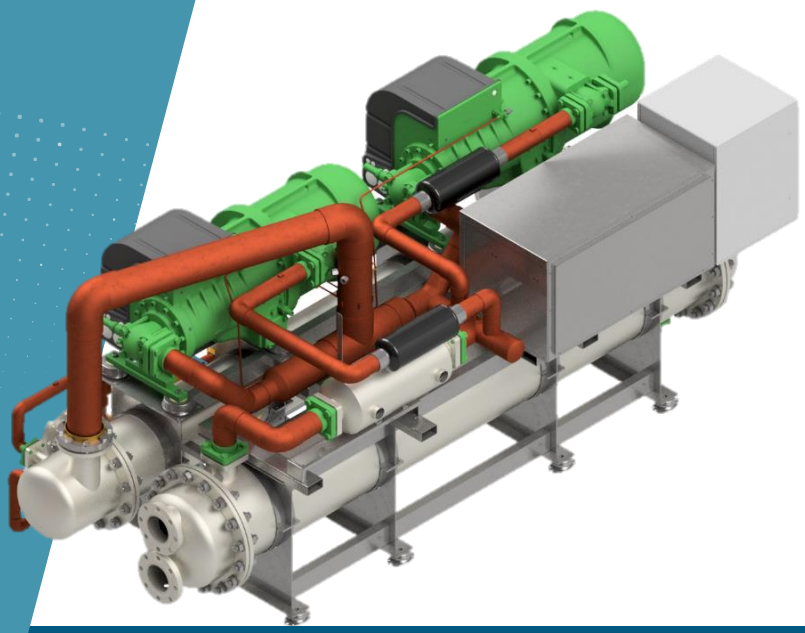
CI700E2

Chiller unit
DATASHEET



Maximum cooling capacity	[kW]	700
Maximum power source	[kW]	120
EER*		5,7

Power supply:	380 - 440 Vac / 50-60 Hz 3ph (700 Vdc on request)
Sea water pump:	Centrifugal. 3500 lt/min. Full duplex. Inverter
Loop water pump:	3000 lt/min. Inverter
Loop/sea water pipe:	5”/5”
Refrigerant:	R1234yf, R513a or R134a
Compressors:	2x Bitzer screw compressor inverter
Capacity range:	15 – 100%
Size W x D x H:	3600 x 1300 x 1350 mm
Weight:	2750 Kg
Sea water working range:	+3°C to +40°C
Air working range:	-20°C to +50°C
Noise:	Compressor @ 50% – 78db @ 1 meter from the unit
Waste heat recovery:	Shell & Tube titanium exchanger with 50kw capacity

Databus rs485 modbus on board
Note: Cooling capacity rated @ 30°C of sea water.

*At 60% of the chiller maximum load

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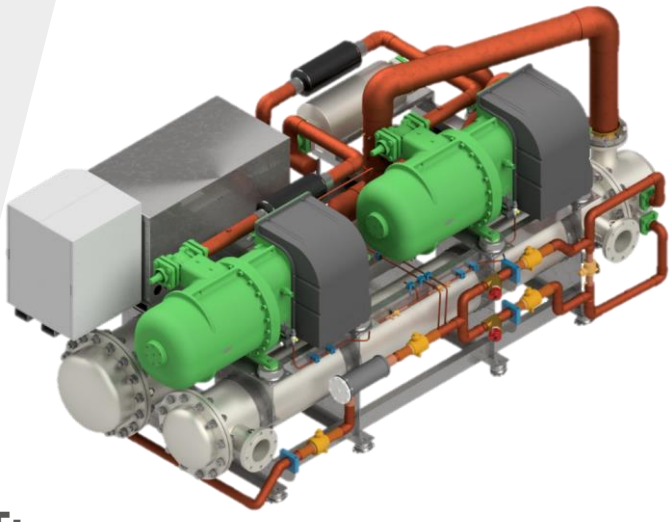
MAIN FEATURES



CONDENSER:
Titanium Grade 2. No fouling, no corrosion. 3 times lighter than copper

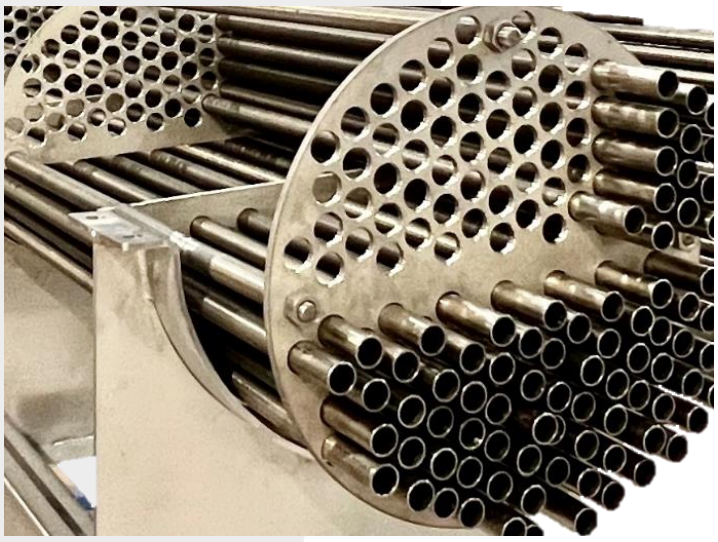
COMPRESSOR:
BITZER compact screw compressor with variable speed 15 – 100%

FRAME:
Titanium or Stainless Steel 316/304

SOFTWARE MANAGEMENT:
Compressor high temperature, low temperature, high pressure condenser, low pressure compressor, electronic pressure gas, electronic pressure liquid, Condensation control, Evaporation control, Electronic expansion valve.

COMPRESSOR PROTECTION:
Over/undervoltage, overcurrent, torque, winding temperature, stepout (bad lubrication), power input, power output, efficiency, overload, oil level with infraredoptical sensor

ELECTRONICS:
Microprocessor board with rs485 modbus RTU communication.
Interface with Termodinamica air handling units and fresh air units



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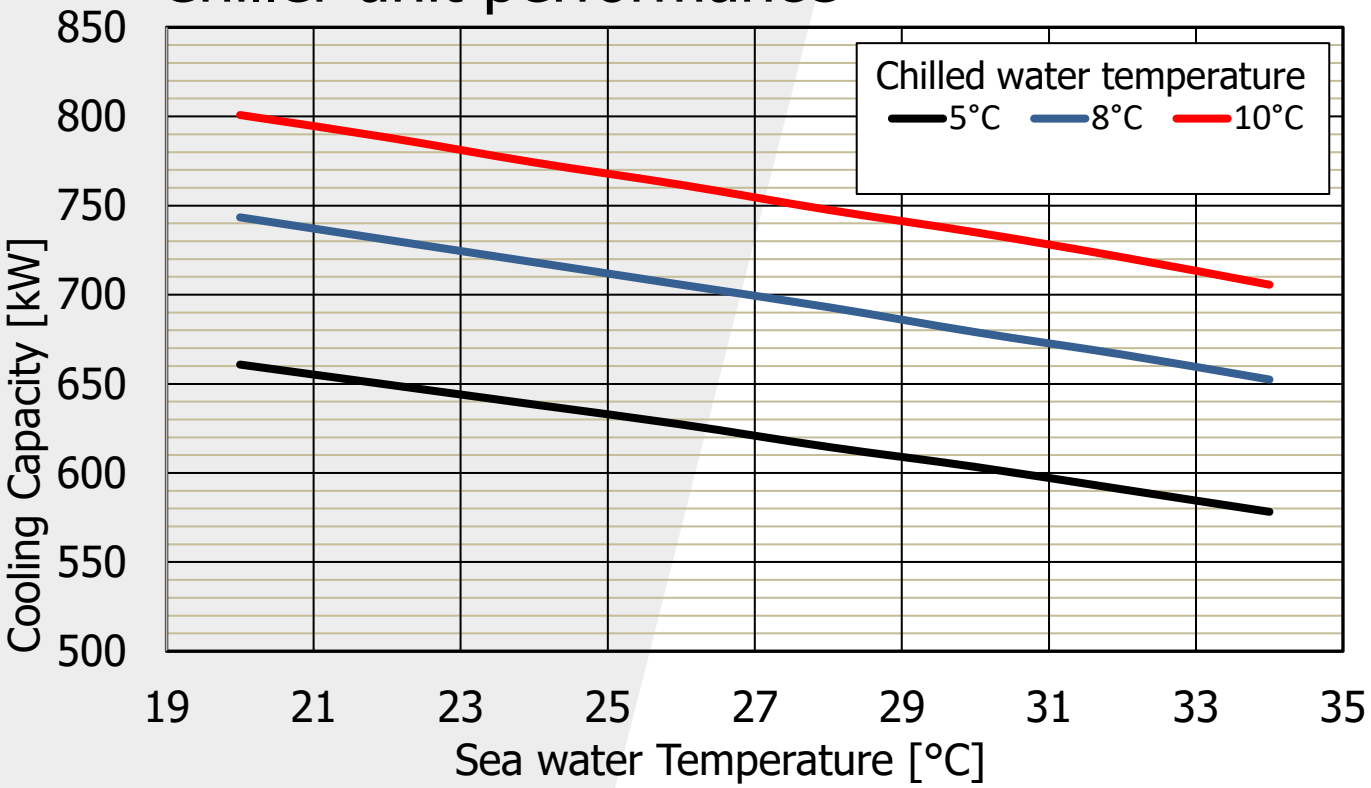
PERFORMANCE

Chiller unit performance



Chiller unit Efficiency