



TEKNOTHERM



CO₂ Module chiller

Packaged indoor Module Marine Water Chillers, specifically developed for cooling of waterflows used for HVAC and refrigeration purposes. The units can be combined in a modular manner meaning that units can be replaced, added or removed easily leading to an increase in system flexibility and maintenance efficiency. 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

The entire refrigeration process takes place within the chiller unit while the cooling distribution is done by a chilled waterflow from the unit to the cooling demand. The excess heat is taken care of in a similar manner through a heated waterflow leading to an external air cooled dry cooler or a water cooled heat exchanger. The CO₂ compressors can operate in either subcritical or transcritical condition.

UNITS

- The units are equipped with a control panel, semi hermetic variable speed driven compressors and internal plate heat exchangers.
- Casing can be made from painted Zink plated steel or stainless steel AISI 316L material.
- Two cabinet sizes S/L are available. See next page for more information.
- The units are delivered ready for commissioning.
- The units are provided with its own control system based on Schneider PLC with Modbus communication possibilities.
- The units can be combined by stacking them next to each other.

MAINTENANCE

- Maintenance is easily done through a front door that allows access to all internal components. All surrounding panels are removable as well.
- The units are easy to replace, thus maintenance can be performed elsewhere.



Heating



Ventilation



Air Conditioning

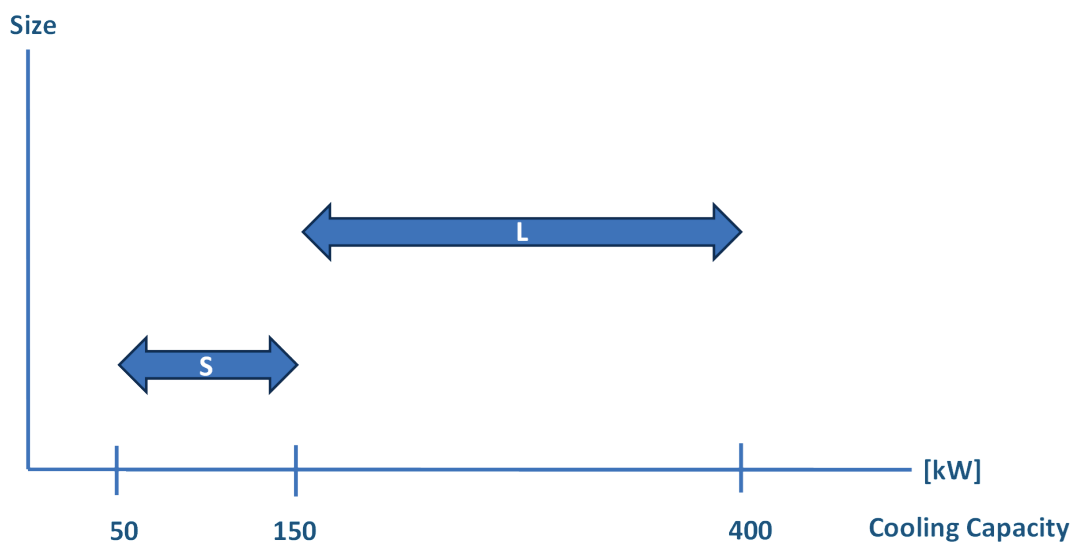
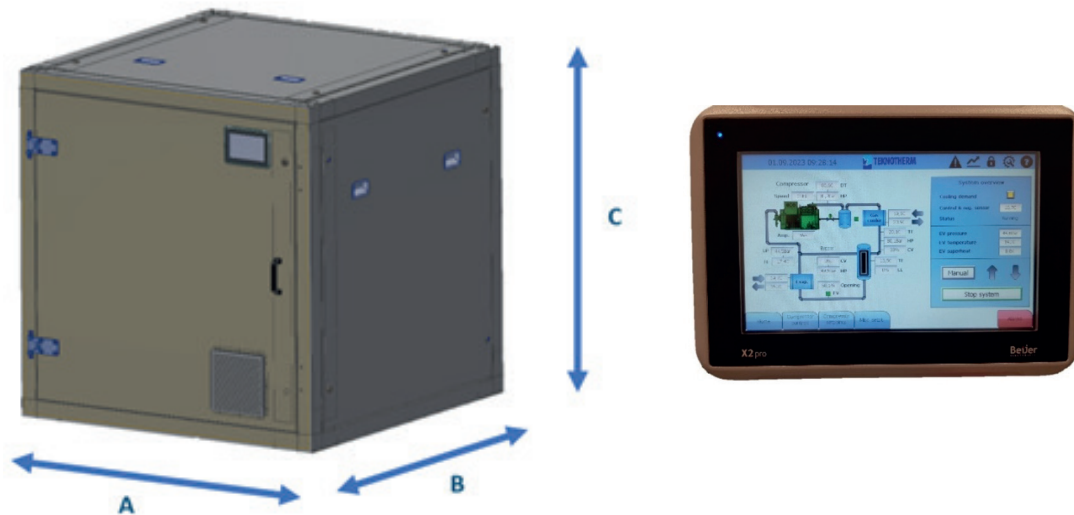


Refrigeration



Size	S	L
Cooling capacity	50 - 150 kW	150 - 400 kW
Std. chilled water temp.	Outlet +6°C / Inlet +12°C	Outlet +6°C / Inlet +12°C
Dry weight	950 kg	1450 kg
Operating weight	980 kg	1510 kg
A (width)	1300 mm	2000 mm
B (depth)	1300 mm	1500 mm
C (height)	1300 mm	1300 mm

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



Our CO₂ Module Chillers are tailor-made to meet **customers demand**.

