Carrier
Commercial Refrigeration

Low carbon heating production

HeatCOOL CO_2 CM

High-temperature Commercial heat pump CO_2 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:

140–290 kW AC cooling capacity

150–350 kW heating capacity

HeatCO2OL CM WW		CM 140WW	CM 170WW	CM 210WW	CM 240WW	CM 270WW	CM350WM
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		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		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	3220	3820
Dimensions W	mm	800	800	800	800	800	800
Dimensions H	mm	1950	1950	1950	1950	1950	1950
Operationnal weight (CO_2 + water included) (2)	kg	2700	2700	2700	2700	2700	3000
Sound pressure level @10 m (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

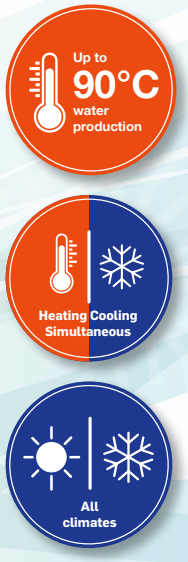
** outdoor version available*
(1) SEER, we use Directive 2009/15/EC of the European Parliament and of the Council with regard to Ecodesign requirements as areference.
(2) Estimated Value – to be charged and adjusted on site
(3) The sound presure levels are mentioned in free field. Running the equipment 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.

HeatCO2OL 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

- **Water source / Air source**
- **Packaged evaporator / split versions for commercial AW ranges**
- **Reversible: Heat in winter / AC and domestic hot water in summer**



More than 23 000 CO_2 units produced

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