

VRV25E1

DATASHEET



Cooling & heating - capacity

Cooling capacity KW	min 3	std 20	max 25
Cooling power source KW	min 1	std 4	max 6
Heating capacity KW	min 3	std 20	max 28
Heating power source KW	min 1	std 4	max 6

Power supply:	180 – 250 Vac 1Phase 50/60Hz. 400Vac and 700Vdc on request		
Sea water pump:	Magnetic type 300 watt included in unit power consumption. 180 lt/min		
Water pipe size:	1,5"		
Gas pipe:	Liquid 2 x 1/2 + 1 x 3/8 Gas 2 x 5/8 + 1 x 1/2		
Size W x D x H:	667 x 517 x 476 mm		
Weight:	87 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

24Volt @ 400watt power supply 24VDC integrated in compressor unit for 10 air handlers management

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:

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



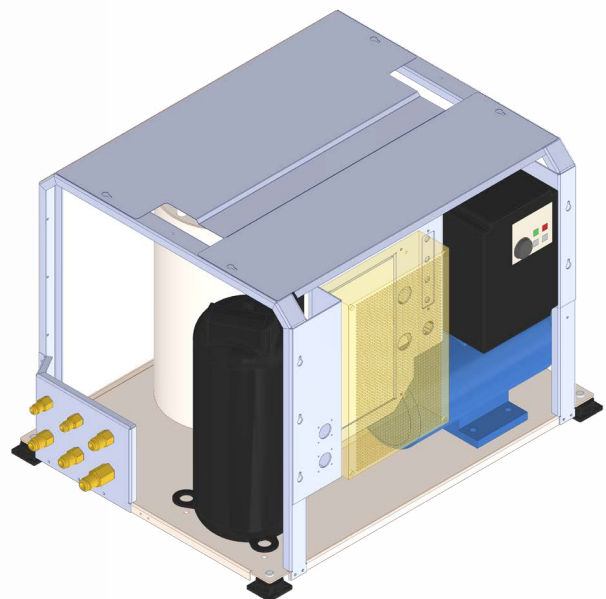
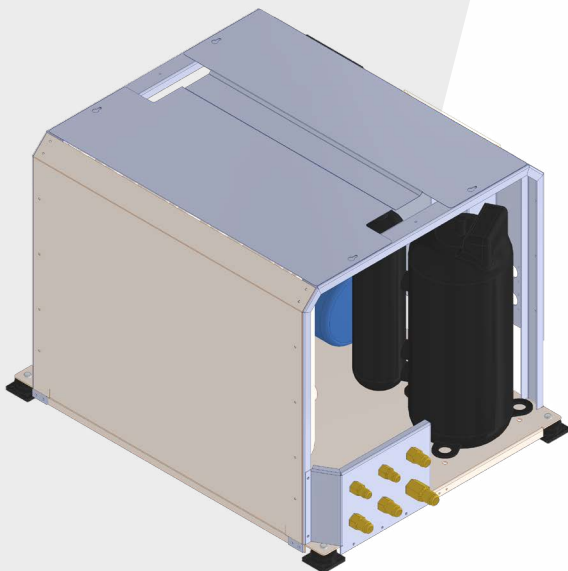
COMPRESSOR PROTECTION:

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

