

PROFROID

Proven Solutions.
Cooling | Heating
Sustainable. Efficient.

MiniCOOL₂ compact

The new CO₂ transcritical refrigeration system for supermarkets and small industrial applications



Shorter delivery time



CO₂ natural refrigerant
GWP=1



Heat reclaim for heating and sanitary hot water



Simple and intuitive mini pack controller



Large receiver size (188L, 300L)



60 bar service pressure



Robust frame providing silent operation



Advanced capacity control



Open frame and improved accessibility

Brochures available here:



45–190 kW MT cooling capacity



0–57 kW LT cooling capacity



The innovation continues at www.profroid.com

MiniCOOL₂compact

General information	
Compressors configurations (MT + LT)	3 + 2 / 3 + 1 / 3 + 0
Length (standard / with e-cabinet / with e-cabinet + heat reclaim)	2344 / 2842 / 3355 mm
Height x Width	1995 x 850 mm
Design pressure (LT / MT / Receiver / HP)	30 / 52 / 60 / 120 bar
Controller brands	Danfoss / Carel / Eckelmann

Heat reclaim function

Heat can be reclaimed for sanitary hot water (tap water) or/and heating.
Both usages can be combined by using 2 exchangers.

		Heating water temperature*	Heat exchanger model & max capacity				Tap water
			Type 1	Type 2	Type 3	Type 4	
	Sanitary hot water	+25°C/65°C					50 kW max
		+40°C/45°C		63 kW max		88 kW max	
	Heating	+20°C/45°C	113 kW max		204 kW max		
		+25°C/45°C	104 kW max		187 kW max		
		+30°C/50°C	81 kW max		141 kW max		
		+35°C/45°C		74 kW max		130 kW max	
		+50°C/60°C	46 kW max		80 kW max		
		+30°C/45°C	81 kW max		156 kW max		

Main options:

- Active oil management
- Optical oil level monitoring OLC K1
- Larger receiver, up to 300L
- Receiver emergency cooler (GFU)
- LT suction accumulator
- MT and LT suction valve + filter
- Connection for liquid level installation on site (DNI or Ice smart)
- CR11 control on MT compressor N°1
- Inverter for LT compressor N°1
- Support from our experts for commissioning

Conditions:

- P CO₂: 85 bar
- T CO₂ inlet: +115°C
- Pressure drop (water side): 30 kPa
- CO₂ flow rate: 60 % of the total
- CO₂ outlet: depending water temperatures

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