

VRV50E2

DATASHEET



Cooling capacity KW	min 5	std 45	max 50
Cooling power source KW	min 2	std 7,5	max 14
Heating capacity KW	min 5	std 45	max 55
Heating power source KW	min 2	std 7,5	max 14

Power supply:	380 - 440 Vac / 50-60 Hz 3ph 700 Vdc on request	
Sea water pump:	Magnetic type. Centrifugal 400 lt/min 1,2kw included in compressor unit power	
Water pipe size:	1" 1/2	
Gas pipe:	Liquid 5 x 1/2"	Gas 5 x 5/8"
Size W x D x H:	1045 x 650 x 620 mm	
Weight:	169 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



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



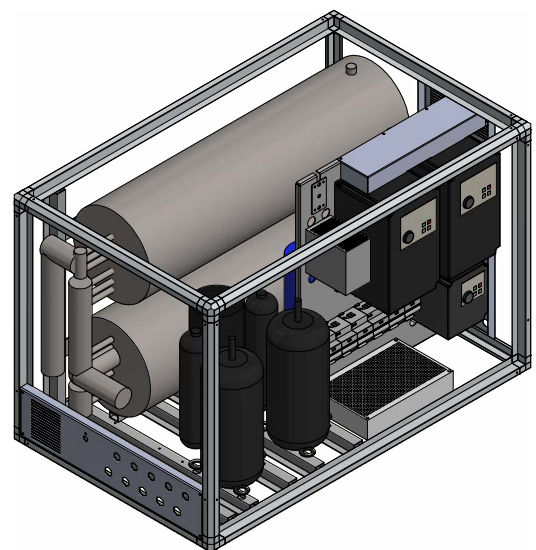
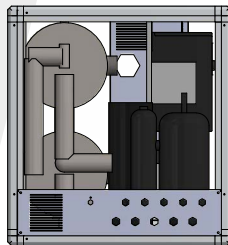
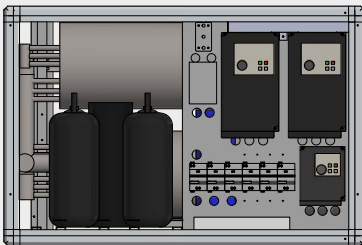
COMPRESSOR PROTECTION:

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



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PERFORMANCE CURVE
DC INVERTER 70 rps/100

