PROFROID

Low carbon heating production

HeatCOOL CS

High-temperature Commercial heat pump CO_2 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
- Sumultaneous heating and cooling
- Compact Foot print
- PFAS/TFA free refrigerant

Brochures available here:

30–130 kW AC cooling capacity

40–150 kW heating capacity

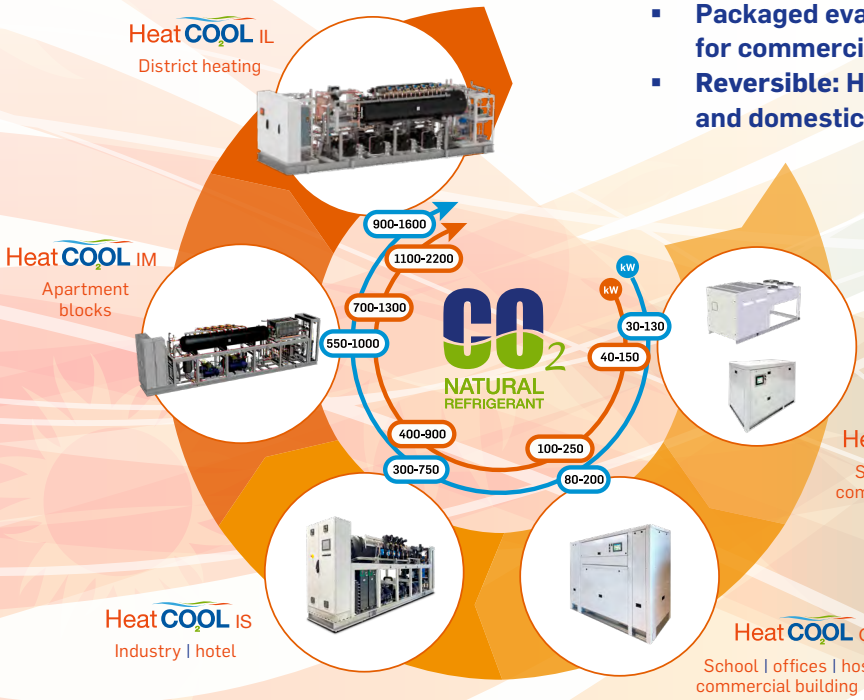
HeatCO2OL CS WW		CS 45WW	CS 70WW	CS 95WW	CS 110WW	CS 135WW
Nominal point: heating water in 30°C, out 60°C. Cooling water in 12°C, out 7°C						
Heating capacity (water in / out: 30/60°C)	kW	45	70	95	110	135
Cooling capacity (water in/out: 12/7°C)	kW	35	55	75	90	110
COP		3,8	3,8	3,9	3,9	3,9
EER		3,0	3,1	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	m³/h	1	2	3	3	4
Flow rate cooling 12/7°C	m³/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	m³/h	1	2	2	2	3
Flow rate cooling 12/7°C	m³/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	mm	800	800	800	800	800
Dimensions W	mm	1900	1900	1900	1900	1900
Dimensions h	mm	1250	1250	1250	1250	1250
Operationnal weight (CO_2 + water included) (2)	kg	1400	1600	1600	1600	1600
Sound pressure level @10 m (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 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 afunction of distance is theoretical and sound reflection and resonance may alter the results, either on total sound level or on certain frequencies.

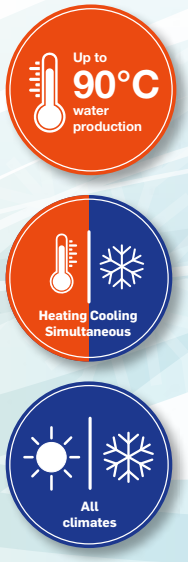
HeatCO2OL CS

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 20 000 CO_2 units produced

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www.profroid.com