

Moving to more sustainable refrigeration solutions – iC₂RE and iCOOL ranges

15^{years} C₂

Panasonic's iC₂RE and iCOOL condensing units offer a complete line of cooling solutions using CO₂, A2L, and HFC/HFO 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.



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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.

Panasonic unveils iC02RE 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:

iCQRE

Move to natural refrigerants.



CO₂
R744

iC02RE

Move to natural refrigerants.

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

The iC02RE 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

Reduce your energy bills with advanced Inverter technology.



A2L R454C	A2L R455A		
R448A	R449A	R134a	R513A

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.

Solutions with high energy saving

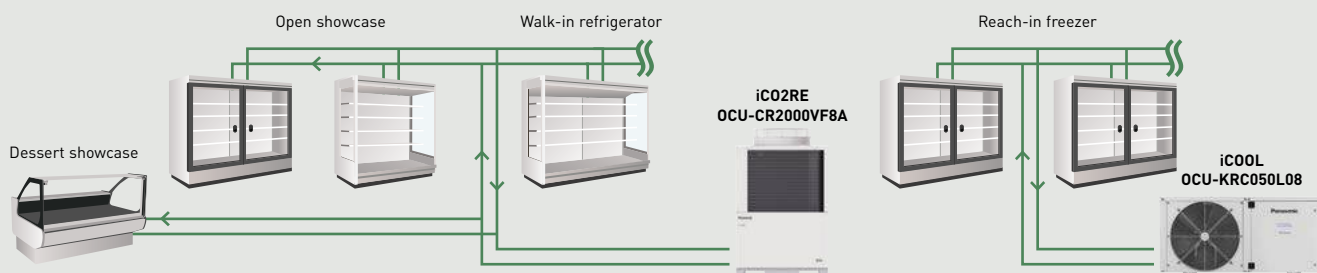
Panasonic's iCO2RE and iCOOL ranges of condensing units offer a reliable solution for a wide range of applications, including convenience stores, supermarkets, gas stations and cold rooms.



Showcases.

Convenience stores, supermarkets, gas stations.

iCQRE
iCOOL



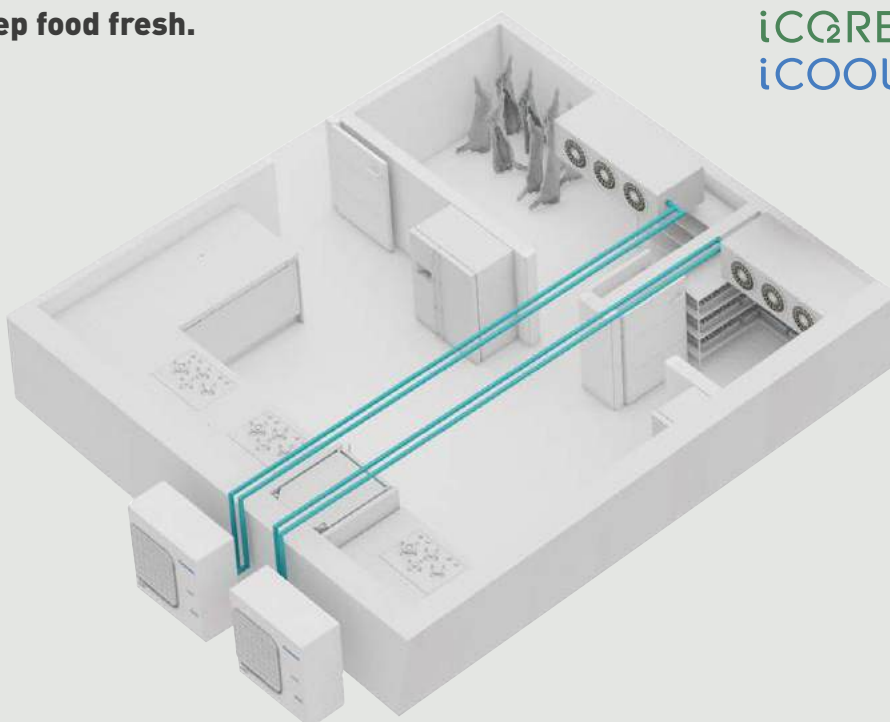
Cold room application to keep food fresh.

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)

iCQRE
iCOOL



Heat recovery function for heating.

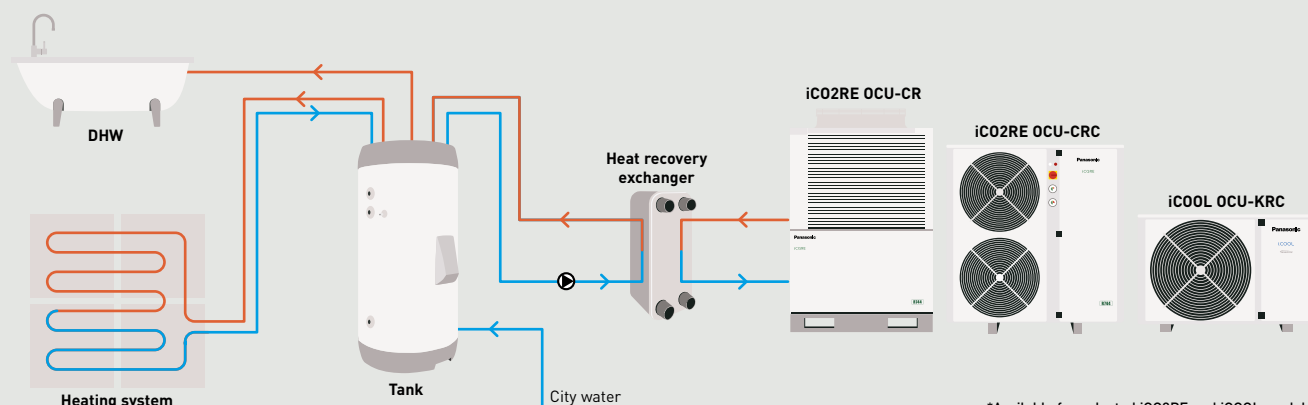
This function offers refrigeration combined with heating all in one system. The ground-breaking solution allows for increased opportunity to cut running costs by utilizing exhausted heat from refrigeration and transferring to the energy source for heating.

iCQRE
iCOOL

What is heat recovery function?

Solution example.

Heat recovery system can produce both heating and refrigeration.



*Available for selected iCQRE and iCOOL models.

REF PRO DESIGNER

Think beyond unit selection.



REF PRO DESIGNER - An advanced design tool that supports engineers, installers, and technicians in designing advanced systems for commercial refrigeration installations.



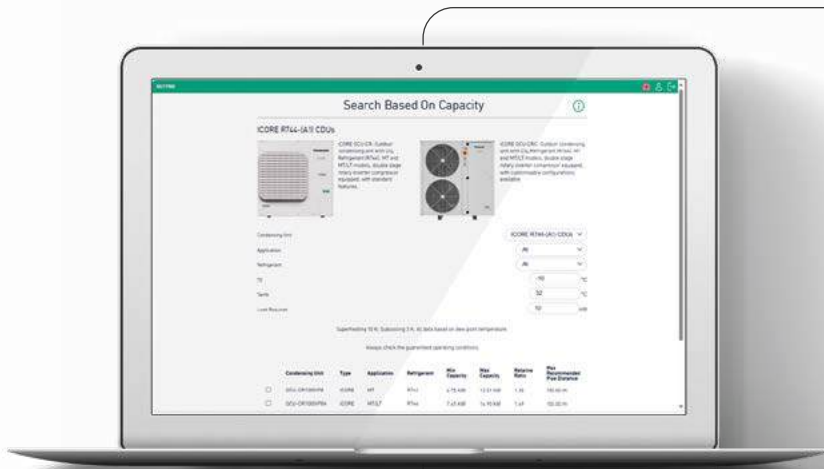
**ONE TOOL.
ONE WORKFLOW**



**BETTER DECISIONS
EARLIER. FEWER
REDESIGNS LATER**



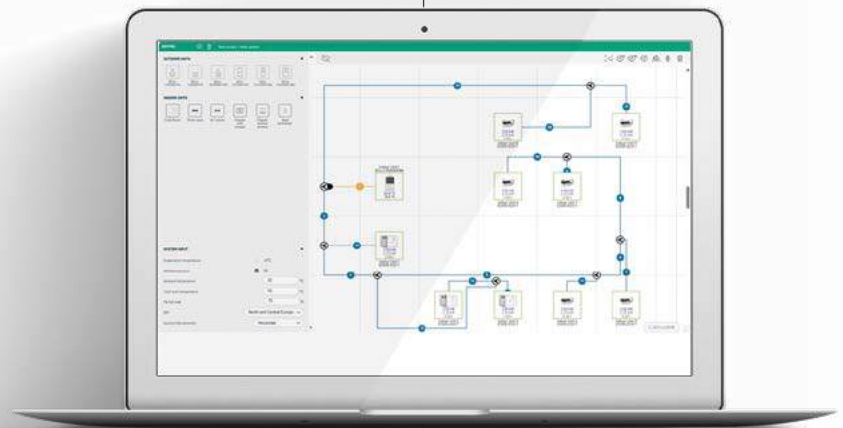
**ACCESS IT ANYTIME,
ANYWHERE- IN YOUR
LANGUAGE**



**Select the optimal
iCO2RE/iCOOL unit for
your application.**

Panasonic
REF
PRO DESIGNER

**Design your installation with
confidence and precision.**




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

- Evaporation temperature selection
- Cooling capacity calculation
- Refrigerant piping calculation
- EEV expansion valves calculation
- Refrigerant charge calculation
- Oil charge calculation

**Download the
comprehensive
project report.**



PRO Club 

www.panasonicproclub.com

Or connect simply with your
smartphone to the PRO Club
using this QR



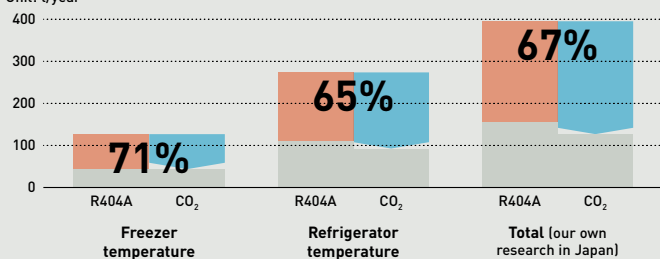
iC02RE CO₂ range – Naturally efficient cooling iC02RE

Panasonic's iC02RE range is a new generation of CO₂ condensing units, built on more sustainability, energy efficiency, and flexibility. Using CO₂ – a natural refrigerant – iC02RE supports today's environmental goals while delivering reliable, high-performance cooling.



Comparison of CO₂ emissions.

Unit: t/year



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.

The range includes the **OCU-CR CO₂ Series** – value-packed units designed for the evolving, eco-conscious market – and the **OCU/SCU/NCU Custom Fit CO₂ Series**, offering factory-integrated, and fully tested options for faster installation and reduced on-site labour.

iCO2RE is the core of an efficient, future-ready refrigeration system – combining ecological responsibility with practical performance to meet a wide range of market needs.

iCO2RE OCU-CR CO₂ Series - R744.

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





iCO2RE OCU/SCU-CRC Custom-fit CO₂ Series - R744.




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





NEW! iCO2RE NCU CO₂ Series - R744.

Up to 1,8 kW MT and up to 0,9 kW LT.

Choose a greener solution by Panasonic.

iCO2RE 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 climate-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. The following table shows how well R744 (CO₂) performs regarding environmental impact and safety.

Panasonic provides a solution in Europe with CO₂ refrigeration systems to prevent global warming and to support climate-friendly retail operations

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

A more sustainable refrigeration systems in your food retail

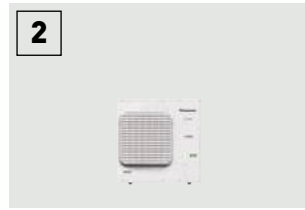
CO₂ refrigerant is the choice to curb carbon footprint of any business organization, especially to food retailers, to whom it brings key advantages.

Panasonic professionals strongly supports your projects to meet customer's request!

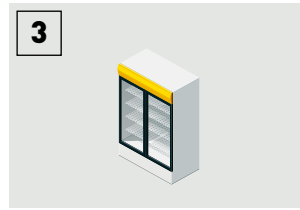
*Case study based on iCO2RE OCU-CR CO, Series CO, units.



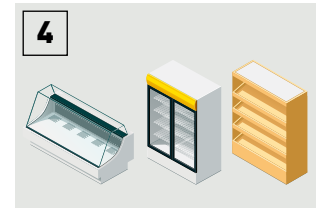
1
10 HP MT TYPE
(OCU-CR1000VF8).



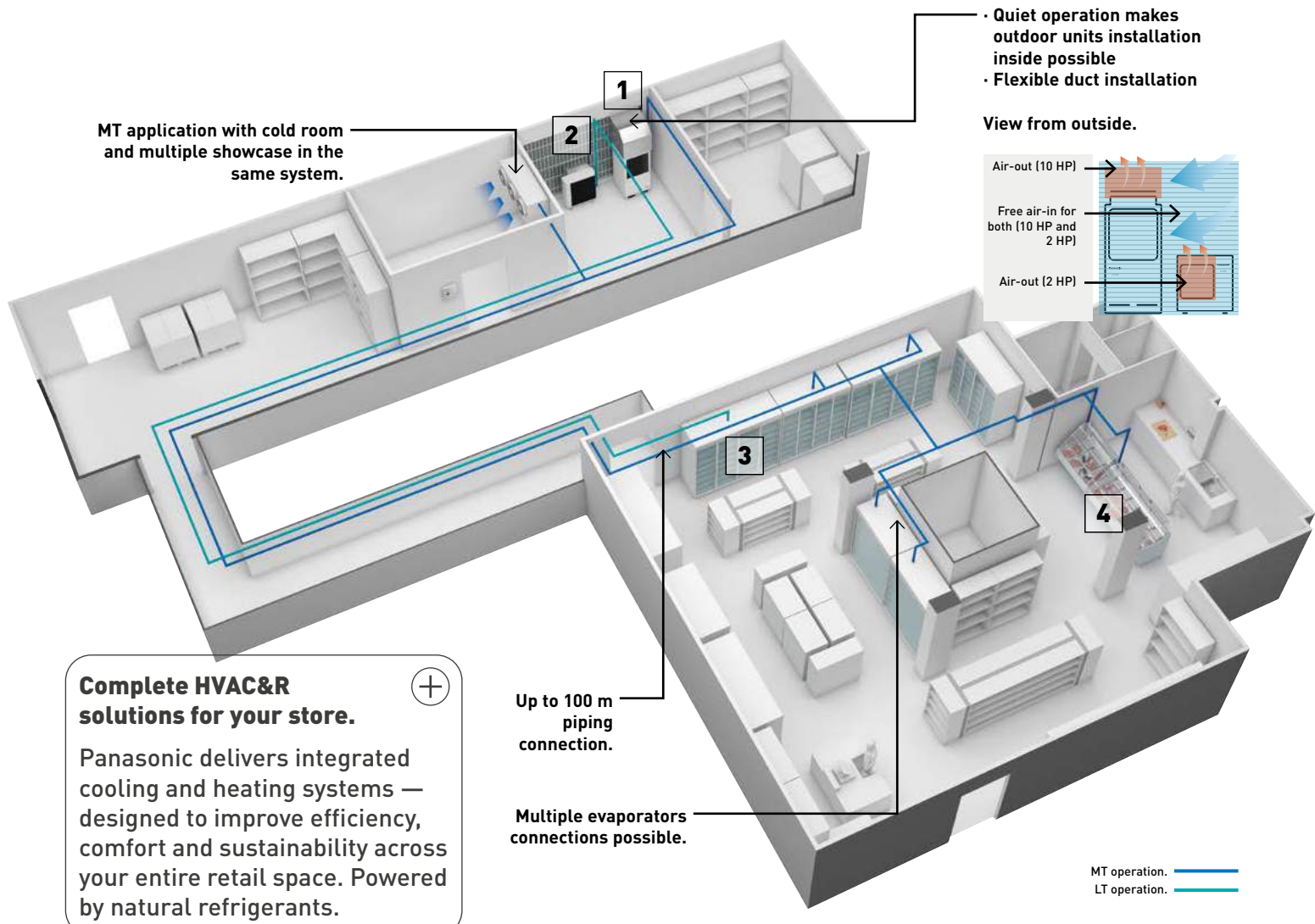
2
2 HP MT/LT TYPE
(OCU-CR200VF5A).



3
Reach-in freezer (field supplied).

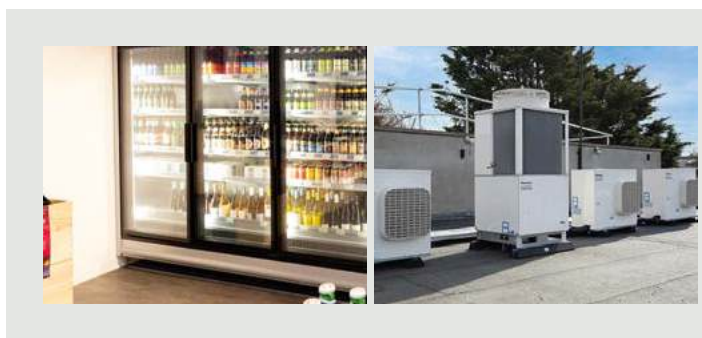


4
Serve-over counters,
showcase and walk-in
refrigerator (field supplied).



Complete HVAC&R solutions for your store.

Panasonic delivers integrated cooling and heating systems — designed to improve efficiency, comfort and sustainability across your entire retail space. Powered by natural refrigerants.



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 - iCO2RE OCU-CR CO, 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.

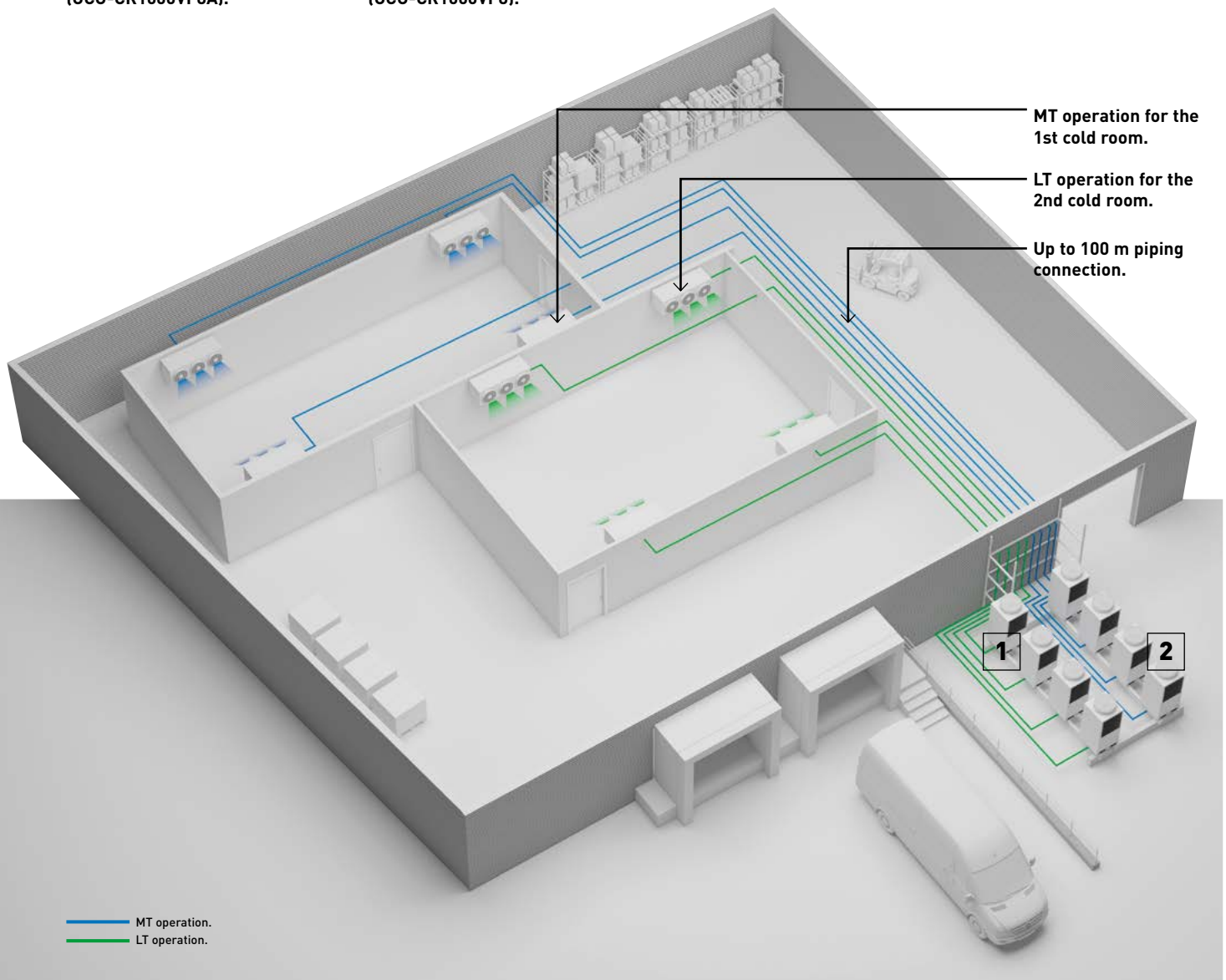
*Case study based on iCO2RE OCU-CR CO, Series CO, units.



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 - iCO2RE OCU-CR CO, Series CO, have been chosen to fulfill the expectation of climate-friendly and safety requirements.

The products with reliable quality and high performance was also an essential point.

iCO2RE OCU-CR CO₂ Series

CO₂ transcritical condensing units. iCO2RE 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 - iCO₂RE 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.

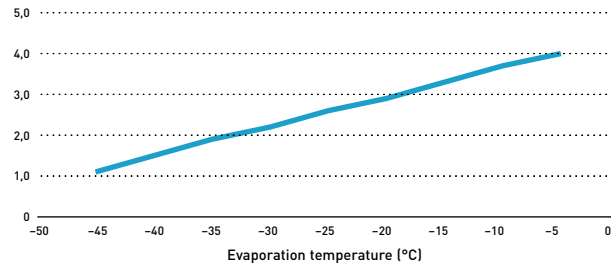
MT/LT type:
200VF5A - 3,7 / 1,9 kW.

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

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



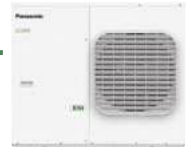
OCU-CR200VF5A¹⁾.
Cooling capacity (kW)



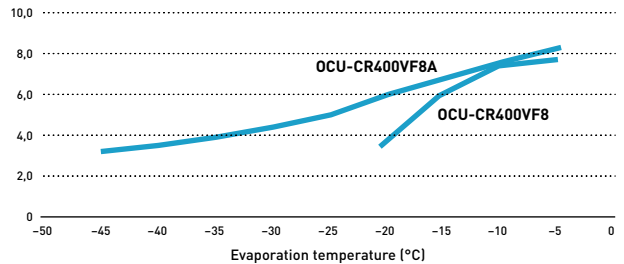
MT type: 400VF8 - 6,9 kW.
MT/LT type: 400VF8A - 7,5 / 3,8 kW.

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

*Model 400VF8A.



OCU-CR400VF8 / OCU-CR400VF8A²⁾.
Cooling capacity (kW)



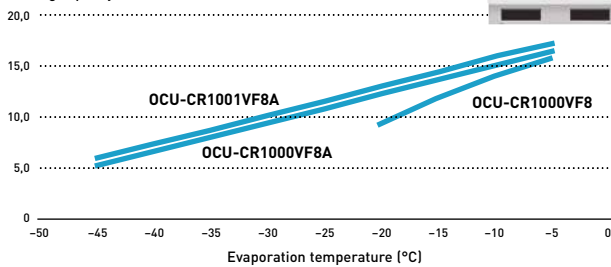
MT type: 1000VF8 - 13,5 kW.
MT/LT type: 1000VF8A - 14,9 / 7,6 kW.
NEW! MT/LT type:
1001VF8A - 16,0 / 8,6 kW.

3,00* SEPR cooling.
1,67* SEPR freezing.

*Model 1001VF8A.



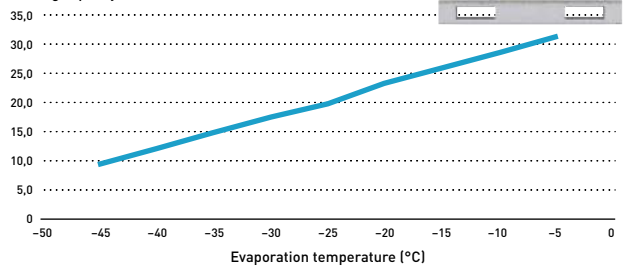
OCU-CR1000VF8 / OCU-CR1000VF8A / OCU-CR1001VF8A²⁾.
Cooling capacity (kW)



MT/LT type:
2000VF8A - 28,7 / 14,6 kW.

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

OCU-CR2000VF8A²⁾.
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, 1001VF8A 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 EEV expansion valve control in showcases*

*For models 400VF8/A, 1000VF8A, 1001VF8A and 2000VF8A.

Technology by Panasonic

Reliability is our main target.

We ensure excellent quality control established by skilled factory team.



iCO2RE OCU-CR CO₂ Series 20 HP MT/LT model.

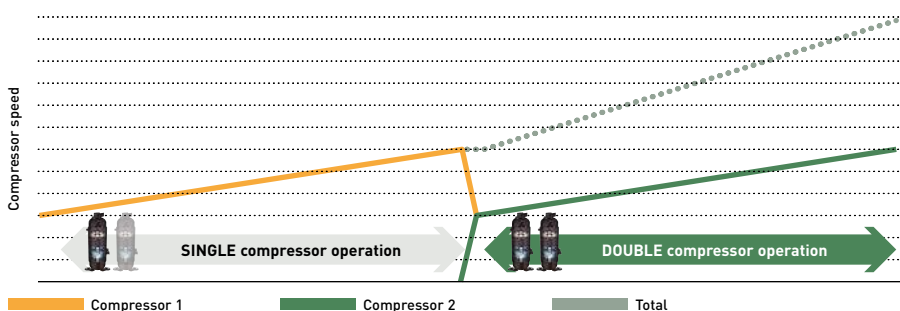
The iCO2RE OCU-CR CO₂ Series now includes 20 HP MT/LT model, a highly efficient multi compressor solution.

- 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 operates 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.


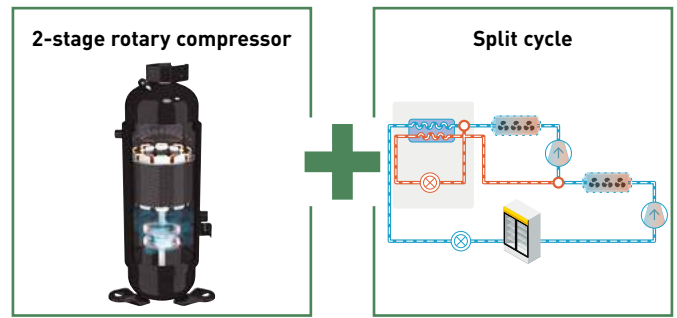


Panasonic's combined technology of the 2-stage compressor with the split cycle.

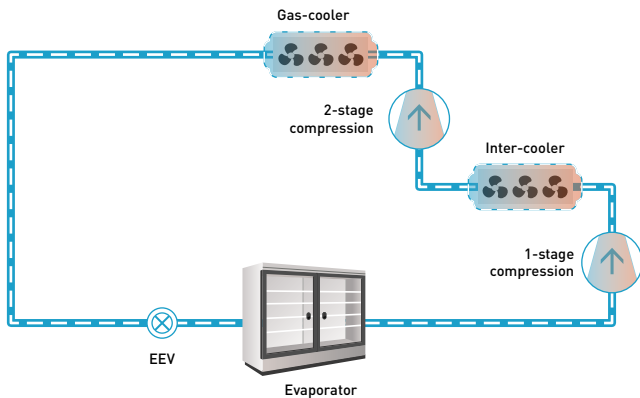
- Panasonic 2-stage rotary compressor delivering powerful performance for more than 20 years
- Split cycle* enhances cooling effect

*Available for 200VF5A, 400VF8A, 1000VF8A and 2000VF8A models.
 **In the case that the standard cycle with 1-stage rotary compressor was compared.

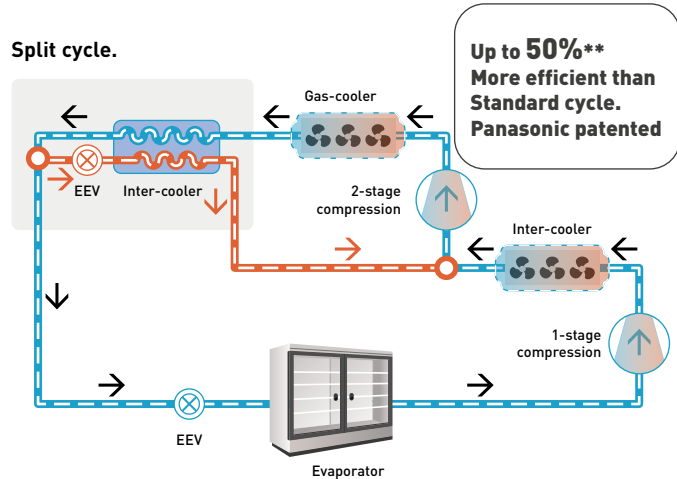
Watch the highlighted technology video.

Standard cycle.



Split cycle.



Reliable CO₂ technology by Panasonic.

- Reliable quality: 15 years of CO₂ cold chain production in Japan
- 26500 units sold and installed in more than 6500 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 August 2025.

15 years
CO₂



Control and connectivity

Panasonic CO₂ condensing units - iCO₂RE 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 - iCO₂RE 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 - iCO₂RE OCU-CR CO₂ Series system at shops.

Monitoring system



Standard boss & boss-mini



AK-SM Series*



TelevisGo

Copeland Controls



Xweb



DMTOUCH



TeleNET

*M2M1-10 gateway (Model code: FDS021) is required in addition to the monitoring system. M2M1-10 gateway is a field supply.
X-Gate (Model code : 080G0345 + AK-PS 063 0800Z0057) is required in addition to the Danfoss monitoring system AK-SM 800A. X-Gate gateway is a field supply.

Control panel and EEV expansion valves.

Panel-C, an intelligent controller with a compact chassis. This controller has the smart program especially for showcases and cold rooms. EEV expansion valves 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

EEV expansion valves 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 620.



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 - iCO2RE 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.

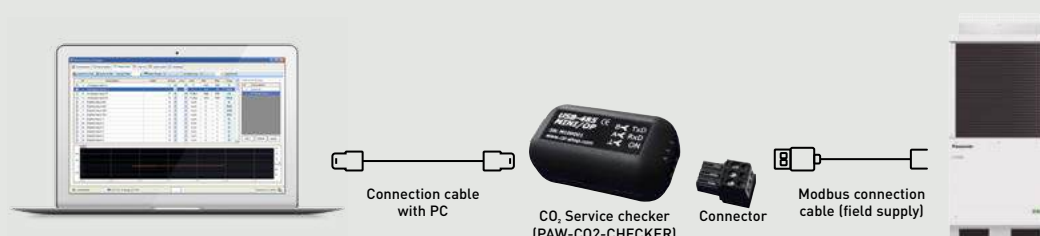
To use it, is necessary to download free Device Manager software from the Eliwell website:

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



iCO2RE OCU-CR CO₂ Series - R744

Specifications and capacity tables.



MODEL		OCU-CR	200VF5A	400VF8	400VF8A	1000VF8	1000VF8A*	1001VF8A**	2000VF8A
Compressor			Single compressor	Single compressor	Single compressor	Single compressor	Single compressor	Single compressor	Tandem compressor
Refrigerants			R744	R744	R744	R744	R744	R744	R744
PED category			I	II	II	II	II	II	II
Application			MT / LT	MT	MT / LT	MT	MT / LT	MT / LT	MT / LT
Power supply	Voltage	V	220-230-240	380-400-415	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	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity at ET -35 °C AT 32 °C	Min ~ Max	kW	1,1 - 1,9	—	1,9 - 3,8	—	3,8 - 7,6	3,3 - 8,6	3,8 - 14,6
	Min ~ Max	kW	2,1 - 3,7	3,4 - 6,9	3,8 - 7,5	6,8 - 13,5	7,5 - 14,9	6,2 - 16,0	7,5 - 28,7
SEPR freezing at ET -35 °C AT 32 °C			1,92	—	1,73	—	1,49	1,67	1,64
SEPR cooling at ET -10 °C AT 32 °C			3,83	3,17	3,20	2,62	2,86	3,00	3,10
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a	8021	—	16255	—	39985	38392	66760
Annual electricity consumption at ET -10 °C AT 32 °C		kWh/a	6797	13384	14488	32815	32409	32822	57076
Evaporator connection			Multiple	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple
Evaporation temperature	Min ~ Max	°C	-45 ~ -5	-20 ~ -5	-45 ~ -5	-20 ~ -5	-45 ~ -5	-45 ~ -5	-45 ~ -5
	Min ~ Max	°C	-20 ~ +43	-20 ~ +45	-20 ~ +45	-20 ~ +43	-20 ~ +43	-20 ~ +45	-20 ~ +45
PS line	Suction	bar	80	80	80	80	80	80	80
	Liquid	bar	120	80	80	80	80	80	80
User system external alarm. Non-voltage contact			Yes	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	—	—
Showcase operation ON / OFF signal. Digital input. Non-voltage contact			Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modbus communication line (RS485)		Ports	Yes	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	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	890 x 1941 x 890	1190 x 1941 x 890
Weight		Kg	70	136	149	293	320	315	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)	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)	5/8 (15,88)	3/4 (19,05)
Maximum recommended pipe distance		m	25	50 ²⁾	50 ²⁾	100 ²⁾	100 ²⁾	100 ²⁾	100 ²⁾
Air flow		m ³ /min	54	59	59	220	220	220	220
External static pressure		Pa	17	50	50	58	58	58	58
Performance - additional data	Ambient temperature	°C	32	32	32	32	32	32	32
	Evaporating temperature	°C	-10 -35	-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	13,9 TBC	24,31 20,49
	Sound level ³⁾	dB(A)	35,5	33,0	36,1	36,0 ⁴⁾	36,0 ⁴⁾	39,5 (36,5 ⁴⁾)	42,0 (39,0 ⁴⁾)

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, at maximum speed, 10 m from product. 4) Performance in a silent mode. *CR1000VF8A: subject to availability. **Available in Summer 2026.

+ CHECK PAGES 620 - 623 FOR A WIDER SELECTION OF ACCESSORIES



*45 °C AMBIENT TEMPERATURE: For OCU-CR400VF8/A, OCU-CR1001VF8A and OCU-CR2000VF8A.



MT/LT	Cooling capacity at				R744						
	ET				-45 °C	-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CR200VF5A	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
OCU-CR400VF8	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
OCU-CR400VF8A	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
OCU-CR1000VF8	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
OCU-CR1000VF8A	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
OCU-CR1001VF8A	AT	32 °C	Min - Max	kW	TBC	3,3 - 8,6	TBC	TBC	TBC	6,2 - 16,0	TBC
		38 °C	Min - Max	kW	TBC	TBC	TBC	TBC	TBC	TBC	TBC
		43 °C	Min - Max	kW	TBC	3,0 - 7,7	TBC	TBC	TBC	4,7 - 12,2	TBC
OCU-CR2000VF8A	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

REF PRO DESIGNER.

Think beyond unit selection.

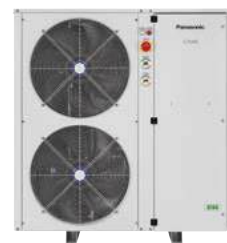
An advanced design tool that supports engineers, installers, and technicians in designing advanced systems for commercial refrigeration installations:
<http://www.panasonicproclub.com>



iCO2RE 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**6,0 kW (MT).
3,0 kW (LT).**MT/LT type:
OCU-CRC150A08**15,2 kW (MT).
7,3 kW (LT).**MT type:
OCU-CRC210M08**

20,6 kW (MT).

**MT/LT type:
SCU-CRC150A08**15,2 kW (MT).
7,3 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. With local production and a streamlined supply chain, ensuring shorter delivery times across Europe—helping you get the solutions you need, faster.



iCO2RE OCU/SCU-CRC Custom-fit CO₂ Series - R744

Specifications and capacity tables.



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			MT / LT	MT / LT	MT	MT / LT	
Power supply	Voltage	V	380 - 420	380 - 420	380 - 420	380 - 420	
	Phase		Three phase	Three phase	Three phase	Three phase	
	Frequency	Hz	50	50	50	50	
Cooling capacity at ET -35 °C AT 32 °C			1,2 - 3,0	3,0 - 7,3	—	3,0 - 7,3	
Cooling capacity at ET -10 °C AT 32 °C			2,7 - 6,0	6,8 - 15,2	6,0 - 20,6	6,8 - 15,2	
SEPR freezing at ET -35 °C AT 32 °C			—	1,64	—	1,64	
SEPR cooling at ET -10 °C AT 32 °C			2,78	3,07	3,00	3,07	
Annual electricity consumption at ET -35 °C AT 32 °C			17883	33650	—	33650	
Annual electricity consumption at ET -10 °C AT 32 °C			13371	30019	42050	30019	
Evaporator connection			Multiple	Multiple	Multiple	Multiple	
Evaporation temperature	Min - Max	°C	-35 ~ -5	-35 ~ 0	-20 ~ -5	-35 ~ 0	
Ambient temperature	Min - Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	
PS line	Suction	bar	80	80	80	80	
	Liquid	bar	80	80	90	80	
User system external alarm. Non-voltage contact			Yes	Yes	Yes	Yes	
Liquid tube electromagnetic valve output			—	—	—	—	
Showcase operation ON / OFF signal. Digital output. Non-voltage contact			Yes	Yes	Yes	Yes	
Modbus communication line [RS485]			Ports	Yes	Yes	Yes	
Compressor type			2- stage rotary	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	1600 x 1600 x 908	1326 x 1724 x 790	
Weight		kg	200	290	390	300	
Connections	Suction	Inch (mm)	3/8(9,52)	1/2(12,70)	5/8(15,88)	1/2(12,70)	
	Liquid	Inch (mm)	3/8(9,52)	1/2(12,70)	1/2(12,70)	1/2(12,70)	
Maximum recommended pipe distance			40	80	80	80	
Air flow			1x5700	2x4600	2x7500	1x8200	
External static pressure			120 ¹⁾	N/A	N/A	120	
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	20,6
	Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)		A	11,2	23,4	30,1	26,0
	Sound level at 10 m		dB(A)	41,5	40,4	52,6	55,0

1) Value of the static pressure for the model with "P" high-pressure fan customisation option (OCU-CRC060A08-P)

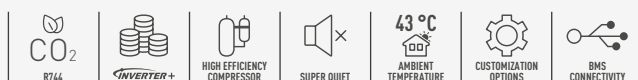
MT/LT	Cooling capacity at				R744					
	ET				-35 °C	-30 °C	-25 °C	-15 °C	-10 °C	-5 °C
OCU-CRC060A08	AT	32 °C	Min - Max	kW	1,2 - 3,0	1,4 - 3,5	1,7 - 4,0	2,3 - 5,3	2,7 - 6,0	3,0 - 6,7
		38 °C	Min - Max	kW	1,0 - 2,8	1,2 - 3,2	1,5 - 3,8	2,0 - 4,9	2,3 - 5,5	2,6 - 6,0
		43 °C	Min - Max	kW	0,9 - 2,4	1,1 -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

+ CHECK PAGES 620 - 623 FOR A WIDER SELECTION OF ACCESSORIES



NEW! iCO2RE NCU CO₂ Series - R744

Specifications and capacity tables.

Non-housing compact units for small MT/LT commercial applications.

Cost-effective solution with natural refrigerant. Indoor and outdoor installation.

NEW

Ultra compact CO₂ solution



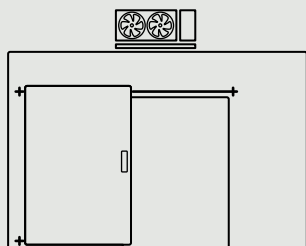
MODEL	NCU-CTC018M05*		NCU-CTC009L05*	
Compressor	2-stage compressor		2-stage compressor	
Refrigerants	R744		R744	
PED category	I		I	
Application	MT		LT	
Power supply	Voltage	V	230 / PE+N (TN-S)	230 / PE+N (TN-S)
	Phase		1	1
	Frequency	Hz	50	50
Evaporation temperature	Min - Max	°C	-20 ~ 0	-35 ~ -20
Ambient temperature	Min - Max	°C	-20 ~ +43	-20 ~ +43
PS line	Suction	bar	80	80
	Liquid	bar	130	130
Dimensions	W x H x D	mm	750 x 590 x 285	750 x 590 x 285
Weight		kg	45	45
Connections	Suction	Inch (mm)	3/8 (9,52)	3/8 (9,52)
	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)
Maximum recommended pipe distance		m	15	15

*Tentative model name. Panasonic reserves right to change it. Available in Autumn 2026

MT	Cooling capacity at				R744		
	ET				-15 °C	-10 °C	-5 °C
NCU-CTC018M05	AT	32 °C	Min - Max	kW	—	—	—
		38 °C	Min - Max	kW	—	—	—
		43 °C	Min - Max	kW	—	—	—
					1,38	1,78	2,02
					1,28	1,48	1,78
					1,20	1,38	1,46

LT	Cooling capacity at				R744		
	ET				-35 °C	-30 °C	-25 °C
NCU-CTC009L05	AT	32 °C	Min - Max	kW	—	—	—
		38 °C	Min - Max	kW	—	—	—
		43 °C	Min - Max	kW	—	—	—
					0,71	0,88	1,04
					0,65	0,85	0,99
					0,49	0,78	0,93

Applications: Small cold rooms / cooling equipment.



Cold rooms.
Conventional usage of condensing units.



Cooling equipment.
Integrated into cooling equipment, cabinets, blast chillers, etc.

EFFICIENT COMPRESSOR BY PANASONIC

AFFORDABLE CO₂ SOLUTION

MINIMAL FOOTPRINT

+ CHECK PAGES 620 - 623 FOR A WIDER SELECTION OF ACCESSORIES



Customisation options for iCO2RE CO₂ range

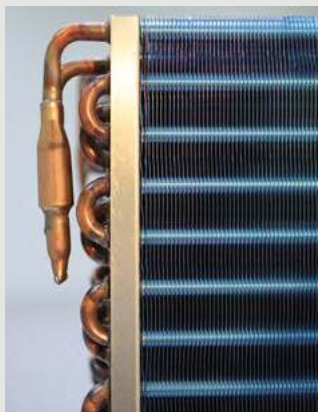
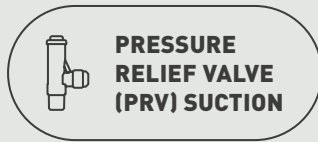
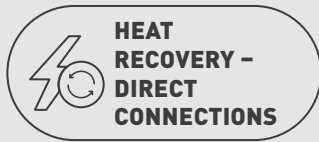
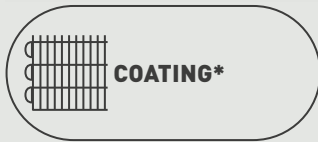
The series offers customisable models that meet customer requirements.



Customisation options for iCO2RE OCU/SCU-CRC Custom-fit CO₂ Series.

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

*Available configurations vary by series.



*Blygold gas-cooler coating.

iCO2RE OCU/SCU-CRC Custom-fit CO₂ Series – CO₂ condensing units

Series	Application	Base model	Customisation options				Model
			Coating (C)	Heat recovery (D)	HP Fan (P)	Suction PRV (S)	
OCU-CRC	MT/LT	OCU-CRC060A08	Base model. No options chosen.				OCU-CRC060A08
			✓	—	—	—	OCU-CRC060A08-C
			—	Not available	✓	—	OCU-CRC060A08-P
			✓	—	✓	—	OCU-CRC060A08-CP
			Base model. No options chosen.				OCU-CRC150A08
			✓	—	—	—	OCU-CRC150A08-C
	MT	OCU-CRC150A08	—	✓	—	—	OCU-CRC150A08-D
			—	—	Not available	✓	OCU-CRC150A08-S
			✓	✓	—	—	OCU-CRC150A08-CD
			✓	—	—	✓	OCU-CRC150A08-CS
			Base model. No options chosen.				OCU-CRC210M08
			✓	Not available	Not available	Not available	OCU-CRC210M08-C
SCU-CRC	MT/LT	SCU-CRC150A08	Base model. No options chosen.				SCU-CRC150A08
			✓	—	Standard	Not available	SCU-CRC150A08-C

For customisation options for iCO2RE NCU-CTC CO₂ Series, please contact an authorised Panasonic dealer.



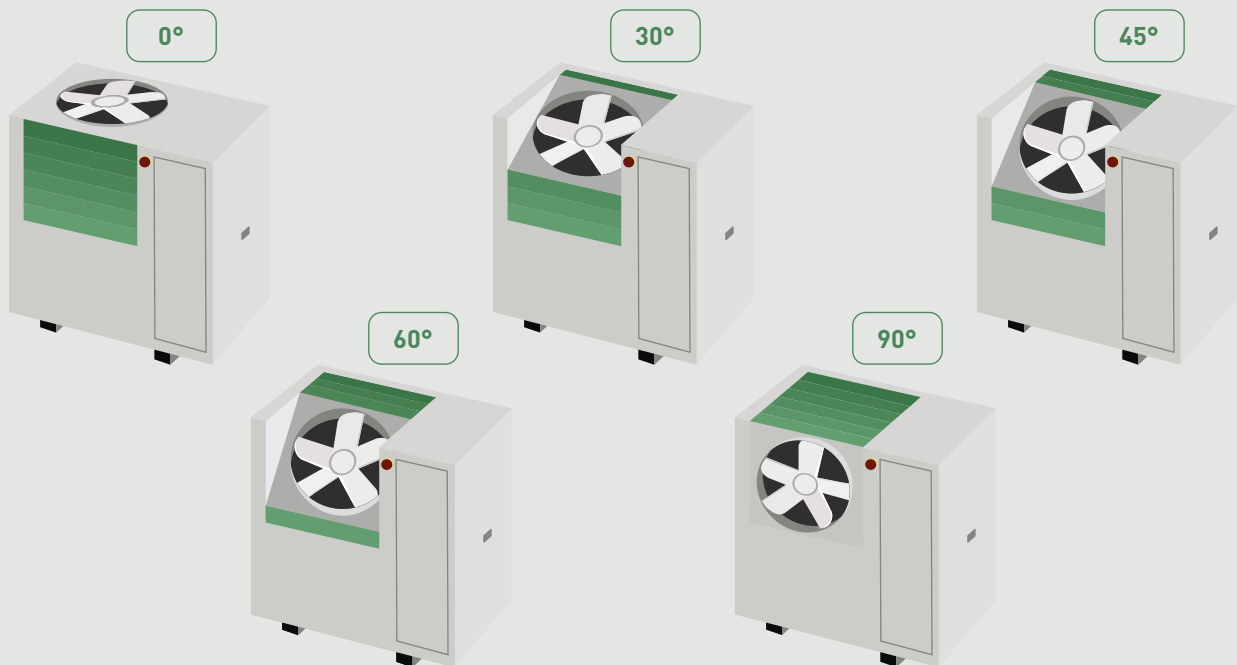
High pressure fan ready solution for iCO2RE SCU-CRC Custom-fit CO₂ Series.

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 customised 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.



REF PRO DESIGNER.

Think beyond unit selection.

An advanced design tool that supports engineers, installers, and technicians in designing advanced systems for commercial refrigeration installations: <http://www.panasonicproclub.com>



Panasonic
REF
PRO DESIGNER



Accessories and control – iCO2RE CO₂ range

Control panels and EEV expansion valves



Control panel (Panel-C) with EEV expansion valve 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-C02-PANEL-C-03	----- KIT-C02-PANEL-C-05	----- KIT-C02-PANEL-C-09	----- KIT-C02-PANEL-C-11	----- KIT-C02-PANEL-C-14	----- KIT-C02-PANEL-C-18	----- KIT-C02-PANEL-C-24	----- KIT-C02-PANEL-C-30

Cold room management via condensing unit interface - Options 1-2-3 + Cold room display - For OCU/SCU-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. Sensors and EEV valve not included.

CZ-C02-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. EEV valve not included.

CZ-C02-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 E3V30CWM00.
----- CZ-C02-EEV-KIT-03	----- CZ-C02-EEV-KIT-05	----- CZ-C02-EEV-KIT-09	----- CZ-C02-EEV-KIT-11	----- CZ-C02-EEV-KIT-14	----- CZ-C02-EEV-KIT-18	----- CZ-C02-EEV-KIT-24	----- CZ-C02-EEV-KIT-30

Cold room display



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

CZ-C02-DISPLAY

CO₂ service checker - For OCU-CR units



CO₂ service checker for commissioning, maintenance and troubleshooting.

PAW-C02-CHECKER

External CO₂ receivers - For OCU/SCU-CRC units



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

CZ-C02-R24L80-H



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

CZ-C02-R24L80-E



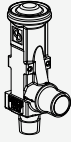
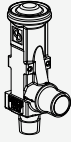
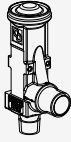
External CO₂ receiver, 24 L 90 bar, Housed (up to 8 kg additional refrigerant volume). Delivered with proper insulation.

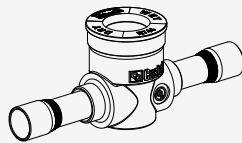
CZ-C02-R24L90-H

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

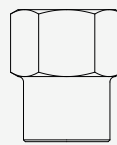
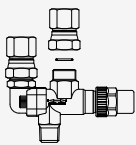
CZ-C02-R24L90-E

Other accessories

 <p>Service adaptor for vacuum and service (HP and LP port).</p> <p>----- SPK-TU125</p>	 <p>Lubrication oil PZ-68S (0,5L).</p> <p>----- CZ-CO2LBROL500</p>	 <p>Pressure release valve (PRV) 3/8" (9,52) NPT x G 1/2" (12,70) Pset= 60,0 bar.</p> <p>----- PAW-CO2-PRV60</p>	 <p>Pressure release valve (PRV) 3/8" (9,52) NPT x G 1/2" (12,70) Pset= 80,0 bar.</p> <p>----- PAW-CO2-PRV80</p>	 <p>Pressure release valve (PRV) 3/8" (9,52) NPT x G 1/2" (12,70) Pset= 120,0 bar.</p> <p>----- PAW-CO2-PRV120</p>
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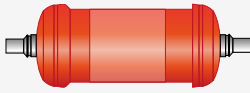


<p>Sight glass, 130 bar, 1/4" (6,35) ODS.</p> <p>----- PAW-SGT-GLASS-1/4</p>	<p>Sight glass, 130 bar, 3/8" (9,52) ODS.</p> <p>----- PAW-SGT-GLASS-3/8</p>	<p>Sight glass, 130 bar, 1/2" (12,70) ODS.</p> <p>----- PAW-SGT-GLASS-1/2</p>	<p>Sight glass, 130 bar, 5/8" (15,88) - 16 mm ODS.</p> <p>----- PAW-SGT-GLASS-5/8</p>	<p>Sight glass, 130 bar, 3/4" (19,05) ODS.</p> <p>----- PAW-SGT-GLASS-3/4</p>
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<p>Changeover valve, 3/8" (9,52) NPT x 3/8" (9,52) NPT.</p> <p>----- PAW-CO2-CHANGE-0</p>	<p>Racord 3/8" (9,52) NPT x 3/8" (9,52) ODS (for K65 pipe connection).</p> <p>----- PAW-CO2-RACORD-3/8</p>	<p>Racord 3/8" (9,52) NPT x 1/2" (12,70) ODS (for K65 pipe connection).</p> <p>----- PAW-CO2-RACORD-1/2</p>	<p>Racord 3/8" (9,52) NPT x 5/8" (15,88) ODS (for K65 pipe connection).</p> <p>----- PAW-CO2-RACORD-5/8</p>	<p>Racord, 3/8" (9,52) NPT x 3/4" (19,05) ODS (for K65 pipe connection).</p> <p>----- PAW-CO2-RACORD-3/4</p>
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Spare parts for service and maintenance

 <p>S-006T suction filter, 3/4" (19,05) (outer Ø welding)*.</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).</p> <p>----- 80203514139000 (1)</p>	 <p>D-155T filter dryer, 5/8" (15,88) (in Ø welding) (type CO-085-S).</p> <p>----- 80203513180000 (2)</p>	 <p>DCY-P8 165 S filter dryer, 5/8" (16,10) (in Ø welding).</p> <p>----- 80203513187000 (3)</p>
 <p>DCY-P8 306 S filter dryer, 3/4" (19,05) (outer Ø welding).</p> <p>----- 80203513188000</p>	 <p>D-152T filter dryer, 1/4" (6,35) (in Ø welding) (type CO-082-S).</p> <p>----- 80203513179000 (4)</p>	 <p>DCY-P8 093S filter dryer, 3/8" (9,60) (in Ø welding).</p> <p>----- 80203513190000</p>	 <p>DCY-P12 092 S filter dryer, 1/4" (6,40) (in Ø welding).</p> <p>----- 80203513186000 (5)</p>

CHECK THE COMPATIBILITY IN ACCESSORIES COMPATIBILITY – iCO2RE CO, RANGE TABLE 

Accessories compatibility – iCO2RE CO₂ range

Accessories (can be ordered separately)

Series	Model	OCU-CR							OCU-CRC			SCU-CRC	NCU	
		OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR1001VF8A	OCU-CR2000VF8A	OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08	NCU-CTC018M05	NCU-CTC009L05
Compatibility: • Optional accessory / •• Mandatory accessory / ••• One pc. always included as standard with the unit.														
Control panels and EEV expansion valves kit														
Panel-C + MPXPRO, stator, probes, etc + EEV E2V03CWAC0.	KIT-C02-PANEL-C-03	•	•	•	•	•	•	•	•	•	•	•	•	•
Panel-C + MPXPRO, stator, probes, etc + EEV E2V05CWAC0.	KIT-C02-PANEL-C-05	•	•	•	•	•	•	•	•	•	•	•	•	•
Panel-C + MPXPRO, stator, probes, etc + EEV E2V09CWAC0.	KIT-C02-PANEL-C-09	•	•	•	•	•	•	•	•	•	•	•	•	•
Panel-C + MPXPRO, stator, probes, etc + EEV E2V11CWAC0.	KIT-C02-PANEL-C-11	•	•	•	•	•	•	•	•	•	•	•	•	•
Panel-C + MPXPRO, stator, probes, etc + EEV E2V14CWAC0.	KIT-C02-PANEL-C-14	•	•	•	•	•	•	•	•	•	•	•	•	•
Panel-C + MPXPRO, stator, probes, etc + EEV E2V18CWAC0.	KIT-C02-PANEL-C-18	•	•	•	•	•	•	•	•	•	•	•	•	•
Panel-C + MPXPRO, stator, probes, etc + EEV E2V24CWAC0.	KIT-C02-PANEL-C-24	•	•	•	•	•	•	•	•	•	•	•	•	•
Panel-C + MPXPRO, stator, probes, etc + EEV E3V30CWM00.	KIT-C02-PANEL-C-30	•	•	•	•	•	•	•	•	•	•	•	•	•
Cold room management via condensing unit interface - Options 1-2-3 + Cold room display														
Option 1														
Room board for EEV control connection box.	CZ-C02-EEV-BOX									•	•	•	•	
Option 2														
Room board for EEV control connection kit.	CZ-C02-EEV-KIT									•	•	•	•	
Option 3														
Room board for EEV control connection kit, with sensors and EEV, E2V03CWAC0.	CZ-C02-EEV-KIT-03									•	•	•	•	
Room board for EEV control connection kit, with sensors and EEV, E2V05CWAC0.	CZ-C02-EEV-KIT-05									•	•	•	•	
Room board for EEV control connection kit, with sensors and EEV, E2V09CWAC0.	CZ-C02-EEV-KIT-09									•	•	•	•	
Room board for EEV control connection kit, with sensors and EEV, E2V11CWAC0.	CZ-C02-EEV-KIT-11									•	•	•	•	
Room board for EEV control connection kit, with sensors and EEV, E2V14CWAC0.	CZ-C02-EEV-KIT-14									•	•	•	•	
Room board for EEV control connection kit, with sensors and EEV, E2V18CWAC0.	CZ-C02-EEV-KIT-18									•	•	•	•	
Room board for EEV control connection kit, with sensors and EEV, E2V24CWAC0.	CZ-C02-EEV-KIT-24									•	•	•	•	
Room board for EEV control connection kit, with sensors and EEV, E3V30CWM00.	CZ-C02-EEV-KIT-30									•	•	•	•	
Cold room display														
Wall-mounted LED display. To be combined with options 1-2-3.	CZ-C02-DISPLAY									•	•	•	•	
Oil														
CO ₂ Lubrication oil PZ-68S (0,5L).	CZ-C02LBROL500	•	•	•	•	•	•	•	•	•	•	•	•	•
Pressure release valves (PRV) for K65														
Pressure release valve (PRV) Pset= 60,0 bar (PRV for suction line all units*). *For OCU-CRC units a suction PRV is available also as customisation option.	PAW-C02-PRV60	•	•	•	•	•	•	•	•	•	•	•	•	•
Pressure release valve (PRV) Pset= 80,0 bar (PRV for suction line all units* or for liquid receiver for OCU-CR400VF8(A), OCU-CR1000VF8(A), OCU-CR1001VF8A and OCU-CR2000VF8A). *For OCU-CRC units a suction PRV is available also as customisation option.	PAW-C02-PRV80	•	•	•	•	•	•	•	•	•	•	•	•	•
Pressure release valve (PRV) Pset= 120,0 bar (PRV for liquid receiver for OCU-CR200VF5A) and all NCU-CTC models.	PAW-C02-PRV120	•											•	•
Changeover valve for dual PRV connection.	PAW-C02-CHANGE-0	•	•	•	•	•	•	•	•	•	•	•	•	•

Accessories (can be ordered separately)

Series	OCU-CR							OCU-CRC			SCU-CRC	NCU	
	OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR1001VF8A	OCU-CR2000VF8A	OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08	NCU-CTC018M05	NCU-CTC009L05

Model

Compatibility: • Optional accessory / •• Mandatory accessory / ••• One pc. always included as standard with the unit.

Records for PRV and for K65 pipe

Record	Model	OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR1001VF8A	OCU-CR2000VF8A	OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08	NCU-CTC018M05	NCU-CTC009L05
Racord 3/8 [9,52] NPT x 3/8 [9,52] ODS (for K65 pipe connection).	PAW-C02-RACORD-3/8	•	•	•	•	•	•	•	•	•	•	•	•	•
Racord 3/8 [9,52] NPT x 1/2 [12,70] ODS (for K65 pipe connection).	PAW-C02-RACORD-1/2	•	•	•	•	•	•	•	•	•	•	•		
Racord 3/8 [9,52] NPT x 5/8 [15,88] ODS (for K65 pipe connection).	PAW-C02-RACORD-5/8		•	•	•	•	•	•	•	•	•	•		
Racord, 3/8 [9,52] NPT x 3/4 [19,05] ODS (for K65 pipe connection).	PAW-C02-RACORD-3/4				•	•	•	•	•	•	•	•		

Sight glass for K65 pipe

Sight glass	Model	OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR1001VF8A	OCU-CR2000VF8A	OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08	NCU-CTC018M05	NCU-CTC009L05
Sight glass, 130 bar, 1/4 [6,35] ODS.	PAW-SGT-GLASS-1/4	•	•	•	•	•	•	•	•	•	•	•	•	•
Sight glass, 130 bar, 3/8 [9,52] ODS.	PAW-SGT-GLASS-3/8	•	•	•	•	•	•	•	•	•	•	•		
Sight glass, 130 bar, 1/2 [12,70] ODS.	PAW-SGT-GLASS-1/2	•	•	•	•	•	•	•	•	•	•	•		
Sight glass, 130 bar, 5/8 [15,88] - 16 mm ODS.	PAW-SGT-GLASS-5/8		•	•	•	•	•	•	•	•	•	•		
Sight glass, 130 bar, 3/4 [19,05] ODS.	PAW-SGT-GLASS-3/4				•	•	•	•	•	•	•	•		

External CO₂ receivers for K65

External CO ₂ receiver	Model	OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR1001VF8A	OCU-CR2000VF8A	OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08	NCU-CTC018M05	NCU-CTC009L05
External CO ₂ receiver, 24 L 80 bar, Housed.	CZ-C02-R24L80-H								•	•		•		
External CO ₂ receiver, 24 L 90 bar, Housed.	CZ-C02-R24L90-H										•			
External CO ₂ receiver, 24 L 80 bar, non-housed.	CZ-C02-R24L80-E								•	•		•		
External CO ₂ receiver, 24 L 90 bar, non-housed.	CZ-C02-R24L90-E										•			

Service accessories

Service accessory	Model	OCU-CR200VF5A	OCU-CR400VF8	OCU-CR400VF8A	OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR1001VF8A	OCU-CR2000VF8A	OCU-CRC060A08	OCU-CRC150A08	OCU-CRC210M08	SCU-CRC150A08	NCU-CTC018M05	NCU-CTC009L05
CO ₂ service checker for commissioning, maintenance and troubleshooting.	PAW-C02-CHECKER	•	•	•	•	•	•	•						
Service pipe adaptor* for vacuum and service (HP and LP port) ¹⁾ . 2 pcs. are recommended for OCU-CR2000VF8A. *OCU/SCU-CRC units include the service connection valves in standard.	SPK-TU125	••	••	••	••	••		••						
Service valve adaptor* ¹⁾ . *OCU/SCU-CRC units include the service connection valves in standard.	80223307145000	•••	•••	•••	•••	•••	•••	•••						
S-006T suction filter, 3/4 [19,05] (outer Ø welding).	80203514142000		•••	•••			•••		••					
S-008T1 suction filter, 3/4 [19,05] (outer Ø welding).	80203514139000 (1)				•••	•••		•••		••	••	••		
D-155T filter dryer, 5/8 [15,88] (in Ø welding) (type CO-085-S).	80203513180000 (2)				•••	•••								
DCY-P8 165 S filter dryer, 5/8 [16,10] (in Ø welding).	80203513187000 (3)				•••	•••	•••							
D-152T filter dryer, 1/4 [6,35] (in Ø welding) (type CO-082-S).	80203513179000 (4)	•••												
DCY-P8 093S filter dryer, 3/8 [9,60] (in Ø welding).	80203513190000		•••	•••										
DCY-P8 306 S filter dryer, 3/4 [19,05] (outer Ø welding).	80203513188000							•••						
DCY-P12 092 S filter dryer, 1/4 [6,40] (in Ø welding).	80203513186000 (5)	•••												

1) After Summer 2026, the service pipe adaptor accessory will be replaced by the service valve adaptor delivered in standard of all OCU-CR units.

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

*Accessories compatibility data for OCU-CR1001VF8A, NCU-CTC018M05 and NCU-CTC009L05 is tentative.

CHECK THE FULL DESCRIPTION IN ACCESSORIES AND CONTROL – IC02RE CO₂ RANGE TABLE 

iCOOL A2L and HFC/HFO range – Inverter solutions for today and tomorrow

iCOOL

INVERTER

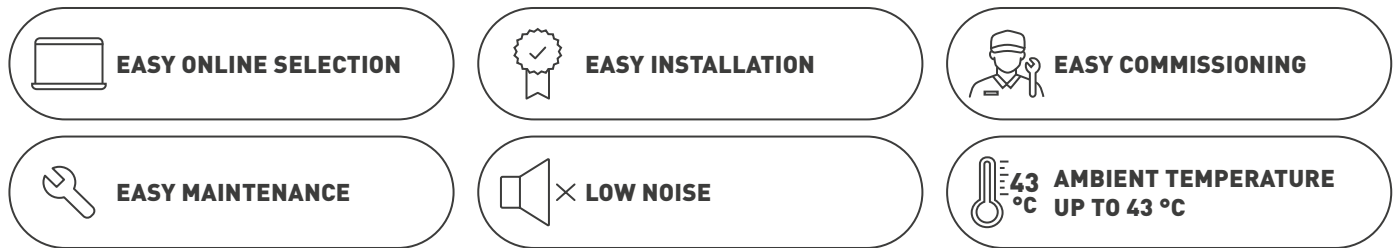
Panasonic's iCOOL range is built on flexibility and performance. iCOOL range units operate with HFO and HFC refrigerants – including next-generation A2L options with low Global Warming Potential (GWP) – providing a reliable bridge between today's needs and tomorrow's environmental goals.



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.



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
- 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 customised 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 - A2L and HFC/HFO condensing units



Inverter technology at the cost of ON / OFF.



iCOOL SE Series - A2L and HFC/HFO condensing units - 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



NEW! iCOOL SE A2L-ready - OCU-LRE Series.

Upgrade of the entire existing range of iCOOL SE HFC - OCU-KRE Series to meet the A2L requirements.

- 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.

*Available in Summer 2026.

A2L is lower flammability and lower toxicity



A2L R454C A2L R455A R448A R449A R134a R513A

NEW! iCOOL SE Series – OCU-LRE/LRC – A2L-ready MT models - R454C / R455A / R448A / R449A / R134a / R513A

Specifications and capacity tables.



NEW



Model		OCU-LRE025M05*	OCU-LRE045M05*	OCU-LRE070M05*	OCU-LRC100M08	
Compressor		Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	
Compatible refrigerants		R454C, R455A, R448A, R449A, R134a, R513A	R454C, R455A, R448A, R449A, R134a, R513A	R454C, R455A, R448A, R449A, R134a, R513A	R454C, R455A, R448A, R449A, R134a, R513A	
PED category		I	I	I	III	
Application		MT	MT	MT	MT	
Cooling capacity at ET -35 °C AT 32 °C, R454C	Min ~ Max	kW	—	—	—	
Cooling capacity at ET -10 °C AT 32 °C, R454C	Min ~ Max	kW	0,5 - 2,4	1,2 - 4,2	1,9 - 5,3	
SEPR freezing at ET -35 °C AT 32 °C		TBC	TBC	TBC	TBC	
SEPR cooling at ET -10 °C AT 32 °C		TBC	TBC	TBC	TBC	
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a	TBC	TBC	TBC	
Annual electricity consumption at ET -10 °C AT 32 °C		kWh/a	TBC	TBC	TBC	
COP at ET -35°C, AT 32 °C		TBC	TBC	TBC	TBC	
COP at ET -10°C, AT 32 °C		TBC	TBC	TBC	TBC	
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	75	75	85	170	
Sound level at 10 m	dB(A)	42,5	42,5	42,5	39,0	
Condenser	Fans x diameter	mm	1x450	1x450	1x500	
	Air flow	m³/h	3600	3600	5200	
	Fan power supply	V / ph / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	
	Fan power consumption	W	170	170	230	
Nominal fan current	A	1,4	1,4	2,1	1,2	
Compressor	Model	C-6RVN63L0B	C-7RVN113L0B	C-7RVN153L0B	C-8RZ420L4AAL	
	Volumetric flow	m³/h	0,6 - 4,1	1,25 - 7,5	1,7 - 10,4	
	Rotation range	rps	30 - 90	30 - 90	30 - 90	
	Current	Full load amperage	A	4	7,6	9,4
		Peak current limit / Locked rotor amperage	A	15 / —	25 / —	25 / —
	Oil type		FV68S	FV68S	FV68S	FV68S (PVE)
Oil compressor charge	dm³	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	
	Liquid	Inch	3/8	3/8	3/8	
Liquid receiver	dm³	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	
	Recommended minimum cable cross-section	mm²	3x2,5	3x2,5	3x2,5	
	Recommended minimum protection		C16	C20	C20	
Maximum recommended pipe distance	m	30	30	30	40	
Maximum height distance	Evaporator above	m	7	7	7	
	Evaporator below	m	7	7	7	
Which pipes needs to be insulated	Suction / liquid / both		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 - 5	
Ambient temperature	Min ~ Max	°C	-20 - 43	-20 - 43	-20 - 43	

*Available in Summer 2026.

+ CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES



NEW! iCOOL SE Series – OCU-LRE – A2L-ready LT models - R454C / R455A / R448A / R449A

Specifications and capacity tables.

NEW

A2L
READY



Model			OCU-LRE012L05*	OCU-LRE022L05*	OCU-LRE030L05*	
Compressor			Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	
Compatible refrigerants			R454C, R455A, R448A, R449A	R454C, R455A, R448A, R449A	R454C, R455A, R448A, R449A	
PED category			I	I	I	
Application			LT	LT	LT	
Cooling capacity at ET -35 °C AT 32 °C, R454C	Min – Max	kW	0,1 - 0,7	0,4 - 1,5	0,6 - 1,8	
Cooling capacity at ET -10 °C AT 32 °C, R454C	Min – Max	kW	—	—	—	
SEPR freezing at ET -35 °C AT 32 °C			TBC	TBC	TBC	
SEPR cooling at ET -10 °C AT 32 °C			TBC	TBC	TBC	
Annual electricity consumption at ET -35 °C AT 32 °C	kWh/a		TBC	TBC	TBC	
Annual electricity consumption at ET -10 °C AT 32 °C	kWh/a		TBC	TBC	TBC	
COP at ET -35°C, AT 32 °C			TBC	TBC	TBC	
COP at ET -10°C, AT 32 °C			TBC	TBC	TBC	
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	1000 x 605 x 450	
Weight	kg		75	75	75	
Sound level at 10 m	dB(A)		42,5	42,5	42,5	
Condenser	Fans x diameter	mm	1x450	1x450	1x450	
	Air flow	m ³ /h	3600	3600	3600	
	Fan power supply	V / ph / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	
	Fan power consumption	W	170	170	170	
	Nominal fan current	A	1,4	1,4	1,4	
Compressor	Model		C-6RVN63L0B	C-7RVN113L0B	C-7RVN153L0B	
	Volumetric flow	m ³ /h	0,6 - 4,1	1,25 - 7,5	1,7 - 10,4	
	Rotation range	rps	30 - 90	30 - 90	30 - 90	
	Current	Full load amperage	A	3,6	7,1	9,6
		Peak current limit / Locked rotor amperage	A	15 / —	25 / —	25 / —
	Oil type		FV68S	FV68S	FV68S	
	Oil compressor charge	dm ³	0,6	0,7	0,7	
Crankcase heater power consumption	W	35	35	35		
Connections	Suction	Inch	1/2	5/8	3/4	
	Liquid	Inch	3/8	3/8	3/8	
Liquid receiver	dm ³		3,9	3,9	3,9	
CU power supply	Voltage	V / ph / Hz	220 - 240 / 1 / 50	220 - 240 / 1 / 50	220 - 240 / 1 / 50	
	Recommended minimum cable cross-section	mm ²	3x2,5	3x2,5	3x2,5	
	Recommended minimum protection		C16	C20	C20	
Maximum recommended pipe distance	m		20	20	20	
Maximum height distance	Evaporator above	m	7	7	7	
	Evaporator below	m	7	7	7	
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	
Recommended insulation thickness	mm		19	19	19	
Maximum quantity of evaporators connected	Qty.		3	3	3	
Evaporation temperature	Min – Max	°C	-35 – -15	-35 – -15	-35 – -15	
Ambient temperature	Min – Max	°C	-20 – 43	-20 – 43	-20 – 43	

*Available in Autumn 2026.

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES



iCOOL SE Series – OCU-LRE/LRC – A2L ready models - R454C / R455A / R448A / R449A / R134a / R513A

Specifications and capacity tables.

A2L
READY

MT	Cooling capacity at			R454C			R455A			R449A/R448A			R134a/R513A			
	ET			-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
OCU-LRE025M05	AT	32 °C	Min - Max	kW	0,4-2	0,5-2,4	0,6-2,8	TBC	TBC	TBC	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	0,4-1,8	0,5-2,1	0,6-2,6	TBC	TBC	TBC	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	0,3-1,6	0,4-1,9	0,5-2,4	TBC	TBC	TBC	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			R454C			R455A			R449A/R448A			R134a/R513A			
	ET			-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
OCU-LRE045M05	AT	32 °C	Min - Max	kW	1,0-3,6	1,2-4,2	1,4-5	1,1-3,7	1,3-4,4	1,6-5,2	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	0,9-3,2	1,1-3,9	1,3-4,6	1,0-3,4	1,3-4,0	1,5-4,7	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	0,8-3,0	1,0-3,6	1,2-4,3	1,0-3,0	1,2-3,6	1,4-4,3	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			R454C			R455A			R449A/R448A			R134a/R513A			
	ET			-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C	
OCU-LRE070M05	AT	32 °C	Min - Max	kW	1,6-4,4	1,9-5,3	2,3-6,3	TBC	TBC	TBC	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	1,4-4,0	1,7-4,8	2,1-5,7	TBC	TBC	TBC	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	1,3-3,7	1,6-4,5	2,0-5,3	TBC	TBC	TBC	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			R454C			R455A			R449A/R448A			R134a/R513A			
	ET			-15 °C	-10 °C	-5 °C	-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	1,4-6,4	1,7-7,8	2,0-9,3	1,5-7,5	1,8-8,8	2,2-10,3	1,6-7,7	2,0-9,3	2,4-11,1	1,0-4,8	1,2-5,9	1,5-7,1
		38 °C	Min - Max	kW	1,3-6,0	1,6-7,3	1,9-8,7	1,5-6,8	1,7-8,1	2,1-9,5	1,5-7,1	1,9-8,6	2,3-10,3	0,9-4,4	1,1-5,4	1,4-6,6
		43 °C	Min - Max	kW	1,2-5,7	1,5-6,8	1,8-8,0	1,4-6,2	1,6-7,4	1,9-8,8	1,4-6,6	1,8-8,0	2,1-9,6	0,8-4,1	1,0-5,0	1,3-6,1

LT	Cooling capacity at			R454C			R455A			R449A/R448A			
	ET			-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C	
OCU-LRE012L05	AT	32 °C	Min - Max	kW	0,1-0,7	0,2-1,0	0,3-1,3	TBC	TBC	TBC	0,3-1,0	0,4-1,2	0,5-1,5
		38 °C	Min - Max	kW	0,1-0,6	0,2-0,9	0,2-1,2	TBC	TBC	TBC	0,3-0,9	0,3-1,1	0,4-1,4
		43 °C	Min - Max	kW	0,1-0,6	0,2-0,8	0,2-1,1	TBC	TBC	TBC	0,2-0,8	0,3-1,0	0,4-1,3

LT	Cooling capacity at			R454C			R455A			R449A/R448A			
	ET			-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C	
OCU-LRE022L05	AT	32 °C	Min - Max	kW	0,4-1,5	0,5-1,9	0,7-2,4	0,4-1,5	0,5-2,0	0,7-2,5	0,6-1,8	0,7-2,2	0,9-2,8
		38 °C	Min - Max	kW	0,3-1,3	0,4-1,7	0,6-2,2	0,4-1,4	0,5-1,9	0,7-2,3	0,5-1,6	0,7-2,0	0,8-2,5
		43 °C	Min - Max	kW	0,3-1,2	0,4-1,6	0,5-2,0	0,4-1,3	0,5-1,7	0,6-2,1	0,5-1,5	0,6-1,9	0,8-2,3

LT	Cooling capacity at			R454C			R455A			R449A/R448A			
	ET			-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C	-35 °C	-30 °C	-25 °C	
OCU-LRE030L05	AT	32 °C	Min - Max	kW	0,6-1,8	0,8-2,3	1,0-2,9	TBC	TBC	TBC	0,8-2,4	1,0-2,9	1,3-3,6
		38 °C	Min - Max	kW	0,6-1,6	0,8-2,1	0,9-2,6	TBC	TBC	TBC	0,7-2,2	0,9-2,7	1,2-3,3
		43 °C	Min - Max	kW	0,5-1,5	0,7-1,9	0,9-2,4	TBC	TBC	TBC	0,7-2,0	0,9-2,4	1,1-3,0

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iCOOL SE Series – OCU-KRE – HFC/HFO models - R448A / R449A / R134a / R513A

Specifications and capacity tables.



Model	OCU-	KRE025M05	KRE045M05	KRE070M05	KRE012L05	KRE022L05	KRE030L05
Compressor		Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	Single Inverter compressor
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A	R448A, R449A	R448A, R449A
PED category		I	I	I	I	I	I
Application		MT	MT	MT	LT	LT	LT
Cooling capacity at ET -35 °C AT 32 °C	Min - Max	kW	—	—	0,3 - 1,0	0,6 - 1,8	0,8 - 2,4
Cooling capacity at ET -10 °C AT 32 °C	Min - Max	kW	0,8 - 2,6	1,6 - 4,6	2,3 - 6,6	—	—
SEPR freezing at ET -35 °C AT 32 °C (R448A)		—	—	—	—	—	2,14
SEPR cooling at ET -10 °C AT 32 °C (R448A-OCU-K, R455A-OCU-L)		—	—	3,80	—	—	—
Annual electricity consumption at ET -35 °C AT 32 °C (R448A)	kWh/a	—	—	—	—	—	8475
Annual electricity consumption at ET -10 °C AT 32 °C (R448A-OCU-K, R455A-OCU-L)	kWh/a	—	—	10749	—	—	—
COP at ET -35°C, AT 32 °C (R448A)		—	—	—	0,95	0,98	—
COP at ET -10°C, AT 32 °C (R448A)		1,88	1,89	—	—	—	—
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	5,5	9,5	12,4
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A	7,9	13,5	17,4	7,2	12,7	17
Maximum power consumption	kW	1,6	2,8	3,6	1,4	2,6	3,6
Dimensions W x H x D	mm	1000x605x450	1000x605x450	1100x805x450	1000x605x450	1000x605x450	1000x605x450
Weight	kg	70	70	80	70	70	80
Sound level at 10 m	dB(A)	42,5	42,5	42,5	42,5	42,5	42,5
Fans x diameter	mm	1x450	1x450	1x500	1x450	1x450	1x450
Air flow	m ³ /h	3600	3600	5200	3600	3600	3600
Fan power supply	V / ph / Hz	220 - 240 / 1/50	220 - 240 / 1/50	220 - 240 / 1/50	220 - 240 / 1/50	220 - 240 / 1/50	220 - 240 / 1/50
Fan power consumption	W	170	170	230	170	170	170
Nominal fan current	A	1,4	1,4	2,1	1,4	1,4	1,4
Model		C-6RVN63LOB	C-7RVN113LOB	C-7RVN153LOB	C-6RVN63LOB	C-7RVN113LOB	C-7RVN153LOB
Volumetric flow	m ³ /h	0,6 - 4,1	1,25 - 7,5	1,7 - 10,4	0,6 - 4,1	1,25 - 7,5	1,7 - 10,4
Rotation range	rps	30 - 90	30 - 90	30 - 90	30 - 90	30 - 90	30 - 90
Full load amperage	A	4	7,6	9,4	3,6	7,1	9,6
Current	Peak current limit / Locked rotor amperage	A	15 / —	25 / —	25 / —	15 / —	25 / —
Oil type		FV68S	FV68S	FV68S	FV68S	FV68S	FV68S
Oil compressor charge	dm ³	0,6	0,7	0,7	0,6	0,7	0,7
Crankcase heater power consumption	W	35	35	35	35	35	35
Suction	Inch	1/2	5/8	3/4	1/2	5/8	3/4
Liquid	Inch	3/8	3/8	3/8	3/8	3/8	3/8
Liquid receiver	dm ³	3,9	3,9	5,3	3,9	3,9	3,9
Voltage	V / ph / Hz	220 - 240 / 1/50	220 - 240 / 1/50	220 - 240 / 1/50	220 - 240 / 1/50	220 - 240 / 1/50	220 - 240 / 1/50
Recommended minimum cable cross-section	mm ²	3x2,5	3x2,5	3x2,5	3x2,5	3x2,5	3x2,5
Recommended minimum protection		C16	C20	C20	C16	C20	C20
Maximum recommended pipe distance	m	30	30	30	20	20	20
Evaporator above	m	7	7	7	7	7	7
Evaporator below	m	7	7	7	7	7	7
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.	3	3	3	3	3	3
Evaporation temperature	Min - Max	°C	-15 ~ 0	-15 ~ 0	-15 ~ 0	-35 ~ -15	-35 ~ -15
Ambient temperature	Min - Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43	-20 ~ 43

 CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES



iCOOL SE Series – OCU-KRE – HFC/HFO models - R448A / R449A / R134a / R513A

Specifications and capacity tables.

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

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

iCOOL OCU/SCU Series - HFC/HFO condensing units



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 - HFC/HFO condensing units.

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 climate-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

iCOOL OCU Series - R448A / R449A / R134a / R513A

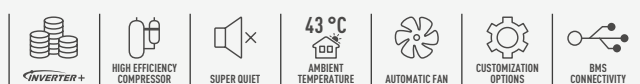
Specifications and capacity tables.



MODEL		OCU-KRC045M08	OCU-KRC070M08	OCU-KRC100M08	OCU-KSC120M08		
Compressor		Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	Single Inverter compressor		
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A		
PED category		I	II	II	II		
Application		MT	MT	MT	MT		
Cooling capacity at ET -35 °C AT 32 °C	Min ~ Max	kW	—	—	—		
Cooling capacity at ET -10 °C AT 32 °C	Min ~ Max	kW	0,8 - 4,7	1,2 - 7,2	2,2 - 9,4		
SEPR freezing at ET -35 °C AT 32 °C		—	—	—	—		
SEPR cooling at ET -10 °C AT 32 °C		3,28	3,60	4,29	3,48		
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a	—	—	—		
Annual electricity consumption at ET -10 °C AT 32 °C		kWh/a	9070	12324	13347		
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		
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)		A	7,2	10,1	9,8		
Maximum power consumption		kW	3,7	5,6	5,4		
Dimensions WxHxD		mm	1106 x 559 x 461	1140 x 758 x 439	1280 x 963 x 439		
Weight		kg	94	110	140		
Sound level at 10 m		dB(A)	39,0	40,0	41,0		
Condenser	Fans x diameter	mm	1x450	1x630	1x630		
	Air flow	m³/h	3850	6150	6150		
	Fan static pressure ¹⁾	Pa	120	160	160		
	Fan power supply	V / ph / Hz	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50		
	Fan power consumption	W	170	220	220		
	Nominal fan current	A	1,4	1,2	1,2		
	Model		C-7RVN113L0A	C-7RZ320L4ABL	C-8RZ420L4AAL	C-SBS180H00B	
Volumetric flow	m³/h	1,25 - 7,5	1,7 - 10,4	3,0 - 13,6	5,8 - 19,2		
Rotation range	rps	15 - 90	15 - 90	20 - 90	32 - 100		
Compressor	Current	Full load amperage	A	5,8	8,7	8,8	15,8
		Peak current limit / Locked rotor amperage	A	17,8 / —	19,2 / —	31,9 / —	40 / —
	Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	
Crankcase heater power consumption	W	35	40	35	70		
Oil charge	dm³	0,7 + 0,4	0,7 + 0,4	1,35 + 0,4	2,0 + 0,4		
Connections	Suction	Inch	5/8	3/4	7/8		
	Liquid	Inch	3/8	3/8	1/2		
Liquid receiver	dm³	3,9	7,1	10,0	10		
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	5x2,5	5x2,5	5x2,5		
	Recommended minimum protection		C16	C16	C20		
Maximum recommended pipe distance	m	40	40	40	40		
Maximum height distance	Evaporator above	m	12	12	12		
	Evaporator below	m	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	7		
Evaporation temperature	Min ~ Max	°C	-15 ~ 5	-15 ~ 5	-15 ~ 10		
Ambient temperature	Min ~ Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43		

1) Pressure in the unit with "P" high-pressure fan customisation option.

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES



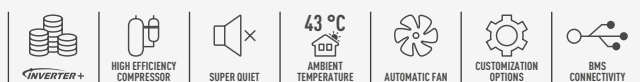
iCOOL OCU Series - R448A / R449A / R134a / R513A

Specifications and capacity tables.



MODEL			OCU-KSC150M08	OCU-KSC160M08	OCU-KSC190M08	
Compressor			Single Inverter compressor	Tandem compressor Inverter + ON / OFF	Tandem compressor Inverter + ON / OFF	
Compatible refrigerants			R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	
PED category			II	II	II	
Application			MT	MT	MT	
Cooling capacity at ET -35 °C AT 32 °C	Min - Max	kW	—	—	—	
Cooling capacity at ET -10 °C AT 32 °C	Min - Max	kW	4,2 - 14,7	2,9 - 16,3	2,9 - 18,7	
SEPR freezing at ET -35 °C AT 32 °C			—	—	—	
SEPR cooling at ET -10 °C AT 32 °C			3,87	3,61	3,39	
Annual electricity consumption at ET -35 °C AT 32 °C	kWh/a		—	—	—	
Annual electricity consumption at ET -10 °C AT 32 °C	kWh/a		23139	27903	33985	
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz	A		15,2	21,3	26,3	
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A		22,6	27,9	32,3	
Maximum power consumption	kW		10,1	14	17,1	
Dimensions W x H x D	mm		1322 x 1493 x 475	1521 x 1493 x 475	1521 x 1493 x 475	
Weight	kg		231	283	285	
Sound level at 10 m	dB(A)		44,0	44,0	44,0	
Condenser	Fans x diameter	mm	2x630	2x630	2x630	
	Air flow	m ³ /h	11150	11150	11150	
	Fan static pressure ¹⁾	Pa	160	N/A	N/A	
	Fan power supply	V / ph / Hz	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50	
	Fan power consumption	W	2x230	2x230	2x230	
	Nominal fan current	A	2x1	2x1	2x1	
Compressor	Model		C-SBVN373L0B	C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G	
	Volumetric flow	m ³ /h	9,2 - 24,6	5,8 - 17,4 / 11,6	5,8 - 17,4 / 14,7	
	Rotation range	rps	30 - 80	32 - 90	32 - 90	
	Current	Full load amperage	A	16,9	14,7/8,0	15,2/11,9
		Peak current limit / Locked rotor amperage	A	46 / —	34 / 48	34 / 66
	Oil type		FV68S (PVE)	FV68S (PVE)	FV68S (PVE)	
Crankcase heater power consumption	W	90	2x70	2x70		
Oil charge	dm ³		2,0 + 0,6	2,0 + 1,7 + 2x0,4	2,0 + 1,7 + 2x0,4	
Connections	Suction	Inch	1 1/8	1 1/8	1 1/8	
	Liquid	Inch	5/8	5/8	5/8	
Liquid receiver	dm ³		15	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	mm ²	5x6,0	5x6,0	5x10,0	
	Recommended minimum protection		C32	C32	C40	
Maximum recommended pipe distance	m		50	50	50	
Maximum height distance	Evaporator above	m	12	12	12	
	Evaporator below	m	12	12	12	
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	
Recommended insulation thickness	mm		13	13	13	
Maximum quantity of evaporators connected	Qty.		7	10	10	
Evaporation temperature	Min - Max	°C	-15 - 10	-15 - 10	-15 - 10	
Ambient temperature	Min - Max	°C	-20 - 43	-20 - 43	-20 - 43	

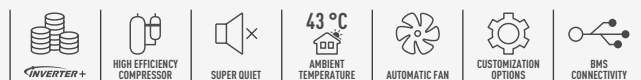
1) Pressure in the unit with "P" high-pressure fan customisation option.

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES




MODEL		OCU-KSC240M08	OCU-KSC280M08	OCU-KSC400M08	OCU-KSC420M08	
Compressor		Tandem compressor Inverter + ON / OFF		Tandem compressor Inverter + ON / OFF		
Compatible refrigerants		R448A, R449A, R134a, R513A		R448A, R449A, R134a, R513A		
PED category		II		II		
Application		MT		MT		
Cooling capacity at ET -35 °C AT 32 °C	Min ~ Max	kW		—		
Cooling capacity at ET -10 °C AT 32 °C	Min ~ Max	kW		4,3 - 24,2 4,3 - 27,5 6,5 - 39,7 6,5 - 42,2		
SEPR freezing at ET -35 °C AT 32 °C		—		—		
SEPR cooling at ET -10 °C AT 32 °C		4,31		4,27 3,61 3,52		
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a		—		
Annual electricity consumption at ET -10 °C AT 32 °C		kWh/a		34316 39329 67049 73046		
Nominal operating current at ET -10 °C MT / -30 °C LT AT 32 °C and 230 - 400 V 50 Hz	A	25,9		30,5 40,0 43,9		
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)	A	34,8		40,4 53,8 57,3		
Maximum power consumption	kW	17,4		20,9 28,5 31,4		
Dimensions	W x H x D	mm		1528 x 1488 x 879 1528 x 1488 x 879 1670 x 1695 x 1090 1670 x 1695 x 1090		
Weight	kg	397		426 520 520		
Sound level at 10 m	dB(A)	44,0		44,0 43,0 43,0		
Condenser	Fans x diameter	mm		2x630 2x630 1x800 1x800		
	Air flow	m³/h		12600 12600 21000 21000		
	Fan static pressure	Pa		N/A N/A 160 160		
	Fan power supply	V / ph / Hz		200 - 240/1/50 200 - 277/1/50 380 - 400/3/50 380 - 400/3/50		
	Fan power consumption	W		2x230 2x230 1950 1950		
	Nominal fan current	A		2x1 2x1 2,8 2,8		
Compressor	Model	C-SBVN373L0B/ C-SBN453H8G		C-SBVN373L0B/ C-SCN603H8T 4CC149NA04/ C-SCN753H8T 4CC149NA04/ C-SCN903H8T		
	Volumetric flow	m³/h		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		31 - 80 31 - 80 21 - 75 21 - 75		
	Current	Full load amperage	A		17,2/11,9 18,4/16,0 26,0/19,4 25,8/23,2	
		Peak current limit / Locked rotor amperage	A		46/66 46/80 52/96 52/96	
	Oil type	FV68S (PVE)		FV68S (PVE) FV68S (PVE) FV68S (PVE)		
Crankcase heater power consumption	W		40 2x90 2x90 2x90			
Oil charge	dm³	2,0+1,7+2x0,6		2,0+2,8+2x0,6 2x2,8+2,0 2x2,8+2,0		
Connections	Suction	Inch		1 3/8 1 3/8 1 5/8 1 5/8		
	Liquid	Inch		7/8 7/8 7/8 7/8		
Liquid receiver	dm³	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)		
	Recommended minimum cable cross-section	mm²		5x10,0 5x10,0 5x16,0 5x16,0		
	Recommended minimum protection	C40		C50 C63 C63		
Maximum recommended pipe distance	m	70		70 70 70		
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 Suction		
Recommended insulation thickness	mm	13		13 13 13		
Maximum quantity of evaporators connected	Qty.	10		10 20 20		
Evaporation temperature	Min ~ Max	°C		-15 ~ 10 -15 ~ 10 -15 ~ 10 -15 ~ 10		
Ambient temperature	Min ~ Max	°C		-20 ~ 43 -20 ~ 43 -20 ~ 43 -20 ~ 43		

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES



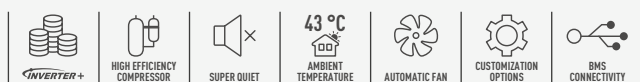
iCOOL OCU Series - R448A / R449A

Specifications and capacity tables.



MODEL		OCU-KRC035L08	OCU-KRC050L08	OCU-KSC090L08	OCU-KSC140L08	
Compressor		Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	Tandem compressor Inverter + ON / OFF	
Compatible refrigerants		R448A, R449A	R448A, R449A	R448A, R449A	R448A, R449A	
PED category		I	II	II	II	
Application		LT	LT	LT	LT	
Cooling capacity at ET -35 °C AT 32 °C	Min - Max	kW	0,4 - 2,8	1,2 - 4,4	1,7 - 6,8	
Cooling capacity at ET -10 °C AT 32 °C	Min - Max	kW	—	—	—	
SEPR freezing at ET -35 °C AT 32 °C			1,76	1,83	1,65	
SEPR cooling at ET -10 °C AT 32 °C			—	—	—	
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a	10630	18315	33998	
Annual electricity consumption at ET -10 °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	5,9	10,1	20,7	
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)		A	7,9	12,8	29,9	
Maximum power consumption		kW	4,1	7,2	13,6	
Dimensions W x H x D		mm	1105 x 559 x 466	1289 x 758 x 439	1322 x 1493 x 475	
Weight		kg	96	132	286	
Sound level at 10 m		dB(A)	39,0	44,0	44,0	
Condenser	Fans x diameter	mm	1x450	1x630	2x630	
	Air flow	m ³ /h	3850	6150	11150	
	Fan static pressure ¹⁾	Pa	120	160	N/A	
	Fan power supply	V / ph / Hz	200 - 277 / 1 / 50	200 - 277 / 1 / 50	200 - 277 / 1 / 50	
	Fan power consumption	W	170	220	2x230	
	Nominal fan current	A	1,4	1,2	2x1	
Compressor	Model		C-7RZ320L4ABL	C-9RZ580L4AAL	ACC144NA03	
	Volumetric flow	m ³ /h	1,7 - 10,4	5,2 - 18,7	10,0 - 37,6	
	Rotation range	rps	15 - 90	25 - 90	25 - 72	
	Current	Full load amperage	A	6,4	10	22,9
		Peak current limit / Locked rotor amperage	A	19,2 / —	28,4 / —	46 / —
	Oil type		FV68S (PVE)	FV68S (PVE)	FV32S (PVE)	
Crankcase heater power consumption	W	35	35	90		
Oil charge	dm ³	0,7 + 0,4	2,1 + 0,4	2,5 + 0,4		
Connections	Suction	Inch	7/8	7/8	1 1/8	
	Liquid	Inch	3/8	3/8	5/8	
Liquid receiver	dm ³	3,9	7,1	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	mm ²	5x2,5	5x2,5	5x6,0	
	Recommended minimum protection		C16	C20	C32	
Maximum recommended pipe distance	m	40	40	40		
Maximum height distance	Evaporator above	m	12	12	12	
	Evaporator below	m	12	12	12	
Which pipes needs to be insulated	Suction / liquid / both		Suction	Suction	Suction	
Recommended insulation thickness	mm	19	19	19		
Maximum quantity of evaporators connected	Qty.	5	5	5		
Evaporation temperature	Min - Max	°C	-35 ~ -15	-35 ~ -15	-35 ~ -10	
Ambient temperature	Min - Max	°C	-20 ~ 43	-20 ~ 43	-20 ~ 43	

1) Pressure in the unit with "P" high-pressure fan customisation option.

CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES


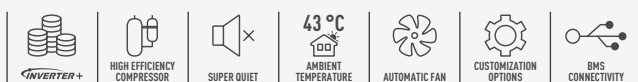
iCOOL SCU Series - R448A / R449A / R134a / R513A

Specifications and capacity tables.



MODEL		SCU-KSC160M08	SCU-KSC190M08	SCU-KSC090L08	
Compressor		Tandem compressor Inverter + ON / OFF	Tandem compressor Inverter + ON / OFF	Single Inverter compressor	
Compatible refrigerants		R448A, R449A, R134a, R513A	R448A, R449A, R134a, R513A	R448A, R449A	
PED category		II	II	II	
Application		MT	MT	LT	
Cooling capacity at ET -35 °C AT 32 °C	Min ~ Max	kW	—	1,7 - 6,8	
Cooling capacity at ET -10 °C AT 32 °C	Min ~ Max	kW	2,9 - 16,3	2,9 - 18,7	
SEPR freezing at ET -35 °C AT 32 °C		—	—	—	
SEPR cooling at ET -10 °C AT 32 °C		3,14	3,19	—	
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a	—	—	
Annual electricity consumption at ET -10 °C AT 32 °C		kWh/a	31411	35312	
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	
Maximum operating current (in the most loaded phase at 230 - 400 V 50 Hz)		A	30,5	34,9	
Maximum power consumption		kW	14,6	17,7	
Dimensions W x H x D		mm	1327 x 1558 x 745	1327 x 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	m ³ /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 current	A	4,6	4,6	
Compressor	Model		C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G	
	Volumetric flow	m ³ /h	5,8 - 17,4 / 11,6	5,8 - 17,4 / 14,7	
	Rotation range	rps	32 - 90	32 - 90	
	Current	Full load amperage	A	14,7 / 8,0	15,2 / 11,9
		Peak current limit / Locked rotor amperage	A	34 / 48	34 / 66
	Oil type		FV68S (PVE)	FV68S (PVE)	FV32S (PVE)
Crankcase heater power consumption	W	2x70	2x70	90	
Oil charge	dm ³	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	dm ³	15	15	15	
CU power supply	Voltage	V / Hz	3x400/50 PE+N (TN-S)	3x400/50 PE+N (TN-S)	
	Recommended minimum cable cross-section	mm ²	5x6,0	5x10,0	
	Recommended minimum protection		C32	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	

 CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES



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

Specifications and capacity tables.

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
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
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
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
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
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
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
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
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
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
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
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

REF PRO DESIGNER.

Think beyond unit selection.

An advanced design tool that supports engineers, installers, and technicians in designing advanced systems for commercial refrigeration installations:
<http://www.panasonicproclub.com>



iCOOL LCU/WCU Series - HFC/HFO compressor base/condensing units



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

 **NOISE REDUCTION (INDOOR INSTALLATION)**

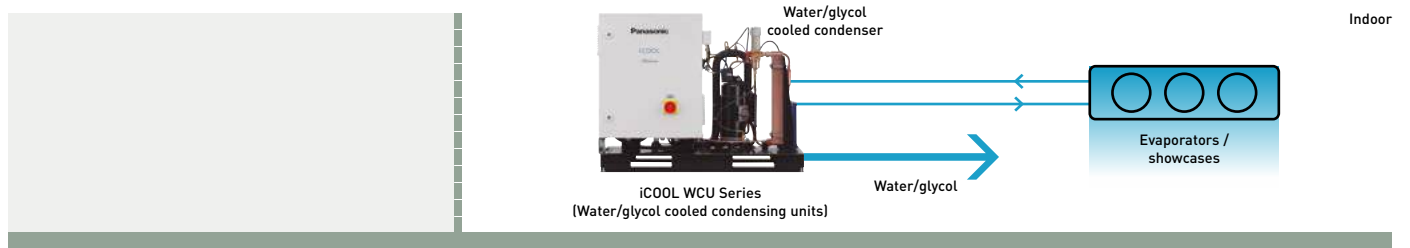
 **NO SPACE POLLUTION (CITY-CENTRES FOCUS)**

 **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.



MODEL			LCU-KRC045M08	LCU-KRC070M08	LCU-KSC100M08	LCU-KSC160M08	LCU-KSC190M08	
Compressor			Single compressor	Single compressor	Single compressor	Tandem compressor Inverter + ON / OFF	Tandem compressor Inverter + ON / OFF	
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			MT	MT	MT	MT	MT	
Cooling capacity at ET -35 °C CT 45 °C Min - Max			kW	—	—	—	—	
Cooling capacity at ET -10 °C CT 45 °C Min - Max			kW	0,7 - 5,1	1,0 - 7,2	2,3 - 10,0	2,3 - 16,3	2,3 - 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 WxHxD			mm	1000x705x530	1000x772x507	1200x775x561	1300x874x662	1300x874x662
Weight			kg	85	89	124	209	211
Sound level at 10 m			dB(A)	39,0	42,0	54,0	54,0	54,0
Sound level at 10 m with housing "H" customisation option			dB(A)	36,0	39,0	51,0	51,0	51,0
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
Compressor Full load amperage			A	5,8	8,7	14,7	14,7 / 8,0	15,2 / 11,9
Current 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
Connections 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
Maximum height distance 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

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MODEL			LCU-KSC280M08	LCU-KSC400M08	LCU-KRC020L08	LCU-KRC035L08	LCU-KRC050L08	LCU-KSC090L08			
Compressor			Tandem compressor Inverter + ON / OFF	Tandem compressor Inverter + ON / OFF	Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	Single Inverter 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			MT	MT	LT	LT	LT	LT			
Cooling capacity at ET -35 °C CT 45 °C	Min ~ Max	kW	—	—	0,2 - 1,6	0,3 - 2,4	1,0 - 4,3	1,8 - 6,9			
Cooling capacity at ET -10 °C CT 45 °C	Min ~ Max	kW	4,6 - 27,7	5,4 - 38,0	—	—	—	—			
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			
Sound level at 10 m with housing "H" customisation option		dB(A)	49,0	52,0	36,0	39,0	47,0	52,0			
Compressor			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	
			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	

 CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES



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 Inverter + ON / OFF	Tandem compressor Inverter + ON / OFF
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			MT	MT	MT	MT	MT
Cooling capacity at ET -35 °C WT 30 °C / CT 40 °C	Min - Max	kW	—	—	—	—	—
Cooling capacity at ET -10 °C WT 30 °C / CT 40 °C	Min - Max	kW	0,7 - 5,4	1,1 - 7,7	2,8 - 11,1	2,8 - 18,1	2,8 - 21,8
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	90	94	134	219	221
Sound level at 10 m		dB(A)	39,0	42,0	54,0	54,0	54,0
Sound level at 10 m with housing "H" customisation option		dB(A)	36,0	39,0	51,0	51,0	51,0
Model			C-7RVN113L0A	C-7RZ320L4ABL	C-SBS180H00B	C-SBS180H00B/ C-SBN303H8G	C-SBS180H00B/ C-SBN453H8G
Compressor							
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
Current							
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
Plate heat exchanger connections							
Inlet		Inch	1/2	1/2	1	1	1
Outlet		Inch	3/4	3/4	1/2	1	1






MODEL			WCU-KSC280M08	WCU-KSC400M08	WCU-KRC020L08	WCU-KRC035L08	WCU-KRC050L08	WCU-KSC090L08
Compressor			Tandem compressor Inverter + ON / OFF	Tandem compressor Inverter + ON / OFF	Single Inverter compressor	Single Inverter compressor	Single Inverter compressor	Single Inverter 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			MT	MT	LT	LT	LT	LT
Cooling capacity at ET -35 °C WT 30 °C / CT 40 °C	Min ~ Max	kW	—	—	0,2 - 1,7	0,3 - 2,6	1,1 - 4,6	2,0 - 7,3
Cooling capacity at ET -10 °C WT 30 °C / CT 40 °C	Min ~ Max	kW	5,0 - 30,5	5,9 - 41,0	—	—	—	—
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
Sound level at 10 m with housing "H" customisation option		dB(A)	49,0	52,0	36,0	39,0	47,0	52,0
Compressor			C-SBWN373L0B/ C-SCN603H8T	4CC149NA04/ C-SCN753H8T	C-7RVN113L0A	C-7RZ320L4ABL	C-9RZ580L4AAL	ACC144NA03
	Model							
	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
	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	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	1 3/8	1 5/8	5/8	7/8	7/8	1 1/8
		Liquid	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	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	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	12	12	12	12	12	12
		Evaporator below	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	°C -15 ~ 10	°C -35 ~ 5	°C -35 ~ -15	°C -35 ~ -15	°C -35 ~ -10
	Ambient temperature	Min ~ Max	°C -20 ~ 43	°C -20 ~ 43	°C -20 ~ 43	°C -20 ~ 43	°C -20 ~ 43	°C -20 ~ 43
	Plate heat exchanger connections	Inlet	Inch 1 1/2	Inch 1 1/2	Inch 3/4	Inch 1/2	Inch 1/2	Inch 1
		Outlet	Inch 1	Inch 1	Inch 3/4	Inch 3/4	Inch 3/4	Inch 1

 CHECK PAGE 649 FOR A SELECTION OF ACCESSORIES



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

Specifications and capacity tables.

MT	Cooling capacity at				R449A/R448A			R134a/R513A		
	ET				-15 °C	-10 °C	-5 °C	-15 °C	-10 °C	-5 °C
LCU-KRC045M08	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
		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
LCU-KRC070M08	CT	40 °C	Min - Max	kW	0,9 - 6,4	1,1 - 7,7	1,3 - 9,3	0,5 - 3,4	0,6 - 4,2	0,7 - 5,1
		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
LCU-KSC100M08	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
		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
LCU-KSC160M08	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
		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
LCU-KSC190M08	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
		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
LCU-KSC280M08	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
		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
LCU-KSC400M08	CT	40 °C	Min - Max	kW	4,7 - 33,3	5,1 - 41,0	7,4 - 50,7	2,9 - 23,5	3,6 - 29,0	4,5 - 35,7
		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
LCU-KRC020L08	CT	40 °C	Min - Max	kW	0,2 - 1,7		0,3 - 2,2		0,4 - 2,8	
		45 °C	Min - Max	kW	0,2 - 1,6		0,3 - 2,0		0,3 - 2,6	
		50 °C	Min - Max	kW	---		0,2 - 1,8		0,3 - 2,3	
LCU-KRC035L08	CT	40 °C	Min - Max	kW	0,3 - 2,6		0,4 - 3,3		0,5 - 4,1	
		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	
LCU-KRC050L08	CT	40 °C	Min - Max	kW	1,1 - 4,6		1,4 - 5,8		1,7 - 7,3	
		45 °C	Min - Max	kW	1,0 - 4,3		1,3 - 5,4		1,6 - 6,8	
		50 °C	Min - Max	kW	---		1,2 - 5,0		1,5 - 6,3	
LCU-KSC090L08	CT	40 °C	Min - Max	kW	2,0 - 7,3		2,6 - 9,1		3,3 - 11,4	
		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
WCU-KRC045M08	WT	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
		30 °C	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
WCU-KRC070M08	WT	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
		30 °C	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
WCU-KSC100M08	WT	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
		30 °C	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
WCU-KSC160M08	WT	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
		30 °C	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
WCU-KSC190M08	WT	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
		30 °C	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
WCU-KSC280M08	WT	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
		30 °C	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
WCU-KSC400M08	WT	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
		30 °C	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
WCU-KRC020L08	WT	15 °C	30 °C	Min - Max	kW	0,3 - 2,2	0,4 - 2,7	0,5 - 3,4
		30 °C	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
WCU-KRC035L08	WT	15 °C	30 °C	Min - Max	kW	0,4 - 3,3	0,5 - 4,0	0,7 - 4,9
		30 °C	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
WCU-KRC050L08	WT	15 °C	30 °C	Min - Max	kW	1,2 - 5,8	1,5 - 7,1	1,9 - 8,7
		30 °C	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
WCU-KSC090L08	WT	15 °C	30 °C	Min - Max	kW	2,6 - 8,2	3,3 - 10,1	4,2 - 12,6
		30 °C	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.

Customisation options for iCOOL A2L and HFC/HFO range

The series offers customisable models that meet customer requirements.

- Factory pre-assembled options (customisation options), tested and ready-to-use options list – cutting installation time and reducing labour costs*
- Up to 3 customisation options selectable**

*The final model name is composed with the customisation selections. **Only for iCOOL OCU/SCU Series. Available configurations vary by series. ***Blygold condenser coating.



COATING***



HEAT RECOVERY –
DIRECT CONNECTIONS



HIGH PRESSURE FAN

iCOOL SE Series – A2L and HFC/HFO condensing units

Series	Application	Base model	Customisation options		Model
			Coating (C)	Heat recovery (D)	
iCOOL SE	MT	OCU-LRC100M08	Base model. No options chosen.		OCU-LRC100M08
		Other iCOOL SE models are not customizable	✓	–	OCU-LRC100M08-C

iCOOL OCU/SCU Series – HFC/HFO condensing units

Series	Application	Base model	Customisation options			Model
			Coating (C)	Heat recovery (D)	HP Fan (P)	
OCU	MT	OCU-KRC045M08 OCU-KRC070M08 OCU-KRC100M08	Base model. No options chosen.			OCU-KRC***M08
			✓	–	–	OCU-KRC***M08-C
			–	✓	–	OCU-KRC***M08-D
			–	–	✓	OCU-KRC***M08-P
			✓	✓	–	OCU-KRC***M08-CD
			✓	–	✓	OCU-KRC***M08-CP
			–	✓	✓	OCU-KRC***M08-DP
			✓	✓	✓	OCU-KRC***M08-CDP
			Base model. No options chosen.			OCU-KSC***M08
			✓	–	–	OCU-KSC***M08-C
			–	✓	–	OCU-KSC***M08-D
			–	–	✓	OCU-KSC***M08-P
		✓	✓	–	OCU-KSC***M08-CD	
		✓	–	✓	OCU-KSC***M08-CP	
		–	✓	✓	OCU-KSC***M08-DP	
		✓	✓	✓	OCU-KSC***M08-CDP	
		OCU-KSC160M08 OCU-KSC190M08 OCU-KSC240M08 OCU-KSC280M08	Base model. No options chosen.			OCU-KSC***M08
			✓	–	–	OCU-KSC***M08-C
			–	✓	–	OCU-KSC***M08-D
			–	–	✓	OCU-KSC***M08-P
			✓	✓	–	OCU-KSC***M08-CD
			✓	–	–	OCU-KSC***M08-CP
		OCU-KSC400M08 OCU-KSC420M08	Base model. No options chosen.			OCU-KSC***M08
			–	✓	Standard	OCU-KSC***M08-D
OCU	LT	OCU-KRC035L08 OCU-KRC050L08	Base model. No options chosen.			OCU-KRC***L08
			✓	–	–	OCU-KRC***L08-C
			–	✓	–	OCU-KRC***L08-D
			–	–	✓	OCU-KRC***L08-P
			✓	✓	–	OCU-KRC***L08-CD
			✓	–	✓	OCU-KRC***L08-CP
			–	✓	✓	OCU-KRC***L08-DP
			✓	✓	✓	OCU-KRC***L08-CDP
			Base model. No options chosen.			OCU-KSC***L08
			✓	–	–	OCU-KSC***L08-C
OCU	LT	OCU-KSC090L08 OCU-KSC140L08	–	✓	–	OCU-KSC***L08-D
			✓	✓	–	OCU-KSC***L08-CD
			Base model. No options chosen.			SCU-KSC***M08
SCU	MT	SCU-KSC160M08 SCU-KSC190M08	✓	–	Standard	SCU-KSC***M08-C
			–	✓	–	SCU-KSC***M08-D
			✓	✓	–	SCU-KSC***M08-CD
			Base model. No options chosen.			SCU-KSC090L08
			✓	–	–	SCU-KSC090L08-C
			–	✓	Standard	SCU-KSC090L08-D
SCU	LT	SCU-KSC090L08	✓	–	–	SCU-KSC090L08-CD
			–	✓	–	SCU-KSC090L08-D

iCOOL LCU/WCU Series – HFC/HFO compressor base/condensing units

Series	Application	Base model	Customisation options		Example model
			Housing (H)		
LCU	MT	LCU-KRC***M08 / LCU-KSC***M08 / LCU-KRC***L08 / LCU-KSC***L08	Base model. No options chosen.		LCU-KRC***M08
WCU	LT	WCU-KRC***M08 / WCU-KSC***M08 / WCU-KRC***L08 / WCU-KSC***L08	✓		LCU-KRC***M08-H

Accessories and compatibility – iCOOL A2L and HFC/HFO range

Oil



Compressor oil FV68S 2,0 l.	CZ-HFC-FV68SL20
Compressor oil FV68S 500 ml.	CZ-HFC-FV68SL05

Oil



Compressor oil FV32S 2,0 l.	CZ-HFC-FV32SL20
Compressor oil FV32S 500 ml.	CZ-HFC-FV32SL05

Accessories (can be ordered separately)

iCOOL SE Series – A2L and HFC/HFO condensing units*

Model	OCU-	LRE/KRE025M05	LRE/KRE045M05	LRE/KRE070M05	LRC100M08	LRE/KRE012L05	LRE/KRE022L05	LRE/KRE030L05
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 – HFC/HFO condensing units

Model		OCU-KRC 045M08	OCU-KRC 070M08	OCU-KRC 100M08	OCU-KSC 120M08	OCU-KSC 150M08	OCU-KSC 160M08	OCU-KSC 190M08	OCU-KSC 240M08	OCU-KSC 280M08
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									

Model		OCU-KSC 400M08	OCU-KSC 420M08	OCU-KRC 035L08	OCU-KRC 050L08	OCU-KSC 090L08	OCU-KSC 140L08	SCU-KSC 160M08	SCU-KSC 190M08	SCU-KSC 090L08
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 Series – HFC/HFO compressor base units

Model		LCU-KRC 045M08	LCU-KRC 070M08	LCU-KSC 100M08	LCU-KSC 160M08	LCU-KSC 190M08	LCU-KSC 280M08	LCU-KSC 400M08	LCU-KRC 020L08	LCU-KRC 035L08	LCU-KRC 050L08	LCU-KSC 090L08
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 – HFC/HFO condensing units

Model		WCU-KRC 045M08	WCU-KRC 070M08	WCU-KSC 100M08	WCU-KSC 160M08	WCU-KSC 190M08	WCU-KSC 280M08	WCU-KSC 400M08	WCU-KRC 020L08	WCU-KRC 035L08	WCU-KRC 050L08	WCU-KSC 090L08
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											•

*Accessories compatibility data for iCOOL SE OCU-LRE models is tentative.