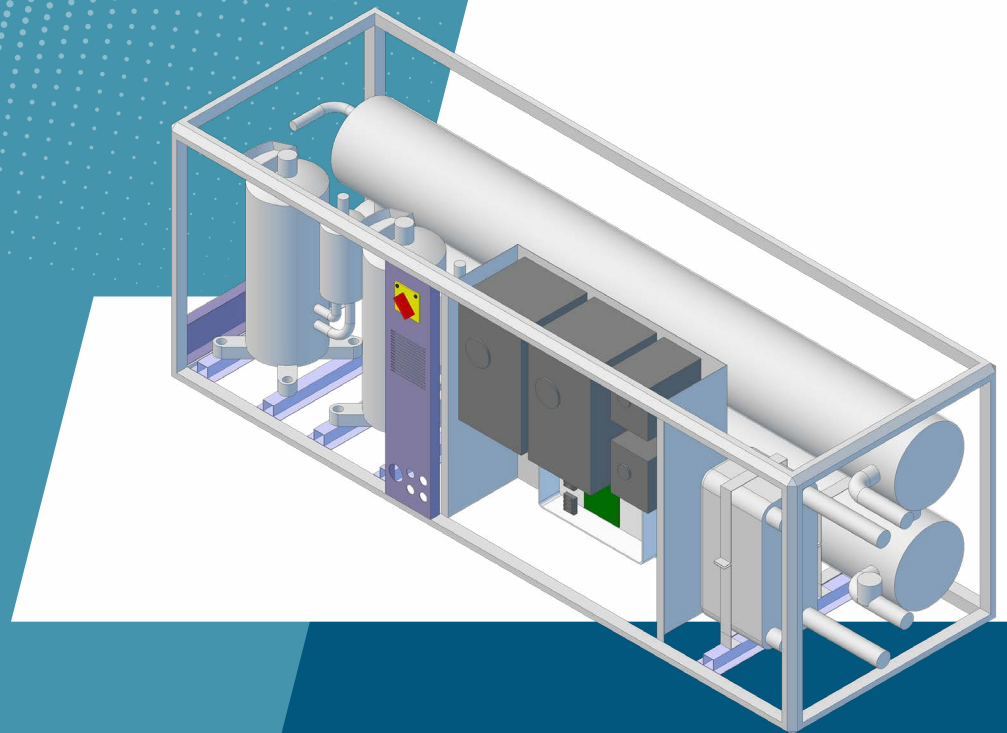


CI100E2 chilled water loop

DATASHEET



Cooling power	min. 10,00	std 80.000	max. 100,00 Kwatt
Power source	min. 2,50	std. 20,00	max. 30,0 Kwatt
Heating power	min. 10,00	std. 80,00	max. 105,0 Kwatt
Power source	min. 2,50	std. 20,00	max. 31,0 Kwatt

Power supply:	380 - 440 Vac / 50-60 Hz 3ph 700 Vdc on request	
Sea water pump:	2 x Centrifugal 500 lt/min.	
Water pipe size:	2"	
Size W x D x H:	1800 x 700 x 800 mm	
Weight:	225 Kg	
Sea water working range:	+3°C to +40°C	Option polar water: -5°C
Air working range:	-20°C to +50°C	

Compressor box use VRV inverter architecture with refrigerant circulation inside air handler

Databus rs485 modbus on board

System based on Toshiba VFD and twin rotary compressor



CONDENSER:

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



EVAPORATOR:

Alfa Laval plate heat exchanger SS316, silver and copper welded



COMPRESSOR:

Toshiba inverter twin rotary. COP > 4 Rotation speed: 600 to 6000 rpm



FRAME:

Aluminum silver anodized, Stainless Steel 316



SOFTWARE MANAGEMENT:

Compressor high temperature, low temperature, high pressure condenser, low pressure compressor, electronic pressure gas, electronic pressure liquid, Condensation control, Evaporation control



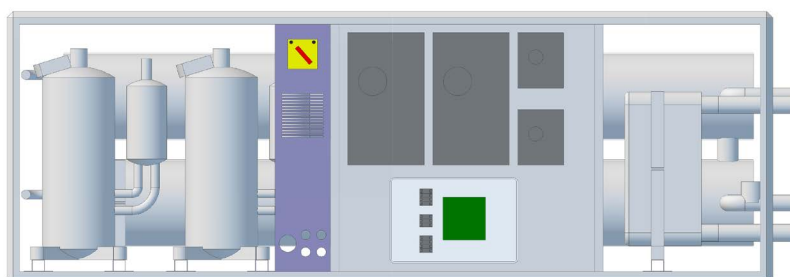
COMPRESSOR PROTECTION:

Over/undervoltage, overcurrent, torque, winding temperature, stepout (bad lubrication), power input, power output, efficiency, overload, oil level with infrared optical sensor



ELECTRONIC:

Microprocessor board with rs485 modbus rtu communication.
Interface to Termodinamica air handling unit or fresh air unit



CI100E2

PERFORMANCE CURVE
DC INVERTER 70 rps/100

