Carrier

Low carbon heating production

HeatCOOL IS

High-temperature Industrial heat pump CO_2 natural refrigerant – Water source – IS range

- Up to 90°C hot water production
- High efficiency
- Simple / intuitive touch screen / PLC controlled
- 3 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:

300–750 kW AC cooling capacity

400–900 kW heating capacity

HeatCO2OL IS WW		IS 460WW	IS 580WW	IS 650WW	IS 790WW	IS 910WW
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	460	580	650	790	910
Cooling capacity (water in/out: 12/7°C)	kW	370	470	530	640	740
COP		3,6	3,7	3,6	3,7	3,6
EER		3,0	3,0	3,0	3,0	3,0
Eq. SEER (1)		4,5	4,5	4,3	4,5	4,5
Total COP (Cooling and heating)		6,5	6,7	6,5	6,7	6,5
Input Power	kW	121	154	176	213	249
Flow rate heating 30/60°C	m³/h	13	17	19	23	26
Flow rate cooling 12/7°C	m³/h	64	81	91	110	128
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	460	580	650	790	915
Cooling capacity (water in/out: 12/7°C)	kW	370	470	530	640	740
COP		3,5	3,6	3,5	3,6	3,5
EER		3,0	3,0	3,0	3,0	3,0
Eq. SEER (1)		4,5	4,5	4,3	4,5	4,5
Total COP (Cooling and heating)		6,3	6,5	6,4	6,5	6,3
Input Power	kW	121	154	176	213	249
Flow rate heating 30/70°C	m³/h	10	13	14	17	20
Flow rate cooling 12/7°C	m³/h	64	81	91	110	128
Physical properties						
Number of compressors		4	5	5	5	5
CO_2 charge (2)	kg	510	510	520	550	550
Connection water side hot	DN	50	65	65	65	65
Connection water side cold	DN	100	125	125	150	150
Indoor version*						
Dimensions L	mm	5200	6145	6145	6145	6145
Dimensions W	mm	1000	1000	1000	1000	1000
Dimensions h	mm	2200	2200	2200	2200	2200
Operationnal weight (CO_2 + water included) (2)	kg	6400	6400	6700	7300	7500
Sound pressure level @10 m (3)	dB(A)	58,4	59,4	59,2	61,6	62,7
Electrical data for 400/3/50 + N / EN / Short circuit current 15kA						
Maximum operating current	A	282	353	468	437	437
Nominal electric current	A	218	267	341	363	413

** 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 IS

Main options:

- Outdoor housing version with / without sound proofing
- Hydraulic pumps control
- Modbus, RS485/RTU, TCP communication
- Electrical energy measurement for compressor
- Electrical energy measurement for pumps
- 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

www.carrier-refrigeration.com