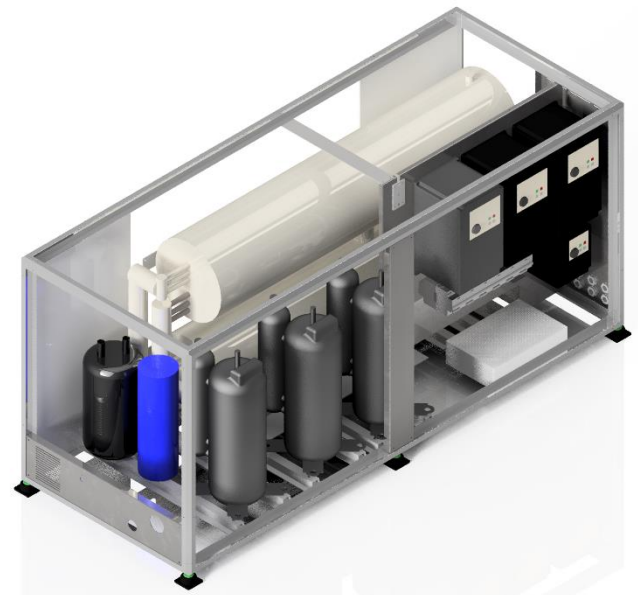


VRV180E3

DATASHEET



Cooling capacity KW	min 10	std 100	max 180
Cooling power source KW	min 5	std 20	max 50
Heating capacity KW	min 10	std 100	max 200
Heating power source KW	min 5	std 20	max 50

Power supply:

380 - 440 Vac / 50-60 Hz 3ph
700Vdc on request

Sea water pump:

Magnetic type. Centrifugal. 600lt/min 2,5kw included in unit power consumption.

Size W x D x H:

1857 x 720 x 830 mm

Weight:

241 Kg

Sea water working range:

+3°C to +40°C Option polar water: -5°C

Air working range:

-20°C to +50°C

Noise:

Compressor @ 70% – 52db @ 1 meter from box

Vibration:

105um max reduced with 2 stages soft mountings

Sea water pipes connection:

2" BSP

Refrigerant pipe:

Custom

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

VRV180E3 *MAIN FEATURES*



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



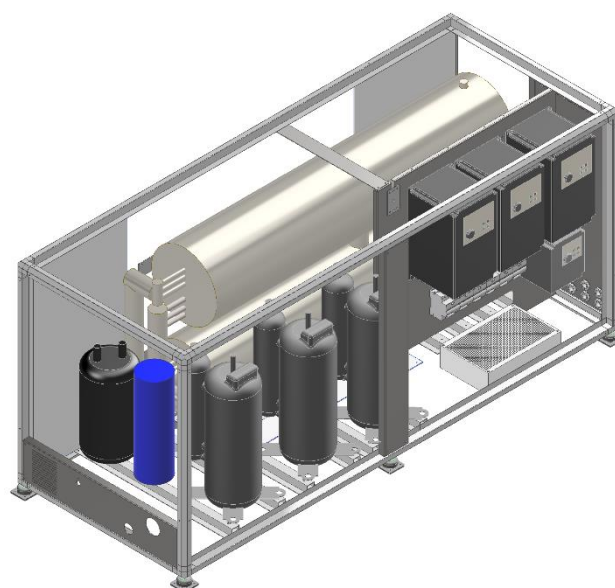
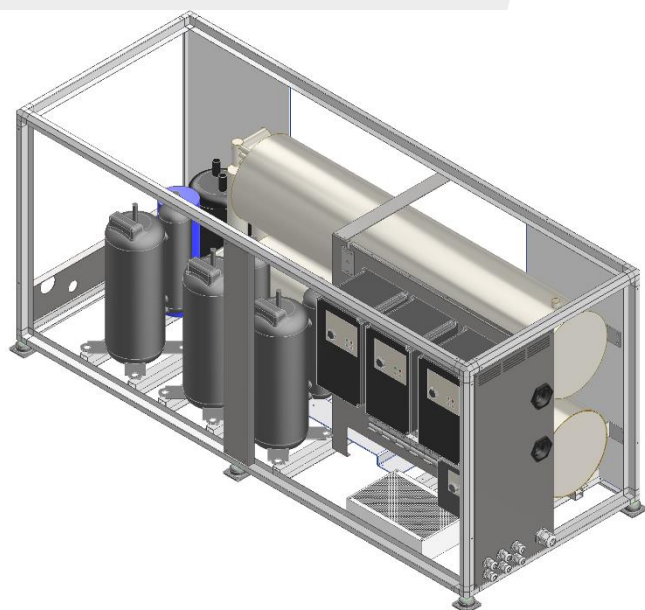
COMPRESSOR PROTECTION:

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



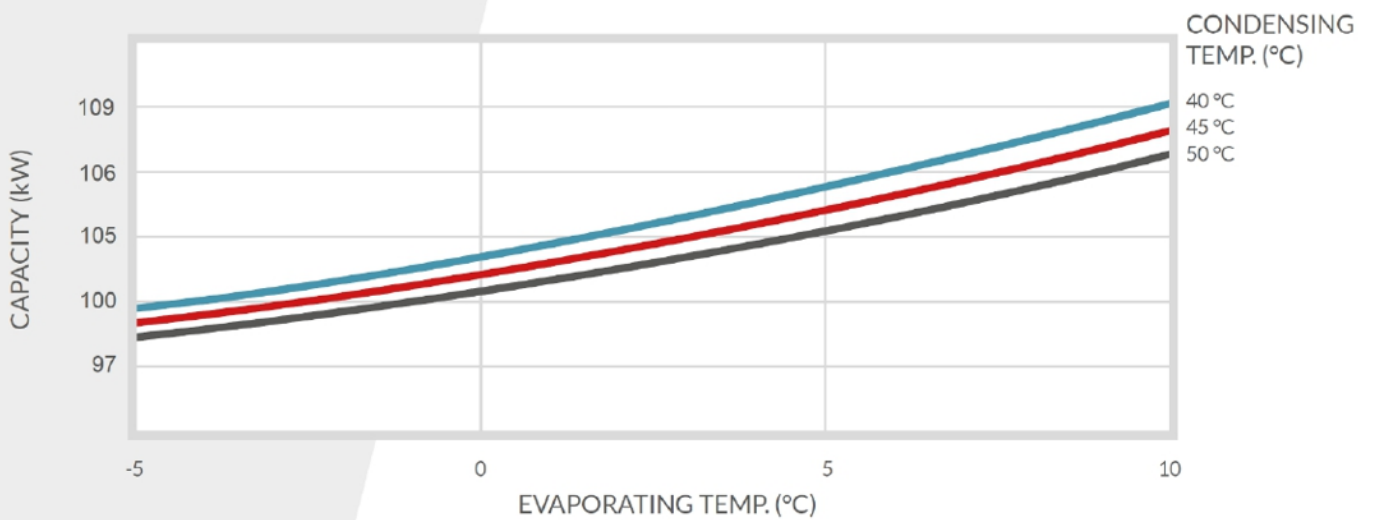
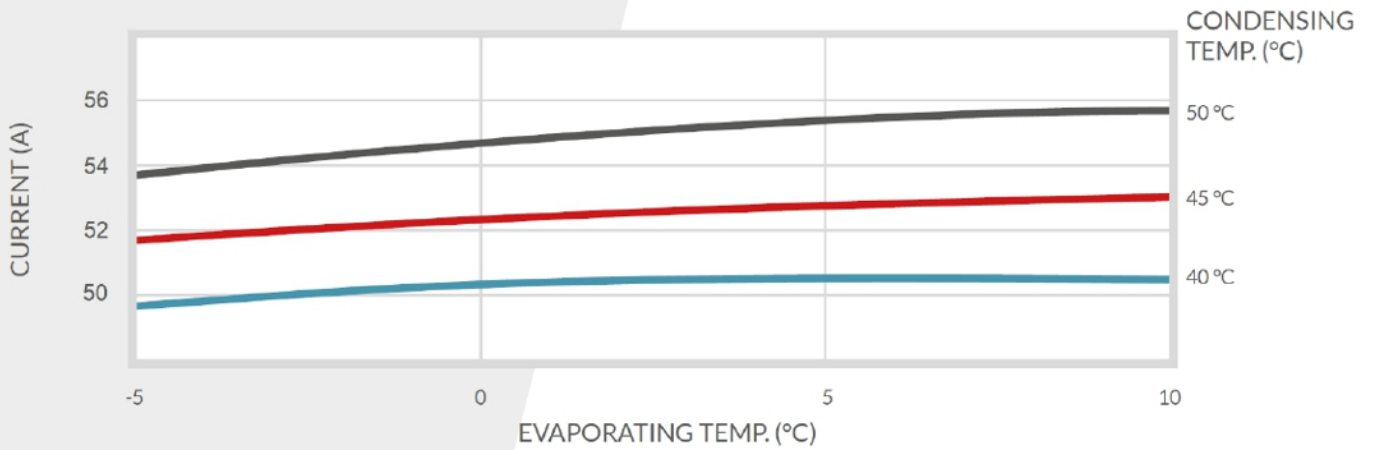
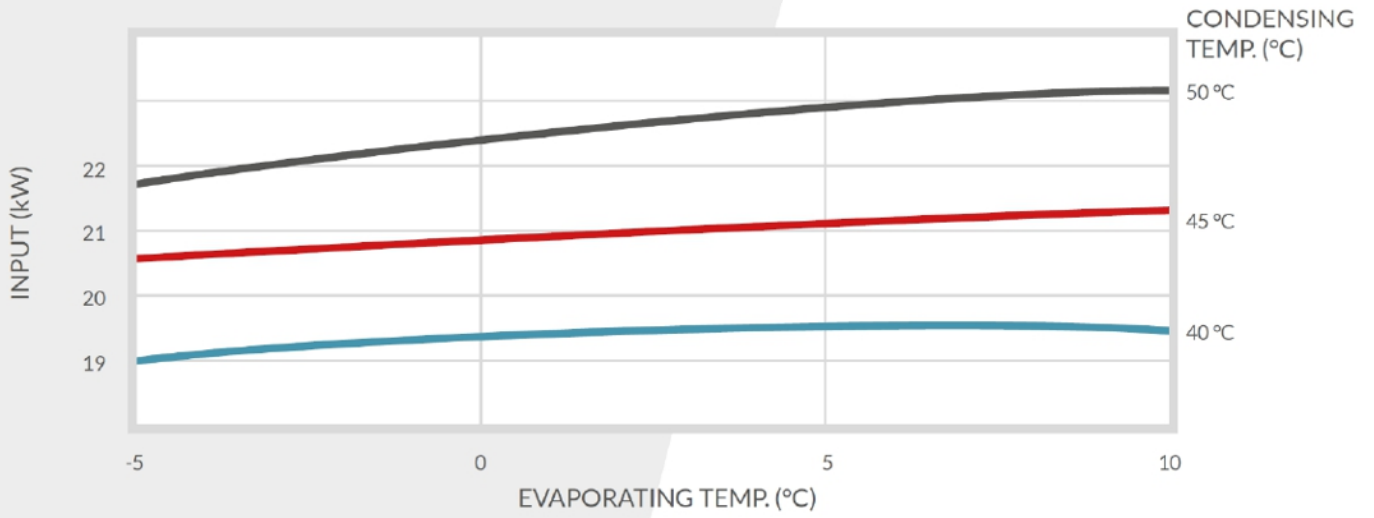
ELECTRONIC:

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



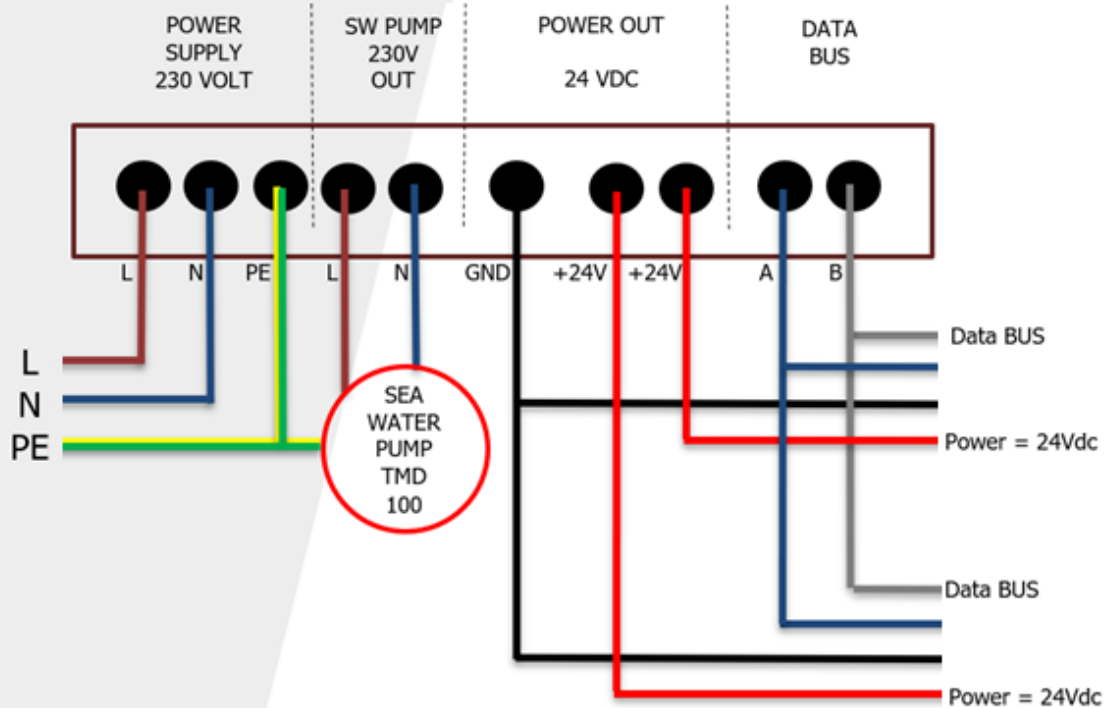
VRV180E3

PERFORMANCE CURVE DC INVERTER 70 rps/100



VRV180E3

ELECTRICAL CONNECTIONS



VRV180E3

OVERALL DIMENSIONS

