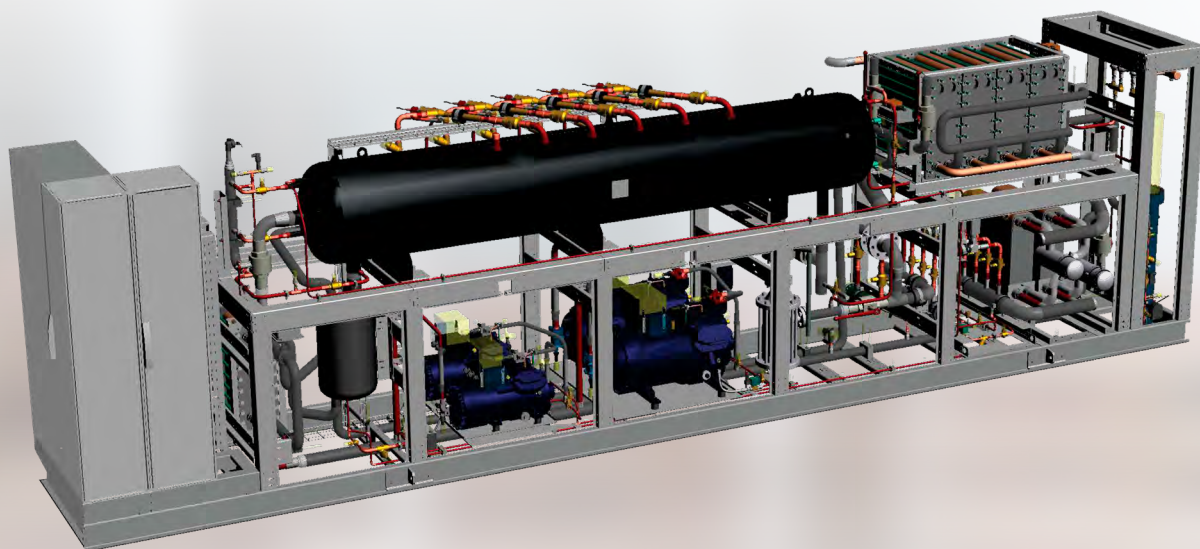


PROFROID

Low carbon heating production

Heat COOL₂ IM



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:



550–1000 kW AC cooling capacity



700–1300 kW heating capacity

HeatCO ₂ OL IM WW		IM900WW	IM1070WW	IM1120WW	IM1160WW	IM1340WW
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	900	1070	1120	1160	1340
Cooling capacity (water in/out: 12/7°C)	kW	720	870	900	940	1085
COP		3,4	3,6	3,4	3,5	3,6
EER		2,8	2,9	2,8	2,9	2,9
Eq. SEER (1)		4,1	4,3	4,1	4,2	4,3
Total COP (Cooling and heating)		6,1	6,5	6,1	6,3	6,5
Input Power	kW	256	296	320	323	370
Flow rate heating 30/60°C	m³/h	26	31	32	33	39
Flow rate cooling 12/7°C	m³/h	124	150	155	162	187
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	5200	6145	6145	6145	6145
	W	1000	1000	1000	1000	1000
	h	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 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 IM

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



More than
20 000₂
units produced

PROFROID

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

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