

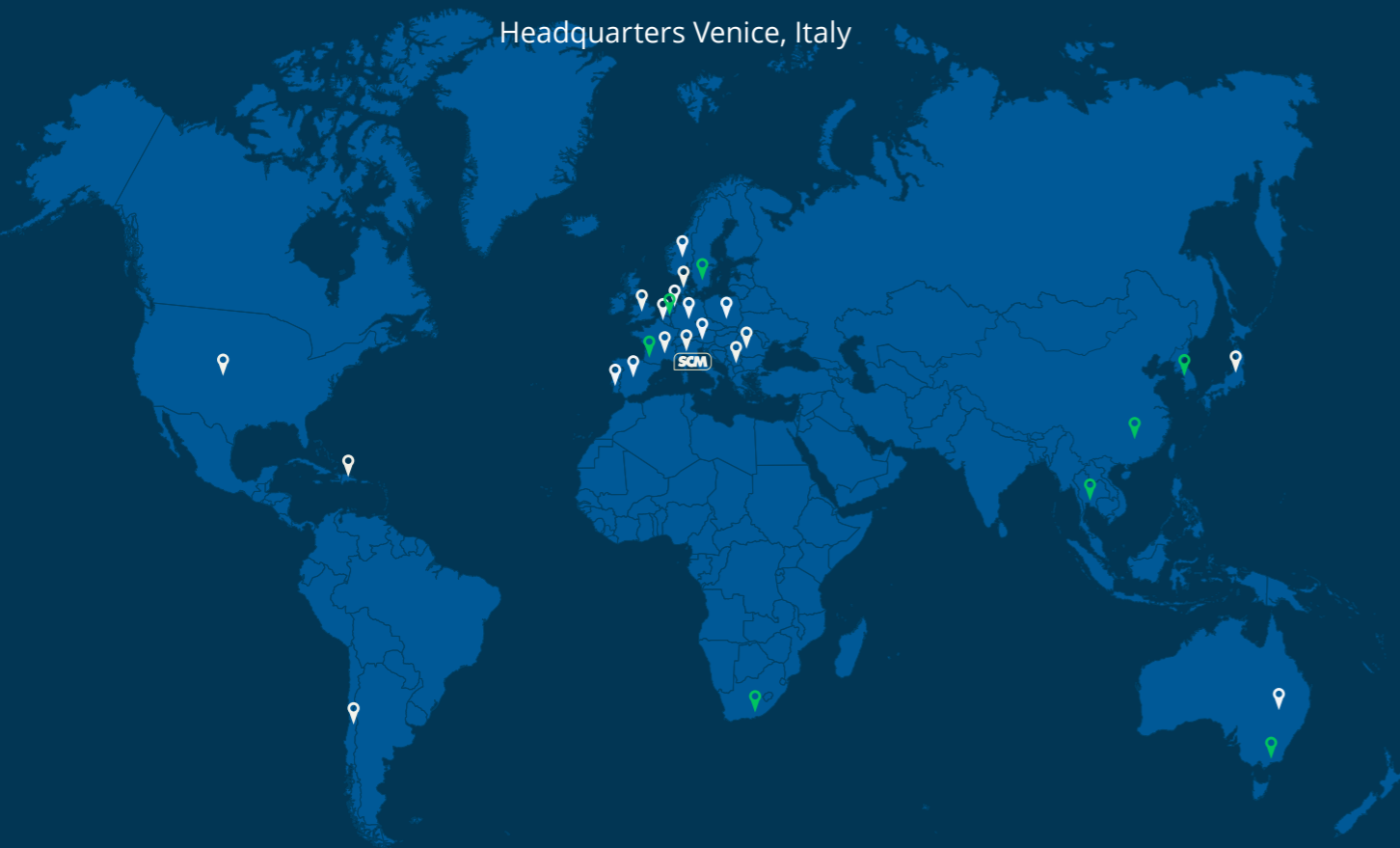
# SCM Frigo Around the World

A Global CO2 Leader

Headquarters Venice, Italy

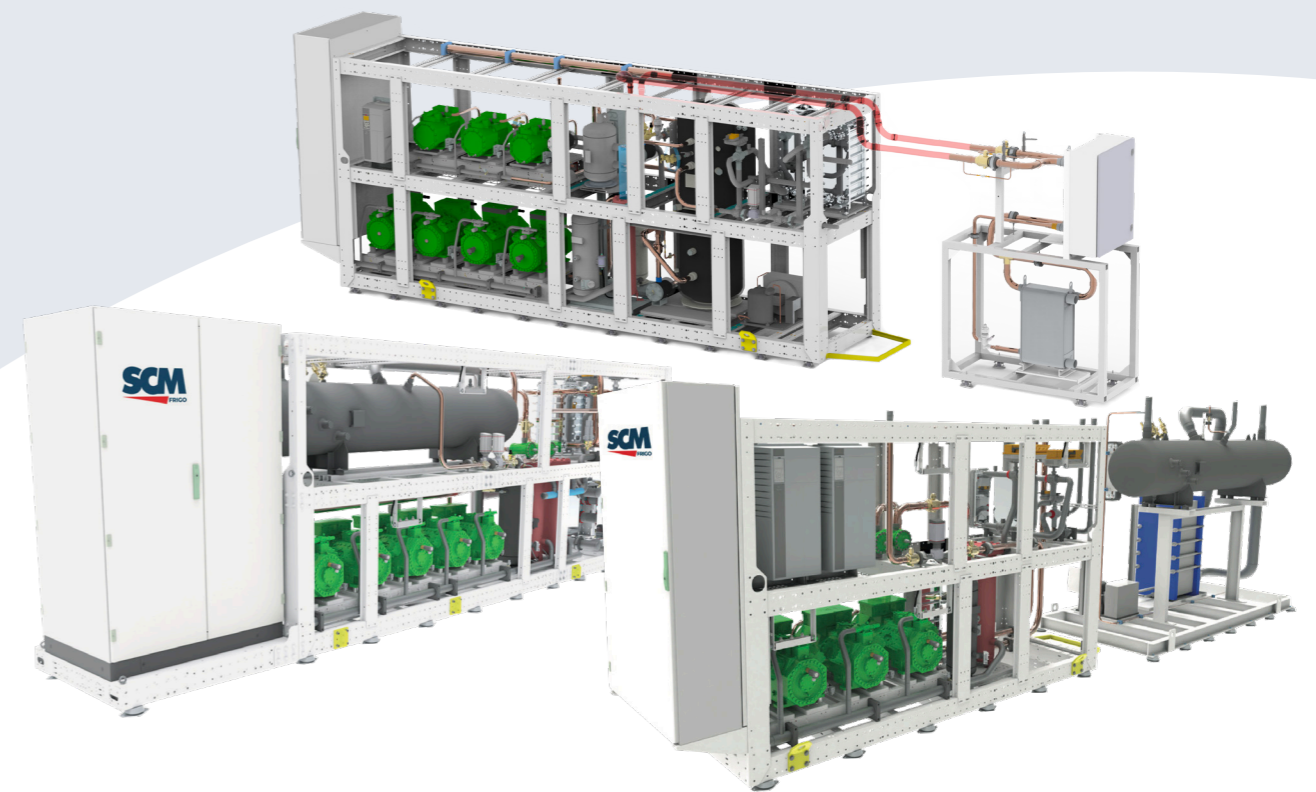


SUSTAINABLE COLD SOLUTIONS



## CHILLER

### Transcritical CO<sub>2</sub> Chiller Rack



### Why CO<sub>2</sub>?

Natural Refrigerant  
R744 (CO<sub>2</sub>)

- 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*



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# TRANSCRITICAL CO<sub>2</sub> CHILLER RACK



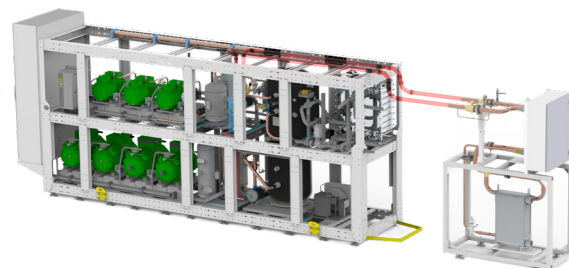
## CHILLER COMMERCIAL

Capacity Range ONLY MT 73 - 425 kW  
 CO<sub>2</sub> transcritical commercial chiller with flooded evaporator for medium temperature.  
 Suitable for Glycols and non corrosive brines.  
 8 models from 2 to 6 compressors.



## CHILLER INDUSTRIAL

Capacity Range ONLY MT 230 kW - 500 kW  
 CO<sub>2</sub> transcritical industrial chiller with flooded evaporator for medium temperature.  
 Suitable for CaCl<sub>2</sub>, ammonia-water and other industrial brines.  
 6 models from 3 to 6 compressors.



## CHILLER MODULE

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
- Replaceable 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	Q <sub>o</sub>	# 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

