

Panasonic



REFRIGERATION RANGE 2025 / 2026


FRIGRO
HOT IN COOLING

heating & cooling solutions



Moving to more sustainable refrigeration solutions – iCORE and iCOOL ranges

Panasonic's iCORE and iCOOL condensing units offer a complete line of cooling solutions using CO₂, HFO, and HFC refrigerants – ideal for retail stores, supermarkets, HoReCa, gas stations, food processing, and cold storage. As the industry transitions toward greener technologies, Panasonic provides systems that address both immediate needs and long-term goals in energy efficiency and enhanced environmental responsibility.

iCORE / iCOOL





Refrigeration engineered for excellence → 4

Solution with high energy saving → 6

iCORE range – Naturally efficient cooling → 8

A more sustainable refrigeration systems in your food retail → 10

The safe refrigeration systems for your healthcare business → 11

iCORE OCU-CR CO₂ Series → 12

Technology by Panasonic → 14

Control and connectivity → 16

iCORE OCU/SCU-CRC Custom-fit CO₂ Series → 20

High pressure fan ready solution for
iCORE OCU/SCU-CRC Custom-fit CO₂ Series → 24

Customization options for
iCORE OCU/SCU-CRC Custom-fit CO₂ Series → 25

iCORE product specifications and capacity tables

iCORE OCU-CR CO₂ Series · R744 → 18

iCORE OCU/SCU-CRC Custom-fit CO₂ Series · R744 → 22

Accessories and control – iCORE → 26

**iCOOL range – Inverter solutions
for today and tomorrow** → 28

iCOOL SE Series → 30

iCOOL OCU/SCU Series → 34

iCOOL LCU/WCU Series → 42

iCOOL product specifications and capacity tables

iCOOL SE Series
· R448A / R449A / R134a / R513A / R454C / R455A → 31

iCOOL OCU/SCU Series · R448A / R449A / R134a / R513A → 36

iCOOL LCU Series (remote compressor base)
· R448A / R449A / R134a / R513A → 44

iCOOL WCU Series (water/glycol cooled condensing units)
· R448A / R449A / R134a / R513A → 46

PACi NX Elite can cool rooms down to 8 °C → 50

Bringing nature's balance indoors → 52

PACi NX Series Elite wall-mounted - PK4 · R32 → 54

PACi NX Series Elite 4 way 90x90 cassette - PU3 · R32 → 55

PACi NX Series Elite ceiling - PT3 · R32 → 56

PACi NX Series Elite adaptive ducted unit - PF3 · R32 → 57

PACi NX Jet Air Stream · R32 → 58

Accessories and control – PACi NX → 59

Refrigeration engineered for excellence

Step toward more sustainable cooling solutions.



Panasonic introduces its most extensive and versatile commercial refrigeration range to date. This milestone reflects a significant strategic evolution.

The world keeps moving. So must cooling. Meet our refrigeration portfolio.

Complete line of cooling solutions using CO₂, HFO and HFC refrigerants.

R744
CO₂

R448A

R449A

R134a

R513A

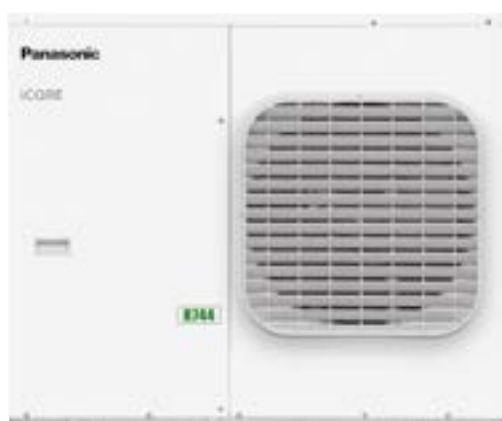
R454C

R455A

Panasonic unveils iCORE and iCOOL refrigeration ranges.

The portfolio introduces two distinct product ranges, designed to provide commercial refrigeration to a wide range of applications including retail stores, supermarkets, HoReCa sector, gas stations and cold storage applications:

iCORE



iCORE

Move to natural refrigerants.

Panasonic's flagship range of CO₂ condensing units, representing the core of future-proof, natural refrigerant technology.

The iCORE range offers a broad selection of cooling capacities, with up to 29 kW for medium temperature applications, and up to 15 kW for low temperature requirements.

iCOOL



iCOOL

Reduce your energy bills with advanced Inverter technology.

A comprehensive range of Inverter HFC and A2L-ready solutions, designed to meet today's market needs while supporting the transition to lower-GWP refrigerants. The iCOOL range covers a wide spectrum of cooling capacities – up to 42 kW for medium temperature applications, and up to 14 kW for low temperature needs.

These brands reflect Panasonic's dual commitment: first, to lead the transition to more sustainable refrigerants; and second, to deliver long-term energy savings and lower electricity bills through advanced Inverter technology, benefiting both today's systems and those ready for the future.

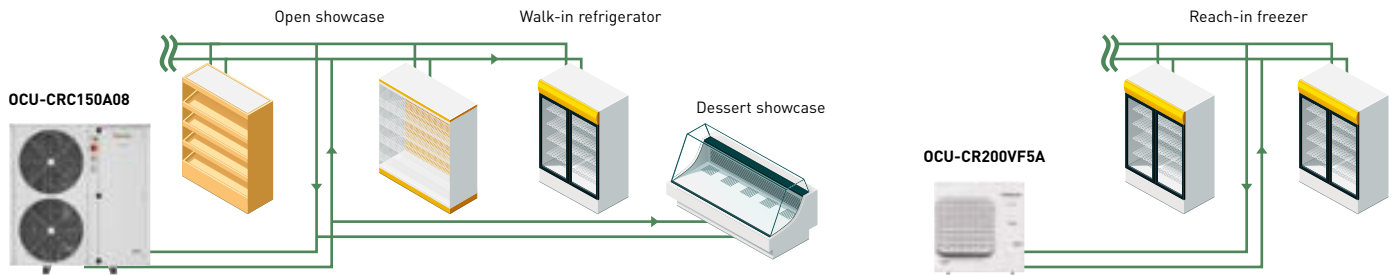
Solution with high energy saving

Panasonic's iCORE and iCOOL ranges of condensing units offer a reliable solution for a wide range of applications, including convenience stores, supermarket, gas stations and cold rooms.



Showcases.

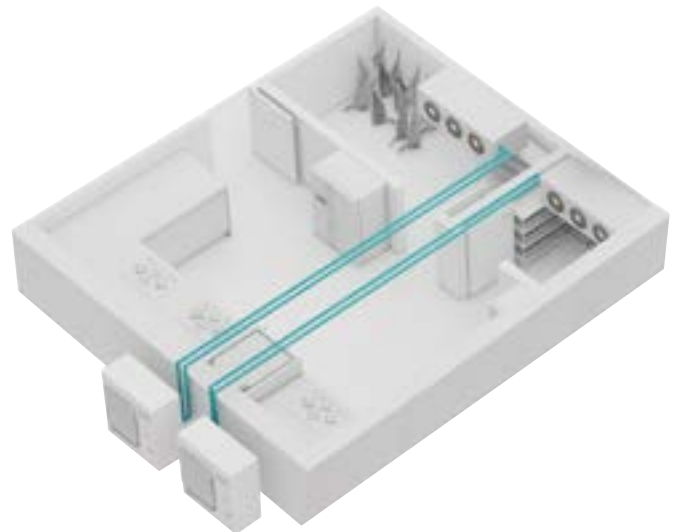
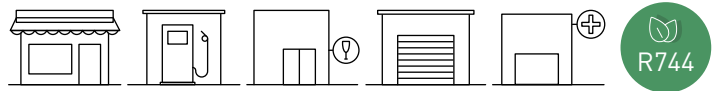
Convenience stores, supermarkets, gas stations.



Cold room application to keep food fresh

Multiple installation capabilities. Unparalleled flexibility:

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



iCORE and iCOOL cold room application integrated with Panasonic PACi NX Series high temperature

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.



1 Condensing units – iCORE and iCOOL ranges for refrigerated room.



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



PACi NX: 8 °C WB and 24 °C WB

iCORE range – Naturally efficient cooling

iCORE

Panasonic's iCORE range is a new generation of CO₂ condensing units, built on more sustainability, energy efficiency, and flexibility. Using CO₂ – a natural refrigerant – iCORE supports today's environmental goals while delivering reliable, high-performance cooling.



iCORE range – CO₂ condensing units

OCU-CR CO ₂ Series						OCU-CRC Custom-fit CO ₂ Series			SCU-CRC Custom-fit CO ₂ Series
MT/LT type	MT type	MT/LT type	MT type	MT/LT type	MT/LT type	MT/LT type	MT/LT type	MT type	MT/LT type
OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR2000VF8A	OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08
Capacity range (kW)									
4 (MT) / 2 (LT)	7	8 (MT) / 4 (LT)	14	15 (MT) / 8 (LT)	29 (MT) / 15 (LT)	6 (MT) / 3 (LT)	15 (MT) / 7 (LT)	21	15 (MT) / 7 (LT)
Medium temperature									
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low temperature									
Yes	No	Yes	No	Yes	Yes	Yes	Yes	No	Yes
ET (evaporation temperature) set points range (°C)									
-45 ~ -5 °C	-20 ~ -5 °C	-45 ~ -5 °C	-20 ~ -5 °C	-45 ~ -5 °C	-45 ~ -5 °C	-35 ~ -5 °C	-35 ~ 0 °C	-20 ~ -5 °C	-35 ~ 0 °C
Room size example (m ³)*									
40 (MT) / 10 (LT)	80	80 (MT) / 20 (LT)	200	200 (MT) / 50 (LT)	300 (MT) / 75 (LT)	60 (MT) / 15 (LT)	200 (MT) / 45 (LT)	250	200 (MT) / 45 (LT)

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

The range includes the OCU-CR CO₂ Series – value-packed units designed for the evolving, eco-conscious market – and the OCU/SCU-CRC Custom Fit CO₂ Series, offering factory-integrated, and fully tested options for faster installation and reduced on-site labour. iCORE is the core of an efficient, future-ready refrigeration system – combining ecological responsibility with practical performance to meet a wide range of market needs.

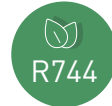
iCORE OCU-CR CO₂ Series · R744.

From 4 to 29 kW MT and
from 2 to 15 kW LT.



iCORE OCU/SCU-CRC Custom-fit CO₂ Series · R744.

From 6 to 21 kW MT and
from 3 to 7 kW LT.



Choose a greener solution by Panasonic.

iCORE range – CO₂ condensing units for medium and low temperature refrigeration applications, tailored for demanding needs.

System reliability and precise temperature control are critical to maintaining product quality and ensuring food safety for end customers. Panasonic's solutions are also designed for high energy efficiency, helping businesses reduce operational costs while supporting their environmental responsibilities.

Why CO₂? Natural refrigerant

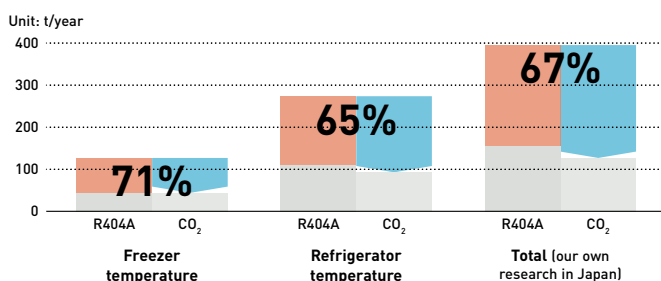
EU F-Gas regulation is a key priority for European countries. It ensures compliance with the Kigali Amendment supporting international climate commitments on greenhouse gases and leading the global transition to climate-friendly HFC-free technologies. Carbon dioxide (R744) is regaining its place in the 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

Comparison of CO₂ emissions



Energy saving
25,4% freezer
16,2% refrigeration

CO₂ emission
67% reduction

Direct influence ¹⁾ Indirect influence ²⁾

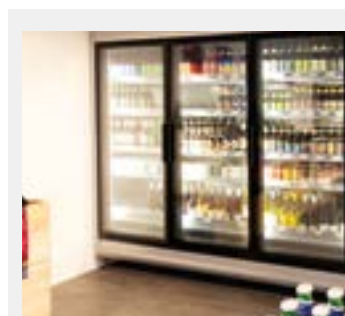
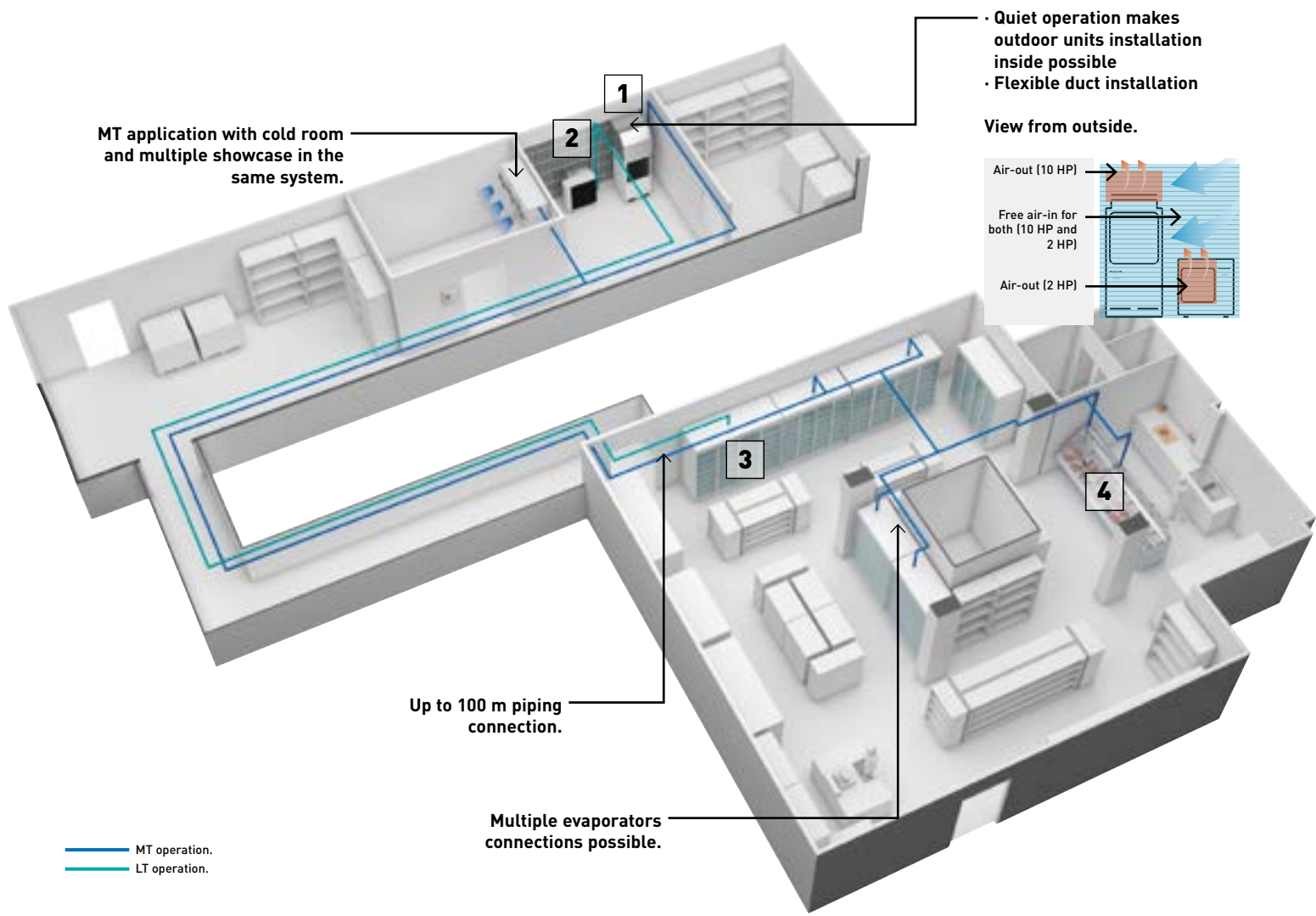
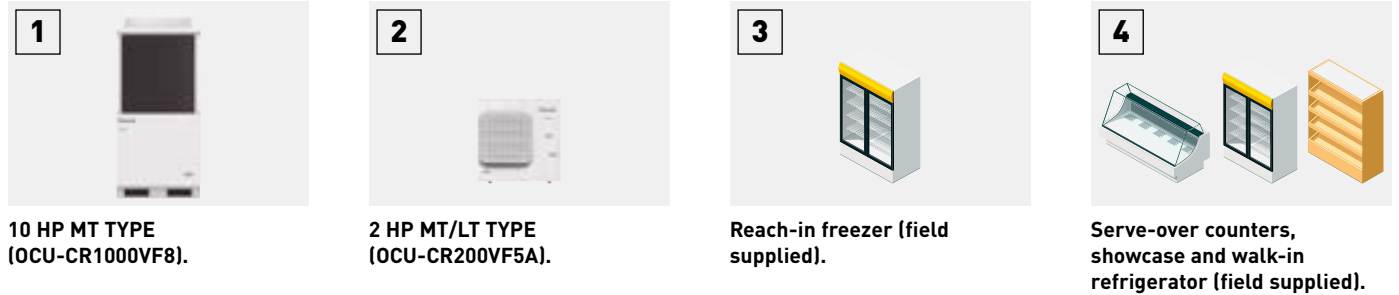
1) Direct influence presents the effect of refrigerant leakage comparing R744 (CO₂) with R404A.
2) Indirect influence presents CO₂ emissions linked to power consumption of CO₂ unit and conventional units.
By Panasonic research in Japan. Comparing 6 shops average for R404A Inverter multi condensing unit.

A more sustainable refrigeration systems in your food retail

CO₂ 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!

* Case study based on iCORE OCU-CR CO₂ Series CO₂ units.



Nolan's Supermarket.
Nolan's Supermarket celebrated its 60th year in business with an extension and full refurbishment which completely overhauled the existing store.
A particular focus of the project was to create a state-of-the-art refrigeration system operating on the 'Zero Ozone Depletion' plus ultralow GWP of 1 natural refrigerant CO₂, and as part of the scheme. Panasonic CO₂ condensing units - iCORE OCU-CR CO₂ Series have been chosen because of the high performance and reliable quality.

The safe refrigeration systems for your healthcare business

CO₂ 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.

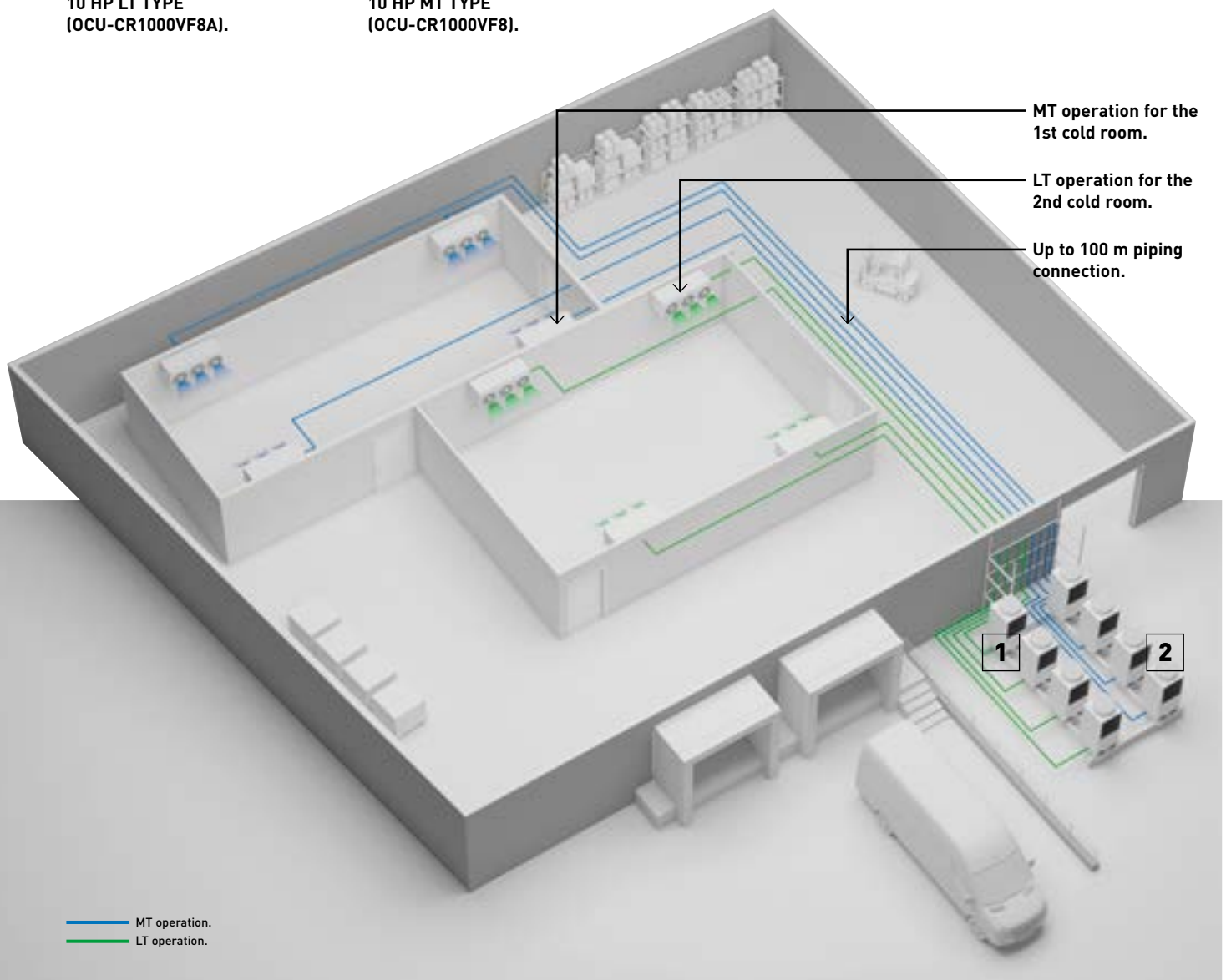
* Case study based on iCORE OCU-CR CO, Series CO, units.



1
10 HP LT TYPE
(OCU-CR1000VF8A).



2
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 CO₂ condensing units - iCORE OCU-CR CO, 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.

iCORE OCU-CR CO₂ Series

CO₂ transcritical condensing units. iCORE OCU-CR CO₂ Series offer a wide range of refrigeration systems, meeting the specific needs of various commercial applications.



Superior cooling capacity at each evaporating temperature.

CO₂ transcritical condensing units - iCORE OCU-CR CO₂ 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.

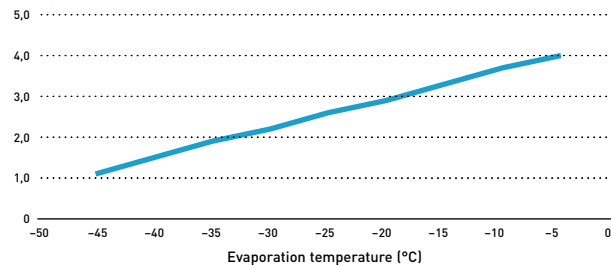
Units can be programmed to run at low and medium temperatures at initial set-up. These settings can then be modified by turning a simple and user friendly rotary switch to further enhance energy savings.

MT/LT type: 200VF5A - 4 / 2 kW.

3,83 SEPR cooling.
1,92 SEPR freezing.

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

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

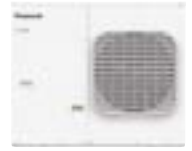
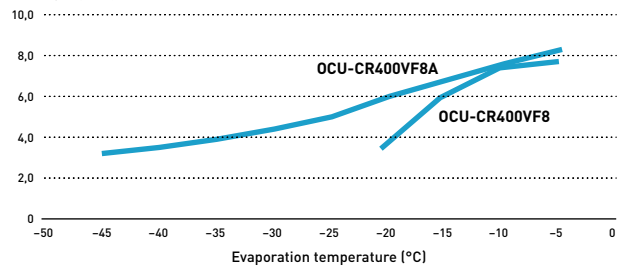


MT type: 400VF8 - 7 kW. MT/LT type: 400VF8A - 8 / 4 kW.

2,45 SEPR cooling.
1,56 SEPR freezing.

* Model 400VF8A.

OCU-CR400VF8(SL) / OCU-CR400VF8A(SL) ²⁾.
Cooling capacity (kW)

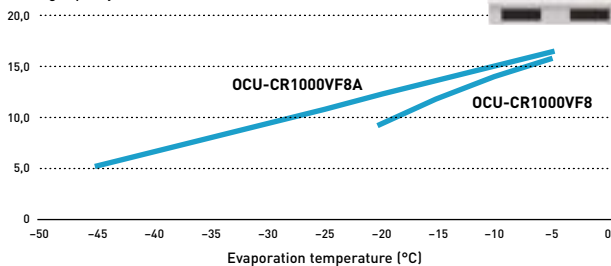


MT type: 1000VF8 - 14 kW. MT/LT type: 1000VF8A - 15 / 8 kW.

2,86 SEPR cooling.
1,49 SEPR freezing.

* Model 1000VF8A.

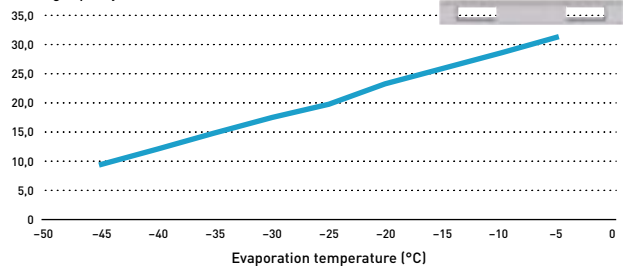
OCU-CR1000VF8(SL) / OCU-CR1000VF8A(SL) ²⁾.
Cooling capacity (kW)



MT/LT type: 2000VF8A - 29 / 15 kW.

3,10 SEPR cooling.
1,64 SEPR freezing.

OCU-CR2000VF8A(SL) ¹⁾.
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.

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*
- High COP at high ambient temperature

* 200VF5A.

2 Heat recovery port ¹⁾ as renewable energy

- Maximum 16,7 kW ²⁾ of heating for free
- Optional possibility to get subsidy (depending on location)
- Easy connection process

1) For models 1000VF8A and 2000VF8A. 2) For model 1000VF8A.

3 Flexible installation

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

* For models 1000VF8A and 2000VF8A.

Technology by Panasonic

Reliability is our main target. We ensure excellent quality control established by skilled factory team.



iCORE OCU-CR CO₂ Series 20 HP MT/LT model.

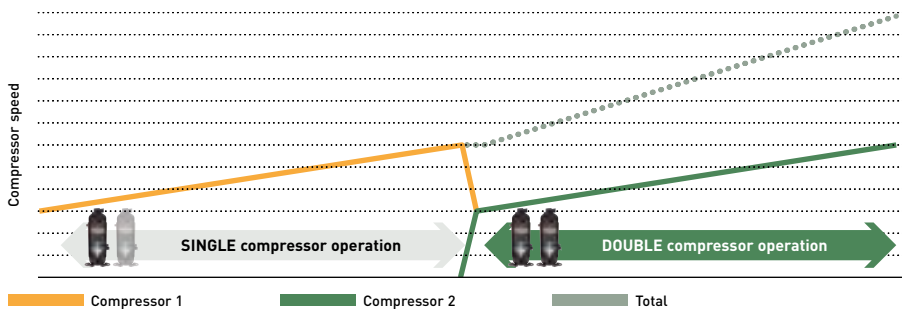
The iCORE OCU-CR CO₂ Series now includes 20 HP MT/LT model, a highly efficient multi compressor solution.

- Multi-compressor systems
- Smaller footprint
- Maximum piping length of 100 m
- Cooling capacity can be controlled from 25 to 100% under partial load
- Flexible and precise control capabilities with digital input/output

Energy efficient multi compressors operation.

By distributing the workload between two compressors, the system operate efficiently, adjusting capacity to match the varying cooling demands. Compressors 1 and 2 alternate every 10 days to ensure even load distribution.

Example of compressor operation.



Reliable CO₂ technology by Panasonic

- Reliable quality: Made in Japan
- 19500 units sold and installed in more than 5200 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 December '23.

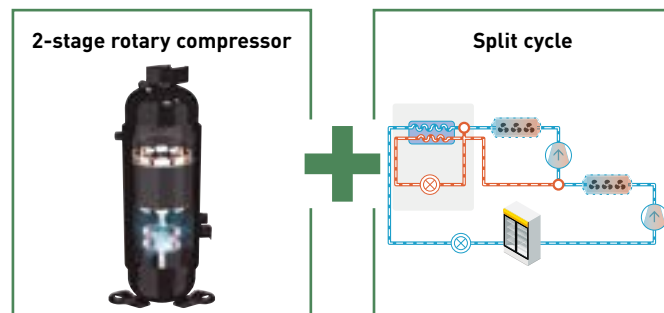
Panasonic's combined technology of the 2-stage compressor with the split cycle.

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

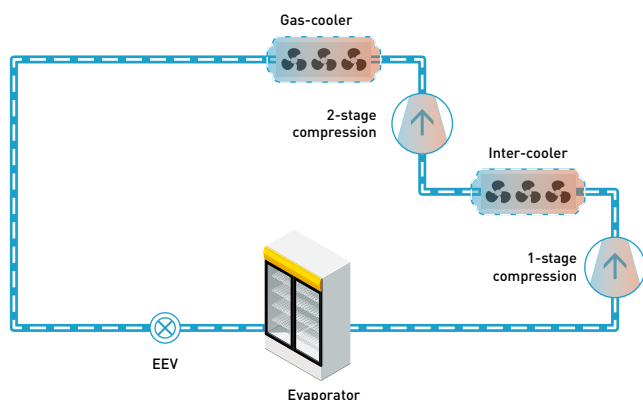
* Available for 200VF5A, 400VF8A, 1000VF8A and 2000VF8A models.

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

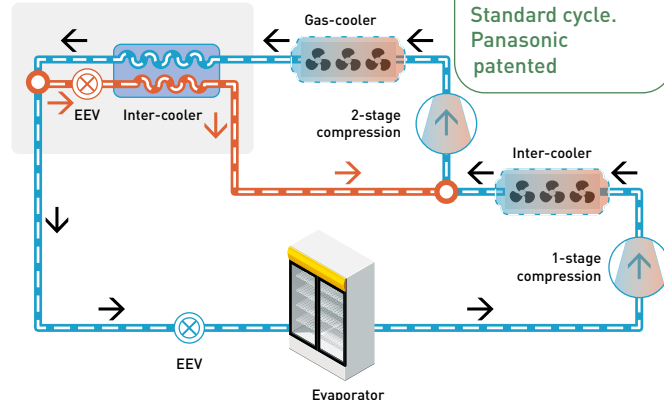
Watch the highlighted technology video.



Standard cycle.



Split cycle.



Heat recovery function for heating

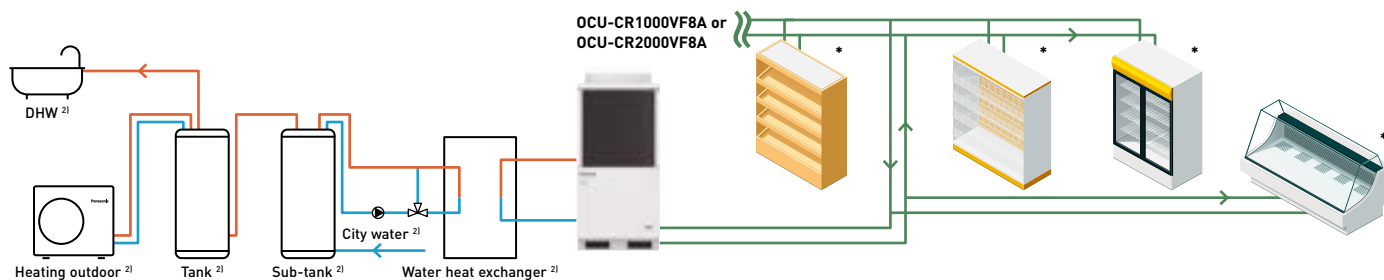
This function offers refrigeration combined with heating all in one system. The ground-breaking solution allows for increased opportunity to cut running costs by utilizing exhausted heat from refrigeration and transferring to the energy source for heating.

16,7 kW¹⁾
of hot water
for free

What is heat recovery function?

Solution example.

Heat recovery system can produce both heating and refrigeration.



1) Tested with OCU-CR1000VF8A. Under the condition: ambient temperature 32 °C, evaporation temperature -10 °C. 100% Partial load. 2) Local supply.

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

Refrigeration designer available in Panasonic PRO Club.

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

- 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



Control and connectivity

Panasonic CO₂ condensing units - iCORE OCU-CR CO₂ Series is optimized with Panel-C intelligent controller and a service checker for professionals. It can be easily integrated with major monitoring systems.



Modbus compatibility with monitoring system

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

Monitoring system



Copeland Controls



Standard boss & boss-mini

AK-SM Series*

TelevisGo

Xweb

DMTOUCH

TeleNET

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

Control panel and electric expansion valves

Panel-C, an intelligent controller with a compact chassis. This controller has the smart program especially for showcases and cold rooms. Electric expansion valves (EEVs) are ready with 8 different sizes to meet precisely the field demand and it's delivered with Panel-C as a kit.

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

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 and 30 (MOP) 140 bar
- Maximum operating pressure difference for 03, 05, 09, 11, 14, 18, (MOPD) 120 bar, 24 (MOPD) 85 bar, and 30 (MOPD) 90 bar
- Bipolar stator hermetic IP69K as standard equipment (supplied on panel)
- Mechanical strainer as standard equipment (500 mm mesh)
- Equipercetile control particularly effective at partial load with reliable operation even after 1,2 billion steps

* Please refer the model references in page 26.



CO₂ service checker

PAW-CO2-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 - iCORE OCU-CR CO₂ Series.

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.

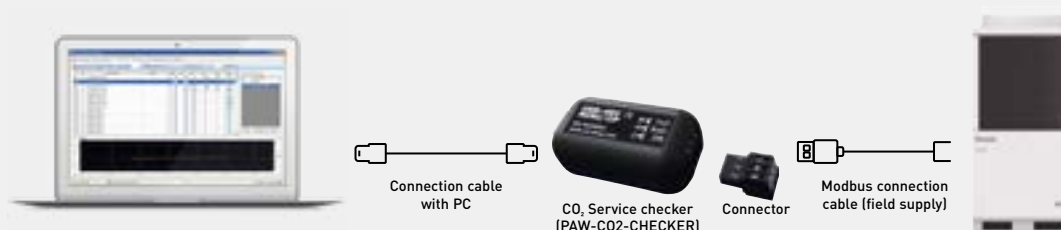
To use it, is necessary to download free Device Manager software from the Eliwell website:

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

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



eliwell
by Schneider Electric



iCORE OCU-CR CO₂ Series · R744
Specifications and capacity tables.



Model	OCU-CR200VF5A		OCU-CR400VF8		OCU-CR400VF8A		OCU-CR1000VF8		OCU-CR1000VF8A		OCU-CR2000VF8A	
Anti corrosion coating model	OCU-CR200VF5ASL		OCU-CR400VF8SL		OCU-CR400VF8ASL		OCU-CR1000VF8SL		OCU-CR1000VF8ASL		OCU-CR2000VF8ASL	
Compressor	Single compressor		Single compressor		Single compressor		Single compressor		Single compressor		Tandem compressor	
Refrigerants	R744		R744		R744		R744		R744		R744	
PED category	I		II		II		II		II		II	
Application and nominal cooling capacity	MT/LT (kW)	MT (4) / LT (2)	MT (7)	MT (8) / LT (4)	MT (14)	MT (15) / LT (8)	MT (29) / LT (15)					
Power supply	Voltage	V	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415				
	Phase		Single phase	Three phase	Three phase	Three phase	Three phase	Three phase				
	Frequency	Hz	50	50	50	50	50	50				
SEPR cooling at ET -10 °C AT 32 °C			3,83	3,17	3,20	2,62	2,86	3,10				
SEPR freezing at ET -35 °C AT 32 °C			1,92	—	1,73	—	1,49	1,64				
Annual electricity consumption at ET -10 °C AT 32 °C		kWh/a	6797	13384	14488	32815	32409	57076				
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a	8021	—	16255	—	39985	66760				
Evaporator connection			Multiple	Multiple	Multiple	Multiple	Multiple	Multiple				
Evaporation temperature		Min ~ Max °C	-45 ~ -5	-20 ~ -5	-45 ~ -5	-20 ~ -5	-45 ~ -5	-45 ~ -5				
Ambient temperature		Min ~ Max °C	-20 ~ +43	-20 ~ +45	-20 ~ +45	-20 ~ +43	-20 ~ +43	-20 ~ +45				
PS line	Suction	bar	120	80	80	80	80	80				
	Liquid	bar	80	80	80	80	80	80				
User system external alarm. Non-voltage contact			Yes	Yes	Yes	Yes	Yes	Yes				
Liquid tube electromagnetic valve output		Vac	220 - 230 - 240	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	Yes				
Modbus communication line (RS485)		Ports	Yes	Yes	Yes	Yes	Yes	Yes				
Compressor type			2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary				
Dimension		W x H x D mm	900 x 930 x 437	1143 x 948 x 609	1143 x 948 x 609	890 x 1941 x 890	890 x 1941 x 890	1190 x 1941 x 890				
Weight		Kg	70	136	149	293	320	494				
Connections ¹⁾	Suction	Inch (mm)	3/8(9,52)	1/2(12,70)	1/2(12,70)	3/4(19,05)	3/4(19,05)	7/8(22,22)				
	Liquid	Inch (mm)	1/4(6,35)	3/8(9,52)	3/8(9,52)	5/8(15,88)	5/8(15,88)	3/4(19,05)				
Maximum recommended pipe distance		m	25	50 ²⁾	50 ²⁾	100 ²⁾	100 ²⁾	100 ²⁾				
Air flow		m ³ /min	54	59	59	220	220	220				
External static pressure		Pa	17	50	50	58	58	58				
Performance - additional data	Ambient temperature	°C	32	32	32	32	32	32				
	Evaporating temperature	°C	-10 -35	-10 -35	-10 -35	-10 -35	-10 -35	-10 -35				
	Nominal load ampere	A	7,94 7,26	6,14	7,2 6,2	12,6	12,6 11,6	24,31 20,49				
	Sound level	dB(A)	35,5 ³⁾ 35,5 ³⁾	33,0 ⁴⁾	36,1 ⁴⁾ 36,1 ⁴⁾	36,0 ³⁾	36,0 ³⁾ 36,0 ³⁾	42,0 ³⁾ 42,0 ³⁾				
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)		—		Yes (included)	
Suction filter, Ø19,05 mm (outer Ø welding)		S-008T1 / S-006T	—		Yes (included)		Yes (included)		Yes (included)		Yes (included)	

1) These diameters correspond to the output of the unit. The required diameter must be calculated with Refrigeration designer available on PRO Club. 2) PZ-68S (refrigeration oil) must be added according to Refrigeration designer available on PRO Club. 3) ET -10 °C, 65 S-1, 10 m from product. 4) ET -10 °C, 80 S-1, 10 m from product.



45 °C AMBIENT TEMPERATURE: For OCU-CR400VF8(SL), OCU-CR400VF8A(SL) and OCU-CR2000VF8A(SL).

MT/LT	Cooling capacity at				R744						
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR200VF5A OCU-CR200VF5ASL	AT	32 °C	Min - Max	kW	0,7 - 1,2	1,1 - 1,9	1,3 - 2,3	1,5 - 2,6	1,9 - 3,3	2,1 - 3,7	2,3 - 4,0
		38 °C	Min - Max	kW	0,6 - 1,1	1,0 - 1,8	1,2 - 2,1	1,4 - 2,5	1,8 - 3,1	2,0 - 3,5	2,2 - 3,8
		43 °C	Min - Max	kW	0,6 - 1,0	0,9 - 1,6	1,1 - 2,0	1,3 - 2,3	1,6 - 2,9	1,8 - 3,2	2,0 - 3,5

MT	Cooling capacity at				R744						
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR400VF8 OCU-CR400VF8SL	AT	32 °C	Min - Max	kW	—	—	—	—	2,9 - 5,9	3,4 - 6,9	3,7 - 7,4
		38 °C	Min - Max	kW	—	—	—	—	2,7 - 5,3	3,1 - 6,2	3,3 - 6,7
		43 °C	Min - Max	kW	—	—	—	—	2,3 - 4,6	2,7 - 5,4	2,9 - 5,8

MT/LT	Cooling capacity at				R744						
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR400VF8A OCU-CR400VF8ASL	AT	32 °C	Min - Max	kW	1,7 - 3,3	1,9 - 3,8	2,2 - 4,4	2,6 - 5,1	3,4 - 6,7	3,8 - 7,5	4,1 - 7,4
		38 °C	Min - Max	kW	1,5 - 3,1	1,7 - 3,5	2,0 - 4,0	2,3 - 4,7	3,1 - 6,2	3,5 - 6,1	3,8 - 5,6
		43 °C	Min - Max	kW	1,4 - 2,7	1,5 - 3,1	1,8 - 3,6	2,1 - 4,2	2,8 - 5,0	3,2 - 4,7	3,4 - 4,2

MT	Cooling capacity at				R744						
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR1000VF8 OCU-CR1000VF8SL	AT	32 °C	Min - Max	kW	—	—	—	—	5,8 - 11,6	6,8 - 13,5	7,4 - 14,8
		38 °C	Min - Max	kW	—	—	—	—	4,9 - 9,9	5,8 - 11,6	6,4 - 12,8
		43 °C	Min - Max	kW	—	—	—	—	3,6 - 7,3	4,4 - 8,8	4,9 - 9,7

MT/LT	Cooling capacity at				R744						
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR1000VF8A OCU-CR1000VF8ASL	AT	32 °C	Min - Max	kW	2,6 - 5,1	3,8 - 7,6	4,5 - 9,1	5,3 - 10,5	6,7 - 13,5	7,5 - 14,9	8,1 - 16,2
		38 °C	Min - Max	kW	2,3 - 4,7	3,5 - 7,1	4,2 - 8,4	4,9 - 9,8	6,3 - 12,7	7,0 - 14,0	7,6 - 15,3
		43 °C	Min - Max	kW	2,0 - 4,0	3,1 - 6,2	3,8 - 7,5	4,4 - 8,8	5,8 - 11,5	6,4 - 12,8	7,0 - 14,0

MT/LT	Cooling capacity at				R744						
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR2000VF8A OCU-CR2000VF8ASL	AT	32 °C	Min - Max	kW	2,6 - 9,7	3,8 - 14,6	4,6 - 17,4	5,3 - 20,2	6,8 - 25,9	7,5 - 28,7	8,2 - 31,3
		38 °C	Min - Max	kW	2,4 - 9,2	3,6 - 13,9	4,3 - 16,4	5,0 - 19,1	6,4 - 24,6	7,1 - 27,1	7,8 - 29,6
		43 °C	Min - Max	kW	2,3 - 8,6	3,4 - 12,9	4,0 - 15,4	4,7 - 18,0	6,1 - 23,1	6,7 - 25,6	7,3 - 27,9

iCORE OCU/SCU-CRC Custom-fit CO₂ Series



Complement of the Panasonic's existing R744 units offering maintenance friendly solutions and customisation features.



MT/LT type:
OCU-CRC060A08

6 kW (MT).
3 kW (LT).



MT/LT type:
OCU-CRC150A08

15 kW (MT).
7 kW (LT).



MT type:
OCU-CRC210M08

21 kW (MT).



MT/LT type:
SCU-CRC150A08

15 kW (MT).
7 kW (LT).



Smart interface
(local wireless access).



Service door + panel with
service valve connections.



Quick-change compressor
skid. Based on plate and
elastic hoses connections,
decreasing the vibrations
and noise.



Front wall integrated
manometers.

Refrigeration factory in Europe.

Wrocław, Poland.

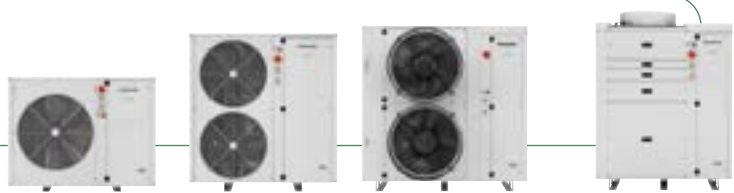
Equipped with a dedicated in-house R&D team focused on advancing refrigeration technologies, the site will also house its training hub and a state-of-the-art refrigeration laboratory, set to open in early 2026. With localised production and a streamlined supply chain, the factory will enable significantly shorter delivery lead times across Europe.



iCORE OCU/SCU-CRC Custom-fit CO₂ Series · R744

Specifications and capacity tables.

New
2025



Model		OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08
Compressor		Single compressor	Single compressor	Single compressor	Single compressor
Refrigerants		R744	R744	R744	R744
PED category		II	II	III	II
Application and nominal cooling capacity	MT/LT (kW)	MT (6) / LT (3)	MT (15) / LT (7)	MT (21)	MT (15) / LT (7)
Power supply	Voltage	V	380 - 420	380 - 420	380 - 420
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
SEPR cooling at ET -10 °C AT 32 °C		2,78	3,07	3,00	3,07
SEPR freezing at ET -35 °C AT 32 °C		—	1,64	—	1,64
Annual electricity consumption at ET -10 °C AT 32 °C		kWh/a	13371	30019	42050
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a	17883	33650	—
Evaporator connection		Multiple	Multiple	Multiple	Multiple
Evaporation temperature	Min ~ Max	°C	-35 ~ -5	-35 ~ 0	-20 ~ -5
	Ambient temperature	Min ~ Max	°C	-20 ~ 43	-20 ~ 43
PS line	Suction	bar	80	80	80
	Liquid	bar	80	80	90
User system external alarm. Non-voltage contact			Yes	Yes	Yes
Liquid tube electromagnetic valve output		Vac	—	—	—
Showcase operation ON / OFF signal. Digital output. Non-voltage contact			Yes	Yes	Yes
Modbus communication line (RS485)		Ports	Accessory	Accessory	Accessory
Compressor type			2- stage rotary	2- stage rotary	2- stage rotary
Dimensions		W x H x D	mm	1426 x 1100 x 541	1426 x 1516 x 541
Weight		kg	200	290	390
Connections	Suction	Inch (mm)	3/8 (9,52)	1/2 (12,70)	5/8 (15,88)
	Liquid	Inch (mm)	3/8 (9,52)	1/2 (12,70)	1/2 (12,70)
Maximum recommended pipe distance		m	40	50	50
Air flow		m ³ /h	1x5700	2x4600	2x7500
External static pressure		Pa	N/A	N/A	N/A
Performance - additional data	Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz	A	9,4	18,3	26,9
	Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A	11,2	23,4	30,1
	Sound level at 10 m	dB(A)	41,5	40,4	52,6



MT/LT	Cooling capacity at				R744					
	ET				-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CRC060A08	AT	32 °C	Min - Max	kW	1,2-3,0	1,4-3,5	1,7-4,0	2,3-5,3	2,7-6,0	3,0-6,7
		38 °C	Min - Max	kW	1,0-2,8	1,2-3,2	1,5-3,8	2,0-4,9	2,3-5,5	2,6-6,0
		43 °C	Min - Max	kW	0,9-2,4	1,1-2,9	1,3-3,4	1,8-4,4	2,0-4,8	2,3-5,3

MT/LT	Cooling capacity at				R744					
	ET				-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CRC150A08	AT	32 °C	Min - Max	kW	3,0-7,3	3,7-8,7	4,3-10,2	5,9-13,5	6,8-15,2	7,7-16,8
		38 °C	Min - Max	kW	2,9-7,0	3,3-8,3	3,9-9,6	5,2-12,6	6,0-14,0	6,8-15,4
		43 °C	Min - Max	kW	---	3,3-7,8	3,8-9,0	4,8-11,5	5,5-12,8	6,2-13,9

MT	Cooling capacity at				R744					
	ET				-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CRC210M08	AT	32 °C	Min - Max	kW	---	---	---	5,1-18,6	6,0-20,6	6,9-22,8
		38 °C	Min - Max	kW	---	---	---	4,7-17,2	5,4-18,6	5,8-19,7
		43 °C	Min - Max	kW	---	---	---	3,2-15,5	3,5-15,9	3,3-15,8

MT/LT	Cooling capacity at				R744					
	ET				-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
SCU-CRC150A08	AT	32 °C	Min - Max	kW	3,0-7,3	3,7-8,7	4,3-10,2	5,9-13,5	6,8-15,2	7,7-16,8
		38 °C	Min - Max	kW	2,9-7,0	3,3-8,3	3,9-9,6	5,2-12,6	6,0-14,0	6,8-15,4
		43 °C	Min - Max	kW	---	3,3-7,8	3,8-9,0	4,8-11,5	5,5-12,8	6,2-13,9

Refrigeration designer.

This simple design tool supports engineers, installers, and technicians to make a quick calculation for commercial refrigeration systems:
<http://www.panasonicproclub.com>



Panasonic
REF
 PRO DESIGNER



High pressure fan ready solution for iCORE SCU-CRC Custom-fit CO₂ Series

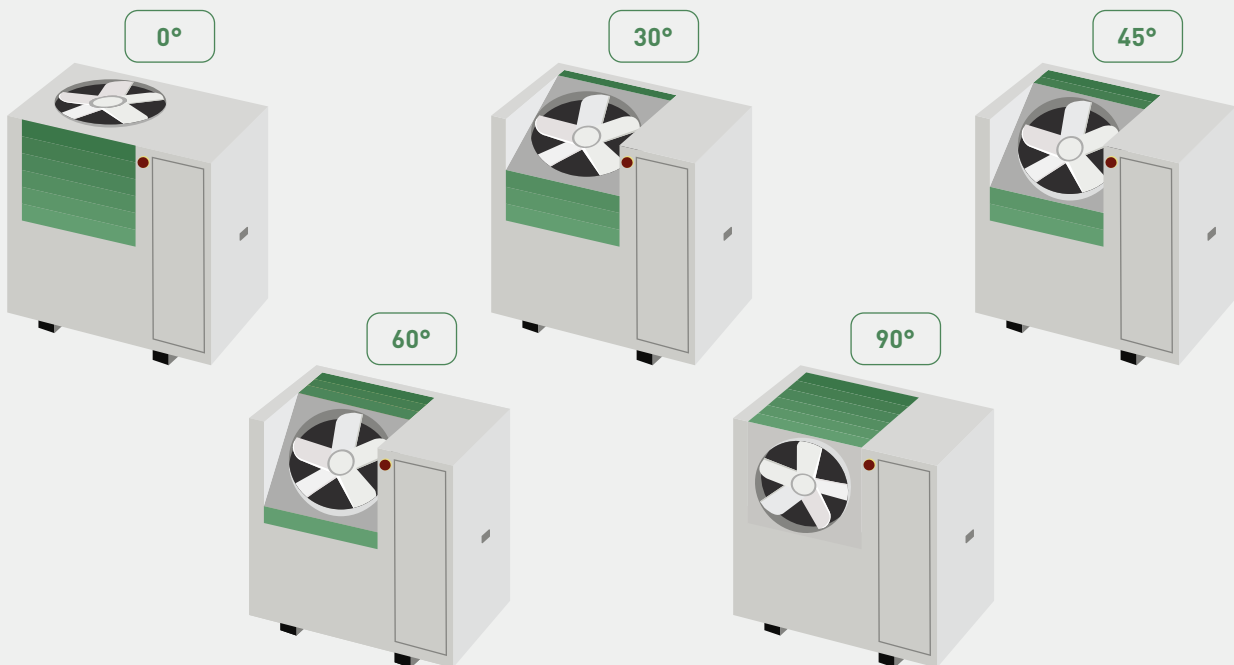
SCU-CRC150A08 model with high pressure fan for indoor mounting.



A Plug & Play solution designed specifically for indoor installations. This compact unit helps minimise installation time and reduce overall costs compared to central systems with remote condensers.

The high pressure fan feature for indoor mounting (factory-assembled customized option: stronger fan + special flange to connect the air duct to take out the hot air outside the building) is available when ordering a basic model, which was designed for indoor mounting from the very beginning.

Special high pressure fan with 0-90° adjustable angle flange.
Choose the most convenient way to connect your exhaust duct on field.



Refrigeration designer.

This simple design tool supports engineers, installers, and technicians to make a quick calculation for commercial refrigeration systems:
<http://www.panasonicproclub.com>



Panasonic
REF
PRO DESIGNER



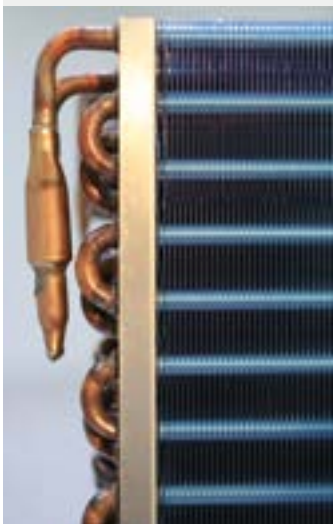
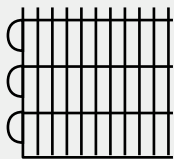
Customization options for iCORE OCU/SCU-CRC Custom-fit CO₂ Series

The series offers customisable models that meet customer requirements.



- Factory pre-assembled options (customization options), tested and ready-to-use options list – cutting installation time and reducing labour costs
- Up to 3 customization options selectable*
- The final model name is composed with the customization selections

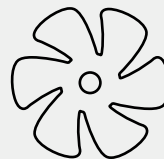
* Available configurations vary by series.



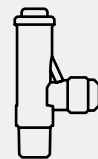
Coating.



Heat recovery.



High pressure fan.



Pressure relief valve (PRV) suction.

Base model code	Customization options (maximum 3 per single model)				Example final code with customization
	Coating	Heat recovery	High pressure fan	PRV suction	
	C	D	P	S	
OCU-CRC060A08	✓	—	✓	—	OCU-CRC060A08-CP
OCU-CRC150A08	✓	✓	—	✓	OCU-CRC150A08-CDS

Accessories and control – iCORE

Control panels and electric expansion valves for OCU-CR and OCU-CRC units



Control panel (Panel-C) with electric expansion valves (EEV) included.

Panel-C includes MPXPRO control, stator, probes, etc.

EEV size E2V03CWAC0.	EEV size E2V05CWAC0.	EEV size E2V09CWAC0.	EEV size E2V11CWAC0.	EEV size E2V14CWAC0.	EEV size E2V18CWAC0.	EEV size E2V24CWAC0.	EEV size E3V30CWM00.
----- KIT-CO2-PANEL-C-03	----- KIT-CO2-PANEL-C-05	----- KIT-CO2-PANEL-C-09	----- KIT-CO2-PANEL-C-11	----- KIT-CO2-PANEL-C-14	----- KIT-CO2-PANEL-C-18	----- KIT-CO2-PANEL-C-24	----- KIT-CO2-PANEL-C-30

Cold room management via condensing unit interface - Options 1-2-3 + Cold room display. Available for OCU-CRC units

Option 1



Room board for EEV control connection box*.

* Room board for 1×EEV control allows to connect Carel, Danfoss and Saginomiya EEV.

CZ-CO2-EEV-BOX

Option 2



Room board for EEV control connection kit*.

* Room board for 1×EEV control allows to connect Carel, Danfoss and Saginomiya EEV. KIT includes sensors.

CZ-CO2-EEV-KIT

Option 3



Room board for EEV control connection kit, with sensors and EEV.

EEV size E2V03CWAC0.	EEV size E2V05CWAC0.	EEV size E2V09CWAC0.	EEV size E2V11CWAC0.	EEV size E2V14CWAC0.	EEV size E2V18CWAC0.	EEV size E2V24CWAC0.	EEV size E2V30CWAC0.
----- CZ-CO2-EEV-KIT-03	----- CZ-CO2-EEV-KIT-05	----- CZ-CO2-EEV-KIT-09	----- CZ-CO2-EEV-KIT-11	----- CZ-CO2-EEV-KIT-14	----- CZ-CO2-EEV-KIT-18	----- CZ-CO2-EEV-KIT-24	----- CZ-CO2-EEV-KIT-30

Cold room display



Wall-mounted LED display. To be combined with options 1-2-3.

CZ-CO2-DISPLAY

CO₂ service checker. Available for OCU-CR units



CO₂ service checker for commissioning, maintenance and troubleshooting.

PAW-CO2-CHECKER

External CO₂ receivers. Available for OCU-CRC units



External CO₂ receiver, 24 L 80 bar, Housed (up to 8 kg additional refrigerant volume). Delivered with proper insulation.

CZ-CO2-R24L80-H



External CO₂ receiver, 24 L 80 bar, non-housed (up to 8 kg additional refrigerant volume). Delivered with proper insulation.

CZ-CO2-R24L80-E



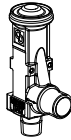
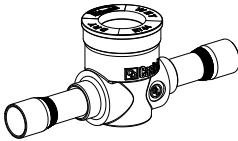
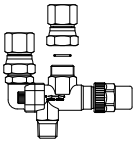
External CO₂ receiver, 24 L 90 bar, Housed (up to 8 kg additional refrigerant volume). Delivered with proper insulation.

CZ-CO2-R24L90-H




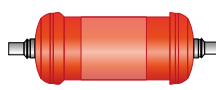
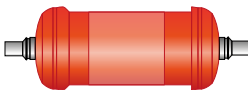
External CO₂ receiver, 24 L 90 bar, non-housed (up to 8 kg additional refrigerant volume). Delivered with proper insulation.

CZ-CO2-R24L90-E

Accessories (model-specific compatibility - see individual descriptions)

 <p>Service adaptor for vacuum and service (HP and LP port). Available for OCU-CR units*.</p> <p>* 2 pcs. are recommended for OCU-CR2000VF8A.</p> <p>----- SPK-TU125</p>	 <p>Lubrication oil PZ-68S (0,5L) for OCU-CR and OCU-CRC units*.</p> <p>* You can find the PZ-68S oil "Safety Sheet" in the SAFETY section of our pipe selection software, available on our PRO Club platform.</p> <p>----- CZ-C02LBR0L500</p>	 <p>Pressure release valve (PRV) 3/8" (9,52) NPT x G 1/2" (12,70) Pset= 60,0 bar (PRV for suction line all units*)</p> <p>* For OCU-CRC units a suction PRV is available also as customization option.</p> <p>----- PAW-C02-PRV60</p>	<p>Pressure release valve (PRV) 3/8" (9,52) NPT x G 1/2" (12,70) Pset= 80,0 bar (PRV for suction line all units* or PRV for liquid receiver for OCU-CR400VF8(A), OCU-CR1000VF8(A) and OCU-CR2000VF8A).</p> <p>* For OCU-CRC units a suction PRV is available also as customization option.</p> <p>----- PAW-C02-PRV80</p>	<p>Pressure release valve (PRV) 3/8" (9,52) NPT x G 1/2" (12,70) Pset= 120,0 bar (PRV for liquid receiver, for OCU-CR200VF5A).</p> <p>----- PAW-C02-PRV120</p>	
<p>Sight glass, 130 bar, 1/4" (6,35) ODS. For OCU-CR and OCU-CRC units.</p> <p>----- PAW-SGT-GLASS-1/4</p>	<p>Sight glass, 130 bar, 3/8" (9,52) ODS. For OCU-CR and OCU-CRC units.</p> <p>----- PAW-SGT-GLASS-3/8</p>	 <p>Sight glass, 130 bar, 1/2" (12,70) ODS. For OCU-CR and OCU-CRC units.</p> <p>----- PAW-SGT-GLASS-1/2</p>	<p>Sight glass, 130 bar, 5/8" (15,88) - 16 mm ODS. For OCU-CR and OCU-CRC units.</p> <p>----- PAW-SGT-GLASS-5/8</p>	<p>Sight glass, 130 bar, 3/4" (19,05) ODS. For OCU-CR and OCU-CRC units.</p> <p>----- PAW-SGT-GLASS-3/4</p>	 <p>Changeover valve, 3/8" (9,52) NPT x 3/8" (9,52) NPT. For OCU-CR and OCU-CRC units.</p> <p>----- PAW-C02-CHANGE-0</p>
<p>Racord 3/8" (9,52) NPT x 3/8" (9,52) ODS (for K65 pipe connection). For OCU-CR and OCU-CRC units.</p> <p>----- PAW-C02-RACORD-3/8</p>	<p>Racord 3/8" (9,52) NPT x 1/2" (12,70) ODS (for K65 pipe connection). For OCU-CR and OCU-CRC units.</p> <p>----- PAW-C02-RACORD-1/2</p>	<p>Racord 3/8" (9,52) NPT x 5/8" (15,88) ODS (for K65 pipe connection). For OCU-CR and OCU-CRC units.</p> <p>----- PAW-C02-RACORD-5/8</p>	<p>Racord, 3/8" (9,52) NPT x 3/4" (19,05) ODS (for K65 pipe connection). For OCU-CR and OCU-CRC units.</p> <p>----- PAW-C02-RACORD-3/4</p>		

Spare parts for service and maintenance (model-specific compatibility - see individual descriptions)

 <p>S-006T suction filter, 3/4" (19,05) (outer Ø welding) for OCU-CR400VF8(A) and OCU-CRC060A08*.</p> <p>* Sample image – actual product appearance may vary.</p> <p>----- 80203514142000</p>	 <p>S-008T1 suction filter, 3/4" (19,05) (outer Ø welding) for OCU-CR1000VF8(A), OCU-CR2000VF8A, OCU-CRC150A08 and SCU-CRC150A08.</p> <p>----- 80203514139000 (1)</p>	 <p>D-155T filter dryer, 5/8" (15,88) (in Ø welding) (type CO-085-S) for OCU-CR1000VF8(A) and OCU-CR2000VF8A.</p> <p>----- 80203513180000 (2)</p>	
 <p>DCY-P8 165 S filter dryer, 5/8" (16,10) (in Ø welding) for OCU-CR1000VF8(A) and OCU-CR2000VF8A.</p> <p>----- 80203513187000 (3)</p>	 <p>D-152T filter dryer, 1/4" (6,35) (in Ø welding) (type CO-082-S) for OCU-CR200VF5A and OCU-CR400VF8(A).</p> <p>----- 80203513179000 (4)</p>	 <p>DCY-P8 093S filter dryer, 3/8" (9,60) (in Ø welding) for OCU-CR400VF8(A).</p> <p>----- 80203513190000</p>	 <p>DCY-P12 092 S filter dryer, 1/4" (6,40) (in Ø welding) for OCU-CR200VF5A.</p> <p>----- 80203513186000 (5)</p>

Compatibility relationship: (2) and (3) are compatible; (4) and (5) are compatible; (2) and (4) until end of stock.

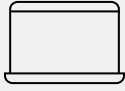
iCOOL range – Inverter solutions for today and tomorrow

iCOOL

Panasonic's iCOOL range is built on flexibility and performance. iCOOL range units operate with HFO and HFC refrigerants – including next-generation A2L options with low Global Warming Potential (GWP) – providing a reliable bridge between today's needs and tomorrow's environmental goals.



Designed for high energy efficiency, each unit helps reduce operational costs and environmental impact while ensuring reliable, high-performance operation. iCOOL range is the smart choice for a market in transition – delivering future-ready innovation without compromising the needs of today.



Easy online selection.



Easy installation.



Easy commissioning.



Easy maintenance.



Low noise.



Ambient temperature up to 43 °C.

1 Easy Selection

- Online selection software
- Support to select the best HFC or A2L solution for any application

4 Easy commissioning

- Less than 3 minutes
- Local language assistance
- 100% functionally tested

2 Easy installation

- Lightweight units
- Integrated options from factory
- Refrigeration design
- Flexible and fast delivery

5 Advanced control

- Simple user interface
- Smooth start and stop function
- Working envelope control
- Oil return function

3 Easy maintenance

- 180° access to all components
- ModBus ready

iCOOL is the modular solution of Inverter condensing unit that saves you time during installation and commissioning, as the unit is factory customized to your needs.

Thanks to its large modulation capacity and its multi-refrigerant compliance, it can be used for any commercial refrigeration application providing service down to a minimum of 500 W for a single evaporator. With a very simple user interface, low energy consumption, fast commissioning and easy maintenance, iCOOL is the perfect solution for convenience stores, restaurant cold rooms, fuel stations, food stores, milk cooling and ice making equipment.



iCOOL SE Series

Inverter technology at the cost of ON / OFF.



iCOOL SE Series - Simple Engineering solution.

From 2,5 to 10,0 kW MT and from 1,2 to 3,0 kW LT.

Easy to install, with a simplified commissioning process. Inverter technology has never been this easy.

Save time and operation cost with our energy-efficient units based on Inverter compressors.

- Similar investment cost and significant energy savings vs. ON / OFF technology
- Full BLDC Inverter technology
- Dedicated PLC controller
- Low noise operation
- Suitable for multi-evaporator applications (MT models)
- Designed and manufactured in Europe



Upgrade* of the existing range of iCOOL SE Series units to meet the A2L requirements. Inverter technology at the cost of ON / OFF. Simple engineering solution.

- **Multi-refrigerant compatibility (install today with HFC, retrofit to A2L after the new F-gas ban dates)**
- **A2L safety components (additional compressor's compartment ventilation fan + differential air-pressure switch + isolated e-box)**

A2L refrigerants are a class of low Global Warming Potential (GWP) gases that serve as alternatives to traditional HFCs, offering mild flammability and low toxicity.

* Currently under development.

A2L is lower flammability and lower toxicity



iCOOL SE Series · R448A / R449A / R134a / R513A / R454C / R455A

Specifications and capacity tables.

New
2025

Model		OCU-KRE025M05	OCU-KRE045M05	OCU-KRE070M05	OCU-LRC100M08		
Compressor		Single compressor	Single compressor	Single compressor	Single compressor		
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A, R454C, R455A		
PED category		I	I	I	III		
Application and nominal cooling capacity	MT/LT (kW)	MT (2,5)	MT (4,5)	MT (6,5)	MT (10,0)		
SEPR cooling at ET -10 °C AT 32 °C (R448A-OCU-K, R455A-OCU-L)		—	—	3,80	3,44		
SEPR freezing at ET -35 °C AT 32 °C (R448A)		—	—	—	—		
Annual electricity consumption at ET -10 °C AT 32 °C (R448A-OCU-K, R455A-OCU-L)	kWh/a	—	—	10749	16470		
Annual electricity consumption at ET -35 °C AT 32 °C (R448A)	kWh/a	—	—	—	—		
COP at ET -10°C, AT 32 °C (R448A)		1,88	1,89	—	—		
COP at ET -35°C, AT 32 °C (R448A)		—	—	—	—		
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz	A	6,7	11,9	14,7	8,7		
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A	7,9	13,5	17,4	11,7		
Maximum power consumption	kW	1,6	2,8	3,6	5,2		
Dimensions	W x H x D	mm	1000 x 605 x 450	1000 x 605 x 450	1100 x 805 x 450	1286 x 858 x 471	
Weight		kg	70	70	80	170	
Sound level at 10 m		dB(A)	42,5	42,5	42,5	39,0	
Condenser	Fans x diameter	mm	1x450	1x450	1x500	1x710	
	Air flow	m ³ /h	3600	3600	5200	6700	
	Fan power supply	V / ph / Hz	220 - 240/1/50	220 - 240/1/50	220 - 240/1/50	220 - 277/1/50	
	Fan power consumption	W	170	170	230	280	
	Nominal fan amperage	A	1,4	1,4	2,1	1,2	
	Model		C-6RVN63LOB	C-7RVN113LOB	C-7RVN153LOB	C-8RZ420L4AAL	
Compressor	Volumetric flow	m ³ /h	0,6 - 4,1	1,25 - 7,5	1,7 - 10,4	2,3 - 15,1	
	Rotation range	rps	30 - 90	30 - 90	30 - 90	20 - 90	
	Current	Full load amperage	A	4	7,6	9,4	7,6
		Peak current limit / Locked rotor amperage	A	15/—	25/—	25/—	25/—
	Oil type		FV68S	FV68S	FV68S	FV68S (PVE)	
	Oil compressor charge	dm ³	0,6	0,7	0,7	1,35 + 0,6	
	Crankcase heater power consumption	W	35	35	35	35	
Connections	Suction	Inch	1/2	5/8	3/4	7/8	
	Liquid		3/8	3/8	3/8	1/2	
Liquid receiver		dm ³	3,9	3,9	5,3	10,0	
CU power supply	Voltage	V / ph / Hz	220 - 240/1/50	220 - 240/1/50	220 - 240/1/50	3x400/50 PE+N (TN-S)	
	Recommended minimum cable cross-section	mm ²	3x2,5	3x2,5	3x2,5	5x4,0	
	Recommended minimum protection		C16	C20	C20	C25	
Maximum recommended pipe distance		m	30	30	30	40	
Maximum height distance	Evaporator above	m	7	7	7	12	
	Evaporator below	m	7	7	7	12	
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	Suction	
Recommended insulation thickness		mm	13	13	13	13	
Maximum quantity of evaporators connected		Qty.	3	3	3	7	
Evaporation temperature	Min ~ Max	°C	-15 ~ 0	-15 ~ 0	-15 ~ 0	-15 ~ 5	
Ambient temperature	Min ~ Max	°C	-20 ~ -43	-20 ~ -43	-20 ~ -43	-20 ~ -43	



iCOOL SE Series - R448A / R449A
Specifications and capacity tables.



Model		OCU-KRE012L05	OCU-KRE022L05	OCU-KRE030L05	
Compressor		Single compressor	Single compressor	Single compressor	
Compatible refrigerants		R448A, R449A	R448A, R449A	R448A, R449A	
PED category		I	I	I	
Application and nominal cooling capacity	MT/LT (kW)	LT (1,2)	LT (2,2)	LT (2,9)	
SEPR cooling at ET -10 °C AT 32 °C (R448A-OCU-K, R455A-OCU-L)		—	—	—	
SEPR freezing at ET -35 °C AT 32 °C (R448A)		—	—	2,14	
Annual electricity consumption at ET -10 °C AT 32 °C (R448A-OCU-K, R455A-OCU-L)	kWh/a	—	—	—	
Annual electricity consumption at ET -35 °C AT 32 °C (R448A)	kWh/a	—	—	8475	
COP at ET -10°C, AT 32 °C (R448A)		—	—	—	
COP at ET -35°C, AT 32 °C (R448A)		0,95	0,98	—	
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz	A	5,5	9,5	12,4	
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A	7,2	12,7	17	
Maximum power consumption	kW	1,4	2,6	3,6	
Dimensions	W x H x D	mm	1000 x 605 x 450	1000 x 605 x 450	
Weight		kg	70	80	
Sound level at 10 m		dB(A)	42,5	42,5	
Condenser	Fans x diameter	mm	1x450	1x450	
	Air flow	m ³ /h	3600	3600	
	Fan power supply	V / ph / Hz	220 - 240/1/50	220 - 240/1/50	
	Fan power consumption	W	170	170	
	Nominal fan amperage	A	1,4	1,4	
Compressor	Model		C-6RVN63L0B	C-7RVN113L0B	
	Volumetric flow	m ³ /h	0,6 - 4,1	1,25 - 7,5	
	Rotation range	rps	30 - 90	30 - 90	
	Current	Full load amperage	A	3,6	7,1
		Peak current limit / Locked rotor amperage	A	15/—	25/—
	Oil type		FV68S	FV68S	
	Oil compressor charge	dm ³	0,6	0,7	
Crankcase heater power consumption	W	35	35		
Connections	Suction	Inch	1/2	5/8	
	Liquid		3/8	3/8	
Liquid receiver		dm ³	3,9	3,9	
CU power supply	Voltage	V / ph / Hz	220 - 240/1/50	220 - 240/1/50	
	Recommended minimum cable cross-section	mm ²	3x2,5	3x2,5	
	Recommended minimum protection		C16	C20	
Maximum recommended pipe distance		m	20	20	
Maximum height distance	Evaporator above	m	7	7	
	Evaporator below	m	7	7	
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	
Recommended insulation thickness		mm	19	19	
Maximum quantity of evaporators connected		Qty.	3	3	
Evaporation temperature	Min - Max	°C	-35 - -15	-35 - -15	
Ambient temperature	Min - Max	°C	-20 - 43	-20 - 43	

Accessories for iCOOL SE Series.

Compressor oil FV68S 2,0 L.
CZ-HFC-FV68SL20



Compressor oil FV32S 2,0 L.
CZ-HFC-FV32SL20



Compressor oil FV68S 500 ml.
CZ-HFC-FV68SL05

Compressor oil FV32S 500 ml.
CZ-HFC-FV32SL05



MT	Cooling capacity at				R449A*/R448A*			R134a*/R513A*		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KRE025M05	AT	32 °C	Min - Max	kW	0,7-2,1	0,8-2,6	1,0-3,0	0,4-1,2	0,5-1,5	0,6-1,8
		38 °C	Min - Max	kW	0,6-2,0	0,8-2,4	0,9-2,7	0,3-1,1	0,4-1,3	0,5-1,7
		43 °C	Min - Max	kW	0,6-1,8	0,7-2,0	0,8-2,2	0,3-1,0	0,4-1,2	0,5-1,5

MT	Cooling capacity at				R449A*/R448A*			R134a*/R513A*		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KRE045M05	AT	32 °C	Min - Max	kW	1,3-3,9	1,6-4,6	1,9-5,4	0,7-2,2	0,9-2,7	1,1-3,4
		38 °C	Min - Max	kW	1,2-3,7	1,5-4,1	1,8-4,6	0,6-2,0	0,8-2,5	1,0-3,1
		43 °C	Min - Max	kW	1,2-3,0	1,4-3,1	1,7-3,4	0,6-1,8	0,7-2,3	0,9-2,8

MT	Cooling capacity at				R449A*/R448A*			R134a*/R513A*		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-KRE070M05	AT	32 °C	Min - Max	kW	1,9-5,5	2,3-6,6	2,8-7,6	0,9-3,1	1,2-3,9	1,5-4,8
		38 °C	Min - Max	kW	1,8-5,0	2,2-6,0	2,6-6,8	0,9-2,8	1,1-3,5	1,4-4,4
		43 °C	Min - Max	kW	1,7-4,6	2,0-5,3	2,4-5,9	0,8-2,6	1,0-3,3	1,3-4,0

MT	Cooling capacity at				R449A*/R448A*			R134a*/R513A*			R455A/R454C*		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
OCU-LRC100M08	AT	32 °C	Min - Max	kW	1,9-8,0	2,3-9,5	2,7-11,2	0,8-4,0	1,0-5,3	1,4-6,7	1,9-8,4	2,3-9,8	2,7-11,2
		38 °C	Min - Max	kW	1,8-7,3	2,1-8,8	2,5-10,4	0,8-3,9	1,0-4,9	1,3-6,1	1,8-7,8	2,1-9,1	2,5-10,4
		43 °C	Min - Max	kW	1,6-6,8	2,0-8,2	2,4-9,6	0,8-3,6	1,0-4,5	1,3-5,5	1,6-7,3	2,0-8,5	2,4-9,8

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRE012L05	AT	32 °C	Min - Max	kW	0,3-1,0	0,4-1,2	0,5-1,5
		38 °C	Min - Max	kW	0,3-0,9	0,3-1,1	0,4-1,4
		43 °C	Min - Max	kW	0,2-0,8	0,3-1,0	0,4-1,3

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRE022L05	AT	32 °C	Min - Max	kW	0,6-1,8	0,7-2,2	0,9-2,8
		38 °C	Min - Max	kW	0,5-1,6	0,7-2,0	0,8-2,5
		43 °C	Min - Max	kW	0,5-1,5	0,6-1,9	0,8-2,3

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRE030L05	AT	32 °C	Min - Max	kW	0,8-2,4	1,0-2,9	1,3-3,6
		38 °C	Min - Max	kW	0,7-2,2	0,9-2,7	1,2-3,3
		43 °C	Min - Max	kW	0,7-2,0	0,9-2,4	1,1-3,0

* Data for R449A/R448A, R134a/R513A and R454C regarding the OCU-LRC100M08 are tentative. For more detailed information, please contact Panasonic.

Refrigeration designer.

This simple design tool supports engineers, installers, and technicians to make a quick calculation for commercial refrigeration systems:
<http://www.panasonicproclub.com>



iCOOL OCU/SCU Series

The possibility to address a larger audience, covering the Condensing Units (CDUs) market that CO₂ is not yet covering today.



MT/LT type: iCOOL OCU/SCU Series.

From 3,5 to 42,0 kW.

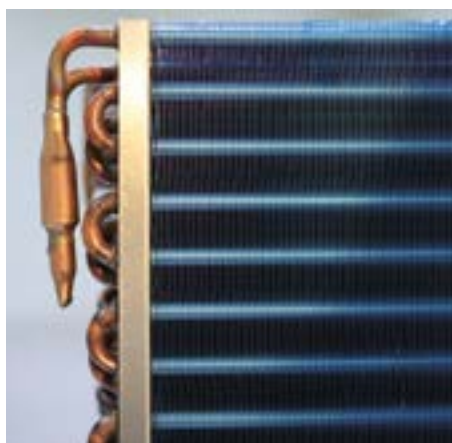
Recognising that HFC/HFO systems still represent the majority of demand in the European refrigeration market, the line-up is designed to support current needs while also enabling a smooth transition for those seeking more environmentally friendly alternatives. The iCOOL range addresses this directly, supporting continued use of HFCs and introducing A2L-ready feature, offering customers a flexible, future-proof solution that bridges today's realities with tomorrow's requirements.



- Complete capacity range of compact CDUs for multi-evaporator applications
- Significant energy savings vs. ON / OFF
- Low noise units with special silent features: Inverter compressor, EC fan and 6-face soundproof insulation of the compressor compartment
- Customisation options – fully tested and factory mounted

Customization options for iCOOL OCU/SCU Series

The range offers customisable models that meet customer requirements.



Coating.



Heat recovery.



High pressure fan.

Base model code	Customization options (maximum 3 per single model)			Example final code with customization
	Coating	Heat recovery	High pressure fan	
	C	D	P	
OCU-KRC045M08	✓	✓	✓	OCU-KRC045M08-CDP
OCU-KRC070M08	✓	✓	✓	OCU-KRC070M08-CDP
OCU-KRC100M08	✓	✓	✓	OCU-KRC100M08-CDP

iCOOL OCU Series · R448A / R449A / R134a / R513A
Specifications and capacity tables.



Model		OCU-KRC045M08	OCU-KRC070M08	OCU-KRC100M08	OCU-KSC120M08	OCU-KSC150M08		
Compressor		Single compressor	Single compressor	Single compressor	Single compressor	Single compressor		
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A		
PED category		I	II	II	II	II		
Application and nominal cooling capacity	MT/LT (kW)	MT (4,5)	MT (7,0)	MT (9,0)	MT (12,0)	MT (15,0)		
SEPR cooling at ET -10 °C AT 32 °C		3,28	3,60	4,29	3,48	3,87		
SEPR freezing at ET -35 °C AT 32 °C		—	—	—	—	—		
Annual electricity consumption at ET -10 °C AT 32 °C	kWh/a	9070	12324	13347	20141	23139		
Annual electricity consumption at ET -35 °C AT 32 °C	kWh/a	—	—	—	—	—		
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz	A	5,0	6,9	7,2	14,8	15,2		
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A	7,2	10,1	9,8	20,5	22,6		
Maximum power consumption	kW	3,7	5,6	5,4	9,3	10,1		
Dimensions	W x H x D	mm	1106 x 559 x 461	1140 x 758 x 439	1280 x 963 x 439	1420 x 963 x 439	1322 x 1493 x 475	
Weight		kg	94	110	140	175	231	
Sound level at 10 m		dB(A)	39,0	40,0	41,0	40,0	44,0	
Condenser	Fans x diameter	mm	1x450	1x630	1x630	1x710	2x630	
	Air flow	m ³ /h	3850	6150	6150	6920	11150	
	Fan static pressure	Pa	N/A	N/A	N/A	N/A	N/A	
	Fan power supply	V / ph / Hz	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50	
	Fan power consumption	W	170	220	220	280	2x230	
	Nominal fan amperage	A	1,4	1,2	1,2	1,2	2x1	
Compressor	Model		C-7RVN113L0A	C-7RZ320L4ABL	C-8RZ420L4AAL	C-SBS180H00B	C-SBVN373L0B	
	Volumetric flow	m ³ /h	1,25 - 7,5	1,7 - 10,4	3,0 - 13,6	5,8 - 19,2	9,2 - 24,6	
	Rotation range	rps	15 - 90	15 - 90	20 - 90	32 - 100	30 - 80	
	Current	Full load amperage	A	5,8	8,7	8,8	15,8	16,9
		Peak current limit / Locked rotor amperage	A	17,8 / —	19,2 / —	31,9 / —	40 / —	46 / —
	Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	
Crankcase heater power consumption	W	35	40	35	70	90		
Oil charge		dm ³	0,7+0,4	0,7+0,4	1,35+0,4	2,0+0,4	2,0+0,6	
Connections	Suction	Inch	5/8	3/4	7/8	7/8	1 1/8	
	Liquid	Inch	3/8	3/8	1/2	1/2	5/8	
Liquid receiver		dm ³	3,9	7,1	10,0	10	15	
CU power supply	Voltage	V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	
	Recommended minimum cable cross-section	mm ²	5x2,5	5x2,5	5x2,5	5x4,0	5x6,0	
	Recommended minimum protection		C16	C16	C20	C25	C32	
Maximum recommended pipe distance		m	40	40	40	40	50	
Maximum height distance	Evaporator above	m	12	12	12	12	12	
	Evaporator below	m	12	12	12	12	12	
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	Suction	Suction	
Recommended insulation thickness		mm	13	13	13	13	13	
Maximum quantity of evaporators connected		Qty.	5	5	7	7	7	
Evaporation temperature	Min - Max	°C	-15 - 5	-15 - 5	-15 - 10	-15 - 10	-15 - 10	
Ambient temperature	Min - Max	°C	-20 - 43	-20 - 43	-20 - 43	-20 - 43	-20 - 43	

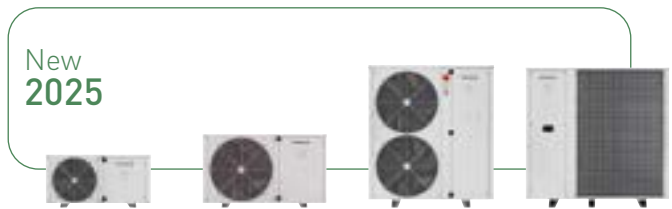


New
2025

Model		OCU-KSC160M08	OCU-KSC190M08	OCU-KSC240M08	OCU-KSC280M08	OCU-KSC400M08	OCU-KSC420M08		
Compressor		Tandem compressor	Tandem compressor	Tandem compressor	Tandem compressor	Tandem compressor	Tandem compressor		
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A		
PED category		II	II	II	II	II	II		
Application and nominal cooling capacity	MT/LT (kW)	MT (16,0)	MT (19,0)	MT (24,0)	MT (28,0)	MT (40,0)	MT (42,0)		
SEPR cooling at ET -10 °C AT 32 °C		3,61	3,39	4,31	4,27	3,61	3,52		
SEPR freezing at ET -35 °C AT 32 °C		—	—	—	—	—	—		
Annual electricity consumption at ET -10 °C AT 32 °C	kWh/a	27903	33985	34316	39329	67049	73046		
Annual electricity consumption at ET -35 °C AT 32 °C	kWh/a	—	—	—	—	—	—		
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230-400 V 50 Hz	A	21,3	26,3	25,9	30,5	40,0	43,9		
Maximum operating current (in the most loaded phase at 230-400 V 50 Hz)	A	27,9	32,3	34,8	40,4	53,8	57,3		
Maximum power consumption	kW	14	17,1	17,4	20,9	28,5	31,4		
Dimensions	W x H x D	mm	1521 x 1493 x 475	1521 x 1493 x 475	1528 x 1488 x 879	1528 x 1488 x 879	1670 x 1695 x 1090	1670 x 1695 x 1090	
Weight		kg	283	285	397	426	520	520	
Sound level at 10 m		dB(A)	44,0	44,0	44,0	44,0	43,0	43,0	
Condenser	Fans x diameter	mm	2x630	2x630	2x630	2x630	1x800	1x800	
	Air flow	m ³ /h	11150	11150	12600	12600	21000	21000	
	Fan static pressure	Pa	N/A	N/A	N/A	N/A	160	160	
	Fan power supply	V / ph / Hz	200-277/1/50	200-277/1/50	200-240/1/50	200-277/1/50	380-400/3/50	380-400/3/50	
	Fan power consumption	W	2x230	2x230	2x230	2x230	1950	1950	
	Nominal fan amperage	A	2x1	2x1	2x1	2x1	2,8	2,8	
Compressor	Model		C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G	C-SBVN373L0B/ C-SBN453H8G	C-SBVN373L0B/ C-SCN603H8T	4CC149NA04/ C-SCN753H8T	4CC149NA04/ C-SCN903H8T	
	Volumetric flow	m ³ /h	5,8-17,4/11,6	5,8-17,4/14,7	7,7-24,6/14,7	7,7-24,6/23,6	10,7-39,3/30,3	10,7-39,3/36,2	
	Rotation range	rps	32-90	32-90	31-80	31-80	21-75	21-75	
	Full load amperage	A	14,7/8,0	15,2/11,9	17,2/11,9	18,4/16,0	26,0/19,4	25,8/23,2	
	Current	Peak current limit / Locked rotor amperage	A	34/48	34/66	46/66	46/80	52/96	52/96
	Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	
	Crankcase heater power consumption	W	2x70	2x70	40	2x90	2x90	2x90	
Oil charge	dm ³	2,0+1,7+2x0,4	2,0+1,7+2x0,4	2,0+1,7+2x0,6	2,0+2,8+2x0,6	2x2,8+2,0	2x2,8+2,0		
Connections	Suction	Inch	1 1/8	1 1/8	1 3/8	1 3/8	1 5/8	1 5/8	
	Liquid	Inch	5/8	5/8	7/8	7/8	7/8	7/8	
Liquid receiver	dm ³	15	15	15	15	30	30		
CU power supply	Voltage	V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	
	Recommended minimum cable cross-section	mm ²	5x6,0	5x10,0	5x10,0	5x10,0	5x16,0	5x16,0	
	Recommended minimum protection		C32	C40	C40	C50	C63	C63	
Maximum recommended pipe distance	m	50	50	70	70	70	70		
Maximum height distance	Evaporator above	m	12	12	12	12	12	12	
	Evaporator below	m	12	12	12	12	12	12	
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	Suction	Suction	Suction	
Recommended insulation thickness	mm	13	13	13	13	13	13		
Maximum quantity of evaporators connected	Qty.	10	10	10	10	20	20		
Evaporation temperature	Min ~ Max	°C	-15 ~ 10	-15 ~ 10	-15 ~ 10	-15 ~ 10	-15 ~ 10	-15 ~ 10	
Ambient temperature	Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	



iCOOL OCU Series · R448A / R449A
Specifications and capacity tables.



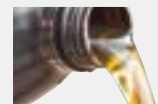
Model		OCU-KRC035L08	OCU-KRC050L08	OCU-KSC090L08	OCU-KSC140L08		
Compressor		Single compressor	Single compressor	Single compressor	Tandem compressor		
Compatible refrigerants		R448A, R449A	R448A, R449A	R448A, R449A	R448A, R449A		
PED category		I	II	II	II		
Application and nominal cooling capacity	MT/LT (kW)	LT [3,5]	LT [5,0]	LT [9,0]	LT [14,0]		
SEPR cooling at ET -10 °C AT 32 °C		—	—	—	—		
SEPR freezing at ET -35 °C AT 32 °C		1,76	1,83	1,65	—		
Annual electricity consumption at ET -10 °C AT 32 °C	kWh/a	—	—	—	—		
Annual electricity consumption at ET -35 °C AT 32 °C	kWh/a	10630	18315	33998	—		
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz	A	5,9	10,1	20,7	32,9		
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A	7,9	12,8	29,9	43		
Maximum power consumption	kW	4,1	7,2	13,6	21		
Dimensions	W x H x D	mm	1105 x 559 x 466	1289 x 758 x 439	1322 x 1493 x 475	1528 x 1488 x 879	
Weight	kg	96	132	286	460		
Sound level at 10 m	dB(A)	39,0	44,0	44,0	44,0		
Condenser	Fans x diameter	mm	1x450	1x630	2x630	2x630	
	Air flow	m ³ /h	3850	6150	11150	12600	
	Fan static pressure	Pa	N/A	N/A	N/A	N/A	
	Fan power supply	V / ph / Hz	200 - 277 / 1/50	200 - 277 / 1/50	200 - 277 / 1/50	200 - 277 / 1/50	
	Fan power consumption	W	170	220	2x230	2x230	
	Nominal fan amperage	A	1,4	1,2	2x1	2x1	
Compressor	Model		C-7RZ320L4ABL	C-9RZ580L4AAL	ACC144NA03	ACC144NA03/ C-SCN603L8H	
	Volumetric flow	m ³ /h	1,7 - 10,4	5,2 - 18,7	10,0 - 37,6	10 - 37,6/23,8	
	Rotation range	rps	15 - 90	25 - 90	25 - 72	25 - 72	
	Current	Full load amperage	A	6,4	10	22,9	21,6 / 14,8
		Peak current limit / Locked rotor amperage	A	19,2 / —	28,4 / —	46 / —	46 / 90
	Oil type		FV68S (PVE)	FV68S (PVE)	FV32S (PVE)	FV32S (PVE)	
	Crankcase heater power consumption	W	35	35	90	2x90	
Oil charge	dm ³	0,7 + 0,4	2,1 + 0,4	2,5 + 0,4	2x2,5 + 2x0,6		
Connections	Suction	Inch	7/8	7/8	1 1/8	1 3/8	
	Liquid	Inch	3/8	3/8	5/8	7/8	
Liquid receiver	dm ³	3,9	7,1	15	15		
CU power supply	Voltage	V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	
	Recommended minimum cable cross-section	mm ²	5x2,5	5x2,5	5x6,0	5x10,0	
	Recommended minimum protection		C16	C20	C32	C50	
Maximum recommended pipe distance	m	40	40	40	50		
Maximum height distance	Evaporator above	m	12	12	12	12	
	Evaporator below	m	12	12	12	12	
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	Suction	
Recommended insulation thickness	mm	19	19	19	19		
Maximum quantity of evaporators connected	Qty.	5	5	5	7		
Evaporation temperature	Min - Max	°C	-35 ~ -15	-35 ~ -15	-35 ~ -10	-35 ~ -10	
Ambient temperature	Min - Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	

Accessories for iCOOL OCU Series.

Compressor oil FV68S 2,0 l.
 CZ-HFC-FV68SL20



Compressor oil FV32S 2,0 l.
 CZ-HFC-FV32SL20



Compressor oil FV68S 500 ml.
 CZ-HFC-FV68SL05

Compressor oil FV32S 500 ml.
 CZ-HFC-FV32SL05



iCOOL SCU Series · R448A / R449A / R134a / R513A

Specifications and capacity tables.



Model		SCU-KSC160M08	SCU-KSC190M08	SCU-KSC090L08		
Compressor		Tandem compressor	Tandem compressor	Single compressor		
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A		
PED category		II	II	II		
Application and nominal cooling capacity	MT/LT (kW)	MT (16,0)	MT (19,0)	LT (9,0)		
SEPR cooling at ET -10 °C AT 32 °C		3,14	3,19	—		
SEPR freezing at ET -35 °C AT 32 °C		—	—	—		
Annual electricity consumption at ET -10 °C AT 32 °C	kWh/a	31411	35312	—		
Annual electricity consumption at ET -35 °C AT 32 °C	kWh/a	—	—	—		
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz	A	23,6	28,7	23,0		
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A	30,5	34,9	32,5		
Maximum power consumption	kW	14,6	17,7	14,1		
Dimensions	WxHxD	mm	1327x 1558 x 745	1327x 1558 x 745		
Weight		kg	342	344		
Sound level at 10 m		dB(A)	55,0	55,0		
Condenser	Fans x diameter	mm	1x560	1x560		
	Air flow	m³/h	9000	9000		
	Fan static pressure	Pa	120	80		
	Fan power supply	V / ph / Hz	200 - 277/1/50	200 - 277/1/50		
	Fan power consumption	W	1050	1050		
	Nominal fan amperage	A	4,6	4,6		
Compressor	Model		C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G	ACC144NA03	
	Volumetric flow	m³/h	5,8 - 17,4/11,6	5,8 - 17,4/14,7	10,0 - 37,6	
	Rotation range	rps	32 - 90	32 - 90	25 - 72	
	Current	Full load amperage	A	14,7/8,0	15,2/11,9	22,9
		Peak current limit / Locked rotor amperage	A	34/48	34/66	46/—
	Oil type		FV68S (PVE)	FV68S (PVE)	FV32S (PVE)	
Crankcase heater power consumption	W	2x70	2x70	90		
Oil charge		dm³	2,0+1,7+2x0,4	2,0+1,7+2x0,4	2,5+0,4	
	Connections	Suction	Inch	1 1/8	1 1/8	
	Liquid	Inch	5/8	5/8		
Liquid receiver		dm³	15	15		
CU power supply	Voltage	V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	
	Recommended minimum cable cross-section	mm²	5x6,0	5x10,0	5x10,0	
	Recommended minimum protection		C32	C40	C40	
Maximum recommended pipe distance		m	50	50		
Maximum height distance	Evaporator above	m	12	12		
	Evaporator below	m	12	12		
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction		
Recommended insulation thickness		mm	13	13		
Maximum quantity of evaporators connected		Qty.	10	10		
Evaporation temperature	Min ~ Max	°C	-15 ~ 10	-15 ~ 10		
Ambient temperature	Min ~ Max	°C	-20 ~ 43	-20 ~ 43		

Accessories for iCOOL SCU Series.

Compressor oil FV68S 2,0 l.
CZ-HFC-FV68SL20

Compressor oil FV68S 500 ml.
CZ-HFC-FV68SL05



Compressor oil FV32S 2,0 l.
CZ-HFC-FV32SL20

Compressor oil FV32S 500 ml.
CZ-HFC-FV32SL05



iCOOL OCU/SCU Series · R448A / R449A / R134a / R513A

Specifications and capacity tables.

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KRC045M08					
OCU-KRC045M08	AT	32 °C	Min - Max	kW	0,6 - 3,9	0,8 - 4,7	0,9 - 5,7	---	0,5 - 3,4	0,6 - 4,0
		38 °C	Min - Max	kW	0,6 - 3,8	0,8 - 4,6	0,9 - 5,6	---	0,5 - 3,2	0,5 - 3,7
		43 °C	Min - Max	kW	0,6 - 3,8	0,7 - 4,6	0,9 - 5,6	---	0,4 - 2,9	0,5 - 3,4

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KRC070M08					
OCU-KRC070M08	AT	32 °C	Min - Max	kW	1,0 - 6,1	1,2 - 7,2	1,4 - 8,4	---	0,8 - 4,1	1,0 - 4,9
		38 °C	Min - Max	kW	0,9 - 6,0	1,2 - 7,1	1,4 - 8,3	---	0,8 - 3,8	0,9 - 4,5
		43 °C	Min - Max	kW	0,9 - 6,0	1,1 - 7,1	1,4 - 8,3	---	0,7 - 3,5	0,9 - 4,2

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KRC100M08					
OCU-KRC100M08	AT	32 °C	Min - Max	kW	1,8 - 7,9	2,2 - 9,4	2,6 - 11,1	1,1 - 4,8	1,3 - 5,8	1,6 - 7,0
		38 °C	Min - Max	kW	1,7 - 7,2	2,0 - 8,7	2,4 - 10,2	1,0 - 4,4	1,2 - 5,4	1,5 - 6,6
		43 °C	Min - Max	kW	1,5 - 6,7	1,9 - 8,0	2,3 - 9,5	0,9 - 4,1	1,1 - 5,1	1,4 - 6,1

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KSC120M08					
OCU-KSC120M08	AT	32 °C	Min - Max	kW	2,4 - 9,8	3,0 - 11,9	3,7 - 14,3	1,6 - 5,5	2,1 - 6,8	2,6 - 8,3
		38 °C	Min - Max	kW	2,1 - 9,0	2,7 - 10,8	3,4 - 13,1	1,5 - 5,1	1,9 - 6,3	2,4 - 7,8
		43 °C	Min - Max	kW	2,0 - 8,5	2,5 - 10,3	3,1 - 12,5	1,4 - 4,8	1,8 - 6,0	2,2 - 7,3

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KSC150M08					
OCU-KSC150M08	AT	32 °C	Min - Max	kW	3,4 - 12,1	4,2 - 14,7	5,2 - 17,6	2,1 - 8,4	2,5 - 10,0	3,0 - 12,0
		38 °C	Min - Max	kW	3,1 - 10,8	3,8 - 13,0	4,7 - 15,6	1,9 - 7,6	2,3 - 9,1	2,8 - 11,0
		43 °C	Min - Max	kW	2,8 - 9,7	3,5 - 11,8	4,3 - 14,2	1,7 - 7,0	2,1 - 8,5	2,6 - 10,2

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KSC160M08					
OCU-KSC160M08	AT	32 °C	Min - Max	kW	2,3 - 13,2	2,9 - 16,3	3,6 - 19,8	1,7 - 9,0	2,2 - 10,9	2,8 - 13,2
		38 °C	Min - Max	kW	2,0 - 11,8	2,6 - 14,6	3,2 - 17,9	1,6 - 8,3	2,0 - 10,1	2,6 - 12,3
		43 °C	Min - Max	kW	1,9 - 10,7	2,4 - 13,3	3,0 - 16,4	1,5 - 7,8	1,9 - 9,5	2,4 - 11,5

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KSC190M08					
OCU-KSC190M08	AT	32 °C	Min - Max	kW	2,3 - 15,2	2,9 - 18,7	3,6 - 22,7	1,7 - 10,7	2,2 - 13,1	2,8 - 15,6
		38 °C	Min - Max	kW	2,1 - 13,5	2,6 - 16,7	3,2 - 20,5	---	2,0 - 11,9	2,6 - 14,6
		43 °C	Min - Max	kW	---	2,4 - 15,2	3,0 - 18,8	---	1,9 - 11,5	2,4 - 14,5

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KSC240M08					
OCU-KSC240M08	AT	32 °C	Min - Max	kW	3,4 - 19,8	4,3 - 24,2	5,3 - 29,3	2,7 - 14,4	3,2 - 17,2	3,9 - 20,5
		38 °C	Min - Max	kW	3,1 - 17,5	3,9 - 21,5	4,8 - 26,2	2,4 - 13,0	3,0 - 15,7	3,6 - 18,8
		43 °C	Min - Max	kW	2,9 - 15,7	3,5 - 19,5	4,4 - 23,8	2,2 - 12,0	2,7 - 14,5	3,3 - 17,5

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KSC280M08					
OCU-KSC280M08	AT	32 °C	Min - Max	kW	3,3 - 17,5	4,3 - 27,5	5,3 - 32,8	2,7 - 16,4	3,2 - 19,5	3,9 - 23,3
		38 °C	Min - Max	kW	3,1 - 20,6	3,9 - 24,7	4,8 - 29,5	2,4 - 14,9	3,0 - 17,8	3,6 - 21,4
		43 °C	Min - Max	kW	---	3,5 - 22,6	4,4 - 27,0	---	2,7 - 16,5	3,3 - 20,0

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KSC400M08					
OCU-KSC400M08	AT	32 °C	Min - Max	kW	5,0 - 32,9	6,5 - 39,7	8,4 - 48,0	2,8 - 19,6	3,5 - 23,9	4,3 - 29,0
		38 °C	Min - Max	kW	4,8 - 30,1	5,9 - 36,3	7,5 - 43,7	2,5 - 18,0	3,1 - 22,0	3,9 - 26,6
		43 °C	Min - Max	kW	4,4 - 28,0	5,4 - 33,6	6,7 - 40,4	2,2 - 16,8	2,8 - 20,4	3,5 - 24,7

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	32 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
					OCU-KSC420M08					
OCU-KSC420M08	AT	32 °C	Min - Max	kW	5,0 - 35,0	6,5 - 42,2	8,4 - 50,7	2,8 - 20,7	3,5 - 25,3	4,3 - 30,7
		38 °C	Min - Max	kW	4,8 - 32,0	5,9 - 38,5	7,5 - 46,3	2,5 - 19,1	3,1 - 23,2	3,9 - 28,2
		43 °C	Min - Max	kW	4,4 - 30,0	5,4 - 35,7	6,7 - 42,8	2,2 - 17,8	2,8 - 21,6	3,5 - 26,2

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRC035L08	AT	32 °C	Min - Max	kW	0,4 - 2,8	0,5 - 3,5	0,7 - 4,2
		38 °C	Min - Max	kW	0,4 - 2,8	0,5 - 3,4	0,6 - 4,1
		43 °C	Min - Max	kW	0,4 - 2,7	0,5 - 3,3	0,6 - 4,0

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KRC050L08	AT	32 °C	Min - Max	kW	1,2 - 4,4	1,5 - 5,4	1,9 - 6,6
		38 °C	Min - Max	kW	1,1 - 4,0	1,4 - 4,9	1,7 - 6,0
		43 °C	Min - Max	kW	1,0 - 3,6	1,3 - 4,5	1,6 - 5,4

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KSC090L08	AT	32 °C	Min - Max	kW	1,7 - 6,8	2,2 - 8,5	2,8 - 10,6
		38 °C	Min - Max	kW	1,4 - 6,3	1,9 - 7,9	2,5 - 10,0
		43 °C	Min - Max	kW	1,2 - 5,9	1,6 - 7,4	2,2 - 9,3

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
OCU-KSC140L08	AT	32 °C	Min - Max	kW	1,7 - 11,6	2,2 - 14,2	2,8 - 17,5
		38 °C	Min - Max	kW	1,4 - 10,5	1,9 - 13,0	2,5 - 16,1
		43 °C	Min - Max	kW	1,2 - 9,7	1,6 - 12,1	2,2 - 15,0

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
SCU-KSC160M08	AT	32 °C	Min - Max	kW	2,3 - 13,2	2,9 - 16,3	3,6 - 19,8	1,7 - 8,9	2,2 - 10,8	2,8 - 13,1
		38 °C	Min - Max	kW	2,1 - 11,8	2,6 - 14,6	3,2 - 17,9	1,6 - 8,2	2,0 - 10,0	2,6 - 12,2
		43 °C	Min - Max	kW	1,9 - 10,7	2,4 - 13,3	3,0 - 16,4	---	1,9 - 9,4	2,4 - 11,4

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
SCU-KSC190M08	AT	32 °C	Min - Max	kW	2,3 - 15,2	2,9 - 18,7	3,6 - 22,7	1,7 - 10,7	2,2 - 13,1	2,8 - 15,6
		38 °C	Min - Max	kW	2,1 - 13,5	2,6 - 16,7	3,2 - 20,5	---	2,0 - 11,9	2,6 - 14,6
		43 °C	Min - Max	kW	---	2,4 - 15,2	3,0 - 18,8	---	1,9 - 11,5	2,4 - 14,5

LT	Cooling capacity at				R449A/R448A		
	ET				-35 °C	-30 °C	-25 °C
SCU-KSC090L08	AT	32 °C	Min - Max	kW	1,7 - 6,8	2,2 - 8,5	2,8 - 10,6
		38 °C	Min - Max	kW	1,4 - 6,3	1,9 - 7,9	2,5 - 9,9
		43 °C	Min - Max	kW	1,2 - 5,9	1,6 - 7,4	2,2 - 9,3

Refrigeration designer.

This simple design tool supports engineers, installers, and technicians to make a quick calculation for commercial refrigeration systems:
<http://www.panasonicproclub.com>



iCOOL LCU/WCU Series

The variation of iCOOL to meet demanding installation environment requirements.



iCOOL LCU Series MT/LT type.

Remote compressor base.

MT: From 5,1 to 38,0 kW.

LT: From 2,0 to 8,7 kW.



iCOOL WCU Series MT/LT type.

Water/glycol cooled condensing units.

MT: From 5,1 to 38,0 kW.

LT: From 2,0 to 8,7 kW.



A customization option with a soundproof insulated housing is available for both the LCU and WCU Series.



Noise reduction
(indoor installation).



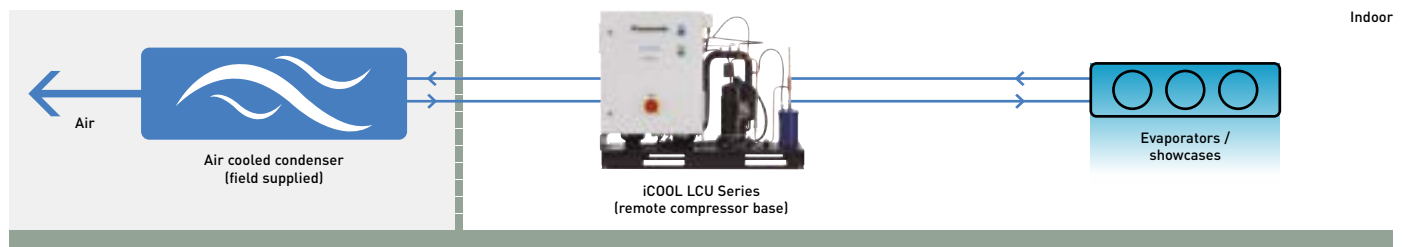
No space pollution
(city-centres focus).



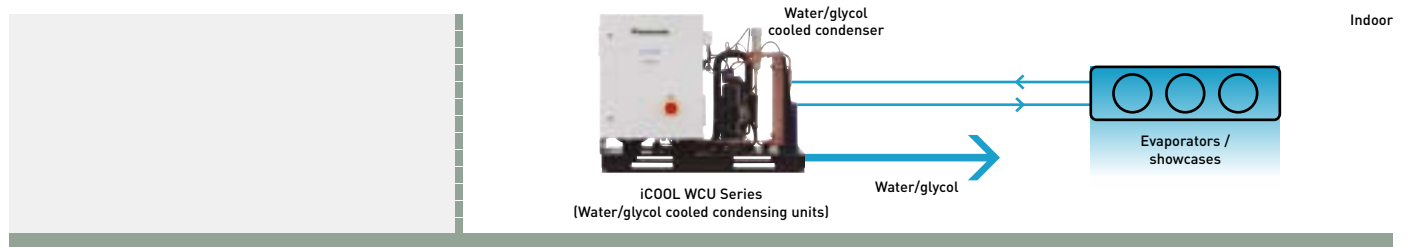
Available with water cooled condenser
option, for shorter installations and
heat reclaim benefits.

Example installation type:

Inverter units dedicated for indoor mounting.



or



High performance Inverter compressor base or compressor set for large, medium, and small commercial installations. Designed for mid-high or low temperature applications. Equipped with hermetic scroll or rotary compressor. Perfect for low noise and city center applications.

iCOOL LCU Series (remote compressor base) · R448A / R449A / R134a / R513A
 Specifications and capacity tables.

New
2025



Model	LCU-KRC045M08		LCU-KRC070M08		LCU-KSC100M08		LCU-KSC160M08		LCU-KSC190M08		
Compressor	Single compressor		Single compressor		Single compressor		Tandem compressor		Tandem compressor		
Compatible refrigerants	R448A, R449A, R134a, R513A		R448A, R449A, R134a, R513A		R448A, R449A, R134a, R513A		R448A, R449A, R134a, R513A		R448A, R449A, R134a, R513A		
PED category	I		II		II		II		II		
Application and nominal cooling capacity	MT/LT (kW)	MT (5,1)	MT (7,2)	MT (10,0)	MT (16,3)	MT (19,6)					
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 400 V 50 Hz	A	4,9	7,5	12,1	19,5	24,5					
Maximum operating current (in the most loaded phase at 400 V 50 Hz)	A	7,5	11,4	17,9	25,9	30,3					
Maximum power consumption	kW	3,5	5,4	8,4	13,6	16,7					
Dimensions	W x H x D	mm	1000 x 705 x 530	1000 x 772 x 507	1200 x 775 x 561	1300 x 874 x 662	1300 x 874 x 662				
Weight		kg	85	89	124	209	211				
Sound level at 10 m		dB(A)	39,0	42,0	54,0	54,0	54,0				
Compressor	Model		C-7RVN113L0A	C-7RZ320L4ABL	C-SBS180H00B	C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G				
	Volumetric flow	m ³ /h	1,25 - 7,5	1,7 - 10,4	5,8 - 17,4	5,8 - 17,4 / 11,6	5,8 - 17,4 / 14,7				
	Rotation range	rps	15-90	15-90	32-90	32-90	32-90				
	Full load amperage	A	5,8	8,7	14,7	14,7 / 8,0	15,2 / 11,9				
	Peak current limit/Locked rotor amperage	A	11,2 / —	15 / —	34 / —	34 / 48	34 / 66				
	Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)				
	Crankcase heater power consumption	W	35	40	70	2x70	2x70				
Oil charge		dm ³	0,7+0,4	0,7+0,4	2,0+0,4	2,0+1,7+2x0,4	2,0+1,7+2x0,4				
Connections	Suction	Inch	5/8	3/4	7/8	1 1/8	1 1/8				
	Liquid	Inch	3/8	3/8	1/2	5/8	5/8				
Liquid receiver		dm ³	3,9	7,1	10,0	14	14				
CU power supply	Voltage	V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)				
	Recommended minimum cable cross-section	mm ²	5x2,5	5x2,5	5x4,0	5x6,0	5x10,0				
	Recommended minimum protection		C16	C16	C25	C32	C40				
Maximum recommended pipe distance		m	40	40	40	50	50				
Maximum height distance	Evaporator above	m	12	12	12	12	12				
	Evaporator below	m	12	12	12	12	12				
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	Suction	Suction				
Recommended insulation thickness		mm	13	13	13	13	13				
Maximum quantity of evaporators connected		Qty.	5	5	7	10	10				
Evaporation temperature	Min - Max	°C	-15 - 5	-15 - 5	-15 - 10	-15 - 10	-15 - 10				
Ambient temperature	Min - Max	°C	-20 - 43	-20 - 43	-20 - 43	-20 - 43	-20 - 43				



New
2025

Model		LCU-KSC280M08	LCU-KSC400M08	LCU-KRC020L08	LCU-KRC035L08	LCU-KRC050L08	LCU-KSC090L08	
Compressor		Tandem compressor	Tandem compressor	Single compressor	Single compressor	Single compressor	Single compressor	
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A	R448A, R449A	R448A, R449A	R448A, R449A	
PED category		II	II	II	I	II	II	
Application and nominal cooling capacity	MT/LT (kW)	MT (27,7)	MT (38,0)	LT (2,0)	LT (3,0)	LT (5,4)	LT (8,7)	
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 400 V 50 Hz	A	28,7	36,9	3,9	6,1	11,7	18,9	
Maximum operating current (in the most loaded phase at 400 V 50 Hz)	A	38,4	51	5,7	8,4	14,9	27,9	
Maximum power consumption	kW	20,4	26,6	2,7	3,9	7,0	13,1	
Dimensions	W x H x D	mm	1650 x 975 x 649	1860 x 975 x 890	1000 x 705 x 530	1000 x 705 x 530	1000 x 772 x 536	1300 x 705 x 530
Weight	kg	301	380	85	85	132	159	
Sound level at 10 m	dB(A)	52,0	55,0	39,0	42,0	50,0	55,0	
Model		C-SBVN373L0B/ C-SCN603H8T	4CC149NA04/ C-SCN753H8T	C-7RVN113L0A	C-7RZ320L4ABL	C-9RZ580L4AAL	ACC144NA03	
Volumetric flow	m ³ /h	7,7 - 24,6 / 23,6	10,7 - 39,3/30,3	1,25 - 7,5	1,7 - 10,4	5,2 - 18,7	10,0 - 37,6	
Rotation range	rps	31-80	21-75	15-90	15-90	25-90	25-72	
Compressor	Full load amperage	A	18,4 / 16,0	26,0 / 19,4	4,4	6,4	10	22,9
Current	Peak current limit/Locked rotor amperage	A	46/80	52/96	11,2/—	15/—	28/—	46/—
Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV32S (PVE)	
Crankcase heater power consumption	W	2x90	2x90	35	35	35	2x90	
Oil charge	dm ³	2,0+2,8+2x0,6	2x2,8+2,0	0,7+0,4	0,7+0,4	2,1+0,4	2,5+0,4	
Connections	Suction	Inch	1 3/8	1 5/8	5/8	7/8	7/8	1 1/8
	Liquid	Inch	7/8	7/8	3/8	3/8	3/8	5/8
Liquid receiver	dm ³	14	30	3,9	3,9	7,1	14	
CU power supply	Voltage	V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)
	Recommended minimum cable cross-section	mm ²	5x10,0	5x16,0	5x2,5	5x2,5	5x4,0	5x6,0
	Recommended minimum protection		C50	C63	C16	C16	C25	C32
Maximum recommended pipe distance	m	70	70	40	40	40	40	
Maximum height distance	Evaporator above	m	12	12	12	12	12	12
	Evaporator below	m	12	12	12	12	12	12
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	Suction	Suction	Suction
Recommended insulation thickness	mm	13	13	13	19	19	19	
Maximum quantity of evaporators connected	Qty.	10	20	5	5	5	5	
Evaporation temperature	Min ~ Max	°C	-15 - 10	-15 - 10	-35 - 5	-35 - -15	-35 - -15	-35 - -10
Ambient temperature	Min ~ Max	°C	-20 - 43	-20 - 43	-20 - 43	-20 - 43	-20 - 43	-20 - 43

Accessories for iCOOL LCU Series.

Compressor oil FV68S 2,0 l.
CZ-HFC-FV68SL20

Compressor oil FV68S 500 ml.
CZ-HFC-FV68SL05



Compressor oil FV32S 2,0 l.
CZ-HFC-FV32SL20

Compressor oil FV32S 500 ml.
CZ-HFC-FV32SL05



iCOOL WCU Series (water/glycol cooled condensing units) - R448A / R449A / R134a / R513A
Specifications and capacity tables.

Model		WCU-KRC045M08	WCU-KRC070M08	WCU-KSC100M08	WCU-KSC160M08	WCU-KSC190M08
Compressor		Single compressor	Single compressor	Single compressor	Tandem compressor	Tandem compressor
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A
PED category		I	I	II	II	II
Application and nominal cooling capacity		MT/LT (kW)	MT (5,1)	MT (7,2)	MT (10,0)	MT (16,3)
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 400 V 50 Hz		A	4,9	7,5	12,1	19,5
Maximum operating current (in the most loaded phase at 400 V 50 Hz)		A	7,5	11,4	17,9	25,9
Maximum power consumption		kW	3,5	5,4	8,4	13,6
Dimensions		W x H x D	mm	1000 x 705 x 530	1000 x 772 x 507	1200 x 775 x 561
Weight		kg	90	94	134	219
Sound level at 10 m		dB(A)	39,0	42,0	54,0	54,0
Model			C-7RVN113L0A	C-7RZ320L4ABL	C-SBS180H00B	C-SBS180H00B/ C-SBN303H8G
Volumetric flow		m ³ /h	1,25 - 7,5	1,7 - 10,4	5,8 - 17,4	5,8 - 17,4 / 11,6
Rotation range		rps	15 - 90	15 - 90	32 - 90	32 - 90
Compressor	Full load amperage	A	5,8	8,7	14,7	14,7/8,0
	Current	Peak current limit / Locked rotor amperage	A	11,2/—	15/—	34/—
Oil type			FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)
Crankcase heater power consumption		W	35	40	70	2x70
Oil charge		dm ³	0,7+0,4	0,7+0,4	2,0+0,4	2,0+1,7+2x0,4
Connections	Suction	Inch	5/8	3/4	7/8	1 1/8
	Liquid	Inch	3/8	3/8	1/2	5/8
Liquid receiver		dm ³	3,9	7,1	10,0	14
CU power supply	Voltage	V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)
	Recommended minimum cable cross-section	mm ²	5x2,5	5x2,5	5x4,0	5x6,0
	Recommended minimum protection		C16	C16	C25	C32
Maximum recommended pipe distance		m	40	40	40	50
Maximum height distance	Evaporator above	m	12	12	12	12
	Evaporator below	m	12	12	12	12
Which pipes needs to be insulated		Suction / liquid / both	Suction	Suction	Suction	Suction
Recommended insulation thickness		mm	13	13	13	13
Maximum quantity of evaporators connected		Qty.	5	5	7	10
Evaporation temperature		Min - Max °C	-15 - 5	-15 - 5	-15 - 10	-15 - 10
Ambient temperature		Min - Max °C	-20 - 43	-20 - 43	-20 - 43	-20 - 43
Plate heat exchanger connections	Inlet	Inch	1/2	1/2	1	1
	Outlet	Inch	3/4	3/4	1/2	1



New
2025

Model		WCU-KSC280M08	WCU-KSC400M08	WCU-KRC020L08	WCU-KRC035L08	WCU-KRC050L08	WCU-KSC090L08	
Compressor		Tandem compressor	Tandem compressor	Single compressor	Single compressor	Single compressor	Single compressor	
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A	R448A, R449A	R448A, R449A	R448A, R449A	
PED category		II	II	I	I	I	II	
Application and nominal cooling capacity	MT/LT (kW)	MT (27,7)	MT (38,0)	LT (2,0)	LT (3,0)	LT (5,4)	LT (8,7)	
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 400 V 50 Hz	A	28,7	36,9	3,9	6,1	11,7	18,9	
Maximum operating current (in the most loaded phase at 400 V 50 Hz)	A	38,4	51	5,7	8,4	14,9	27,9	
Maximum power consumption	kW	20,4	26,6	2,7	3,9	7,0	13,1	
Dimensions	W x H x D	mm	1650x975x649	1860x975x890	1000x705x530	1000x705x530	1000x772x536	1300x705x530
Weight	kg	316	395	92	92	139	169	
Sound level at 10 m	dB(A)	52,0	55,0	39,0	42,0	50,0	55,0	
Model		C-SBVN373L0B/ C-SCN603H8T	4CC149NA04/ C-SCN753H8T	C-7RVN113L0A	C-7RZ320L4ABL	C-9RZ580L4AAL	ACC144NA03	
Volumetric flow	m³/h	7,7 - 24,6 / 23,6	10,7 - 39,3/30,3	1,25 - 7,5	1,7 - 10,4	5,2 - 18,7	10,0 - 37,6	
Rotation range	rps	31 - 80	21 - 75	15 - 90	15 - 90	25 - 90	25 - 72	
Compressor	Full load amperage	A	18,4 / 16,0	26,0 / 19,4	4,4	6,4	10	22,9
Current	Peak current limit / Locked rotor amperage	A	46 / 80	52 / 96	11,2 / —	15 / —	28 / —	46 / —
Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV32S (PVE)	
Crankcase heater power consumption	W	2x90	2x90	35	35	35	2x90	
Oil charge	dm³	2,0+2,8+2x0,6	2x2,8+2,0	0,7+0,4	0,7+0,4	2,1+0,4	2,5+0,4	
Connections	Suction	Inch	1 3/8	1 5/8	5/8	7/8	7/8	1 1/8
	Liquid	Inch	7/8	7/8	3/8	3/8	3/8	5/8
Liquid receiver	dm³	14	30	3,9	3,9	7,1	14	
CU power supply	Voltage	V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)
	Recommended minimum cable cross-section	mm²	5x10,0	5x16,0	5x2,5	5x2,5	5x4,0	5x6,0
	Recommended minimum protection		C50	C63	C16	C16	C25	C32
Maximum recommended pipe distance	m	70	70	40	40	40	40	
Maximum height distance	Evaporator above	m	12	12	12	12	12	
	Evaporator below	m	12	12	12	12	12	
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	Suction	Suction	
Recommended insulation thickness	mm	13	13	13	19	19	19	
Maximum quantity of evaporators connected	Qty.	10	20	5	5	5	5	
Evaporation temperature	Min ~ Max	°C	-15 ~ 10	-15 ~ 10	-35 ~ 5	-35 ~ -15	-35 ~ -15	-35 ~ -10
Ambient temperature	Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43
Plate heat exchanger connections	Inlet	Inch	1 1/2	1 1/2	3/4	1/2	1/2	1
	Outlet	Inch	1	1	3/4	3/4	3/4	1

Accessories for iCOOL WCU Series.

Compressor oil FV68S 2,0 l.

CZ-HFC-FV68SL20

Compressor oil FV68S 500 ml.

CZ-HFC-FV68SL05



Compressor oil FV32S 2,0 l.

CZ-HFC-FV32SL20

Compressor oil FV32S 500 ml.

CZ-HFC-FV32SL05



iCOOL LCU/WCU Series - R448A / R449A / R134a / R513A

Specifications and capacity tables.

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	40 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KRC045M08	CT	45 °C	Min - Max	kW	0,5-4,2	0,7-5,1	0,8-6,1	0,4-2,3	0,5-2,8	0,5-3,4
		50 °C	Min - Max	kW	0,5-3,9	0,6-4,7	0,7-5,7	0,3-2,1	0,4-2,6	0,5-3,2

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	40 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KRC070M08	CT	45 °C	Min - Max	kW	0,8-5,9	1,0-7,2	1,2-8,7	0,5-3,2	0,6-3,9	0,7-4,8
		50 °C	Min - Max	kW	0,7-5,5	0,9-6,7	1,1-8,1	0,5-2,9	0,5-3,6	0,6-4,5

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	40 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC100M08	CT	45 °C	Min - Max	kW	1,4-7,7	2,3-10,0	3,3-12,7	1,6-4,6	2,0-5,8	2,5-7,2
		50 °C	Min - Max	kW	0,8-6,7	1,9-9,0	2,9-11,6	1,5-4,3	1,9-5,4	2,3-6,8

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	40 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC160M08	CT	45 °C	Min - Max	kW	1,4-12,6	2,3-16,3	3,3-20,8	1,6-8,2	2,0-10,1	2,5-12,5
		50 °C	Min - Max	kW	0,8-11,1	1,9-14,7	2,9-19,0	1,5-7,7	1,9-9,5	2,3-11,7

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	40 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC190M08	CT	45 °C	Min - Max	kW	1,4-15,1	2,3-19,6	3,3-25,0	1,6-10,1	2,0-12,4	2,5-15,3
		50 °C	Min - Max	kW	0,8-13,3	1,9-17,7	2,9-22,8	1,5-9,4	1,9-11,6	2,3-14,3

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	40 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC280M08	CT	45 °C	Min - Max	kW	3,7-22,4	4,6-27,7	5,7-34,4	1,7-14,6	2,3-18,1	2,9-22,5
		50 °C	Min - Max	kW	3,3-20,4	4,2-25,2	5,2-31,2	1,5-13,3	2,0-16,4	2,6-20,4

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET	40 °C	Min - Max	kW	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KSC400M08	CT	45 °C	Min - Max	kW	4,4-30,9	5,4-38,0	6,7-46,8	2,7-21,7	3,4-26,7	4,2-32,8
		50 °C	Min - Max	kW	3,8-28,7	4,9-35,2	6,1-43,2	2,5-20,0	3,1-24,5	3,9-30,1

LT	Cooling capacity at				R449A/R448A		
	ET	40 °C	Min - Max	kW	-35 °C	-30 °C	-25 °C
LCU-KRC020L08	CT	45 °C	Min - Max	kW	0,2-1,7	0,3-2,2	0,4-2,8
		50 °C	Min - Max	kW	---	0,2-1,8	0,3-2,3

LT	Cooling capacity at				R449A/R448A		
	ET	40 °C	Min - Max	kW	-35 °C	-30 °C	-25 °C
LCU-KRC035L08	CT	45 °C	Min - Max	kW	0,3-2,4	0,4-3,0	0,5-3,8
		50 °C	Min - Max	kW	---	0,3-2,8	0,4-3,5

LT	Cooling capacity at				R449A/R448A		
	ET	40 °C	Min - Max	kW	-35 °C	-30 °C	-25 °C
LCU-KRC050L08	CT	45 °C	Min - Max	kW	1,1-4,6	1,4-5,8	1,7-7,3
		50 °C	Min - Max	kW	---	1,2-5,0	1,5-6,3

LT	Cooling capacity at				R449A/R448A		
	ET	40 °C	Min - Max	kW	-35 °C	-30 °C	-25 °C
LCU-KSC090L08	CT	45 °C	Min - Max	kW	1,8-6,9	2,3-8,7	3,0-10,9
		50 °C	Min - Max	kW	---	2,0-8,3	2,6-10,3

* ET: Evaporation Temperature. CT: Condensing Temperature.

MT	Cooling capacity at					R449A/R448A			R134a/R513A			
	ET					-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
	15 °C	30 °C	Min - Max	kW		0,7 - 5,2	0,9 - 6,3	1,0 - 7,4	0,4 - 2,6	0,5 - 3,2	0,6 - 4,0	
WCU-KRC045M08	WT	30 °C	CT	40 °C	Min - Max	kW	0,6 - 4,5	0,7 - 5,4	0,9 - 6,5	0,4 - 2,4	0,5 - 3,0	0,6 - 3,6
		40 °C		50 °C	Min - Max	kW	0,5 - 3,9	0,6 - 4,7	0,7 - 5,7	0,3 - 2,1	0,4 - 2,6	0,5 - 3,2

MT	Cooling capacity at					R449A/R448A			R134a/R513A			
	ET					-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
	15 °C	30 °C	Min - Max	kW		1,1 - 7,4	1,3 - 8,9	1,6 - 10,5	0,5 - 3,7	0,6 - 4,5	0,7 - 5,5	
WCU-KRC070M08	WT	30 °C	CT	40 °C	Min - Max	kW	0,9 - 6,3	1,1 - 7,7	1,3 - 9,3	0,5 - 3,4	0,6 - 4,2	0,7 - 5,1
		40 °C		50 °C	Min - Max	kW	0,7 - 5,5	0,9 - 6,7	1,1 - 8,1	0,5 - 2,9	0,5 - 3,6	0,6 - 4,5

MT	Cooling capacity at					R449A/R448A			R134a/R513A			
	ET					-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
	15 °C	30 °C	Min - Max	kW		3,3 - 11,2	4,0 - 13,7	4,8 - 16,6	2,1 - 5,5	2,6 - 6,8	3,2 - 8,5	
WCU-KSC100M08	WT	30 °C	CT	40 °C	Min - Max	kW	1,9 - 8,8	2,8 - 11,1	3,8 - 13,9	1,8 - 4,9	2,2 - 6,1	2,7 - 7,6
		40 °C		50 °C	Min - Max	kW	0,8 - 6,7	1,9 - 9,0	2,9 - 11,6	1,5 - 4,3	1,9 - 5,4	2,3 - 6,8

MT	Cooling capacity at					R449A/R448A			R134a/R513A			
	ET					-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
	15 °C	30 °C	Min - Max	kW		3,3 - 17,9	4,0 - 22,2	4,8 - 27,2	2,1 - 10,1	2,6 - 12,4	3,2 - 15,1	
WCU-KSC160M08	WT	30 °C	CT	40 °C	Min - Max	kW	1,9 - 14,2	2,8 - 18,1	3,8 - 22,8	1,8 - 8,8	2,2 - 10,8	2,7 - 13,3
		40 °C		50 °C	Min - Max	kW	0,8 - 11,1	1,9 - 14,7	2,9 - 19,0	1,5 - 7,7	1,9 - 9,5	2,3 - 11,7

MT	Cooling capacity at					R449A/R448A			R134a/R513A			
	ET					-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
	15 °C	30 °C	Min - Max	kW		3,3 - 21,4	4,0 - 26,6	4,8 - 32,7	2,1 - 12,5	2,6 - 15,2	3,2 - 18,6	
WCU-KSC190M08	WT	30 °C	CT	40 °C	Min - Max	kW	1,9 - 17,0	2,8 - 21,8	3,8 - 27,4	1,8 - 10,9	2,2 - 13,3	2,7 - 16,3
		40 °C		50 °C	Min - Max	kW	0,8 - 13,3	1,9 - 17,7	2,9 - 22,8	1,5 - 9,4	1,9 - 11,6	2,3 - 14,3

MT	Cooling capacity at					R449A/R448A			R134a/R513A			
	ET					-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
	15 °C	30 °C	Min - Max	kW		4,7 - 29,2	5,9 - 36,9	7,4 - 46,0	2,5 - 18,8	3,3 - 23,8	4,1 - 29,9	
WCU-KSC280M08	WT	30 °C	CT	40 °C	Min - Max	kW	4,0 - 24,5	5,0 - 30,5	6,2 - 37,9	2,0 - 15,9	2,6 - 19,9	3,3 - 24,8
		40 °C		50 °C	Min - Max	kW	3,3 - 20,4	4,2 - 25,2	5,2 - 31,2	1,5 - 13,3	2,0 - 16,4	2,6 - 20,4

MT	Cooling capacity at					R449A/R448A			R134a/R513A			
	ET					-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
	15 °C	30 °C	Min - Max	kW		5,1 - 38,3	6,8 - 47,7	9,2 - 59,4	3,3 - 27,4	4,2 - 34,0	5,2 - 42,0	
WCU-KSC400M08	WT	30 °C	CT	40 °C	Min - Max	kW	4,7 - 33,3	5,9 - 41,0	7,4 - 50,7	2,9 - 23,5	3,6 - 29,0	4,5 - 35,7
		40 °C		50 °C	Min - Max	kW	3,8 - 28,7	4,9 - 35,2	6,1 - 43,2	2,5 - 20,0	3,1 - 24,5	3,9 - 30,1

LT	Cooling capacity at					R449A/R448A			
	ET					-35 °C	-30 °C	-25 °C	
	15 °C	30 °C	Min - Max	kW		0,3 - 2,2	0,4 - 2,7	0,5 - 3,4	
WCU-KRC020L08	WT	30 °C	CT	40 °C	Min - Max	kW	0,2 - 1,7	0,3 - 2,2	0,4 - 2,8
		40 °C		50 °C	Min - Max	kW	— —	0,2 - 1,8	0,3 - 2,3

LT	Cooling capacity at					R449A/R448A			
	ET					-35 °C	-30 °C	-25 °C	
	15 °C	30 °C	Min - Max	kW		0,4 - 3,3	0,5 - 4,0	0,7 - 4,9	
WCU-KRC035L08	WT	30 °C	CT	40 °C	Min - Max	kW	0,3 - 2,6	0,4 - 3,3	0,5 - 4,1
		40 °C		50 °C	Min - Max	kW	— —	0,3 - 2,8	0,4 - 3,5

LT	Cooling capacity at					R449A/R448A			
	ET					-35 °C	-30 °C	-25 °C	
	15 °C	30 °C	Min - Max	kW		1,2 - 5,8	1,5 - 7,1	1,9 - 8,7	
WCU-KRC050L08	WT	30 °C	CT	40 °C	Min - Max	kW	1,1 - 4,6	1,4 - 5,8	1,7 - 7,3
		40 °C		50 °C	Min - Max	kW	— —	1,2 - 5,0	1,5 - 6,3

LT	Cooling capacity at					R449A/R448A			
	ET					-35 °C	-30 °C	-25 °C	
	15 °C	30 °C	Min - Max	kW		2,6 - 8,2	3,3 - 10,1	4,2 - 12,6	
WCU-KSC090L08	WT	30 °C	CT	40 °C	Min - Max	kW	2,0 - 7,3	2,6 - 9,1	3,3 - 11,4
		40 °C		50 °C	Min - Max	kW	— —	2,0 - 8,3	2,6 - 10,3

* ET: Evaporating Temperature. WT: Water (or glycol) Inlet Temperature. CT: Condensing Temperature.

PACi NX Elite can cool rooms down to 8 °C

PACi

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.

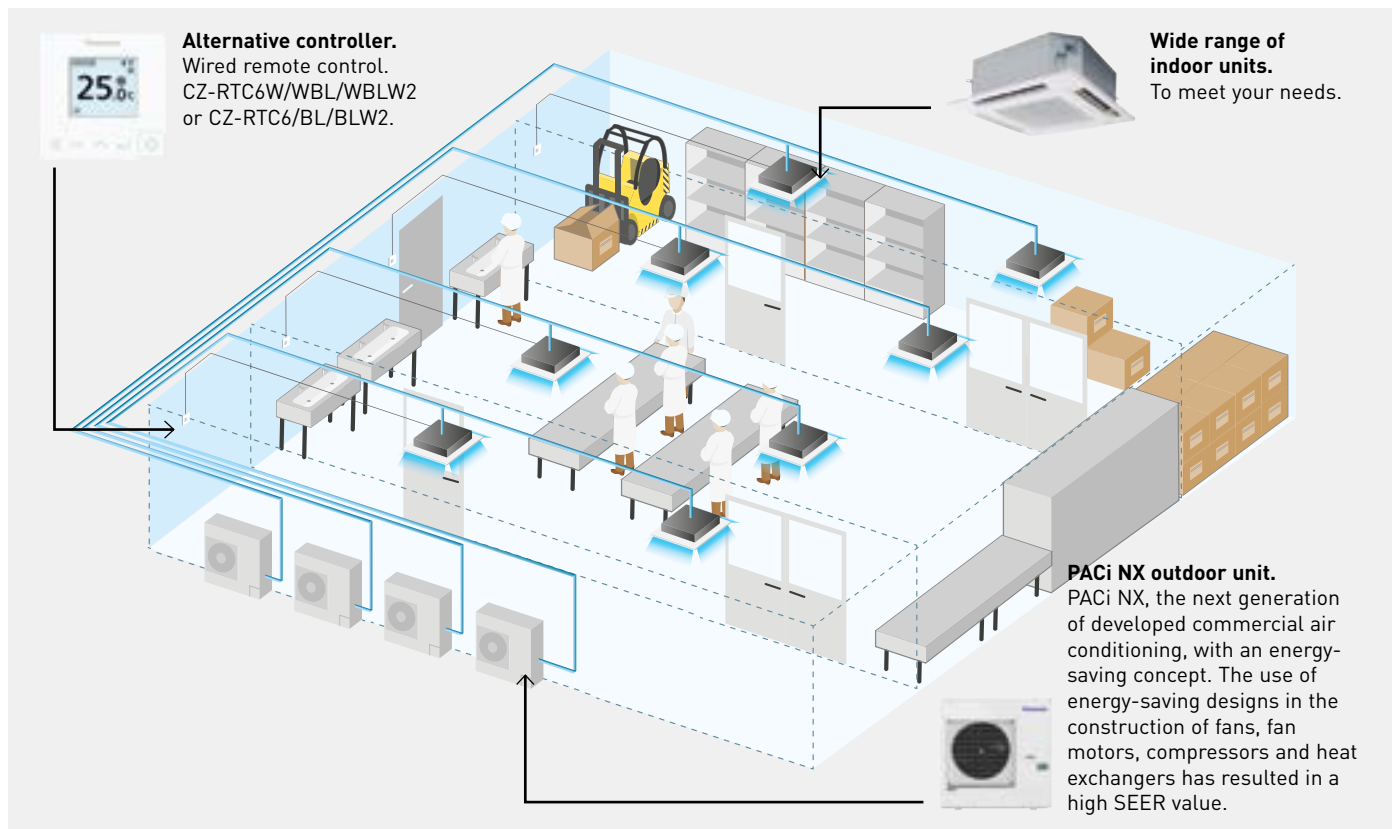
Cooling rooms between
8 °C WB and 24 °C WB



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

Complete range from 2,10 to 23,77 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 4 indoor unit groups with PAW-PACR4 optional redundancy controller

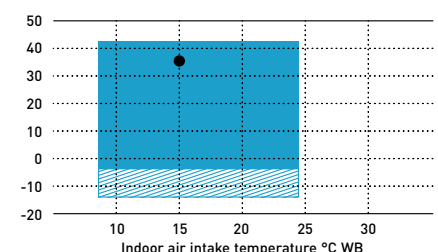


Wine cellars and special high temperature rooms

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		
	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



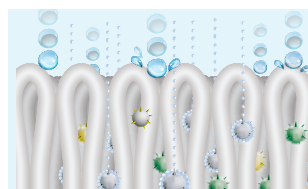
nanoe™ X, technology with the benefits of hydroxyl radicals.

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.



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.



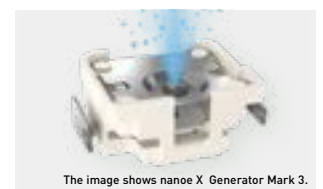
2 | Contained in tiny water particles, nanoe™ X has a long lifespan, which is about 600 seconds, to spread easily around the room.

Huge quantity.



3 | nanoe X Generator Mark 3 produces 48 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.

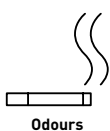


The image shows nanoe X Generator Mark 3.

4 | No service and maintenance required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titanium.

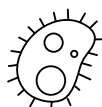
7 effects of nanoe™ X – Panasonic unique technology

Deodorises

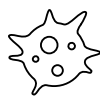


Odours

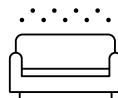
Capacity to inhibit 5 types of pollutants



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances



Skin and hair

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

First nanoe™ device was developed by Panasonic in 2003

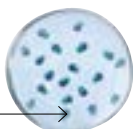
Generator: nanoe™

2003

480 billion hydroxyl radicals/sec

Ion particle structure

Hydroxyl radicals

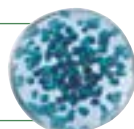


Generator: nanoe™ X

Mark 1 - 2016

4,8 trillion hydroxyl radicals/sec

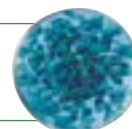
10x times



Mark 2 - 2019

9,6 trillion hydroxyl radicals/sec

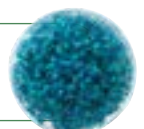
20x times



Mark 3 - 2022

48 trillion hydroxyl radicals/sec

100x times



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, Japan and China.

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	Generator	Result	Capacity	Time	Testing organisation	Report No.	
Airborne	Virus	Influenza (H1N1)	Mark 2	98,3% inhibited	30 m³	1,5 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2003WT8888-00889
		Bacteriophage ΦX174	Mark 1	99,2% inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	Mark 1	99,7% inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	24_0301_1
Adhering	Virus	SARS-CoV-2	Mark 1	91,4% inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	Mark 1	99,9% inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Bacteriophage ΦX174	Mark 1	99,8% inhibited	Approx. 25 m³	8 h	Japan Food Research Laboratories	13001265005-01
		Xenotropic murine leukemia virus	Mark 1	99,999% inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	—
		Coxsackie virus (CA16)	Mark 2	99,9%inhibited	30 m³	4 h	China Electronic Product Reliability and Environmental Testing Research Institute	J2002WT8888-00439
		Bacteriophage	Mark 3	98,81% inhibited	Approx. 139,3 m³	4 h	SGS Inc	SHES210901902584
	Bacteria	MS2 Phage Virus	Mark 3	99,99% inhibited	Approx. 25 m³	2 h	Shokukanen, Inc.	227131N
		Staphylococcus aureus	Mark 1	99,9% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Cedar pollen	Mark 3	99%inhibited	Approx. 24 m³	12 h	Panasonic Product Analysis Center	H21YA017-1
		Ambrosia pollen	Mark 1	99,4% inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Mark 1	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04
			Mark 3	Odour intensity reduced 1,7 levels	Approx. 139,3 m³	0,5 h	SGS Inc	SHES210901902478

Licensed in VDI 6022

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



VDI 6022 – Part 5 ¹⁾ Certification.

Avoidance of allergenic exposure.

Inhibits a wide range of harmful bacteria, viruses, mould, pollen and allergens.



VDI 6022 – Part 1 ¹⁾ & 1.1 ²⁾ Certification.

Ventilation and indoor-air quality.

Panasonic nanoe™ X technology improving indoor air quality.

1) Certification mark only valid for nanoe X Generator Mark 3. 2) Certification mark only valid for nanoe X Generator Mark 2 and Mark 3.

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.

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 3.



Ceiling.
Built-in nanoe X Generator Mark 2.



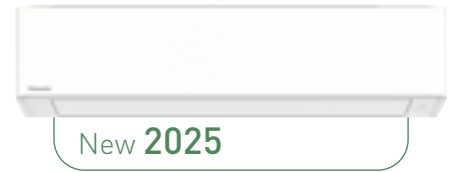
4 Way 90x90 cassette.
Built-in nanoe X Generator Mark 1.



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

NEW PACi NX Series Elite wall-mounted - PK4 - R32

For light refrigeration applications.



nanoe™ X
nanoe™ X as a standard.

Kit		High temperature									
		36	50	60	71	100	125	140			
Indoor unit - 1		S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E			
Indoor unit - 2					S-5010PK4E	S-5010PK4E	S-5010PK4E	S-5010PK4E			
Outdoor unit		U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH4E5/8	U-100PZH4E5/8	U-125PZH4E5/8	U-140PZH4E5/8			
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,90	8,80	11,60	13,00	
		EER		4,27	3,83	3,45	3,40	3,15	3,41	3,61	
		Input power	kW	0,82	1,28	1,68	2,03	2,79	3,40	3,60	
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,01	10,56	11,83	
		EER		3,96	3,55	3,21	3,16	2,93	3,17	3,35	
		Input power	kW	0,80	1,25	1,65	1,99	2,73	3,33	3,53	
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,28	6,96	7,80	
		EER		3,28	2,94	2,66	2,62	2,42	2,62	2,78	
		Input power	kW	0,64	1,00	1,31	1,58	2,18	2,65	2,81	
	Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	7,04	9,42	12,41	13,91
			EER		4,96	4,45	3,75	3,69	3,66	3,97	4,20
			Input power	kW	0,75	1,18	1,58	1,91	2,57	3,13	3,31
Indoor 12 °C (WB)		Cooling capacity	kW	3,43	4,80	5,39	6,42	8,62	11,37	12,74	
		EER		4,65	4,17	3,49	3,44	3,43	3,71	3,93	
		Input power	kW	0,74	1,15	1,55	1,87	2,51	3,06	3,24	
Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,28	6,96	7,80		
	EER		3,66	3,28	2,88	2,83	2,70	2,92	3,09		
	Input power	kW	0,57	0,90	1,21	1,46	2,15	2,38	2,52		
Indoor unit	Dimension (HxWxD)	mm	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249	295 x 1060 x 249		
	Net weight	kg	14	14	14	14	14	14	14		
	nanoe X Generator		Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3	Mark 3		
Outdoor unit	Dimension (HxWxD)	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370		
	Net weight	kg	42	42	43	66	84	86	86		

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3	Infrared remote controller

Accessories	
PAW-PACR4	Interface to run up to 4 indoor unit groups on backup and alternative run
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-CENSC1	Econavi energy saving sensor

Technical focus

- Modern, flat design with a stylish matte white finish featuring
- DC fan for better efficiency and control
- Five-direction automatic air flow adjustment for cooling and heating
- Six directional piping outlet
- Quiet operation
- nanoe™ X (Generator Mark 3: 48 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- Wired remote control CZ-RTC6WBL and 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

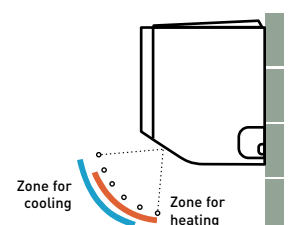
Closed discharge port

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

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.

Air distribution is automatically altered depending on the operational mode of the unit



PACi NX Series Elite 4 way 90x90 cassette - PU3 · R32

For light refrigeration applications.



Standard panel, white (RAL9003). CZ-KPU3

nanoe™ X as a standard.

		High temperature										
Kit		36	50	60	71	100	125	140	200	250		
Indoor unit - 1		S-6071PU3E	S-6071PU3E	S-1014PU3E	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-71PZH4E5/8	U-100PZH4E5/8	U-125PZH4E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8		
Outdoor 15 °C (WB)	Indoor	Cooling capacity	kW	3,50	4,90	5,80	6,90	8,80	11,60	13,00	18,50	23,20
		EER		5,12	4,05	3,81	3,67	4,09	3,47	3,82	3,38	2,97
		Input power	kW	0,68	1,21	1,52	1,88	2,15	3,34	3,40	5,48	7,82
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,01	10,56	11,83	16,84	21,11
		EER		4,78	3,76	3,54	3,41	3,80	3,22	3,55	3,13	2,75
		Input power	kW	0,67	1,19	1,49	1,84	2,11	3,27	3,33	5,37	7,66
Outdoor 35 °C (DB)	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,28	6,96	7,80	11,10	13,92
		EER		3,96	3,12	2,94	2,82	3,15	2,67	2,94	2,60	2,28
		Input power	kW	0,53	0,94	1,19	1,47	1,68	2,61	2,65	4,27	6,10
	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	7,04	9,42	12,41	13,91	20,17	25,29
		EER		5,99	4,71	4,14	3,98	4,76	4,04	4,45	4,00	3,51
		Input power	kW	0,63	1,11	1,43	1,77	1,98	3,07	3,13	5,04	7,19
Outdoor 30 °C (DB)	Indoor 12 °C (WB)	Cooling capacity	kW	3,43	4,80	5,39	6,42	8,62	12,41	12,74	18,50	23,20
		EER		5,60	4,41	3,86	3,71	4,46	4,04	4,16	3,75	3,30
		Input power	kW	0,61	1,09	1,40	1,73	1,94	3,07	3,06	4,93	7,04
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,28	6,96	7,80	11,10	13,92
		EER		4,41	3,47	3,18	3,06	3,51	2,98	3,28	2,89	2,54
		Input power	kW	0,48	0,85	1,09	1,35	1,51	2,34	2,38	3,84	5,47
Indoor unit	Dimension (HxWxD)	mm	256x840x840	256x840x840	256x840x840	319x840x840	319x840x840	319x840x840	319x840x840	319x840x840	319x840x840	
	Net weight	kg	19	19	20	25	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	996x980x370	996x980x370	996x980x370	996x980x370	996x1140x460	996x1140x460	
	Net weight	kg	42	42	43	66	84	86	86	109	109	

Accessories

CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRU3	Infrared remote controller and receiver

Accessories

CZ-KPU3A	Econavi exclusive panel, white (RAL9003)
CZ-KPU3B	NEW Standard panel, graphite black (RAL9011)
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 plus dry operation
- **New** graphite black and white panels providing options to suit a variety of light commercial applications
- Lower noise in low fan operation
- Light weight, easy piping and integrated drain pump for quick installation
- Wired remote control CZ-RTC6WBL and CZ-RTC6BL allows easy system setting via Bluetooth®
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3 + CZ-ATU2)

White and graphite black panels available for the 4 way 90x90 cassette.

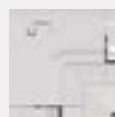
Standard panel, white (RAL9003).

CZ-KPU3



Econavi panel, white (RAL9003).

CZ-KPU3A



Standard panel, graphite black (RAL9011).

CZ-KPU3B



PACi NX Series Elite ceiling - PT3 · R32

For light refrigeration applications.



Kit		High temperature											
		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-71PZH4E5/8	U-100PZH4E5/8	U-125PZH4E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8			
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,60	8,80	11,20	13,00	18,50	23,20	
		EER		4,67	3,71	3,63	3,53	3,76	3,15	3,40	3,32	2,92	
		Input power	kW	0,75	1,32	1,60	1,87	2,34	3,56	3,82	5,57	7,94	
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,01	8,01	10,19	11,83	16,84	21,11	
		EER		4,33	3,45	3,37	3,28	3,49	2,92	3,16	3,08	2,71	
		Input power	kW	0,74	1,29	1,57	1,83	2,29	3,49	3,74	5,46	7,78	
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	3,96	5,28	6,72	7,80	11,10	13,92	
		EER		3,59	2,86	2,79	2,71	2,89	2,42	2,62	2,55	2,25	
		Input power	kW	0,59	1,03	1,25	1,46	1,83	2,78	2,98	4,34	6,19	
	Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	6,73	9,42	11,98	13,91	20,17	25,29
			EER		5,43	4,32	3,93	3,83	4,37	3,66	3,96	3,94	3,46
			Input power	kW	0,69	1,21	1,50	1,76	2,15	3,28	3,51	5,12	7,30
Indoor 12 °C (WB)		Cooling capacity	kW	3,43	4,80	5,39	6,14	8,62	10,98	12,74	18,50	23,20	
		EER		5,08	4,04	3,66	3,57	4,09	3,43	3,71	3,69	3,25	
		Input power	kW	0,68	1,19	1,47	1,72	2,11	3,20	3,44	5,01	7,15	
Indoor 8 °C (WB)		Cooling capacity	kW	2,10	2,94	3,48	3,96	5,28	6,72	7,80	11,10	13,92	
		EER		4,00	3,18	3,02	2,94	3,22	2,70	2,92	2,85	2,50	
		Input power	kW	0,53	0,92	1,15	1,35	1,64	2,49	2,67	3,90	5,56	
Indoor unit		Dimension (HxWxD)	mm	235x1275x690	235x1275x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690		
		Net weight	kg	34	34	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		
Outdoor unit	Dimension (HxWxD)	mm	695x875x320	695x875x320	695x875x320	996x980x370	996x980x370	996x980x370	996x980x370	996x1140x460	996x1140x460		
	Net weight	kg	42	42	43	66	84	86	86	109	109		

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function

Accessories	
CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver
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-CENSC1	Econavi energy saving 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-RTC6WBL and 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 air flow 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, increasing the degree of comfort.

PACi NX Series Elite adaptive ducted unit - PF3 · R32

For light refrigeration applications.



nanoe™ X
nanoe™ X as a standard.

		High temperature											
Kit			36	50	60	71	100	125	140	200	250		
Indoor unit - 1			S-6071PF3E	S-6071PF3E	S-1014PF3E	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-71PZH4E5/8	U-100PZH4E5/8	U-125PZH4E5/8	U-140PZH4E5/8	U-200PZH4E8	U-250PZH4E8		
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,50	4,90	5,80	6,60	8,80	11,20	13,00	18,50	23,20	
		EER		3,98	3,20	3,52	3,37	3,79	3,21	3,59	3,50	3,08	
		Input power	kW	0,88	1,53	1,65	1,96	2,32	3,49	3,62	5,29	7,54	
	Indoor 12 °C (WB)	Cooling capacity	kW	3,19	4,46	5,28	6,01	8,01	10,19	11,83	16,84	21,11	
		EER		3,69	2,97	3,26	3,13	3,52	2,98	3,33	3,25	2,86	
		Input power	kW	0,86	1,50	1,62	1,92	2,27	3,42	3,55	5,18	7,39	
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	3,96	5,28	6,72	7,80	11,10	13,92	
		EER		3,06	2,46	2,70	2,59	2,92	2,47	2,76	2,69	2,37	
		Input power	kW	0,69	1,19	1,29	1,53	1,81	2,72	2,82	4,13	5,88	
	Outdoor 30 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	3,75	5,24	5,92	6,73	9,42	11,98	13,91	20,17	25,29
			EER		4,63	3,72	3,81	3,65	4,41	3,73	4,18	4,14	3,65
			Input power	kW	0,81	1,41	1,55	1,84	2,13	3,21	3,33	4,87	6,94
Indoor 12 °C (WB)		Cooling capacity	kW	3,43	4,80	5,39	6,14	8,62	10,98	12,74	18,50	23,20	
		EER		4,33	3,49	3,55	3,40	4,13	3,49	3,91	3,89	3,42	
		Input power	kW	0,79	1,38	1,52	1,80	2,09	3,14	3,26	4,76	6,79	
Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	3,96	5,28	6,72	7,80	11,10	13,92		
	EER		3,41	2,75	2,93	2,81	3,25	2,75	3,08	3,00	2,64		
	Input power	kW	0,62	1,07	1,19	1,41	1,62	2,44	2,53	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		
	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	996x980x370	996x980x370	996x980x370	996x980x370	996x1140x460	996x1140x460		
	Net weight	kg	42	42	43	66	84	86	84	109	109		

Accessories

CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
CZ-RTC5B	Wired remote controller with Econavi function
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 400x900x400 mm
CZ-CENSC1	Econavi energy saving 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
PAW-APF800F	BION air pollutant filter for S-3650PF3E
PAW-APF1000F	BION air pollutant filter for S-6071PF3E
PAW-APF1400F	BION air pollutant filter 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*
- BION air pollutant filter for certain types of pollutants, such as nitrogen dioxide (NO₂), nitrogen oxides (NO_x) and Ozone (O₃) (optional)
- Wired remote control CZ-RTC6WBL and 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.

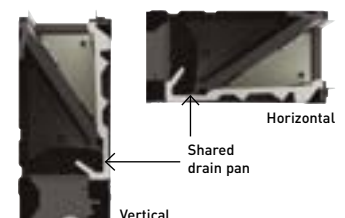
2 installation possibilities (horizontal / vertical)

Vertical installation is available. External static pressure 150 Pa, sufficient for remotely installing units away from the rooms.



Improved drain pan design

Just one drain pan for both horizontal and vertical installations. No need to modify the unit.



PACi NX Jet Air Stream - R32

For light refrigeration applications.



Touch panel controller. PCZ-AHRX0012

			High temperature		
Kit			140	250	
Indoor unit ¹⁾			P-VTVF140	P-VTVF250	
Outdoor unit			U-140PZH4E5/8	U-250PZH4E8	
Outdoor 35 °C (DB)	Indoor 15 °C (WB)	Cooling capacity	kW	14,85	23,77
		EER		2,41	3,17
		Input power	kW	6,15	7,49
	Indoor 12 °C (WB)	Cooling capacity	kW	13,56	21,70
		EER		2,25	2,95
		Input power	kW	6,03	7,34
Outdoor 30 °C (DB)	Indoor 8 °C (WB)	Cooling capacity	kW	11,83	18,93
		EER		2,02	2,65
		Input power	kW	5,87	7,14
	Indoor 15 °C (WB)	Cooling capacity	kW	15,94	25,51
		EER		2,54	3,33
		Input power	kW	6,28	7,65
Indoor unit	Outdoor 30 °C (DB)	Cooling capacity	kW	14,49	23,19
		EER		2,35	3,09
		Input power	kW	6,16	7,50
	Indoor 8 °C (WB)	Cooling capacity	kW	12,46	19,94
		EER		2,08	2,73
		Input power	kW	6,00	7,30
Outdoor unit	Dimension (HxWxD)	mm	802 x 1105 x 893	1026 x 1458 x 953	
	Net weight	kg	88	130	
Outdoor unit	Dimension (HxWxD)	mm	996 x 980 x 370	996 x 1140 x 460	
	Net weight	kg	86	109	

1) The CONEX controller CZ-RTC6 (-BL/-BLW2) is not required.

Optional configurations*		Front panel type	Air flow (m³/h)
P-VTVF140NC5-PE	Jet Air Stream Standard	Manual nozzles	2500
P-VTVF250NC5-PE	Jet Air Stream Standard	Manual nozzles	5000
P-VTVF140PC5-PE	Jet Air Stream Ducted	Ducted front panel	2500
P-VTVF250PC5-PE	Jet Air Stream Ducted	Ducted front panel	5000

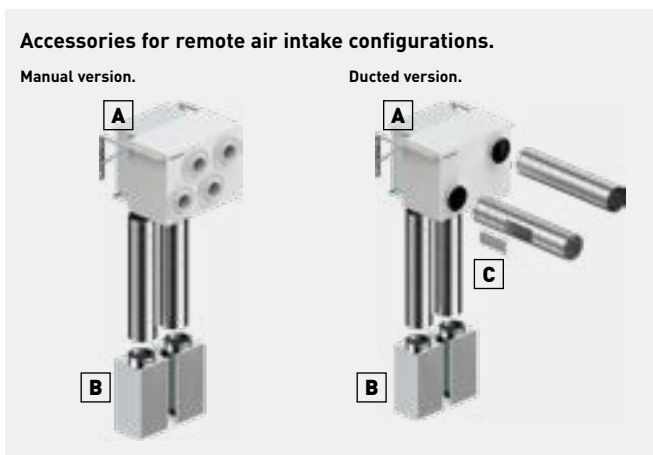
* The product technical data is the same as Jet Air Stream Smart.

Accessories	
CZ-RTC6W	CONEX wired remote controller (non-wireless), white
CZ-RTC6WBL	CONEX wired remote controller with Bluetooth®, white
CZ-RTC6WBLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, white
CZ-RTC6	CONEX wired remote controller (non-wireless), black
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®, black
CZ-RTC6BLW2	CONEX wired remote controller with Wi-Fi and Bluetooth®, black
PCZ-AHRX0012	Touch panel controller with Modbus integration and group control up to 8 units



























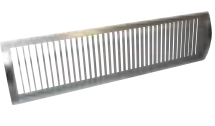
Technical focus

- Energy-saving solution for year-round heating and cooling in large and high spaces
- High air volume up to 5000 m³/h and long maximum air throw distance of 30 m
- Optimal comfort with Smart Jet - self-directing nozzles

Accessories	
PCZ-AHRP0681	Recessed mounting box for controller
A PCZ-AHRX0051	Ducted air intake plenum (1x DN 355 mm) for VTVF140N and VTVF140P
A PCZ-AHRX0052	Ducted air intake plenum (2x DN 355 mm) for VTVF250N and VTVF250P
B PCZ-AHRX0061	Ground air intake module (VTVF250 requires two of them)
C PCZ-AHRX0071	Air supply grille for ducts



Accessories and control – PACi NX

Panels			IAQ filter for adaptive ducted unit			
				* Tentative image.		
Standard panel for 4 way 90x90 cassette, white (RAL9003).	Econavi panel for 4 way 90x90 cassette, white (RAL9003).	NEW Standard panel for 4 way 90x90 cassette, graphite black (RAL9011).	BION air pollutant filter for S-3650PF3E.	BION air pollutant filter for S-6071PF3E.	BION air pollutant filter for S-1014PF3E.	
----- CZ-KPU3	----- CZ-KPU3A	----- CZ-KPU3B	----- PAW-APF800F	----- PAW-APF1000F	----- PAW-APF1400F	
Plenums			Special outdoor supports			
						
Air outlet plenum for S-3650PF3E.	Air outlet plenum for S-6071PF3E.	Air outlet plenum for S-1014PF3E.	Tray for condenser water compatible with outdoor elevation platform.	Outdoor elevation platform. Dimension (HxWxD): 400x900x400 mm	Outdoor base ground support for noise and vibration absorption. Dimension (HxWxD): 600x95x130 mm Safe working load: 500 kg	
----- CZ-56DAF2	----- CZ-90DAF2	----- CZ-160DAF2	----- PAW-WTRAY	----- PAW-GRDSTD40	----- PAW-GRDBSE20	
Individual controls						
						
CONEX wired remote controller (non-wireless), white.	CONEX wired remote controller with Bluetooth®, white.	CONEX wired remote controller with Wi-Fi and Bluetooth®, white.	CONEX wired remote controller (non-wireless), black.	CONEX wired remote controller with Bluetooth®, black.	CONEX wired remote controller with Wi-Fi and Bluetooth®, black.	
----- CZ-RTC6W	----- CZ-RTC6WBL	----- CZ-RTC6WBLW2	----- CZ-RTC6	----- CZ-RTC6BL	----- CZ-RTC6BLW2	
						
Design Wired remote controller with Econavi function.	Infrared remote controller for wall-mounted.	Infrared remote controller and receiver for 4 way 90x90 cassette.	Infrared remote controller and receiver for ceiling.	Infrared remote controller and receiver for all indoor units.		
----- CZ-RTC5B	----- CZ-RWS3	----- CZ-RWS3 + CZ-RWRU3	----- CZ-RWS3 + CZ-RWRT3	----- CZ-RWS3 + CZ-RWRC3		
Accessories PCB			Sensors			
						
PCB for server room application, control up to 4 indoor unit groups, redundancy, backup, etc.			Econavi energy saving sensor.			Fresh air-intake kit.
----- PAW-PACR4			----- CZ-CENS1			----- CZ-FDU3+CZ-ATU2
Accessories for Jet Air Stream						
						
Touch panel controller with Modbus integration and group control up to 8 units.	Recessed mounting box for controller.	Ducted air intake plenum (1 x DN 355 mm) for VTVF140N and VTVF140P.	Ducted air intake plenum (2 x DN 355 mm) for VTVF250N and VTVF250P.	Ground air intake module (VTVF250 requires two of them).	Air supply grille for ducts.	
----- PCZ-AHRX0012	----- PCZ-AHRP0681	----- PCZ-AHRX0051	----- PCZ-AHRX0052	----- PCZ-AHRX0061	----- PCZ-AHRX0071	



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