

# PROFROID

Proven Solutions.  
**Cooling | Heating**  
Sustainable. Efficient.

## MiniCOOL<sub>2</sub> compact

The new CO<sub>2</sub> transcritical refrigeration system for supermarkets and small industrial applications



CO<sub>2</sub> 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](http://www.profroid.com)

# MiniCOOL<sub>2</sub> compact

| 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 CO<sub>2</sub>: 85 bar
- T CO<sub>2</sub> inlet: +115°C
- Pressure drop (water side): 30 kPa
- CO<sub>2</sub> flow rate: 60% of the total
- CO<sub>2</sub> outlet: depending water temperatures

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