



Low carbon heating production

Heat COOL₂ CS



**High-temperature
Commercial heat pump
CO₂ natural refrigerant –
Water source – CS 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 Foot print



PFAS/TFA free refrigerant



30–130 kW

AC cooling capacity



40–150 kW

heating capacity

Main options:

- Outdoor housing version with / without sound proofing
- Hydraulic pumps control
- Modbus, RS485/RTU communication
- Global electrical energy measurement
- Inverter drive on compressor N°2
- Up to 3 hot water temperature levels to maximize performance
- Other options on request

HeatCO ₂ OL CS WW		CS 45WW	CS 70WW	CS 95WW	CS 110WW	CS 135WW
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	45	70	95	110	135
Cooling capacity (water in/out: 12/7°C)	kW	35	55	75	90	110
COP		3,8	3,8	3,9	3,9	3,9
EER		3,0	3,1	3,1	3,2	3,2
Eq. SEER (1)		4,2	4,2	4,3	4,3	4,3
Total COP (Cooling and heating)		6,8	6,8	7,0	7,1	7,1
Input Power	kW	12	18	24	28	35
Flow rate heating 30/60°C	m ³ /h	1	2	3	3	4
Flow rate cooling 12/7°C	m ³ /h	6	9	13	16	19
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	45	70	95	110	135
Cooling capacity (water in/out: 12/7°C)	kW	35	55	75	90	110
COP		3,6	3,6	3,7	3,7	3,7
EER		2,9	3,0	3,0	3,1	3,1
Eq. SEER (1)		4,2	4,2	4,3	4,3	4,3
Total COP (Cooling and heating)		6,4	6,4	6,6	6,7	6,7
Input Power	kW	12	18	25	29	35
Flow rate heating 30/70°C	m ³ /h	1	2	2	2	3
Flow rate cooling 12/7°C	m ³ /h	6	9	13	16	19
Physical properties						
Number of compressors		2	3	3	3	3
CO ₂ charge (2)	kg	100	100	110	110	110
Connection water side hot	mm/DN	22mm	28mm	35mm	35mm	35mm
Connection water side cold	mm/DN	35mm	42mm	50	65	65
Indoor version*						
Dimensions	L	800	800	800	800	800
	W	1900	1900	1900	1900	1900
	h	1250	1250	1250	1250	1250
Operational weight (CO ₂ + water included) (2)	kg	1400	1600	1600	1600	1600
Sound pressure level @10m (3)	dB(A)	40,0	41,8	42,8	42,8	49,8
Electrical data for 400/3/50 + N / EN / Short circuit current 15kA						
Maximum operating current	A	37	55	67	67	68
Nominal electric current	A	28	38	48	51	58

* 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.

HeatCOOL₂ IL
District heating



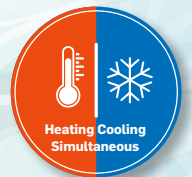
HeatCOOL₂ IM
Apartment blocks



HeatCOOL₂ IS
Industry | hotel



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



HeatCOOL₂ cs
School | offices
commercial building

HeatCOOL₂ CM
School | offices | hospital
commercial building | hotel



More than
23 000₂
units produced

