

Panasonic

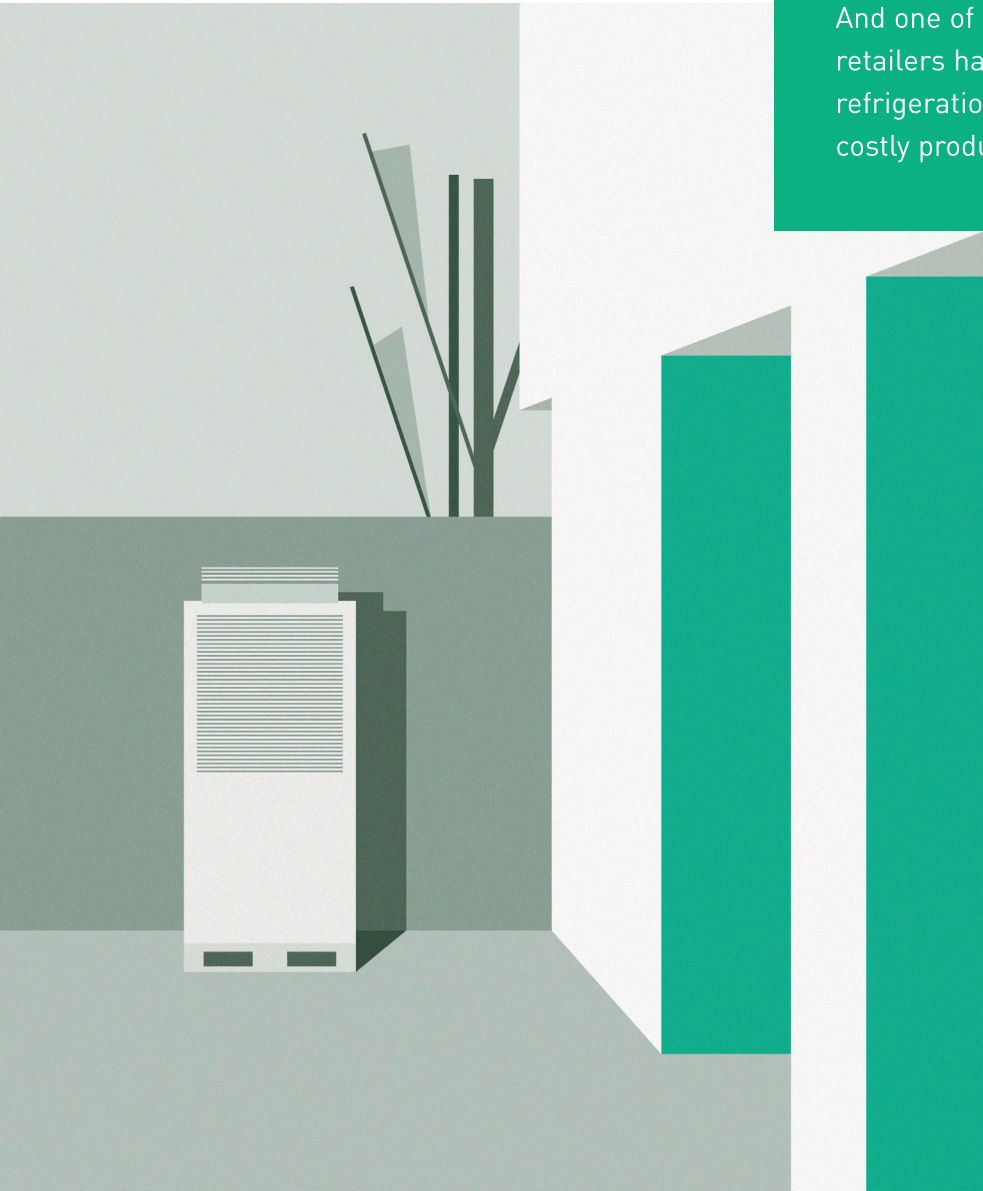
CONDENSING UNITS WITH NATURAL REFRIGERANT 2024 / 2025





CO₂ condensing units - CR Series with natural refrigerant

Panasonic's CO₂ condensing units - CR Series provide the ideal solution for supermarkets, convenience stores and gas stations. Keeping food always fresh at right temperature in showcases or cold rooms is a very critical point. And one of the biggest challenges for those retailers has been the expensive effects of refrigeration breakdowns which can result in costly product wastage.





Choose the sustainable green solution by Panasonic

Natural solution with high energy saving

A sustainable refrigeration systems in your food retail

The safe refrigeration systems for your healthcare business

CO₂ transcritical condensing units - CR Series

Technology by Panasonic

Control and connectivity

Range of CO₂ condensing units - CR Series

CO₂ Condensing units - CR Series

Quality that lasts in All Sectors

With Panasonic, you optimise your Total Cost in Ownership (TCO) and Total Value of Ownership (TVO) for the whole life of your equipment - and that's not a short time!



Panasonic Saves Your Money

- High energy efficiency
- Small floor space
- Low total operating costs
- Long service life with components designed for 10+ years of operation



Panasonic Gives You Time

- Low effort with easy-to-clean design and materials
- Maximum ergonomic efficiency for effortless work processes
- Almost maintenance-free



Panasonic Ensures Your Goods Are Operationally Efficient

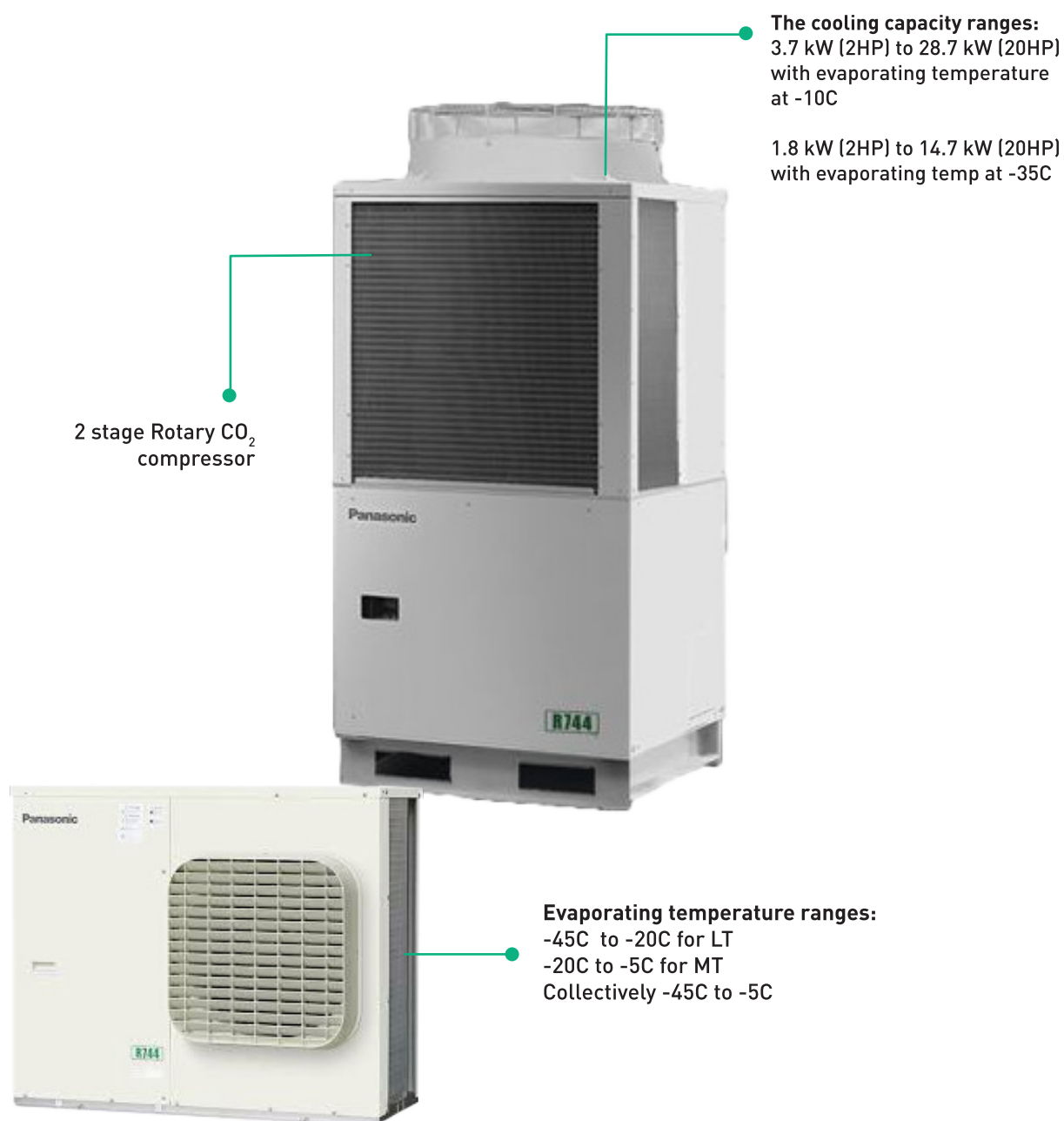
- Guaranteed energy efficiency
- Designed with low sound decibels for smaller spaces
- Anti corrosion coating for outdoor and high humidity applications



Panasonic Focuses On Sustainability

- Equipments with very low energy consumption
- Natural refrigerant
- Resource-saving manufacturing processes
- Awarded with Highest Gold Rating from EcoVadis

Features



Benefits



SUPER QUIET

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

AMBIENT
TEMPERATURE

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

ANTI CORROSION
COATING

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



AUTOMATIC FAN

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



R744

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

HEAT RECOVERY
PORT

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

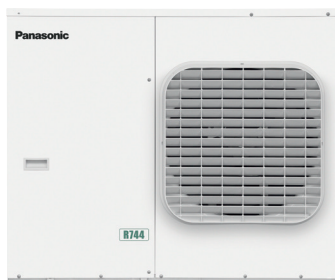
Range of CO₂ condensing units - CR Series



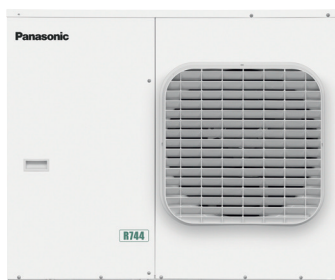
Transcritical Co2 Condensing Unit 2HP MT/LT		
Model	OCU-CR200VF5A	
	Normal coating	
Cooling capacity at ET -10°C AT 32°C:	kW	3,70
Cooling capacity at ET -35°C AT 32°C	kW	1,80
Dimensions (H x W x D)	mm	930 x 900 x 437
Weight	kg	70
Power Supply	Voltage	220/230/240
	Phase	Single phase
	Frequency	50



Transcritical Co2 Condensing Unit 2HP MT/LT		
Model	OCU-CR200VF5ASL	
	Salt proof coating	
Cooling capacity at ET -10°C AT 32°C:	kW	3,70
Cooling capacity at ET -35°C AT 32°C	kW	1,80
Dimensions (H x W x D)	mm	930 x 900 x 437
Weight	kg	70
Power Supply	Voltage	220/230/240
	Phase	Single phase
	Frequency	50

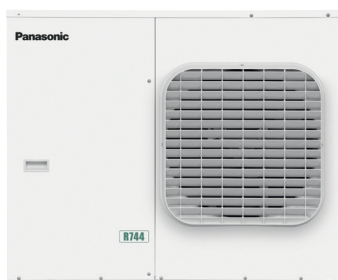


Transcritical Co2 Condensing Unit 4HP MT		
Model	OCU-CR400VF8	
	Normal coating	
Cooling capacity at ET -10°C AT 32°C:	kW	7,10
Cooling capacity at ET -35°C AT 32°C	kW	-
Dimensions (H x W x D)	mm	948 x 1143 x 609
Weight	kg	136
Power Supply	Voltage	380/400/415
	Phase	Three phase
	Frequency	50

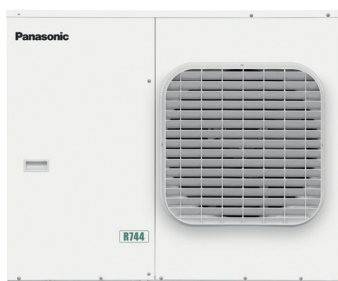


Transcritical Co2 Condensing Unit 4HP MT		
Model	OCU-CR400VF8SL	
	Salt proof coating	
Cooling capacity at ET -10°C AT 32°C:	kW	7,10
Cooling capacity at ET -35°C AT 32°C	kW	-
Dimensions (H x W x D)	mm	948 x 1143 x 609
Weight	kg	136
Power Supply	Voltage	380/400/415
	Phase	Three phase
	Frequency	50

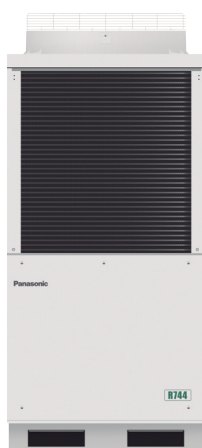
Range of CO₂ condensing units - CR Series



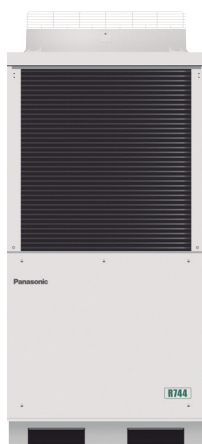
Transcritical Co2 Condensing Unit 4HP MT/LT		
Model	OCU-CR400VF8A	
	Normal coating	
Cooling capacity at ET -10°C AT 32°C:	kW	7,7
Cooling capacity at ET -35°C AT 32°C	kW	3,8
Dimensions (H x W x D)	mm	948 x 1143 x 609
Weight	kg	149
Power Supply	Voltage	380/400/415
	Phase	Three phase
	Frequency	50



Transcritical Co2 Condensing Unit 4HP MT/LT		
Model	OCU-CR400VF8ASL	
	Salt proof coating	
Cooling capacity at ET -10°C AT 32°C:	kW	7,7
Cooling capacity at ET -35°C AT 32°C	kW	3,8
Dimensions (H x W x D)	mm	948 x 1143 x 609
Weight	kg	149
Power Supply	Voltage	380/400/415
	Phase	Three phase
	Frequency	50

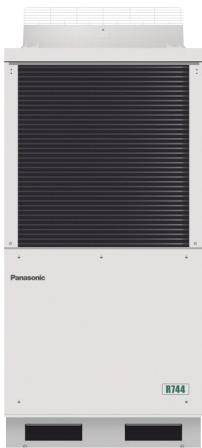


Transcritical Co2 Condensing Unit 10HP MT		
Model	OCU-CR1000VF8	
	Normal coating	
Cooling capacity at ET -10°C AT 32°C:	kW	14,00
Cooling capacity at ET -35°C AT 32°C	kW	-
Dimensions (H x W x D)	mm	1941 x 890 x 890
Weight	kg	293
Power Supply	Voltage	380/400/415
	Phase	Three phase
	Frequency	50

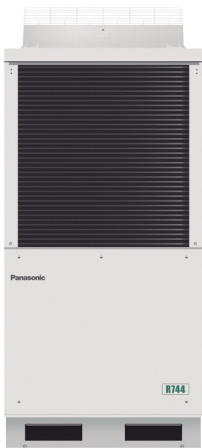


Transcritical Co2 Condensing Unit 10HP MT		
Model	OCU-CR1000VF8SL	
	Salt proof coating	
Cooling capacity at ET -10°C AT 32°C:	kW	14,00
Cooling capacity at ET -35°C AT 32°C	kW	-
Dimensions (H x W x D)	mm	1941 x 890 x 890
Weight	kg	293
Power Supply	Voltage	380/400/415
	Phase	Three phase
	Frequency	50

Range of CO₂ condensing units - CR Series



Transcritical Co2 Condensing Unit 10HP MT/LT		
Model	OCU-CR1000VF8A	
	Normal coating	
Cooling capacity at ET -10°C AT 32°C:	kW	15,10
Cooling capacity at ET -35°C AT 32°C	kW	8,00
Dimensions (H x W x D)	mm	1941 x 890 x 890
Weight	kg	320
Power Supply	Voltage	380/400/415
	Phase	Three phase
	Frequency	50



Transcritical Co2 Condensing Unit 10HP MT/LT		
Model	OCU-CR1000VF8ASL	
	Salt proof coating	
Cooling capacity at ET -10°C AT 32°C:	kW	15,10
Cooling capacity at ET -35°C AT 32°C	kW	8,00
Dimensions (H x W x D)	mm	1941 x 890 x 890
Weight	kg	320
Power Supply	Voltage	380/400/415
	Phase	Three phase
	Frequency	50

Introducing the new 20HP Transcritical CO2 Condensing Unit



Transcritical Co2 Condensing Unit 20HP MT/LT		
Model	OCU-CR2000VF8A	
	Normal coating	
Cooling capacity at ET -10°C AT 32°C:	kW	28,70
Cooling capacity at ET -35°C AT 32°C	kW	14,70
Dimensions (H x W x D)	mm	1941 x 1190 x 890
Weight	kg	494
Power Supply	Voltage	380/400/415
	Phase	Three phase
	Frequency	50

Case Studies

Installation in **Supermarket (Coop) Distribution Center, Japan**

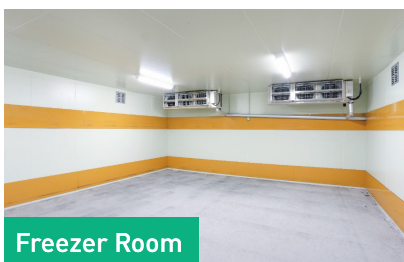
OCU-CR1501MVF x 1
OCU-CR2001MVF x 3
Cooling coil x 6
(Freezer: 30Kw, Chiller: 20Kw)



Overview



Condensing Unit



Freezer Room



Installation in **Supermarket, Japan**

OCU-CR2001MVF x 1
OCU-CR3000MVF x 2
OCU-CR4000MVF x 2



Installation in **Supermarket (Life club) Distribution Center**

OCU-CR1501MVF x 1
OCU-CR2001MVF x 2
Cooling coil x 5
(Freezer: 40Kw, Chiller: 16Kw)



Overview



Condensing Unit



Freezer Room



Installation in **Supermarket, Japan**







OCU-CR1001VF x 5
OCU-CR1501MVF x 2
OCU-CR2001MVF x 8



Choose the sustainable green solution by Panasonic

Environmentally friendly CO₂ condensing units - CR Series and medium temperature solutions



CO ₂ condensing units - CR Series					
MT/LT Type	MT Type	MT/LT Type	MT Type	MT/LT Type	NEW MT/LT Type
					
Capacity range (kW)					
4 (MT) / 2 (LT)	7,5	8 (MT) / 4 (LT)	15	16 (MT) / 8 (LT)	29 (MT) / 15 (LT)
Low temperature					
✓	—	✓	—	✓	✓
Medium temperature					
✓	✓	✓	✓	✓	✓
High Temperature					
—	—	—	—	—	—
Heat recovery port					
—	✓	✓	—	✓	✓
ET (evaporation temperature) set points range					
-45 ~ -5 °C	-20 ~ -5 °C	-45 ~ -5 °C	-20 ~ -5 °C	-45 ~ -5 °C	-45 ~ -5 °C
Room size example (m')*					
40 (MT) / 10 (LT)	80	80 (MT) / 20 (LT)	200	200 (MT) / 50 (LT)	300 (MT) / 75 (LT)

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

Energy saving



Natural CO₂ / R744.

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



High efficiency compressor.

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

High performance and indoor air quality



Super quiet.

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



Operating range up to 43 °C.

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



Anti corrosion coating.

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



Heat recovery port.

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



Automatic fan operation.

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

High connectivity



BMS connectivity.

The system can be supervised with major monitoring system.

Why CO₂? Natural refrigerant.

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

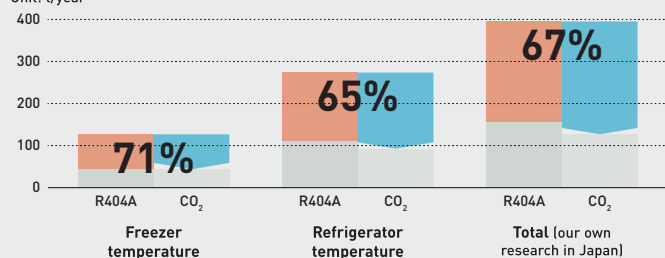
In Europe a step-by-step HFC reduction has been in place since the F-Gas regulation was introduced in 2015. Countries all over the world have actively been preparing to enact the necessary domestic legislation to implement the agreement to reduce the use of HFCs. Panasonic is now able to provide a solution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

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

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

Comparison of CO₂ emissions

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.

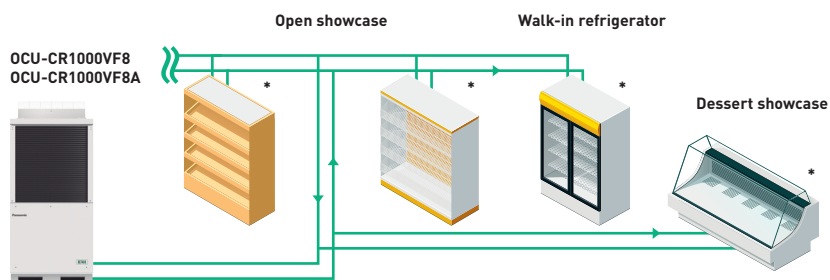
Natural solution with high energy saving

Panasonic's range of CO₂ condensing units - CR Series with natural refrigerant, and R32 complete systems for HT applications offer a reliable solution for a wide range of applications, including convenience stores, supermarket, gas stations and cold rooms.

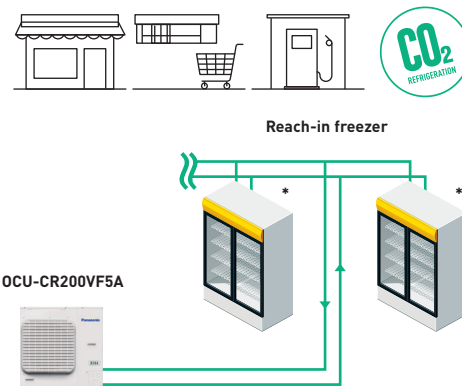


Showcases.

Convenience stores, supermarkets, gas-stations.



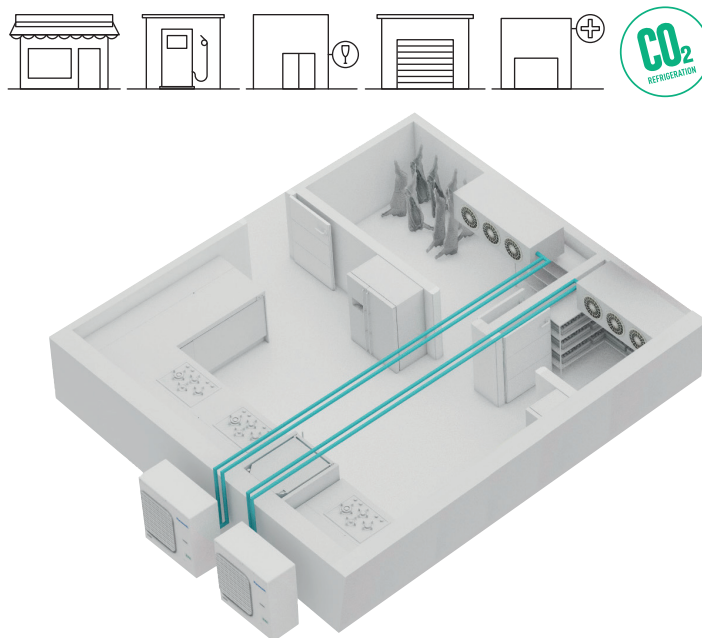
* Controllers: PAW-CO2-PANEL-C or local supply.



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)



A sustainable refrigeration systems in your food retail

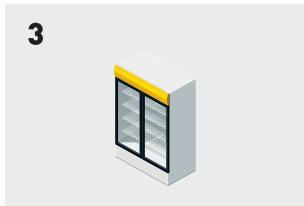
CO₂ refrigerant is the choice to curb carbon footprint of any business organization, especially to food retailers, to whom it brings key advantages.
Panasonic professional strongly supports your projects to meet customer's request!



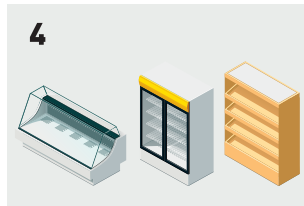
10 HP MT TYPE
(OCU-CR1000VF8).



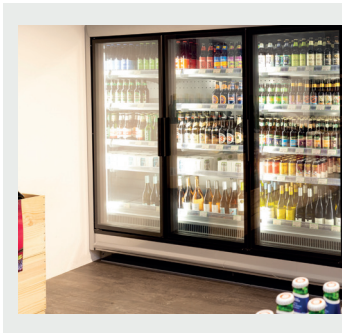
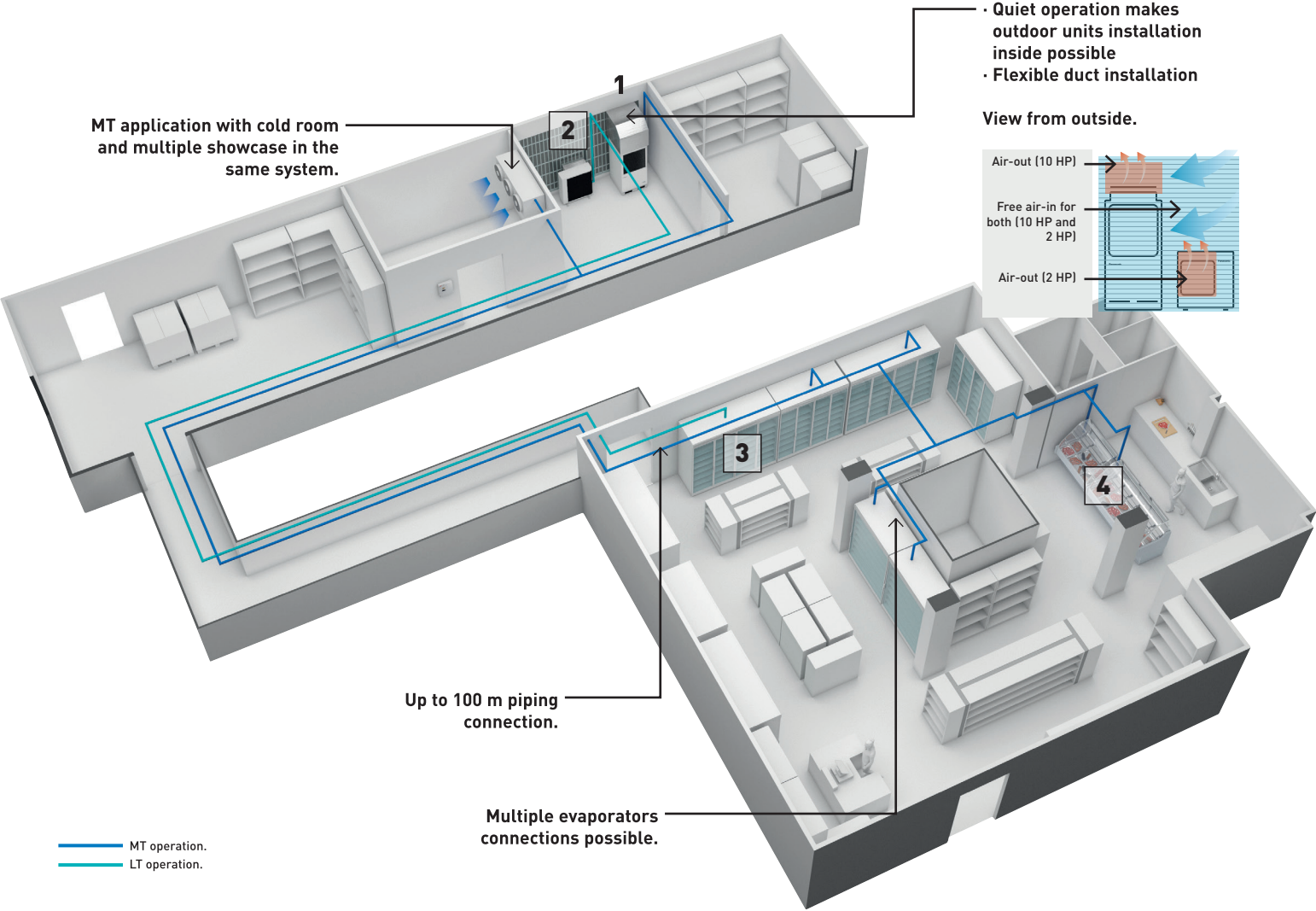
2 HP MT/LT TYPE
(OCU-CR200VF5A).



Reach-in freezer (field
supplied).



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



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 - CR Series have been chosen because of the high performance and reliable quality.

The safe refrigeration systems for your healthcare business

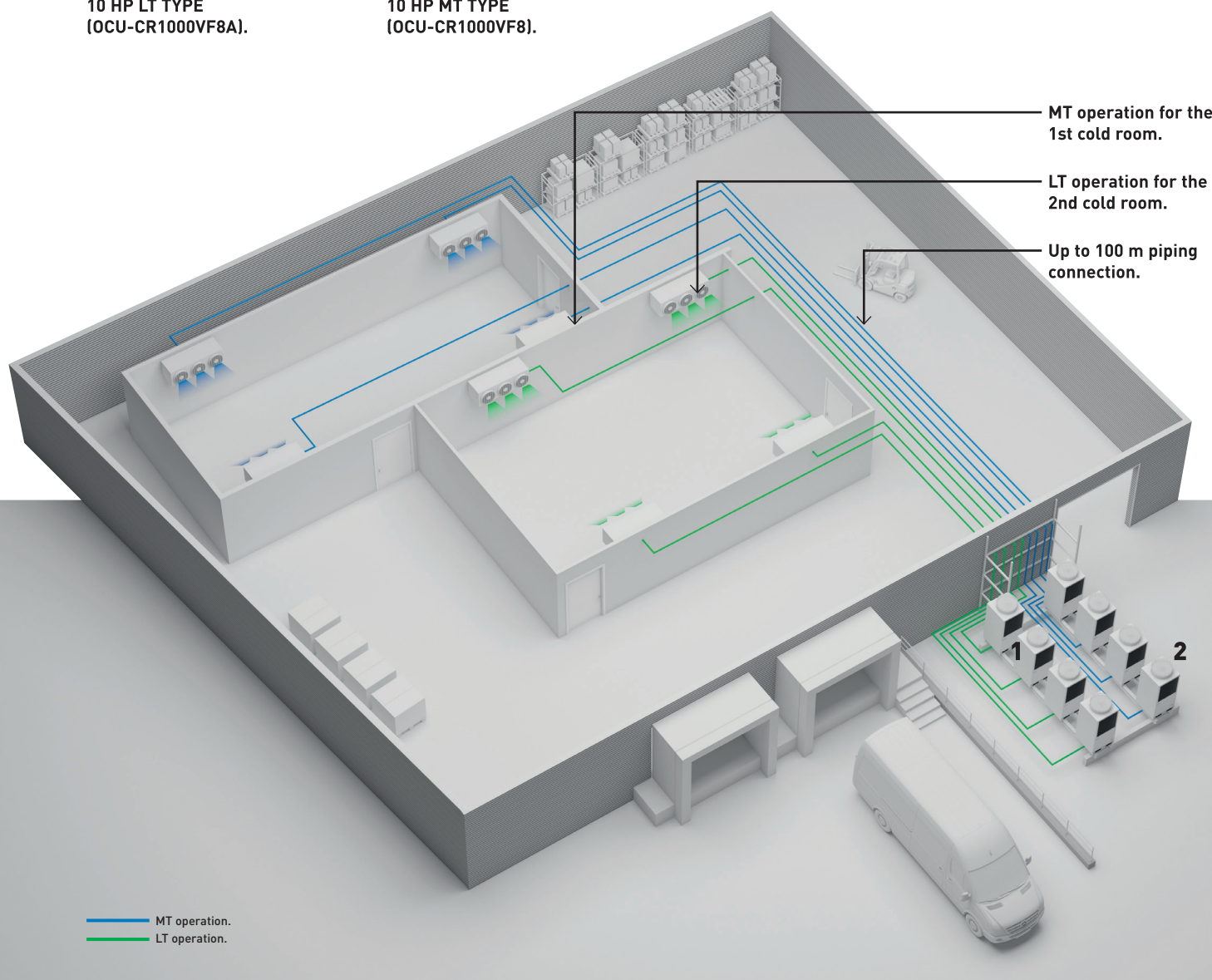
CO₂ is the right refrigerant to curb carbon footprint of any business organization. In addition, there are advantages specially for healthcare business. The project example shows one of the warehouse in the healthcare laboratory which requires several cold rooms there to keep bio-products safely.



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 - CR Series have been chosen to fulfill the expectation of environmental-friendly and safety requirements. The products with reliable quality and high performance was also an essential point.

CO₂ transcritical condensing units - CR Series

CR Series offer a wide range of refrigeration systems, meeting the specific needs of small retail stores.



New CR Series 20 HP MT/LT model.

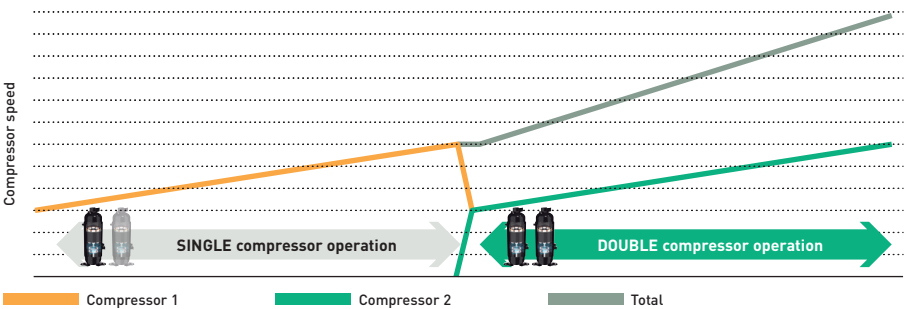
The CR Series now includes 20 HP MT/LT model, a highly efficient multi compressor solution.

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

Energy efficient multi compressors operation.

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

Example of compressor operation.



Superior cooling capacity at each evaporating temperature.

CO₂ transcritical condensing units - CR Series have a high cooling capacity at each set point. The CO₂ 2-stage compressor developed by Panasonic is designed to compress CO₂ refrigerant twice; it reduces the load in operation by half (compared to 1-stage refrigerant compression) and delivers increased durability and reliability. Units can be programmed to run at low and medium temperatures at initial set-up. These settings can then be modified by turning a simple and user friendly rotary switch to further enhance energy savings.

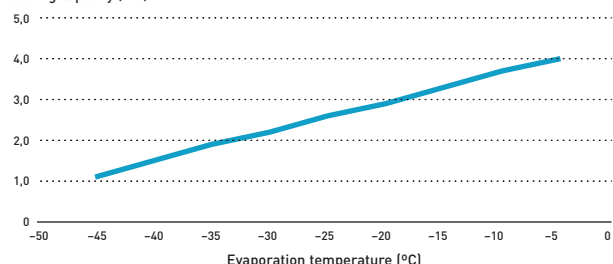
MT/LT Type: 200VF5A - 4 / 2 kW.

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

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



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



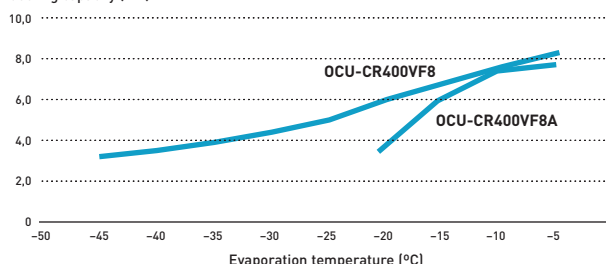
MT Type: 400VF8 - 7,5 kW. MT/LT Type: 400VF8A - 8 / 4 kW.

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

* Model 400VF8A.



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



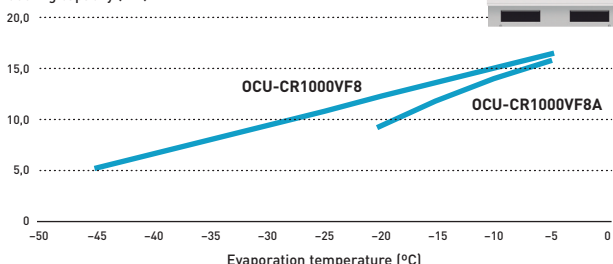
MT Type: 1000VF8 - 15 kW. MT/LT Type: 1000VF8A - 16 / 8 kW.

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

* Model 1000VF8A.



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

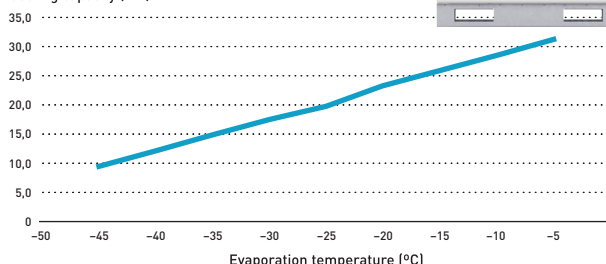


NEW MT/LT Type: 2000VF8A - 29 / 15 kW.

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



OCU-CR2000VF8A(SL) ¹⁾.
Cooling capacity (kW)



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

1 Superior efficiency with reliable quality

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

1) 200VF5A.

2 Heat recovery port ¹⁾ as renewable energy

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

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

3 Flexible installation

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

2) For models 1000VF8A and 2000VF8A.

Technology by Panasonic

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



Reliable CO₂ technology by Panasonic

- Reliable quality: Made in Japan
- 19500 units sold and installed in more than 5200 retail operations such as convenience stores and supermarkets in Japan*
- Excellent quality control established by skilled factory team

· * As of the end of December 23.

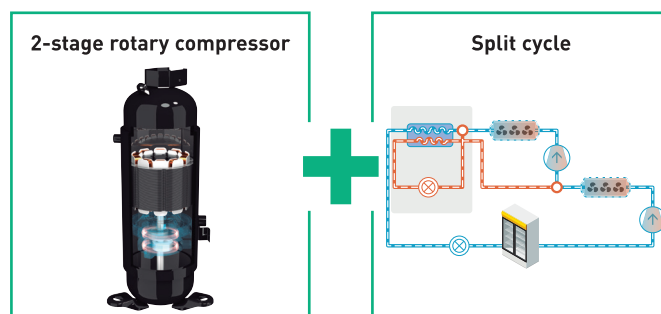
Panasonic's combined technology of the 2-stage compressor with the split cycle.

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

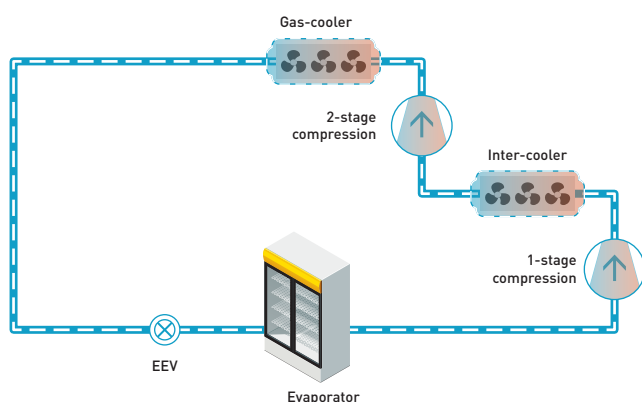
* Available for 200VF5A, 400VF8A, 1000VF8A and 2000VF8A models.

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

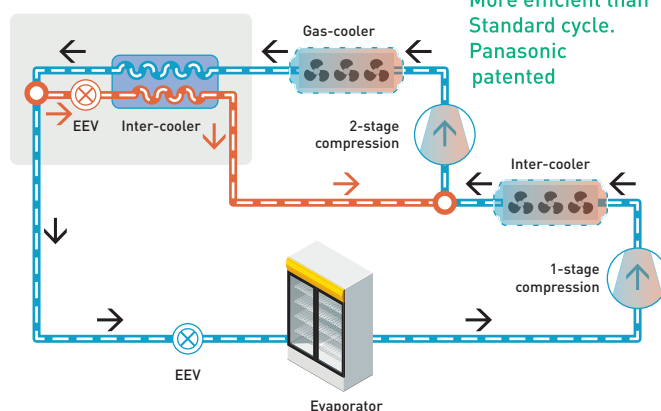
Watch the highlighted technology video.



Standard cycle.



Split cycle.



Up to 50%**
More efficient than
Standard cycle.
Panasonic
patented

Heat recovery function for heating

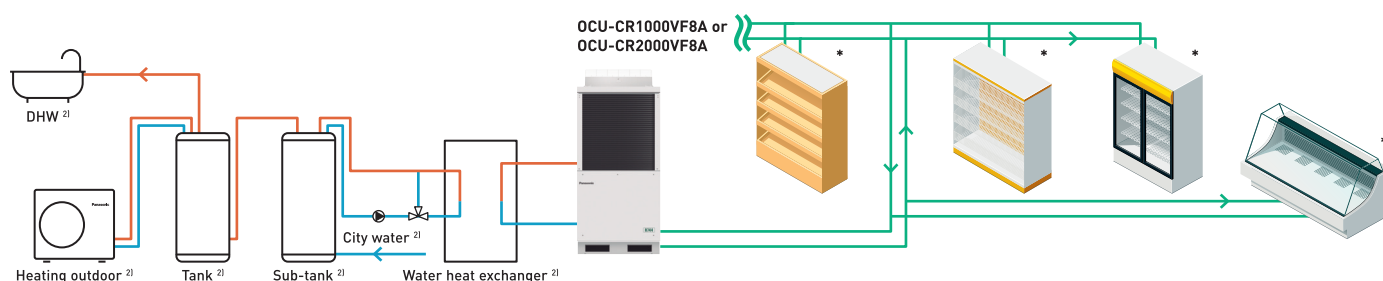
This function offers refrigeration combined with heating all in one system. The ground-breaking solution allows for increased opportunity to cut running costs by utilizing exhausted heat from refrigeration and transferring to the energy source for heating.

16,7 kW¹⁾
Of hot water
for free

What is heat recovery function?

Solution example.

Heat recovery system can produce both heating and refrigeration.



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

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

Control and connectivity

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

Monitoring system				
				
Standard boss & boss-mini	AK-SM Series*	TelevisGo	DMTOUCH	TeleNET

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

Range of CO₂ condensing units - CR Series

Outdoor units	MT	4,0 kW	7,0 kW	8,0 kW	15,0 kW	16,0 kW	29,0 kW
	LT	2,0 kW		4,0 kW		8,0 kW	15,0 kW

2 HP MT / LT
(200VF5A)



OCU-CR200VF5A
OCU-CR200VF5ASL

4 HP MT
(400VF8)



OCU-CR400VF8
OCU-CR400VF8SL

4 HP MT / LT
(400VF8A)



OCU-CR400VF8A
OCU-CR400VF8ASL

10 HP MT
(1000VF8)



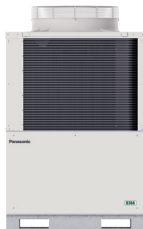
OCU-CR1000VF8
OCU-CR1000VF8SL

10 HP MT / LT
(1000VF8A)



OCU-CR1000VF8A
OCU-CR1000VF8ASL

NEW 20 HP MT /
LT (2000VF8A)



OCU-CR2000VF8A
OCU-CR2000VF8ASL

CO₂ condensing units - CR Series

Standard outdoor unit			OCU-CR200VF5A		OCU-CR400VF8		OCU-CR400VF8A	
Anti corrosion coating outdoor unit			OCU-CR200VF5ASL		OCU-CR400VF8SL		OCU-CR400VF8ASL	
Type (MT: medium temperature, LT: low temperature)			MT (4 kW) / LT (2 kW)		MT (7,5 kW)		MT (8 kW) / LT (4 kW)	
Power supply	Voltage	V	220/230/240		380/400/415		380/400/415	
	Phase		Single phase		Three phase		Three phase	
	Frequency	Hz	50		50		50	
Cooling capacity at ET -10 °C AT 32 °C		kW	3,70		6,89		7,52	
Cooling capacity at ET -35 °C AT 32 °C		kW	1,80		—		3,77	
SEPR cooling at ET -10 °C AT 32 °C			3,83		3,17		3,20	
SEPR freezing at ET -35 °C AT 32 °C			1,92		—		1,73	
Annual electricity consumption at ET -10 °C AT 32 °C		kWh/a	6797		13384		14488	
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a	8021		—		16255	
Evaporator connection			Multiple		Multiple		Multiple	
Evaporation temperature	Min ~ Max	°C	-45~-5		-20~-5		-45~-5	
Ambient temperature	Min ~ Max	°C	-20~+43		-20~+45		-20~+45	
Refrigerant			R744		R744		R744	
Design pressure liquid line		Mpa	12		8		8	
Design pressure suction line		Mpa	8		8		8	
User system external alarm. Digital input. Non-voltage contact			Yes		Yes		Yes	
Liquid tube electromagnetic valve		Vac	220/230/240		220/230/240		220/230/240	
Showcase operation ON / OFF signal. Digital input. Non-voltage contact			Yes		Yes		Yes	
Modbus communication line (RS485)		Ports	Yes		Yes		Yes	
Compressor type			2- stage rotary		2- stage rotary		2- stage rotary	
Dimension	H x W x D	mm	930 x 900 x 437		948 x 1143 x 609		948 x 1143 x 609	
Net weight		Kg	70		136		149	
Piping diameter ¹⁾	Suction pipe	Inch (mm)	¾(9,52)		½(12,70)		½(12,70)	
	Liquid pipe	Inch (mm)	¼(6,35)		¾(9,52)		¾(9,52)	
Length of connection piping		m	25		50 ²⁾		50 ²⁾	
PED		CAT	I		II		II	
Air flow		m³/min	54		59		59	
External static pressure		Pa	17		50		50	
Heat recovery port			—		—		Yes	
Standard performance	Ambient temperature	°C	32		32		32	
	Evaporating temperature	°C	-10 -35		-10		-10 -35	
	Cooling capacity	kW	3,70 1,80		6,89		7,52 3,77	
	Power consumption	kW	1,79 1,65		4,00		4,51 3,69	
	Nominal load ampere	A	7,94 7,26		6,14		7,20 6,20	
	Sound pressure	dB(A)	35,5 ⁴⁾ 35,5 ⁴⁾		33,0 ⁵⁾		36,1 ⁵⁾ 36,1 ⁵⁾	
Necessary accessories								
Drier filter liquid line, Ø6,35 mm		D-152T / DCY-P12	Yes (included)		Yes (included)		Yes (included)	
Drier filter liquid line, Ø15,88 mm		D-155T / DCY-P8	—		—		—	
Suction filter, Ø19,05 mm (outer Ø welding)		S-008T / S-008T1	—		Yes (included)		Yes (included)	

1) These diameters correspond to the output of the unit. The required diameter must be calculated with Refrigeration designer available on PRO Club. 2) PZ-68S (refrigeration oil) must be added according to Refrigeration designer available on PRO Club. 3) PZ-68S (refrigeration oil) must be added if >50 m. 4) ET-10 °C, 65 S-1, 10 m from product. 5) ET-10 °C, 80 S-1, 10 m from product. 6) ET-10 °C, 60 S-1, 10 m from product.





Standard outdoor unit			OCU-CR1000VF8	OCU-CR1000VF8A	OCU-CR2000VF8A*
Anti corrosion coating outdoor unit			OCU-CR1000VF8SL	OCU-CR1000VF8ASL	OCU-CR2000VF8ASL*
Type (MT: medium temperature, LT: low temperature)			MT (15 kW)	MT (16 kW) / LT (8 kW)	MT (29 kW) / LT (15 kW)
Power supply	Voltage	V	380/400/415	380/400/415	380/400/415
	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Cooling capacity at ET -10 °C AT 32 °C		kW	14,00	15,10	28,74
Cooling capacity at ET -35 °C AT 32 °C		kW	—	8,00	14,73
SEPR cooling at ET -10 °C AT 32 °C			2,62	2,86	3,10
SEPR freezing at ET -35 °C AT 32 °C			—	1,49	1,64
Annual electricity consumption at ET -10 °C AT 32 °C		kWh/a	32815	32409	57076
Annual electricity consumption at ET -35 °C AT 32 °C		kWh/a	—	39985	66760
Evaporator connection			Multiple	Multiple	Multiple
Evaporation temperature	Min ~ Max	°C	-20 ~ -5	-45 ~ -5	-45 ~ -5
Ambient temperature	Min ~ Max	°C	-20 ~ +43	-20 ~ +43	-20 ~ +45
Refrigerant			R744	R744	R744
Design pressure liquid line		Mpa	8	8	8
Design pressure suction line		Mpa	8	8	8
User system external alarm. Digital input. Non-voltage contact			Yes	Yes	Yes
Liquid tube electromagnetic valve		Vac	220/230/240	220/230/240	—
Showcase operation ON / OFF signal. Digital input. Non-voltage contact			Yes	Yes	Yes
Modbus communication line (RS485)		Ports	Yes	Yes	Yes
Compressor type			2- stage rotary	2- stage rotary	2- stage rotary
Dimension	HxWxD	mm	1941x890x890	1941x890x890	1941x1190x890
Net weight		Kg	293	320	494
Piping diameter ¹⁾	Suction pipe	Inch (mm)	¾(19,05)	¾(19,05)	1 (25,40)
	Liquid pipe	Inch (mm)	¾(15,88)	¾(15,88)	¾(19,05)
Length of connection piping		m	100 ³⁾	100 ³⁾	100 ³⁾
PED		CAT	II	II	II
Air flow		m³/min	220	220	220
External static pressure		Pa	58	58	58
Heat recovery port			—	Yes	Yes
Standard performance	Ambient temperature	°C	32	32	32
	Evaporating temperature	°C	-10	-10	-35
	Cooling capacity	kW	14,00	15,10	28,74
	Power consumption	kW	8,20	8,20	15,67
	Nominal load ampere	A	12,60	12,60	24,31
	Sound pressure	dB(A)	36,0 ⁴⁾	36,0 ⁴⁾	38,9 ⁴⁾
Necessary accessories					
Drier filter liquid line, Ø6,35 mm		D-152T / DCY-P12	—	—	—
Drier filter liquid line, Ø15,88 mm		D-155T / DCY-P8	Yes (included)	Yes (included)	Yes (included)
Suction filter, Ø19,05 mm (outer Ø welding)		S-008T / S-008T1	Yes (included)	Yes (included)	Yes (included)

1) These diameters correspond to the output of the unit. The required diameter must be calculated with Refrigeration designer available on PRO Club. 2) PZ-68S (refrigeration oil) must be added according to Refrigeration designer available on PRO Club. 3) PZ-68S (refrigeration oil) must be added if >50 m. 4) ET-10 °C, 65 S-1, 10 m from product. 5) ET-10 °C, 80 S-1, 10 m from product. 6) ET -10 °C, 60 S-1, 10 m from product. * Available in Summer 2024. Tentative data.



AUSTRALIA

Head Office: **Sydney**

Address: 66 Glendenning Road, Glendenning, NSW
2761 Australia

Web: hussmann.com.au

NEW ZEALAND

Head Office: **Auckland**

Address: 2-6 Niall Burgess Road,
Mt Wellington, Auckland 1060 New Zealand

Web: mcalpinehussmann.co.nz

CHINA

Head Office & Manufacturing: **Suzhou**

Address: Building No.7, 58 Li Jiang Road, Suzhou
Science & Technology Town, Suzhou New District,
Suzhou, P.R.China. 215153

Web: hussmann.com.au

HUSSmann®
A Panasonic Company