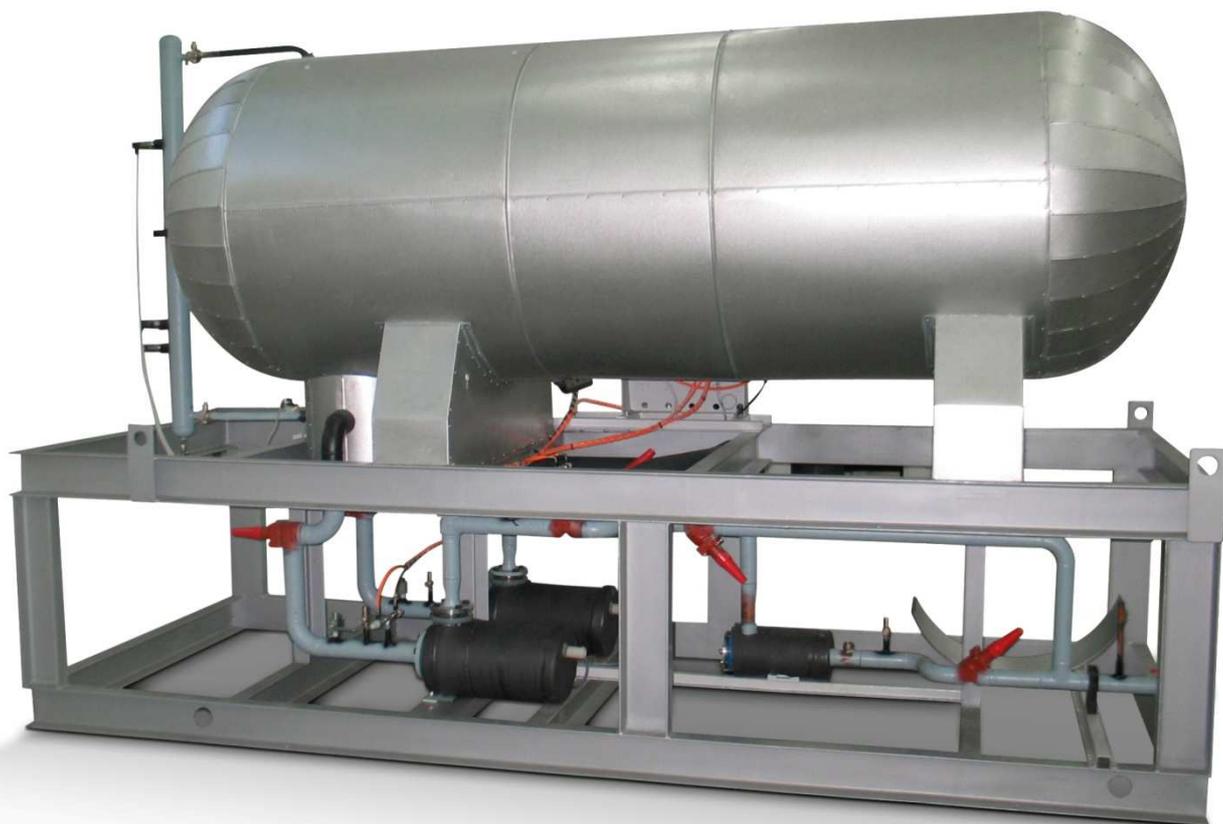


## Product Line: CO<sub>2</sub> Pump Circulation systems



Leader in the CO<sub>2</sub> systems production with more than 1000 units running all over Europe and after 10 years of research and development, SCM FRIGO is able to provide customers with the largest range of R744 pumped solutions.

Our mission is to deliver always the best solution ensuring reliability and energy efficiency at lowest operational costs. We supply regularly to our customers both Medium and Low Temperature applications for commercial and industrial refrigeration.

## System introduction

The system is a CO<sub>2</sub> pump circulation system for MT or LT operation. The unit includes MT or LT receiver connected to a pump station consisting in two canned motor pumps (Hermetic or Grundfos), 1 in operation and 1 in stand-by. The system is able to make an automatic switch between the pumps in case of alarm of the operating pump or by timer. Carel or Danfoss controls.

The receiver is equipped with minimum level switch or a continuous level guard (optional).

Receiver volumes available: 300, 600, 800, 1200, 1600, 2300 liter.

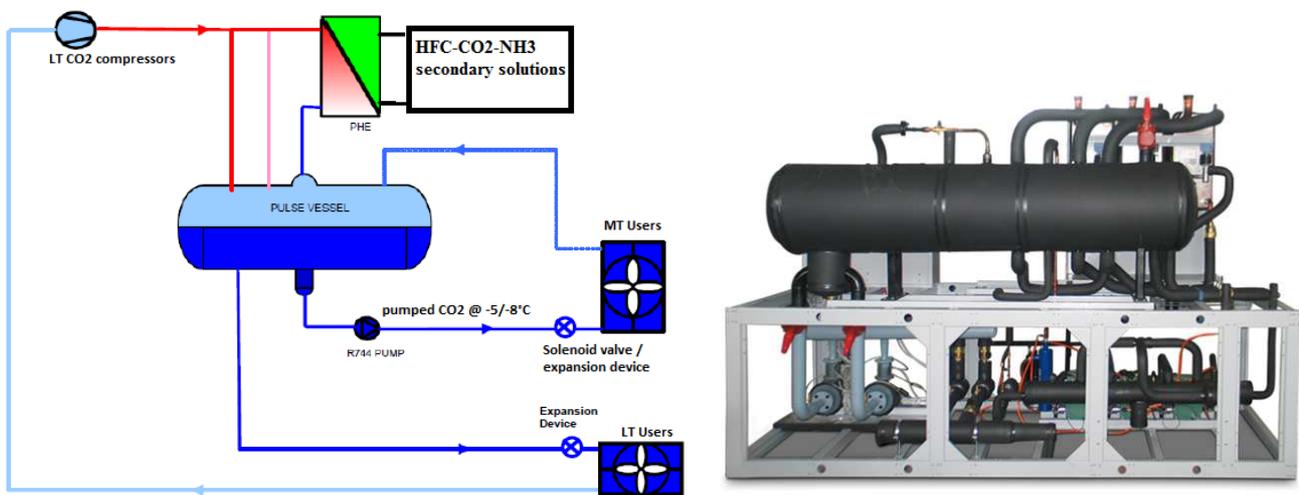
## Range and configuration

### Medium Temperature pump station

The CO<sub>2</sub> liquid is condensed at -5 /-8°C in the receiver trough cascade condensers installed on the unit. The pumps are delivering liquid CO<sub>2</sub> to the MT users. The unit can be equipped with the LT direct expansion stage (UMCE range) connected to the liquid receiver.

**Capacity range 100-800 kW.**

Design pressure: 45 bar (other pressures on request).



### Low Temperature pump station

The CO<sub>2</sub> liquid maintained at low temperature (down to -45°C) with a LT compressor pack (UMCE or LT Booster) connected directly to the top of the receiver. The pumps are delivering liquid CO<sub>2</sub> to the LT users.

An high efficiency oil management ensure an optimum oil flow in inside the system.

**Capacity range 50-500 kW.**

Design pressure: 30 bar (other pressures on request).

