



TEKNOTHERM



CO₂ Indoor DX Cooling unit

Packaged indoor air-condition units, specifically developed for cooling of data rooms or switch board rooms with a raised floor. However, the units can also be delivered with plenum for air grille supply or support duct connections. The refrigerant used is CO₂, Carbon Dioxide, a refrigerant with no ODP or GWP impact. The CO₂ refrigerant is neither flammable or toxic and not subject to the F-Gas regulation. A future safe refrigerant!

DESIGN

Units are connected to an external air cooled or water-cooled CO₂ gas cooler (see separate information leaflets). The gas coolers normally have an inlet temperature limitation of +20°C for water and +25°C for ambient air. Due to these cooling temperature limitations the CO₂ compressors can operate in either subcritical or transcritical condition.

UNITS

- The units are equipped with G4 air filters, semi hermetic variable speed driven compressors and EC fans
- Casing can be made from painted Zink plated steel or stainless steel AISI 316L material
- Cooling coils are made from K65 Copper tubes with fins made from Copper or Aluminum
- The coils can also be provided with various protective coatings on request
- Three cabinet sizes S/M/L are available. See next page for more information
- The outlet air side can be executed in various alternatives (Down flow, Grill or Duct Connection)

MAINTENANCE

- Maintenance is easily done through a 700 mm wide door that allows access to all internal components.
- Air filters are changed from the top of the units.



Heating



Ventilation



Air Conditioning

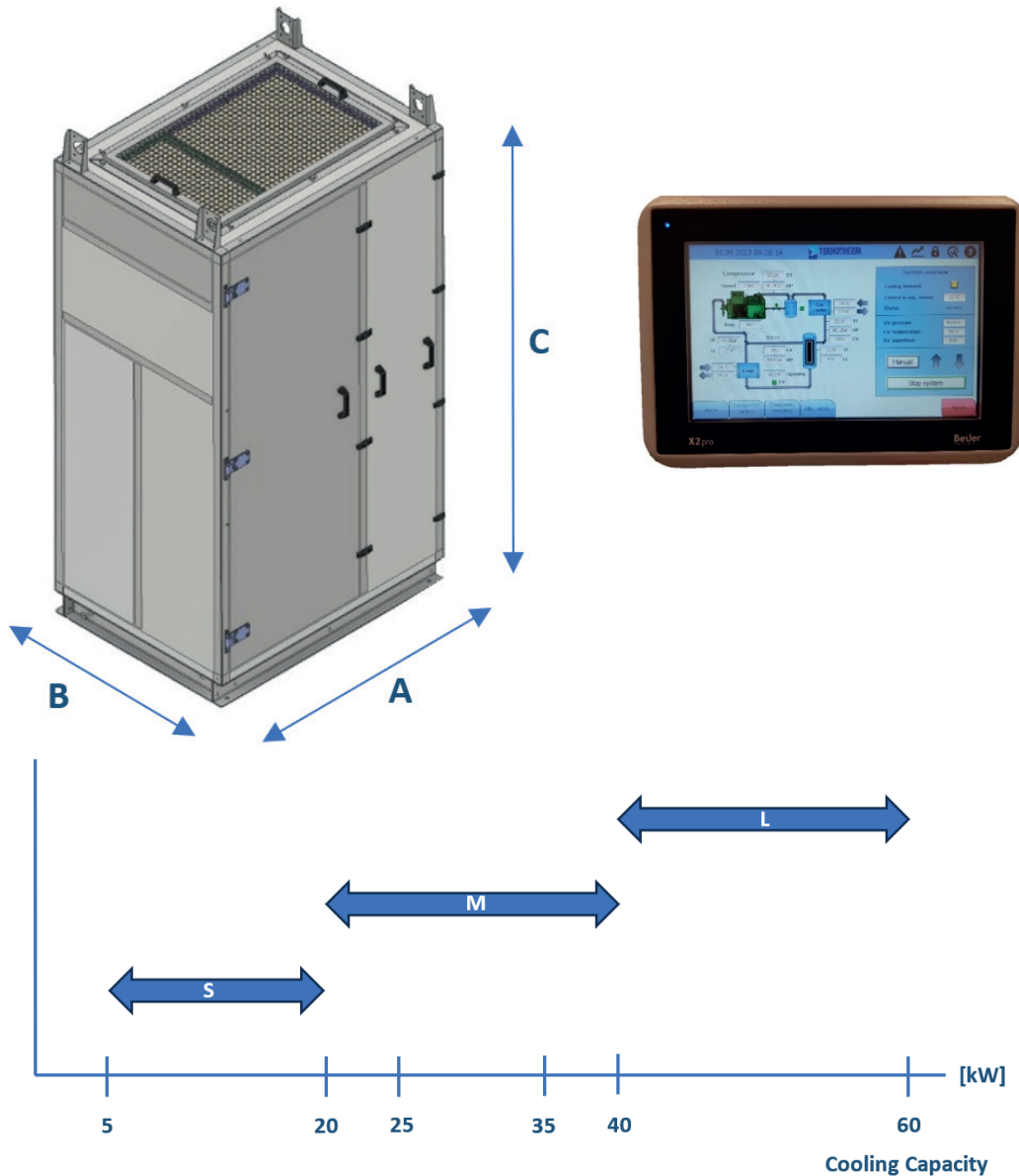


Refrigeration



Size	S	M	L
Cooling capacity	5 - 20 kW	20 - 40 kW	40 - 60 kW
Air flow @15°C	1000 - 4000 m ³ /h	4000 - 8000 m ³ /h	8000 - 12000 m ³ /h
Shipping weight	700 kg	800 kg	1150 kg
A (width)	1200 mm	1500 mm	1600 mm
B (depth)	900 mm	900 mm	900 mm
C (height)	2100 mm	2100 mm	2600 mm

The units can be delivered for voltage 3x400V-50Hz or 3x690V-50Hz.



Our Indoor DX Cooling Units are tailor-made to meet **customers demand**.

