

## CO<sub>2</sub> Training Center



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 has a full training and development centre in the factory in Italy. Full access to this facility is granted to our customers to enable ongoing training and if there are specific requirements from customers to test away from site then this facility is available.

## The Training Center

The new CO<sub>2</sub> Training Center by SCM FRIGO S.p.A. is now active.  
The training room is equipped with a CO<sub>2</sub> BOOSTER system that works on IT and LT loads.  
The refrigerating unit is designed to work with various compressor brands (BITZER, BOCK, COPELAND or DORIN) and with CAREL or DANFOSS controls (other controllers very soon).

## The Training Agenda

### Day one

- Why choose CO<sub>2</sub> as Refrigerant?
- Safety considerations when using CO<sub>2</sub> as a refrigerant
- CO<sub>2</sub> systems introduction:
  - Transcritical booster
  - Subcritical dx – cascade system
  - Pump circulation MT and LT
- SCM CO<sub>2</sub> product range
- CO<sub>2</sub> special applications:
  - Heat recovery with CO<sub>2</sub>
  - Hot gas defrost
  - Air Conditioning
- Case story
- **Factory Visit**



### Day Two

#### Practical demonstrations on the following topics:

- Plant room entry procedure and gas detection function.
- Safety guidelines when using R744
- Refrigeration circuit and design pressures
- Compressors
- HP and MP valve operation
- Oil management system
- Filter drier and bypass
- Resilience unit operation
- Manometers and transducers
- Gas cooler operation
- Starting the system
- Operating temperatures and pressures.
- Limits and safety devices (pressure switches, PRVs)
- Service & maintenance aspects
- Evacuating & Charging

End of the session & Delivery of the **Attendance Certificate**