



Panasonic condensing units with natural refrigerant - Healthcare business

CO₂ is non-flammable and non-toxic refrigerant, therefore it's the ideal refrigerant in risk-management approach to healthcare applications and the most required business conditions.

Panasonic's CR Series of CO₂ condensing units provide the ideal solution for healthcare application.



The benefits of CO₂

CO₂ refrigerants = Natural = Sustainable solution.

CO₂ is a future-proven solution in refrigeration, because CO₂ is not impacted by any current legal restriction, nor quota, taxes, price increasing or shortage. CO₂ also fits well to future legal evolution and bans.

Panasonic is ready to provide a solution in Europe with CO₂ refrigeration systems to prevent global warming and to support environment-friendly and cost saving retail operations.

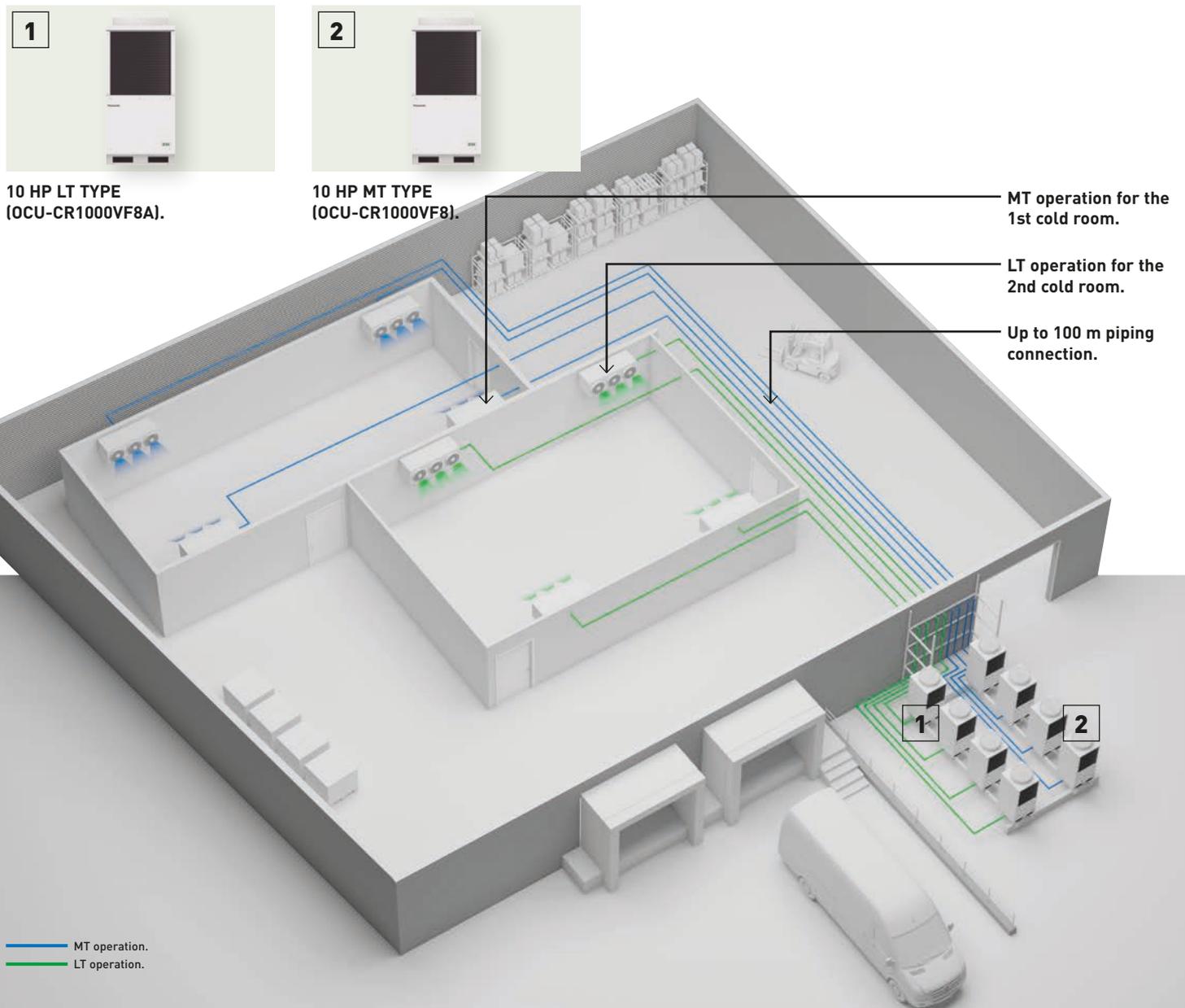
- CO₂ is an environmentally-friendly solution, with zero ODP and GWP (Global Warming Potential)=1
- No Quota, no shortage, no obsolescence
- European subsidies can be applied for better ROI
- Meets the latest F-gas regulation and Eco-design efficiency requirements

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.

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



The safe refrigeration systems for your healthcare business. CO₂ is the right refrigerant to curb carbon footprint of any business organization, bringing key advantages to the healthcare sector.



1 Risk management is a TOP priority for healthcare business

CO₂ is non-flammable and non-toxic refrigerant, therefore it's the ideal refrigerant in risk-management approach to healthcare applications and the most challenging business conditions.

2 Pharmaceutical products without any contamination risk

Pharmaceutical products must be handled and stored with the highest level of safety possible. As a non-toxic and non-flammable refrigerant, CO₂ is the refrigerant of choice to avoid any contamination in case of leakage.

3 Highly flexible and durable CO₂ condensing units

Compact unit profile and maximum 100 m piping length bring the right flexibility to the big size installations, such as hospitals and medical laboratories. Each unit has passed strict quality control from Panasonic, to comply with demanding working conditions specific to the healthcare industry.

4 Safety first for working environment

As a non-toxic and non-flammable refrigerant, CO₂ ensures high level of safety, from commissioning to maintenance, without any heavy administrative workload.

Case studies



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 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.

Country: France.

Project size: 4 x 1000VF8 and 4 x 1000VF8A.

Factors of success:

- 1 | Mandatory reliability from environmental-friendly solution, without any flammability, nor toxicity risk
- 2 | Plug-and-play, with sound monitoring capabilities
- 3 | Extended piping length, without drop in performance



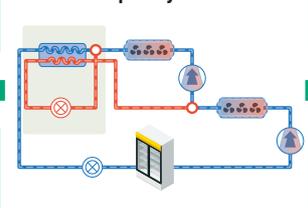
High performance and reliable quality by Panasonic

All units have been passed the strict quality control to meet high-quality expectation. Excellent performance of condensing units CR Series is the result of Panasonic technology and over 20 years of experience in CO₂.

2-stage rotary compressor



Split cycle



Excellent quality control



The video for detailed information is ready!



https://youtu.be/MyRkqbdnN_0

- Unique Panasonic 2-stage rotary compressor with more than 20 years experience
- 5 years warranty on compressor

- Split cycle* enhancing cooling effect
- Strict quality control by skilled team
- Local support by skilled and trained experts

* Available for 200VF5A and 1000VF8A models.

CO₂ Condensing units.



Standard model			OCU-CR200VF5A	OCU-CR400VF8	OCU-CR1000VF8	OCU-CR1000VF8A		
Anti corrosion coating model			OCU-CR200VF5ASL	OCU-CR400VF8SL	OCU-CR1000VF8SL	OCU-CR1000VF8ASL		
Type (MT: medium temp. LT: low temp.)			MT (4 kW) / LT (2 kW)	MT (7,5 kW)	MT (15 kW)	MT(16 kW) / LT (8 kW)		
Power supply	Voltage	V	220/230/240	380/400/415	380/400/415	380/400/415		
	Phase		Single phase	Three phase	Three phase	Three phase		
	Frequency	Hz	50	50	50	50		
Cooling capacity at ET -10 °C AT 32 °C		kW	3,70	7,10	14,00	15,10		
Cooling capacity at ET -35 °C AT 32 °C		kW	1,80	—	—	8,00		
Evaporator connection			Multiple	Multiple	Multiple	Multiple		
Evaporation temperature	Min ~ Max	°C	-45 ~ -5	-20 ~ -5	-20 ~ -5	-45 ~ -5		
Ambient temperature	Min ~ Max	°C	-20 ~ +43	-15 ~ +43	-15 ~ +43	-15 ~ +43		
Refrigerant			R744	R744	R744	R744		
Design pressure liquid line		Mpa	12	8	8	8		
Design pressure suction line		Mpa	8	8	8	8		
User system external alarm. Digital input. Non-voltage contact			Yes	Yes	Yes	Yes		
Liquid tube electromagnetic valve		Vac	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		
Modbus communication line (RS485)		Ports	2	2	2	2		
Compressor type			2- stage rotary	2- stage rotary	2- stage rotary	2- stage rotary		
Dimension	HxWxD	mm	930 x 900 x 437	948 x 1143 x 609	1941 x 890 x 890	1941 x 890 x 890		
Net weight		Kg	70	136	293	320		
Pipe diameter	Suction pipe	Inch (mm)	3/8(9,52)	1/2(12,70)	3/4(19,05)	3/4(19,05)		
	Liquid pipe	Inch (mm)	1/4(6,35)	3/8(9,52)	5/8(15,88)	5/8(15,88)		
Length of connection piping		m	25	50	100 ¹⁾	100 ¹⁾		
	Ambient temperature	°C	32	32	32	32		
Standard performance	Evaporating temperature	°C	-10	-35	-10	-10	-35	
	Cooling capacity	kW	3,70	1,80	7,10	14,00	15,10	8,00
	Power consumption	kW	1,79	1,65	4,00	8,20	8,20	7,57
	Nominal load ampere	A	7,94	7,26	6,14	12,60	12,60	11,60
	Sound pressure	dB(A)	35,5 ²⁾	35,5 ²⁾	33 ³⁾	36,0 ⁴⁾	36,0 ⁴⁾	36,0 ⁴⁾
PED	CAT		I	II	II	II		
Air flow		m ³ /min	54	59	220	220		
External static pressure		Pa	17	50	58	58		
Heat recovery port			—	—	—	Yes		

Accessories

PAW-CO2-PANEL	Room and superheat control including both panel + expansion valve
SPK-TU125	Tube connector adaptor for vacuum and service
CZ-CO2LBROL500	Lubrication oil PZ-68S (0,5 L)

Spare parts for service and maintenance

80203513179000	Suction filter, diameter 19,05 mm (outer diameter welding)
80203517115003	Lubrication oil PZ-68S (4 L)
80203517117000	Lubrication oil PZ-68S (0,5 L)
80203513180000	Filter dryer D-152T (type CO-082-S)
80203513179000	Filter dryer D-155T (type CO-085-S)

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



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heating & cooling solutions