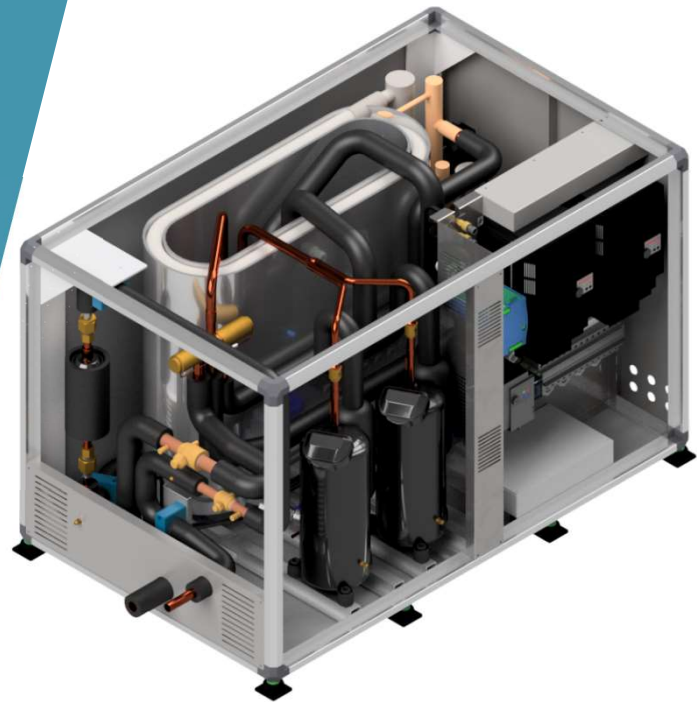


VRT80E2

DATASHEET



| | | | |
|-------------------------|-------|--------|--------|
| Cooling capacity KW | min 8 | std 64 | max 80 |
| Cooling power source KW | min 2 | std 13 | max 20 |
| Heating capacity KW | min 8 | Std 64 | max 80 |
| Heating power source KW | min 2 | std 13 | max 20 |

Total BTU Capacity:
Power supply options:

Comparable to 273.000 BTU/h of the competitors

400VAC → *mod. VRT80E2-4V*

On request: 230VAC / 50-60Hz → *mod. VRT80E2-2V*

On request: 700VDC → *mod. VRT80E2-7V*

Sea water pump:

Magnetic type. Centrifugal 1,2kW included in compressor power consumption. 500 lt/min.

Size W x D x H:

1464 x 820 x 830 mm

Weight:

240 Kg

Sea water working range:

+3°C to +40°C

Air working range:

-20°C to +50°C

Noise:

Compressor @ 140 hz – 73db @ 1 meter from box

Vibration:

No significant vibration transmitted to the feet

Sea water pipes connection:

2"

Refrigerant pipe options:

Opz. A) ø28mm Gas ø22mm Liquid

Opz. B) 4 x 5/8" Gas 4 x 1/2" Liquid

Compressor box use VRT 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



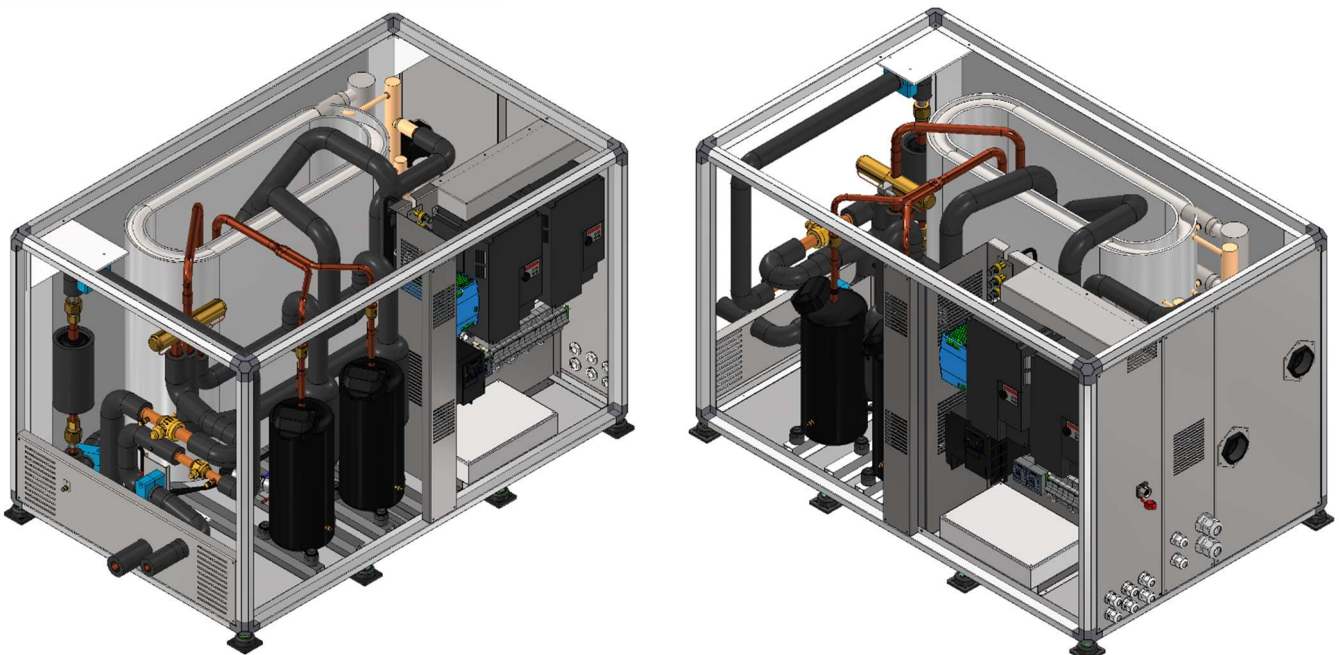
COMPRESSOR PROTECTION:

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



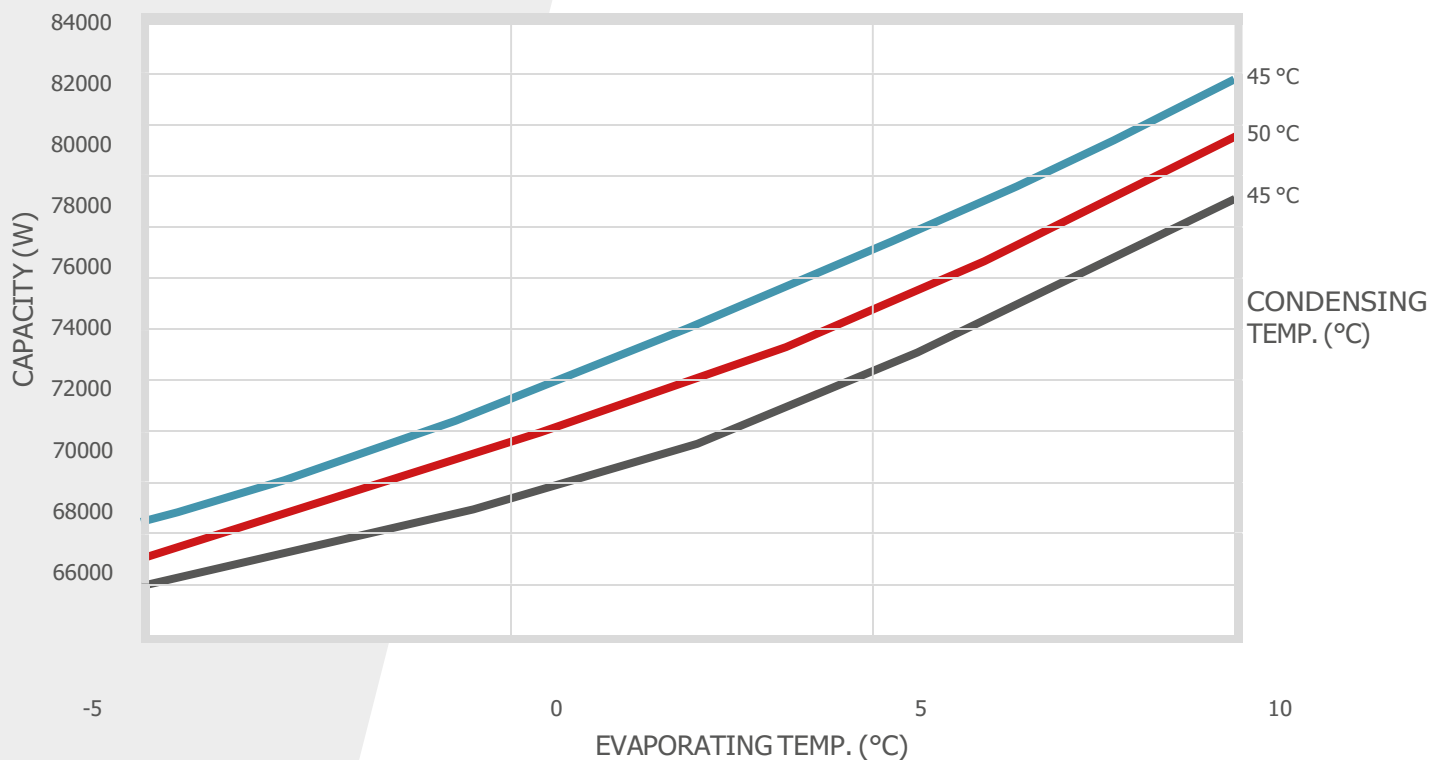
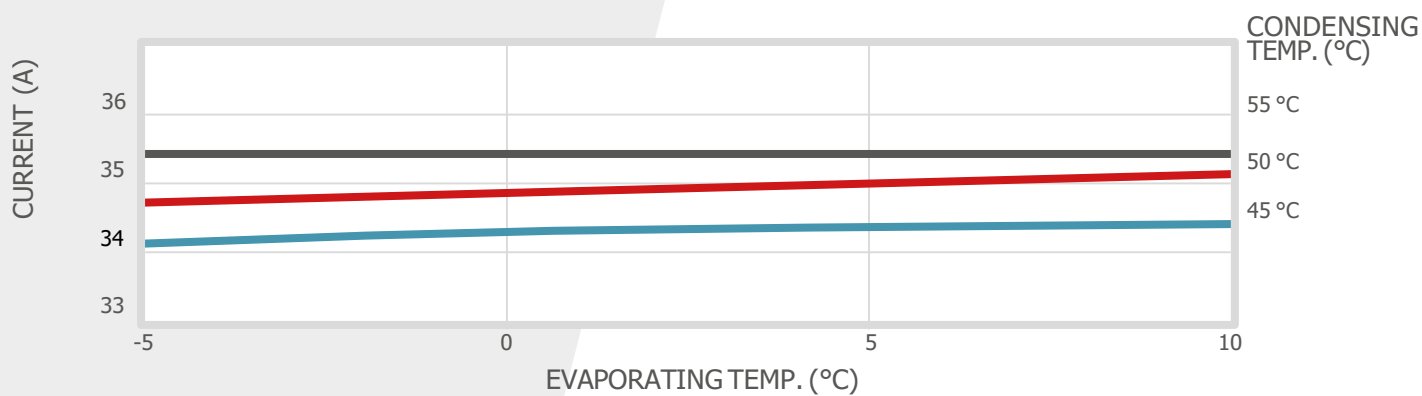
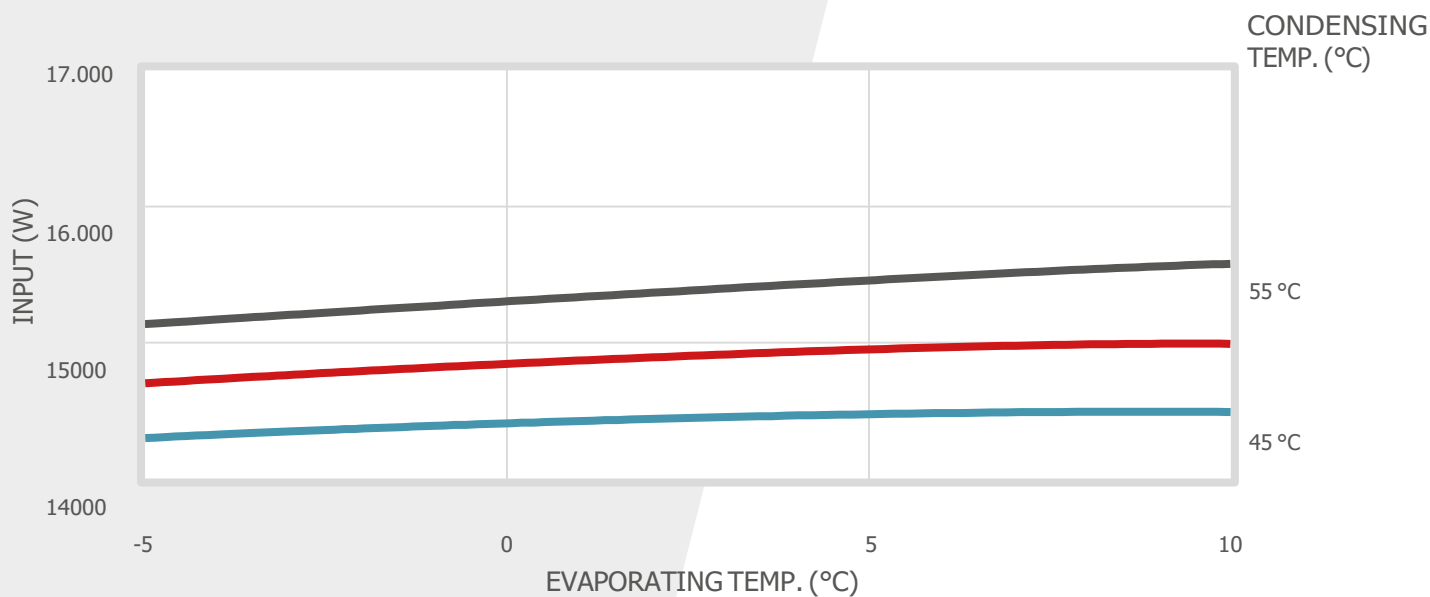
ELECTRONIC:

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



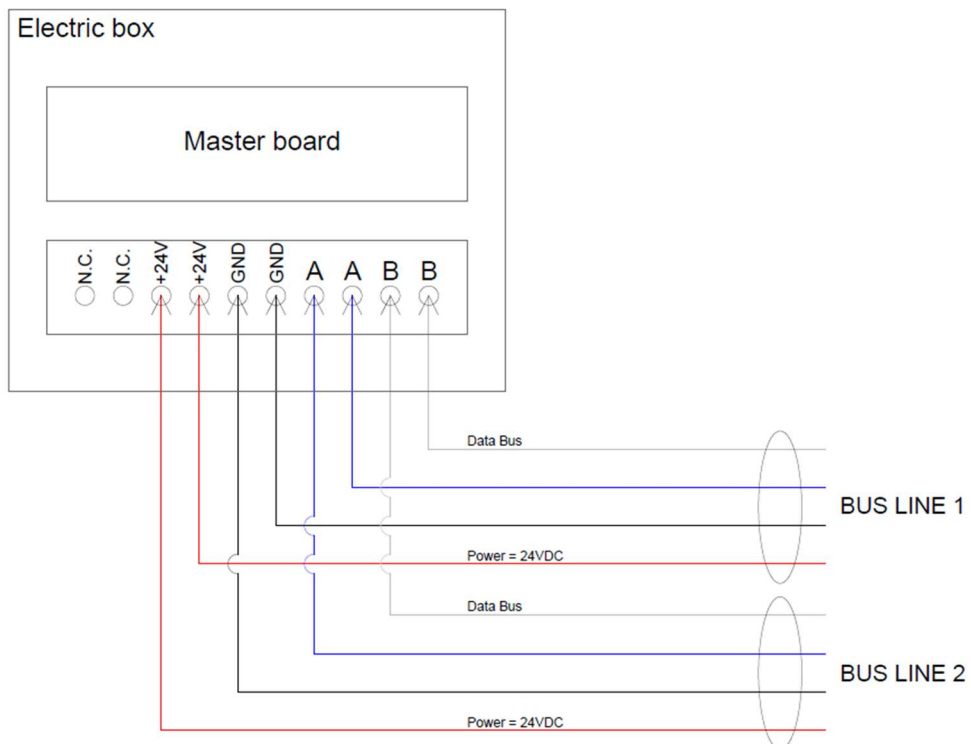
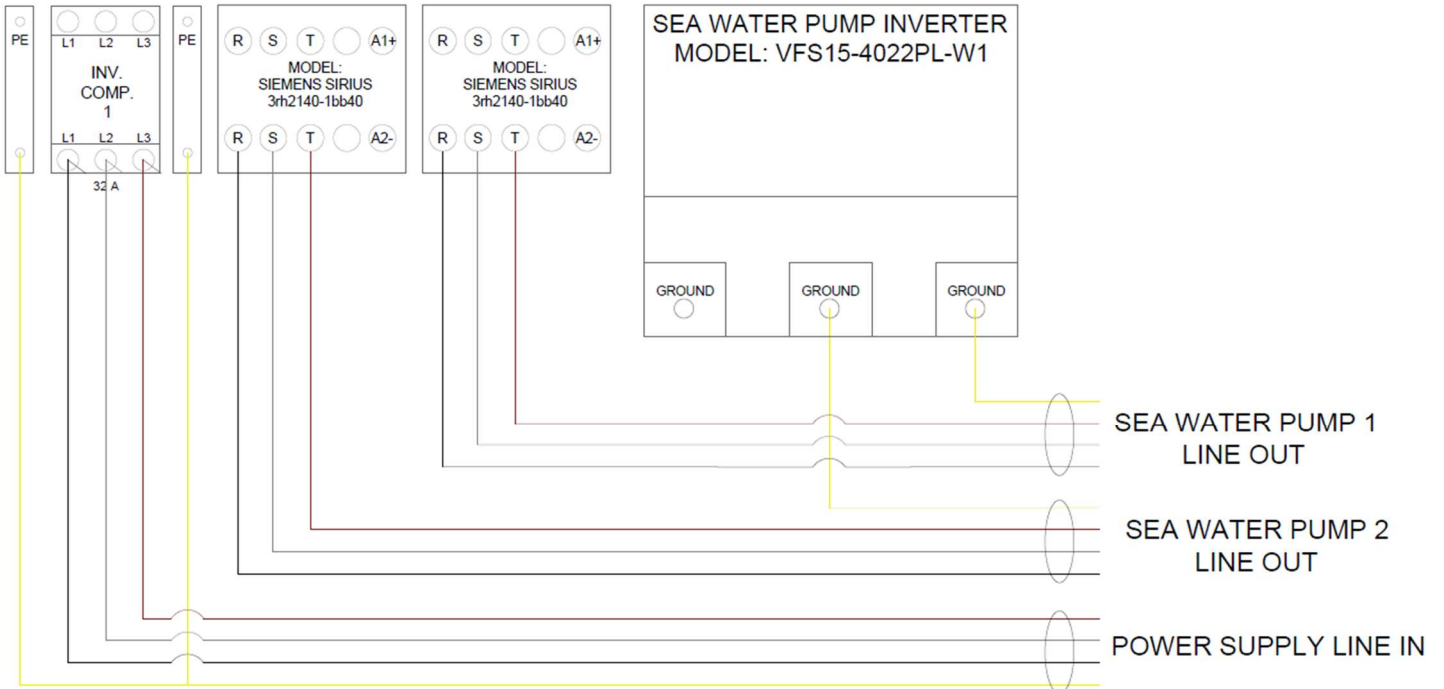
VRT80E2

PERFORMANCE CURVE DC INVERTER 70 rps/ 100



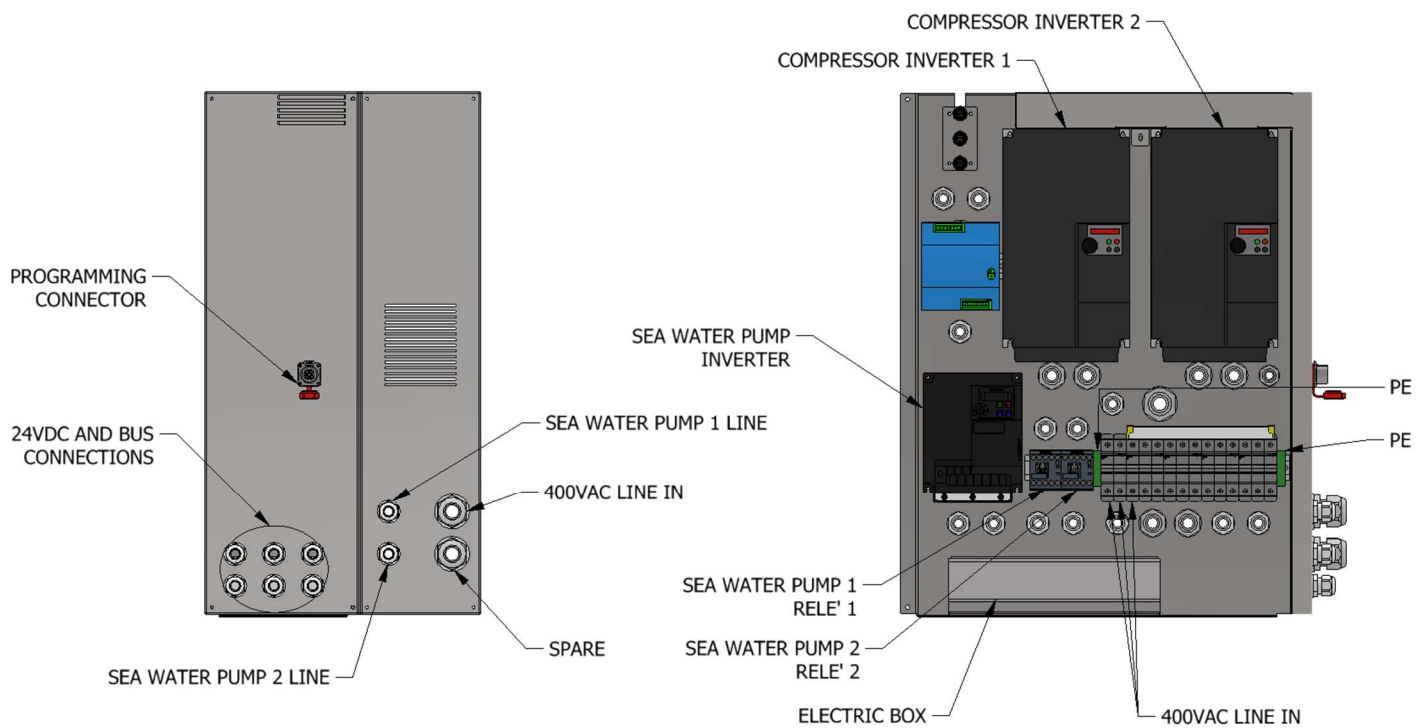


VRT80E2-4V (400VAC Version)



VRT80E2

ELECTRICAL CONNECTIONS



VRT80E2

OVERALL DIMENSIONS

