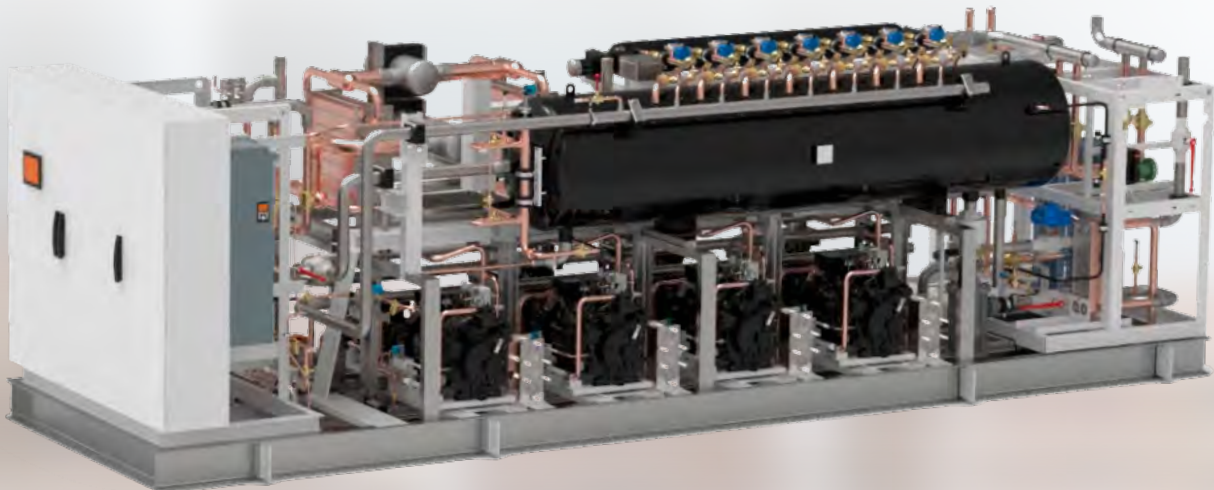


PROFROID

Low carbon heating production

Heat COOL IL



High-temperature Industrial heat pump CO₂ natural refrigerant – Water source – IM 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



Simultaneous heating and cooling



Compact Foot print



PFAS/TFA free refrigerant

Brochures available here:



900–1600 kW AC cooling capacity



1100–2200 kW heating capacity

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

HeatCO ₂ IL IL WW		IL 1450WW	IL 1600WW	IL 1740WW	IL 1870WW	IL 2030WW
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	1450	1600	1740	1870	2030
Cooling capacity (water in/out: 12/7°C)	kW	1175	1300	1410	1520	1645
COP		3,5	3,6	3,5	3,6	3,5
EER		2,9	2,9	2,9	2,9	2,9
Eq. SEER (1)		4,2	4,3	4,2	4,3	4,2
Total COP (Cooling and heating)		6,3	6,5	6,3	6,5	6,3
Input Power	kW	404	443	484	518	565
Flow rate heating 30/60°C	m³/h	42	46	50	54	58
Flow rate cooling 12/7°C	m³/h	203	224	243	262	284
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	1470	1620	1760	1890	2055
Cooling capacity (water in/out: 12/7°C)	kW	1185	1305	1420	1525	1655
COP		3,4	3,5	3,4	3,5	3,4
EER		2,8	2,8	2,8	2,8	2,8
Eq. SEER (1)		4,2	4,3	4,2	4,3	4,2
Total COP (Cooling and heating)		6,1	6,3	6,1	6,3	6,1
Input Power	kW	423	466	507	545	591
Flow rate heating 30/70°C	m³/h	32	35	38	41	44
Flow rate cooling 12/7°C	m³/h	204	225	245	263	285
Physical properties						
Number of compressors		5	6	6	7	7
CO ₂ charge (2)	kg	1400	1900	1900	1950	1950
Connection water side hot	DN	100	100	100	100	100
Connection water side cold	DN	200	200	200	250	250
Indoor version*						
Dimensions	L	6345	8340	8340	8340	8340
	W	2200	2200	2200	2200	2200
	h	2200	2200	2200	2200	2200
Operational weight (CO ₂ + water included) (2)	kg	14600	16100	16600	17700	18200
Sound pressure level @10 m	dB(A)	70,4	70,1	71,2	70,7	71,8
Electrical data for 400/3/50 + N / EN / Short circuit current 15kA						
Maximum operating current	A	850	1020	1020	1190	1190
Nominal electric current	A	730	817	871	946	1011

* 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 a 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.



Profroid reserves the right to change certain information and specifications contained in this document at any time and without prior notice. Since standards, specifications and designs are subject to occasional change, please ask for confirmation of the information given in this publication

