

The UK's Premium Industrial CO₂ Refrigeration Solutions

- Fully packaged Industrial CO₂ Refrigeration
- Engineered & Built in the UK to the highest standards
- Two Year on site Warranty
- Market leading quality control
- Low noise
- Remote control monitoring
- Wider system design services



CO vasto operates using Carbon Dioxide (CO₂) as a refrigerant. CO₂ is a naturally occurring, non toxic and non flammable refrigerant. Whilst being an incredibly energy efficient, sustainable refrigerant, CO₂ is a highly effective working fluid and is perfectly suited to industrial capacity refrigeration applications.

With the use of Dual Circuit Gas Coolers CO vasto can provide two fully independent systems mirrored within a single housing offering the highest level of installation resilience. isentra supply Gas Coolers & De-superheaters with a full range of corrosion protection, noise and control options.

Standard equipment

- Containerised plant housing
- Available in 20ft & 40 ft container formats
- Gas Coolers can be mounted above with galvanised service gantry and stair for the ultimate compact foot print
- Fire escape
- Low noise - Specialist acoustic lining
- LED Lighting with emergency feature
- Infrared refrigerant Leak Detection
- Acoustic AL150 air-intake louver
- EC Fan Ventilation
- Emergency Extract & Thermostatic temperature control
- Structural openings & flange plates for pipe work and services
- TCP IP Network switches
- 4G machine to machine VPN modem - Full IoT connectivity

Technical configuration

- Evaporation Duties ranging from 250 kW to 1.2 mW
- Evaporation temperatures from -50°C to +10 °C
- **Combinations of Multiple DX suction temperature sections including:**
 - Chill
 - Blast Chill
 - Frozen
 - Blast Freezer

Available Variants:

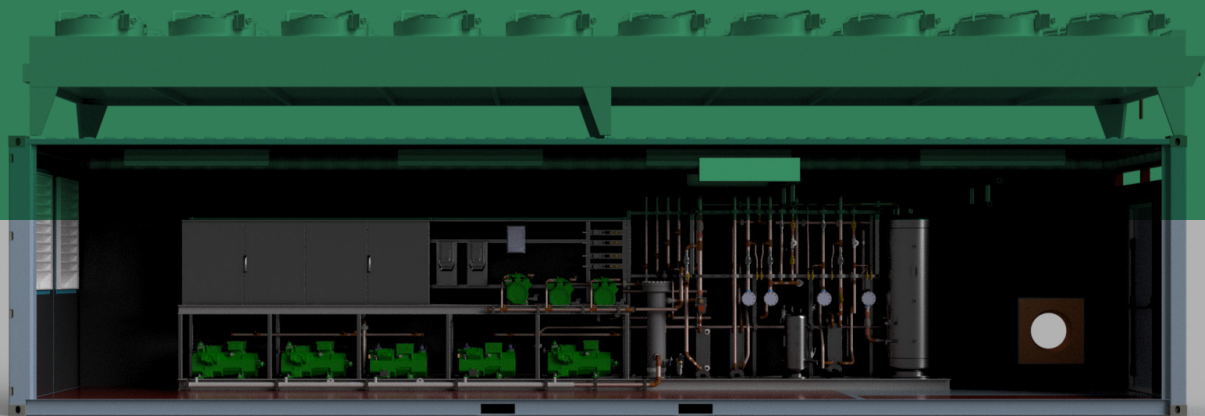
- Subcritical and Transcritical
- Water Cooled
- Flooded CO2 Thermosyphon Glycol Chiller
- Flooded CO2 Pumped wet return

Technologies

- Parallel Compression
- Innovative Heat Recovery
- Ejector Technology
- Saturated defrost

Other options available

- Suction Line accumulators
- Gas Cooler located in top of the container
- Two Inverters Per Suction Section
- Suction Pressure Regulation - for Blast applications
- Energy meters
- Heat & Flow meters
- Integral Hydronic system including Pumping sets & Control



isentra support services

- Fully supported from within the UK
- On site Commissioning
- Wider system Design Service
- Assistance with PED and site compliance
- Full Training available
- Bespoke PLC integration software
- Digital remote alarm monitoring
- Digital remote Control Optimisation

CO vasto product applications

- Food Logistics and Warehousing
- Coldstores
- Food & Pharma Production Areas
- Blast Chillers
- Spiral Freezers
- Glycol Chillers

