

PROFROID

Low carbon heating production

HeatCOOL₂ CM



High-temperature
Commercial heat pump
CO₂ natural refrigerant –
Water source – CM range



Up to 90°C hot water
production



High efficiency



Simple / intuitive touch
screen / PLC controlled



2 levels of heat
in one unit



Ejector technology



Connect to BMS, smartphone,
tablet, web server, and more



Simultaneous
heating and cooling



Compact Footprint



PFAS/TFA free
refrigerant

Brochures
available
here:



80–290 kW

AC cooling capacity



100–350 kW

heating capacity

HeatCO ₂ OL CM WW		CM140WW	CM170WW	CM210WW	CM240WW	CM270WW	CM350WW
Nominal point: heating water in 30°C, out 60°C. Cooling water in 12°C, out 7°C							
Heating capacity (water in / out: 30/60°C)	kW	140	170	210	240	270	350
Cooling capacity (water in/out: 12/7°C)	kW	110	140	170	195	220	290
COP		4,0	3,9	4,0	4,0	4,0	4,0
EER		3,2	3,3	3,3	3,3	3,3	3,3
Eq. SEER (1)		4,4	4,3	4,4	4,4	4,4	4,4
Total COP (Cooling and heating)		7,1	7,1	7,2	7,3	7,3	7,3
Input Power	kW	34	43	52	59	66	86
Flow rate heating 30/60°C	m³/h	4	5	6	7	8	11
Flow rate cooling 12/7°C	m³/h	19	24	29	34	38	50
Nominal point: heating water in 30°C, out 70°C. Cooling water in 12°C, out 7°C							
Heating capacity (water in / out: 30/70°C)	kW	140	170	210	240	270	350
Cooling capacity (water in/out: 12/7°C)	kW	105	140	170	195	220	290
COP		3,8	3,7	3,8	3,8	3,8	3,8
EER		3,1	3,2	3,2	3,2	3,2	3,2
Eq. SEER (1)		4,4	4,3	4,4	4,4	4,4	4,4
Total COP (Cooling and heating)		6,7	6,7	6,9	6,9	6,9	6,9
Input Power	kW	34	44	53	61	69	90
Flow rate heating 30/70°C	m³/h	3	4	5	5	6	8
Flow rate cooling 12/7°C	m³/h	18	24	29	34	38	50
Physical properties							
Number of compressors		2	3	3	3	3	4
CO ₂ charge (2)	kg	150	160	160	160	160	180
Connection water side hot	mm/DN	35	35	35	42	42	54
Connection water side cold	mm/DN	65	65	65	80	80	80
Indoor version*							
Dimensions	L	mm	3220	3220	3220	3220	3820
	W	mm	800	800	800	800	800
	H	mm	1950	1950	1950	1950	1950
Operationnal weight (CO ₂ + water included) (2)	kg	2700	2700	2700	2700	2700	3000
Sound pressure level @10m (3)	dB(A)	49,5	50,4	51,3	51,3	51,8	53,4
Electrical data for 400/3/50 + N / EN / Short circuit current 15kA							
Maximum operating current	A	84	105	126	126	159	212
Nominal electric current	A	70	83	98	105	120	160

* outdoor version available

(1) SEER, we use Directive 2009/15/EC of the European Parliament and of the Council with regard to Ecodesign requirements as reference.

(2) Estimated Value – to be charged and adjusted on site

(3) The sound pressure levels are mentioned in free field. Running the equipment in other conditions may lead to different results. The results obtained on the installation site may differ from those in this leaflet, due to sound reflections from walls, etc. The reduction of sound level as a function of distance is theoretical and sound reflection and resonance may alter the results, either on total sound level or on certain frequencies.

HeatCOOL CM

Main options:

- Outdoor housing version with / without sound proofing
- Hydraulic pumps control
- Modbus, RS485/RTU, TCP communication
- Global electrical energy measurement
- Inverter drive on compressor N°2
- Smart control for several units in parallel
- 2 circuits with different temperature levels of hot water production to maximize performance
- Other options on request



PROFROID

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