

VRV35E2 high efficiency

DATASHEET



Cooling & heating - capacity

Cooling capacity KW	min 5	std 30	max 35
Cooling power source KW	min 1,5	std 5	max 9
Heating capacity KW	min 5	std 30	max 39
Heating power source KW	min 1,5	std 5	max 9

Power supply:

180 - 230 Vac / 50-60 Hz 1ph + N.
400 and 700 Vdc on request

Sea water pump:

Magnetic type. Centrifugal 350 lt/min 1kw included in compressor unit power consumption. Variable speed

Water pipe size:

1" 1/2

Gas pipe:

Liquid 5 x 1/2" Gas 5 x 5/8"

Size W x D x H:

1040 x 650 x 620 mm

Weight:

138 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 > 5

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



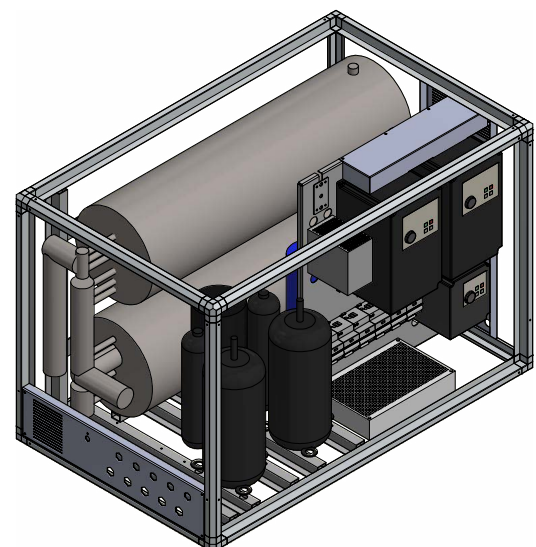
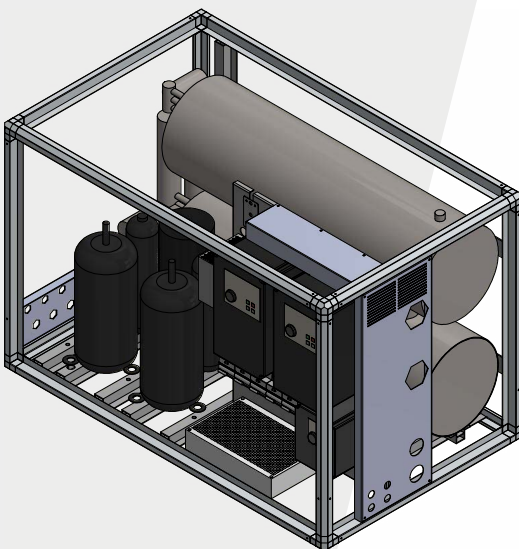
COMPRESSOR PROTECTION:

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



VRV35E2

PERFORMANCE CURVE
DC INVERTER 70 rps/100

