
OCU-CR200VF5A(SL) [1].
Cooling capacity (kW)



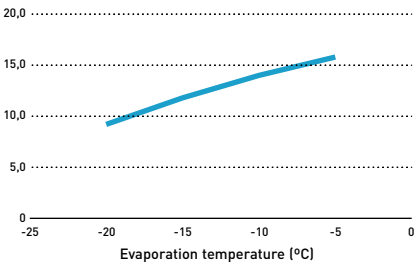
OCU-CR400VF8(SL) [2].
Cooling capacity (kW)



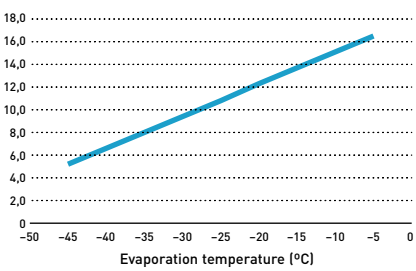
OCU-CR400VF8A(SL) [2].
Cooling capacity (kW)



OCU-CR1000VF8(SL) [2].
Cooling capacity (kW)



OCU-CR1000VF8A(SL) [2].
Cooling capacity (kW)



1) Ambient temperature: 32 °C, 230 V, refrigerant: R744, suction gas temperature: 18 °C.
2) Ambient temperature: 32 °C, 400 V, refrigerant: R744, suction gas temperature:18 °C.

Technology by Panasonic

Excellent quality control established by skilled factory team. Reliability is our main target and therefore we offer compressor warranties of 5 years, and 2 year warranties on other components!



Reliable CO_2 technology by Panasonic

- Reliable quality: Made in Japan
- 10000 units sold and installed in 3700 retail operations such as convenience stores and supermarkets in Japan*
- Excellent quality control established by skilled factory team
- Panasonic offers 5 year warranties on compressors and 2 years on components
- The 5 year compressor warranty matches the products long lifespan

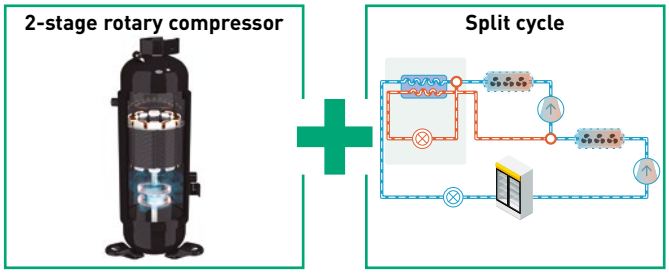
* As of the end of November 18.

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

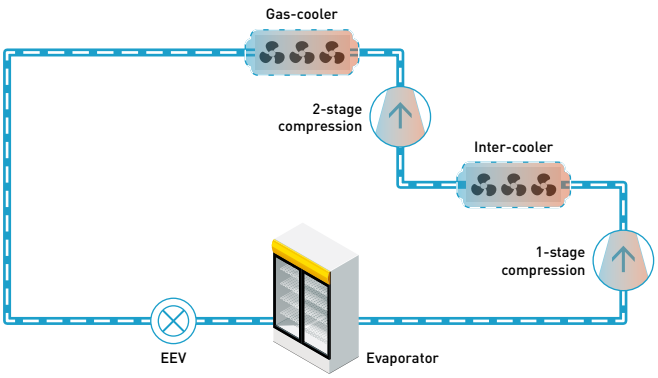
- Panasonic 2-stage rotary compressor delivering powerful performance for more than 20 years
- Split cycle* enhances cooling effect

The video for detailed information is ready!

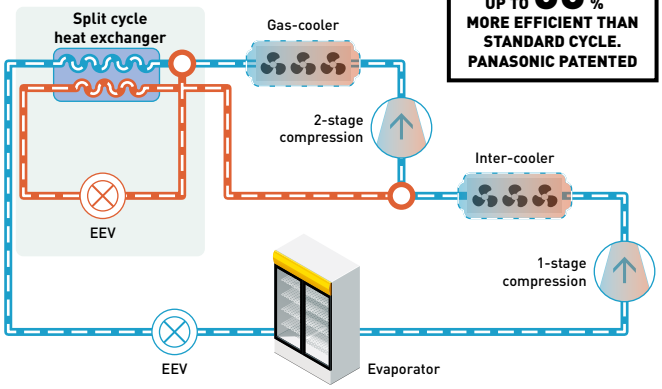
* Available for 200VF5A, 400VF8A and 1000VF8A models.
** In the case that the standard cycle with 1-stage rotary compressor was compared.



Standard cycle.



Split cycle.



UP TO 50 % MORE EFFICIENT THAN STANDARD CYCLE. PANASONIC PATENTED

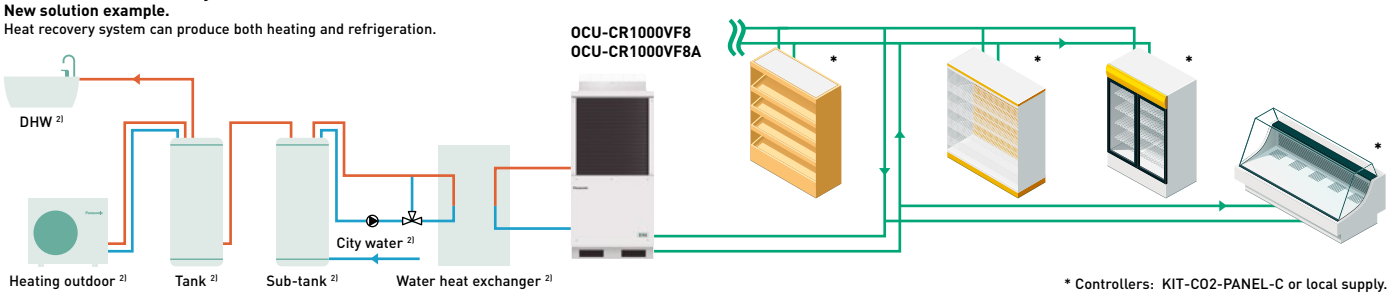
Heat recovery function for heating

This function offers refrigeration combined with heating all in one system. The ground-breaking solution allows for increased opportunity to cut running costs by utilizing exhausted heat from refrigeration and transferring to the energy source for heating.

16,7 KW1) OF HOT WATER FOR FREE

1) Under the condition: ambient temperature 32 °C, evaporation temperature -10 °C. 100 % Partial load.2) Local supply.

What is heat recovery function?
New solution example.
Heat recovery system can produce both heating and refrigeration.



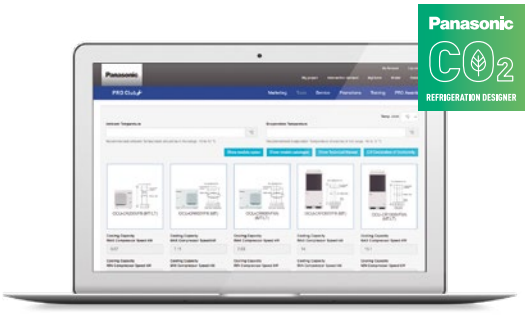
* Controllers: KIT-CO2-PANEL-C or local supply.

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!!



PRO Club

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

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 P.15



Electric expansion valves (EEVs) line-up.
· EEV´s E2V-CW with 3/8" ODF copper fittings for high pressure applications (CO_2)
· Operation refrigerant temperature: -40 T 70 °C
· Maximum operating pressure for all the models 03, 05, 09, 11, 14, 18, 24 (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)
· Equipercentile control particularly effective at partial load with reliable operation even after 1,2 billion steps

Modbus compatibility with monitoring system

Panasonic CO_2 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 CO_2 condensing units - CR Series system at shops.

Monitoring system			
CAREL	Danfoss	eliwell by Schneider Electric	Resource Data Management
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 CO_2 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 CO_2 condensing units - CR Series. Panasonic will supply the DRX file where the Panasonic unit's library is included with the acquisition of the CO_2 service checker.

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

eliwell by Schneider Electric

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

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

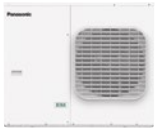
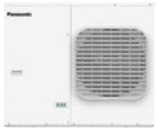


Main features:
· Reading and recording variable technical parameters
· Main technical parameters available*: pressures, temperatures, opening of expansion valves, states of solenoid valves, rotational speeds of the gas-cooler fan motor, frequency and compressor's current, etc.
· Setting change of operating values possible
· 2D graph visualization for the detailed analysis
· Monitoring an alarm status, for example the status of the compressor oil level, etc.

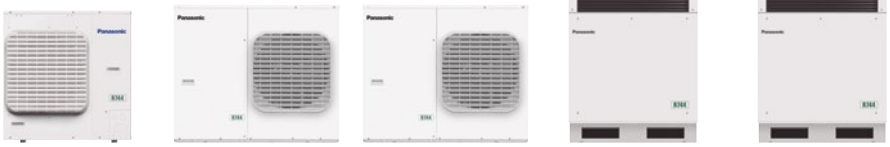
* Please check all the parameters available in the manual.

Model reference
PAW-CO2-CHECKER

Range of CO_2 condensing units - CR Series

Outdoor units	MT	4,0 kW	7,0 kW	8,0 kW	15,0 kW	16,0 kW
	LT	2,0 kW		4,0 kW		8,0 kW
4 kW MT / LT (200VF5A)		 OCU-CR200VF5A OCU-CR200VF5ASL				
7,5 kW MT (400VF8)			 OCU-CR400VF8 OCU-CR400VF8SL			
7,5 kW MT / LT (400VF8A)				 OCU-CR400VF8A OCU-CR400VF8ASL		
15 kW MT (1000VF8)					 OCU-CR1000VF8 OCU-CR1000VF8SL	
16 kW MT / LT (1000VF8A)						 OCU-CR1000VF8A OCU-CR1000VF8ASL

CO_2 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	H x W x D	mm	930 x 900 x 437	948 x 1143 x 609	948 x 1143 x 609	1941 x 890 x 890	1941 x 890 x 890
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		m³/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	-10 / -35	-10	-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, diameter 6,35 mm		**D-152T / DCY-P12**	Yes (included: delivered with the unit)	Yes (included: delivered with the unit)	Yes (included: delivered with the unit)	—	—
Drier filter liquid line, diameter 15,88 mm		**D-155T / DCY-P8**	—	—	—	Yes (included: delivered with the unit)	Yes (included: delivered with the unit)
Suction filter, diameter 19,05 mm (outer diameter welding)		**S-008T / S-008T1**	—	Yes (included: delivered with the unit)	Yes (included: delivered with the unit)	Yes (included: delivered with the unit)	Yes (included: delivered with the unit)

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	
KIT-CO2-PANEL-C-03	Panel-C with MPXPRO control, stator, probes, etc + Electronic Expansion Valve 3/8" ODF high pressure, size E2V03CWAC0
KIT-CO2-PANEL-C-05	Panel-C with MPXPRO control, stator, probes, etc + Electronic Expansion Valve 3/8" ODF high pressure, size E2V05CWAC0
KIT-CO2-PANEL-C-09	Panel-C with MPXPRO control, stator, probes, etc + Electronic Expansion Valve 3/8" ODF high pressure, size E2V09CWAC0
KIT-CO2-PANEL-C-11	Panel-C with MPXPRO control, stator, probes, etc + Electronic Expansion Valve 3/8" ODF high pressure, size E2V11CWAC0
KIT-CO2-PANEL-C-14	Panel-C with MPXPRO control, stator, probes, etc + Electronic Expansion Valve 3/8" ODF high pressure, size E2V14CWAC0
KIT-CO2-PANEL-C-18	Panel-C with MPXPRO control, stator, probes, etc + Electronic Expansion Valve 3/8" ODF high pressure, size E2V18CWAC0
KIT-CO2-PANEL-C-24	Panel-C with MPXPRO control, stator, probes, etc + Electronic Expansion Valve 3/8" ODF high pressure, size E2V24CWAC0
PAW-CO2-PANEL	Panel with MPXPRO control, stator, probes, etc + Electronic Expansion Valve 12-12 ODF high pressure, size E2V09CSFC1
SPK-TU125	Service adaptor for vacuum and service (HP port and LP port) , valid for 2HP, 4HP and 10HP models.
PAW-CO2-CHECKER	Service Checker for commissioning, maintenance and service, valid for 2HP, 4HP and 10HP models.
CZ-CO2LBROL500	Lubrication Oil PZ-68S (0.5L)*, valid for 2HP, 4HP and 10HP models.

* 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-CO2-PANEL until end of stock.

Spare parts for service and maintenance	
80203514138000 [1]	S-008T Suction filter, ø 19,05 mm (outer ø welding), valid for 4HP and 10HP models.
80203514139000 [2]	S-008T1 Suction filter, ø 19,05 mm (outer ø welding), valid for 4HP and 10HP models.
80203513179000 [3]	D-155T Filter dryer, ø 15,88mm - 5/8"" (in ø welding) (type CO-085-S), valid for 10HP model.
80203513187000 [4]	DCY-P8 165 S Filter dryer , ø 16,1mm - 5/8"" (in ø welding), valid for 10HP model.
80203513180000 [5]	D-152T Filter dryer, ø 6,35mm - 1/4" (in ø welding) (type CO-082-S), valid for 2HP and 4HP models.
80203513186000 [6]	DCY-P12 092 S Filter dryer, ø 6,4mm - 1/4" (in ø welding), valid for 2HP and 4HP models.

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.

CO_2 R744 | INVERTER+ | HIGH EFFICIENCY COMPRESSOR | SUPER QUIET | 43 °C AMBIENT TEMPERATURE | ANTI CORROSION COATING | HEAT RECOVERY PORT | AUTOMATIC FAN | 5 YEARS COMPRESSOR WARRANTY | BMS CONNECTIVITY

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

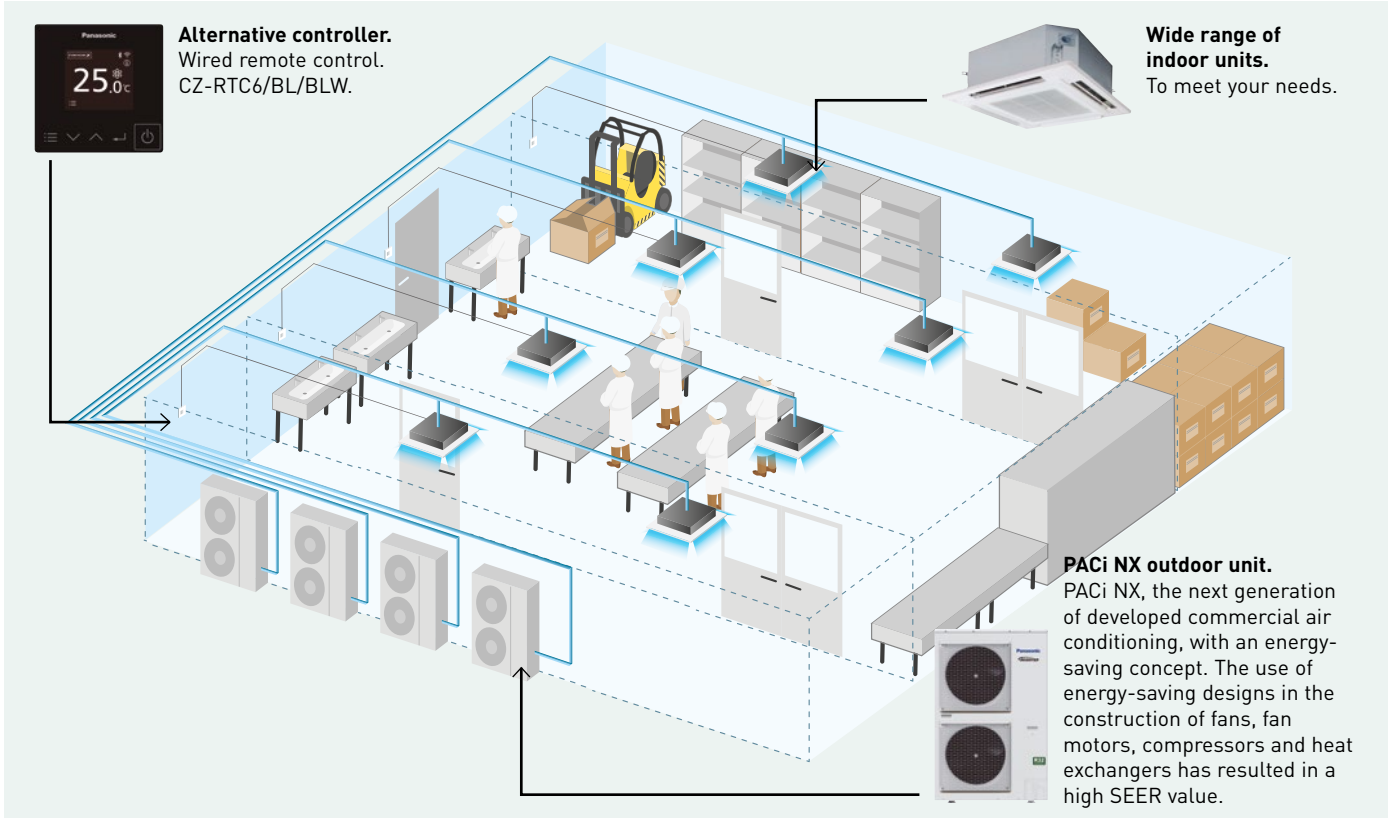
Panasonic PACi NX Elite offers a high quality and efficient solution for high temperature refrigeration applications for facilities such as wine cellars, food processing facilities and supermarkets.



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

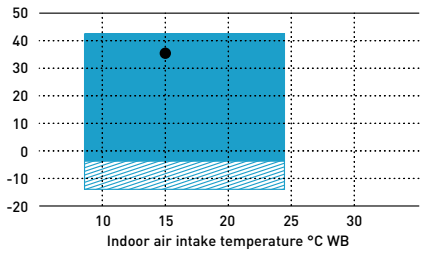


Wine cellars and special high temperature rooms

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 overdimensioned and certain parameters need to be adjustable.

Temperature range for wine cellar		
	Indoor	Outdoor
Cooling operation	+8 ~ +24 °C WB	-5 (-15) ~ 43 °C DB

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.

Bringing nature's balance indoors

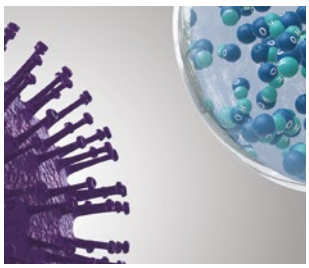
nanoe™ X, technology with the benefits of hydroxyl radicals.

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

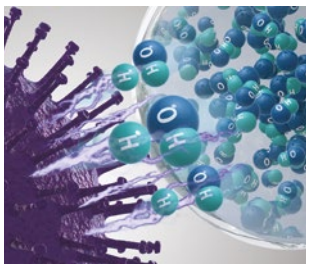


Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

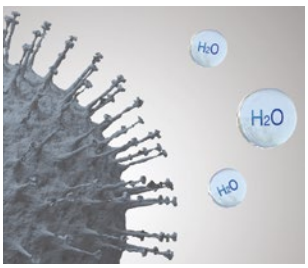
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



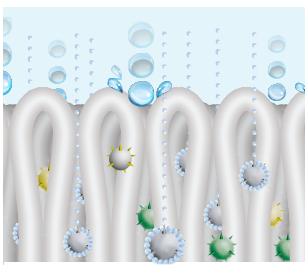
2 | Hydroxyl radicals denature pollutants' proteins.



3 | Pollutants activity is inhibited.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.



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

Longer lifespan.



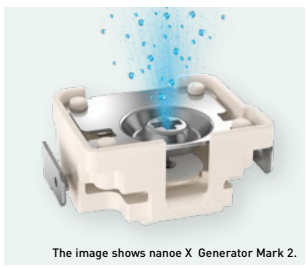
2 | Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.

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.



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 Titatium.

7 effects of nanoe™ X – Panasonic unique technology

Deodorises



Odours

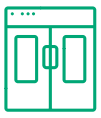
Capacity to inhibit 5 types of pollutants



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances

Moisturises



Skin and hair

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

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.

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

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

	Tested contents		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
		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
	Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04

First nanoe™ device was developed by Panasonic in 2003

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

nanoe™ X: improving protection 24/7



Acts to clean the work area, such as meat or fish handling in hotel kitchens, food handling in industrial processes, laboratories, wine cellars, etc. So that the indoor environment can be a cleaner and more pleasant place to be all day long and keep the processes in better bacterial conditions.
nanoe™ X works together with the cooling function when during the day but can work independently when the area is not occupied.
Give the system the strength to increase the protection of persons, air, colds stuffs and working surfaces with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App.

nanoeX Improving Protection 24/7

Cleans the air even when there is no work activity.
Leave the nanoe™ X mode ON to inhibit certain pollutants and deodorize before start the work activity again.

Improves your environment and better protects the products handled when you are or not at work.
Enjoy a cleaner comfortable space both when working indoors and simply when it comes to better protecting products in the cold room.

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

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



4 Way 90x90 cassette.
Built-in nanoe X Generator Mark 1.



Ceiling.
Built-in nanoe X Generator Mark 2.



Adaptive ducted unit.
Built-in nanoe X Generator Mark 2.

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 (H x W x D)	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
		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 (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

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.



nanoe™ X as a standard.

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 (H x W x D)	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 (H x W x D)	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 400 x 900 x 400 mm
CZ-FDU3+CZ-ATU2	Fresh air-intake kit

Technical focus

- High performance turbo fan
- Econavi: An optional intelligent sensor to reduce waste of energy
- nanoe™ X (Generator Mark 1= 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe™ X 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)



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 (H x W x D)	mm	235x1275x690	235x1275x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690
		Net weight	kg	34	34	40	40	40	40	40	40	40
		nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit		Dimension (H x W x D)	mm	695x875x320	695x875x320	695x875x320	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 m 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.



nanoe™ X as a standard.

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	0,00	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 (H x W x D)	mm	250x1000x730	250x1000x730	250x1000x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730
		Net weight	kg	30	30	30	39	39	39	39	39	39
		nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit		Dimension (H x W x D)	mm	695x875x320	695x875x320	695x875x320	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
- 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.

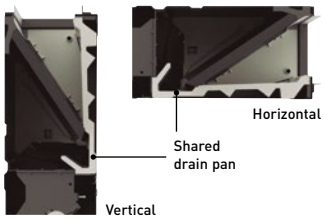
2 installation possibilities (horizontal / vertical)

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.



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Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of the other refrigerant.
The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.

Panasonic®

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