

SCM Frigo Around the World

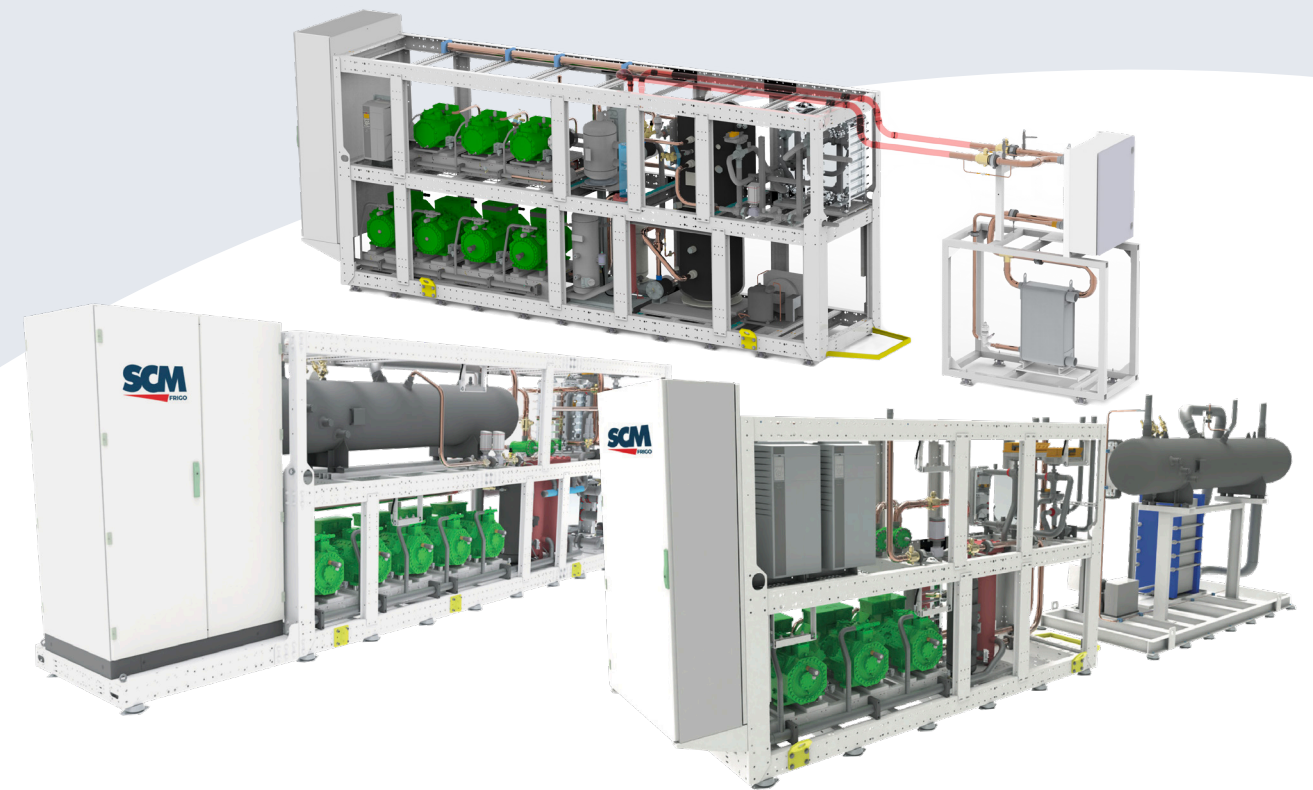
A Global CO₂ Leader

Headquarters Venice, Italy









SUSTAINABLE COLD SOLUTIONS

CHILLER^R TRANSCRITICAL CO₂ CHILLER RACK



Why CO₂?

Natural Refrigerant
R744 (CO₂)

-  Zero ODP (Ozone Depletion Potential)
-  Ultra-low GWP
(Global Warming Potential = 1)
-  Energy-efficient in most climates
-  Non-toxic, non-flammable
-  Compliant with F-Gas regulations
-  Ideal for commercial & industrial applications



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A **BEIJER REF** Company

Main Advantages



HIGH ENERGY EFFICIENCY



COMPACT AND MODULAR
DESIGN



SMART CONTROLS



PLUG-AND-PLAY
INSTALLATION



SUSTAINABLE AND SAFE
REFRIGERANT



WIDE CAPACITY RANGE



OUTDOOR INSTALLATION
READY

We know the art of achieving
a perfect temperature

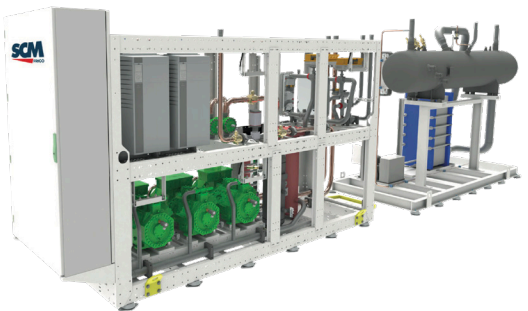
BEIJER REF

TRANSCRITICAL CO2 CHILLER RACK



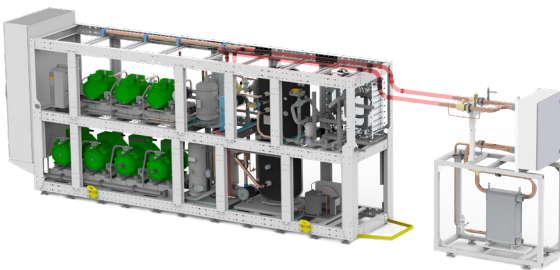
Capacity Range ONLY MT 73-425 kW

CO2 transcritical commercial chiller with flooded evaporator for medium temperature.
Suitable for Glycols and non corrosive brines.
8 models from 2 to 6 compressors.



Capacity Range ONLY MT 229,2-451 kW

CO2 transcritical industrial chiller with flooded evaporator for medium temperature.
Suitable for CaCl2 , ammonia-water and other industrial brines.
6 models from 3 to 6 compressors.



Capacity Range 25-250 kW

Direct expansion chiller modules.
Modular, compact and easy to install also in existing plant.
Suitable for all non-corrosive brines.
9 models

COMMERCIAL AND INDUSTRIAL CHILLER



Standard Accessories

- Coalescent high efficiency oil separator
- Oil reservoir with minimum level switch
- Replaceble oil filter strainer
- Electronic oil level regulator for each compressor
- Flooded evaporator with surge drum and oil rectification system, for commercial or industrial use (separate frame in industrial version).
- Suction superheater PHE (GCout/Suction) + 3 way modulating bypass valve
- Suction filter strainer
- Danfoss controller
- Common discharge manifold for PRV
- Full factory tested and programmed
- Design pressure: 120/80 bar for commercial and 120/60 bar for industrial versions

Accessories on Request

- TW and SH heat recovery + 3 way bypass valve
- Water cooled gas cooler
- Hot gas injection on suction side
- PS: 130/80 bar for commercial and 130/60 bar for industrial versions
- Carel control
- Energy meter
- Commercial: PNC solution and walk-in enclosure for outdoor installation
- Industrial: parallel compressor and vapour ejector

CHILLER MODULE

Dimensions

The module is a stand alone module that can be connected with any of the range of transcritical unit and is suitable for cooling water or non corrosive brines. The range:

MODEL	Qo	# PHE	FRAME DIMENSIONS		
	[kW]		L [mm]	W [mm]	H[mm]
Chiller S	25 - 100	1	1165	605	1850
Chiller M	125 - 175	1	1375	605	1950
Chiller L	200 - 250	2	1500	900	1950