



superblock

industrial monoblocks

Monoblock refrigeration units designed for large cold room refrigeration at medium, high and low temperature, as well as high humidity applications.

***superblock** series cover compressor power range from 2 to 30 HP in a very compact design, combining the latest refrigeration technologies with traditional effective solutions.*

Each model has been designed to work under extreme ambient conditions with minimum maintenance needs.

***superblock** units are environmentally friendly, providing a high performance, low refrigerant load in an hermetic circuit and low noise level.*

- ✦ Reduced R-404A refrigerant load.
- ✦ Quick installation into the cold room wall frame.
- ✦ Tropicalised design for ambient temperature up to 45 °C.
- ✦ 100% factory tested and adjusted units for the highest performance.
- ✦ Acoustic isolated hermetic compressors.
- ✦ Minimum maintenance needs, with easy access through folding panels.

superblock

Description

Refrigeration monoblock units built in a galvanised steel shell with polyester coating, designed for outdoors installation through a cold room wall, with easy maintenance access through folding panels.

Features

- 400V-III-50Hz power supply.
- R404A refrigerant.
- Hermetic reciprocating or scroll compressors, with noise insulation, discharge muffler (for reciprocating compressor models), mounted on shock absorbers, with internal klixon and crankcase heater.
- Large area condensing coil, in copper pipes and aluminium fins, tropicalised for ambient temperature up to 45 °C.
- High efficiency evaporating coil, in copper pipes and aluminium fins, with 5 mm fin spacing. Stainless steel drain tray.
- Low-speed condensing motor-fans, with internal electronic protection, mounted on nozzles, dynamically balanced blades and external protection grille.
- Long-range evaporating axial motor-fans, mounted on nozzles, dynamically balanced blades and external protection grille.
- Proportional control of condensation temperature by fan speed control.
- Refrigeration circuit equipped with high and low pressure switches, dehydratant ceramic filter and thermostatic expansion valve pre-adjusted at factory.
- Hot gas defrosting for MCH, HCH and BCH series, and air defrosting for ACH series. Electrical heater defrosting available as an option.
- Full control and power panel, with thermal and magnetothermal protection for compressor/s, fan/s and heaters.
- Multifunctional electronic control with remote control keyboard.
- Insulating pad in injected polyurethane with 45 kg/m³ density.

Series

ACH - High temperature (+9 °C... +15 °C)

Monoblock units designed for high temperature application cold rooms, handling and process rooms, pre cold rooms and refrigerated loading docks.

MCH - Positive temperature (-5 °C... +10 °C)

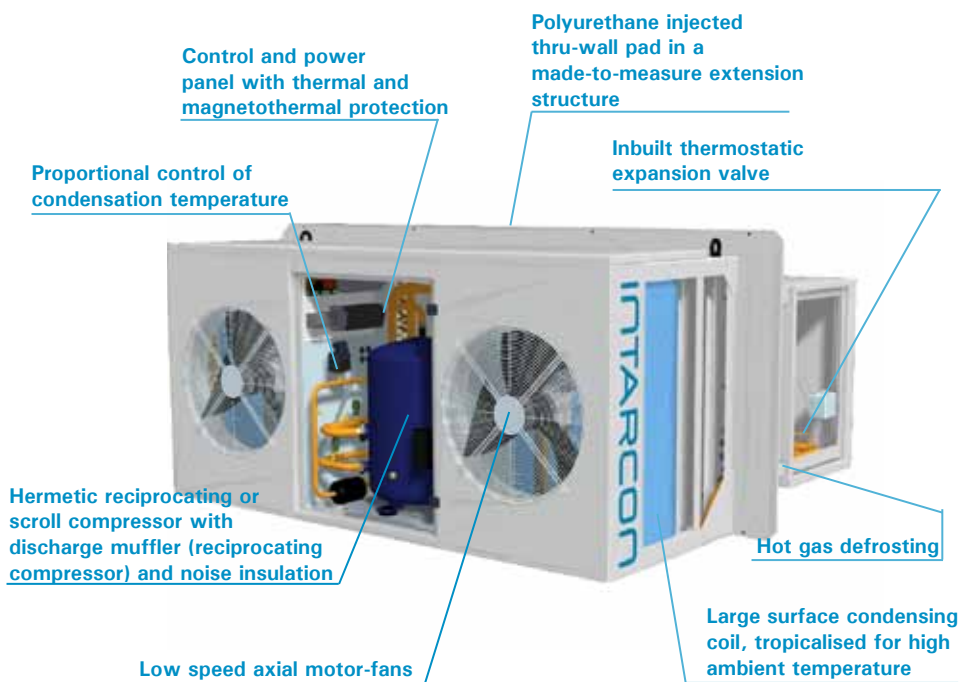
Monoblock units designed for preservation of generic products at medium temperature cold rooms.

HCH - High relative humidity (0 °C 95% HR... +10 °C 90% HR)

Monoblock units designed for positive temperature cold rooms with high humidity needs, like for applications of preservation of fruits and vegetables.

BCH - Negative temperature (-30 °C... -15 °C)

Monoblock units designed for preservation of frozen products at negative temperature cold rooms.



As an option

- Made-on-measure extension structure for trough-wall assembly.
- Anticorrosion coil coating.
- Electrical defrosting by electrical heaters inside the coil.
- Long range air streamer in evaporating fans (for 1 and 3 series).
- Powered motor-fans for textile and fabric ducts with an available pressure of 80 Pa.
- Electronic regulation in a master/slave connection for up to 8 units.
- Optional module for external communication by ModBus protocol and RS485 connection.
- Protection system for voltage drop and phase failure.