

ENVIRONMENTAL SOLUTIONS FOR COMMERCIAL REFRIGERATION CDU-M - Product réf. R04A1B

Evaporating temperature	°(C)	-35	-30	-10	-5	+5
Cooling capacity	(kW)	2.0	2.16	4.33	4.87	5.6
Electric power input	(kW)	2.11	2.13	2.62	2.76	2.78
Operation temperature	Evaporating (Min/Max)	°(C)	-35 ~ +5			
	Ambient (Min/Max)	°(C)	-25 ~ +43			
Dimensions	Height x Width x Depth	(mm)	1.300 X 1.100 X 281*			
Weight		(kg)	107			
Noise pressure level ⁽¹⁾	1 meter away	(dB(A))	49			
Compressor	Type		Inverter Hermetic Scroll			
	Speed range	(Hz)	35 ~ 80			
Heat Exchanger	Type		Aluminium microchannel			
Refrigerant	Type / GWP		R744 (CO ₂) / 1			
Power Supply	Phases /Voltage/ Frequency	(-/V/Hz)	1 phase / 230/ 50 or 60			
Communication	Standard		Modbus			
PED	Category		1			
Maximum working pressure (MWP)	High pressure side	MPa	14			
	Low pressure side	MPa	9			



(1) Conditions : T° Ambient + 32°C, Compressor Speed 80hz

*without pipe cover

MAIN BENEFITS

- First 100% CO₂ refrigerant solution for convenient stores and small cooling capacities
- Extremely compact
- Very silent operation

- Very low refrigerant charge, absolutely neutral impact on the environment
- Modular, flexible and easy installation



SANDEN CO₂ Technology made in Europe

Natural refrigerant

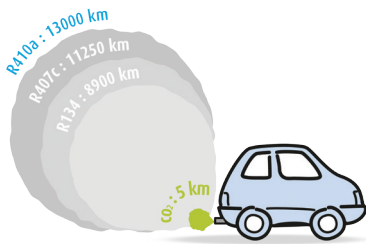
Non-flammable, non-toxic

CO₂ is one of the safest refrigerants. In case of accidental leak, there is no risk for the end-users or for the technician.

Reduced global warming potential

(GWP = 1)

Contrary to F-gases that are commonly used in the field of commercial refrigeration, CO₂ refrigerant has a minimal environmental impact (less green housing effect). Its global warming potential of 1 is at least 1,430 times smaller than HFCs. For instance, 1 kg of R410a = 2,100 tons of CO₂!



CO₂ refrigerant: At least to 1,430 times less greenhouse than commonly-used refrigerants!

SANDEN-made components

SANDEN designs and manufactures CO₂ compressors & exchangers used in its products.

Efficient systems require efficient components. We design and manufacture the CO₂ compressors, gas coolers and evaporators that are assembled in all SANDEN product ranges. That is how we ensure the best quality standards.



Design and manufacturing

For optimized performance in real-life conditions

With 54 locations in 23 countries, SANDEN is committed to providing the most optimized solutions to local markets. The launch of commercial refrigeration products range results from an intense collaboration between Japanese and European engineers.

Expertise in CO₂ technology

Strong experience in multiple applications

The SANDEN group has developed unique knowledge in CO₂ technology encompassing a large panel of applications. SANDEN manufactures CO₂ heat pump water heaters, vending machines and retail refrigeration systems worldwide.



SandenVendo G-Drink vending machine based on SANDEN CO₂ technology

