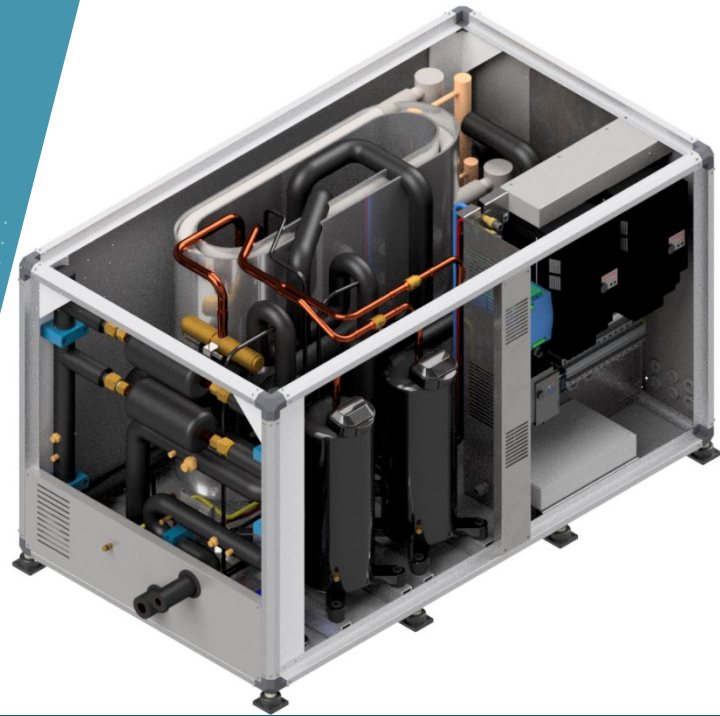


VRT100E2

DATASHEET



Cooling capacity KW	min 10	std 75	max 100
Cooling power source KW	min 2,5	std 15	max 25
Heating capacity KW	min 10	Std 75	max 100
Heating power source KW	min 2,5	std 15	max 25

Total BTU Capacity:
Power supply options:

Comparable to 340.000 BTU/h of the competitors
400VAC → *mod. VRT100E2-4V*

On request: 700VDC → *mod. VRT100E2-7V*

Sea water pump:

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

Size W x D x H:

1500 x 818 x 835 mm

Weight:

280 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:

ø28mm Gas

ø22mm 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.

VRT100E2 *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



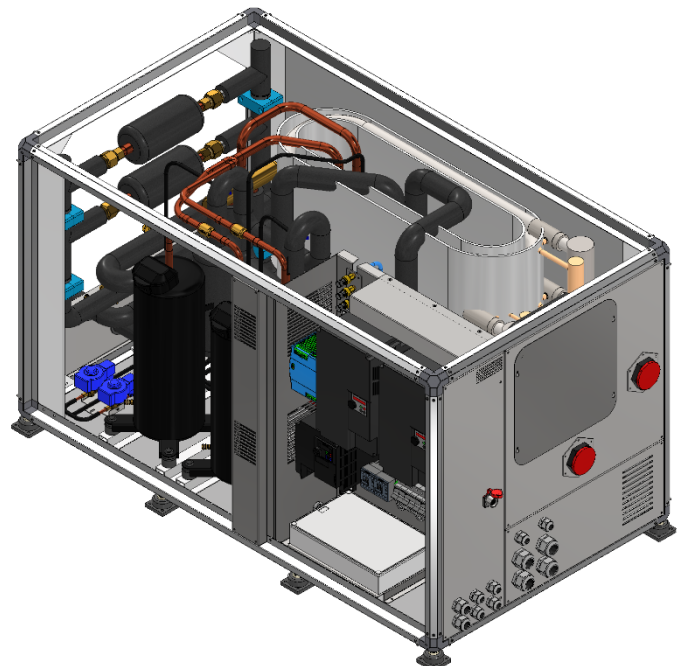
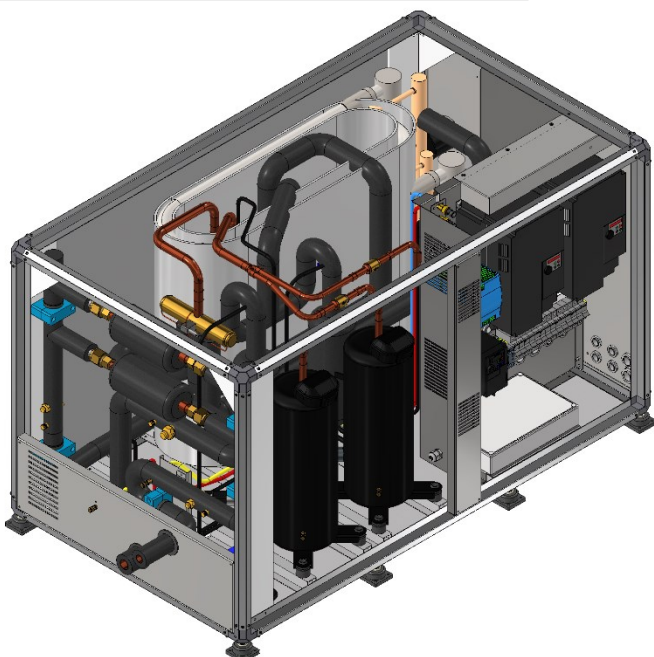
COMPRESSOR PROTECTION:

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

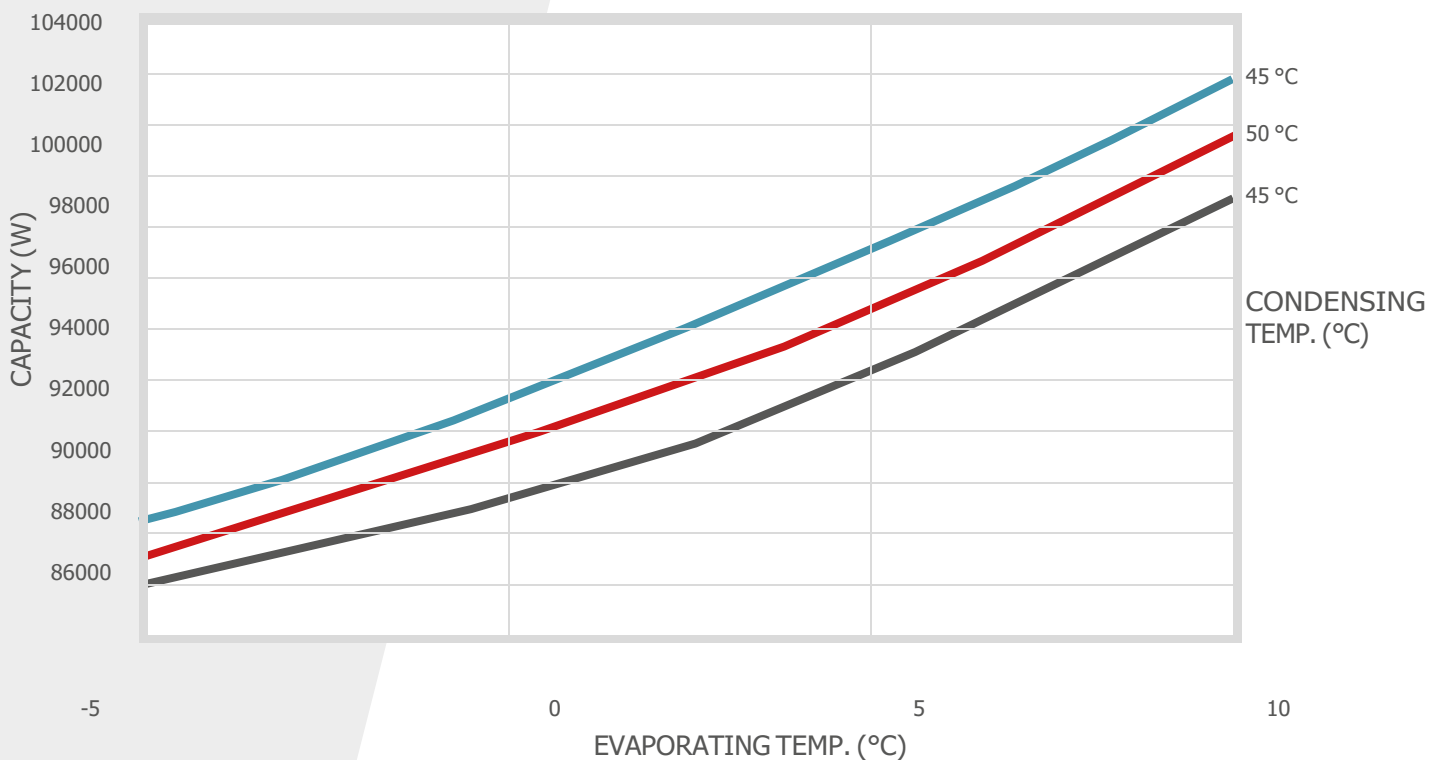
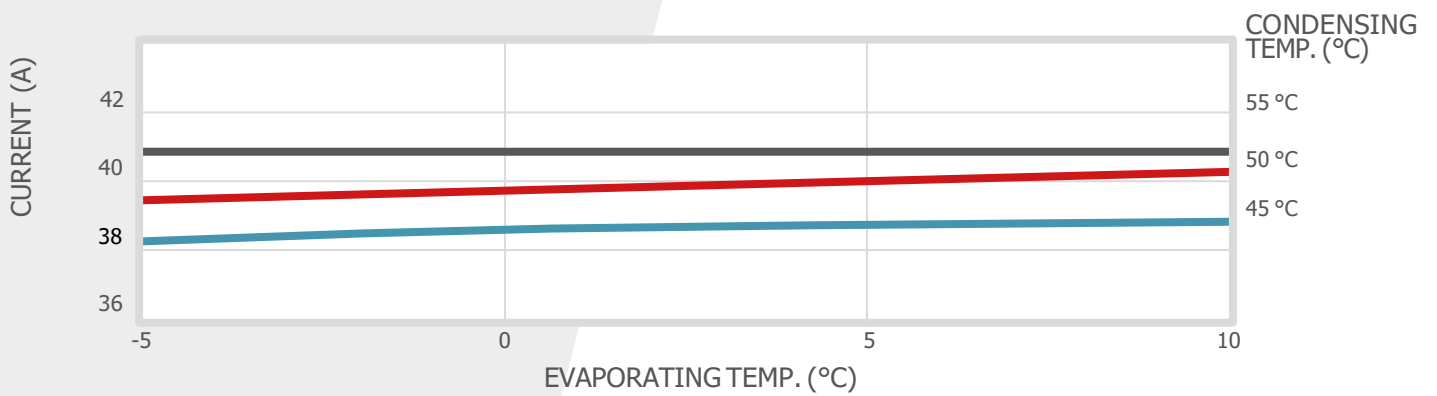
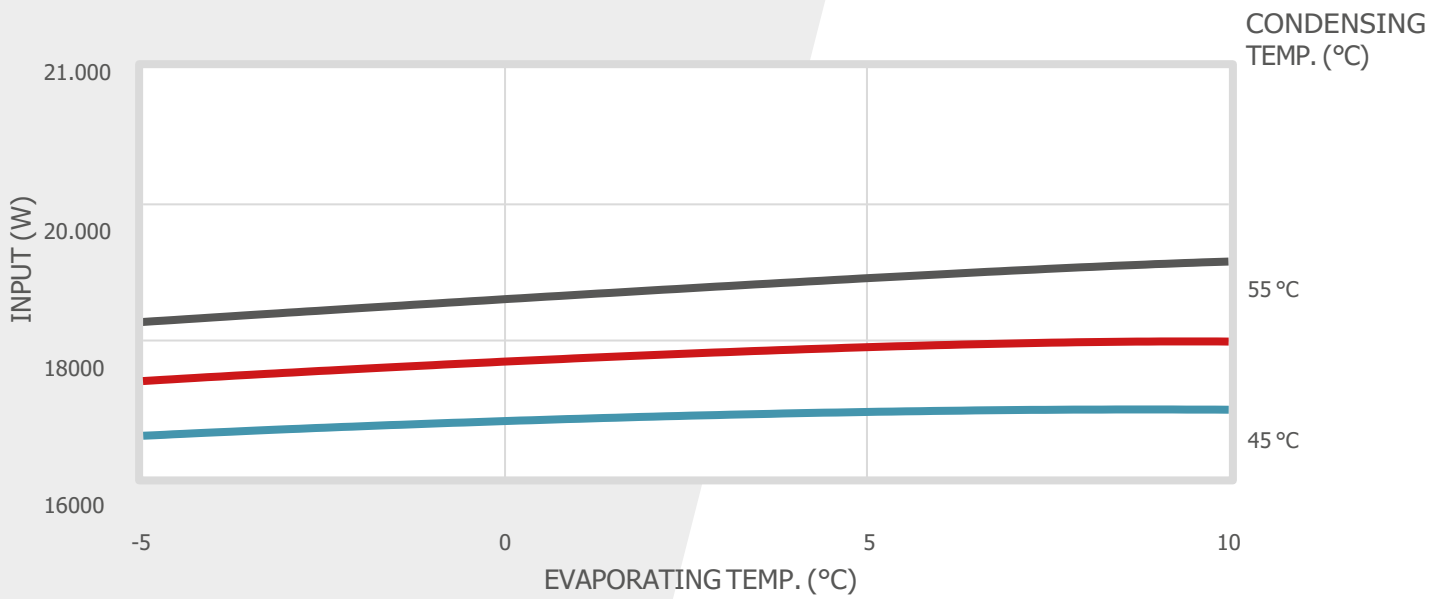


ELECTRONIC:

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

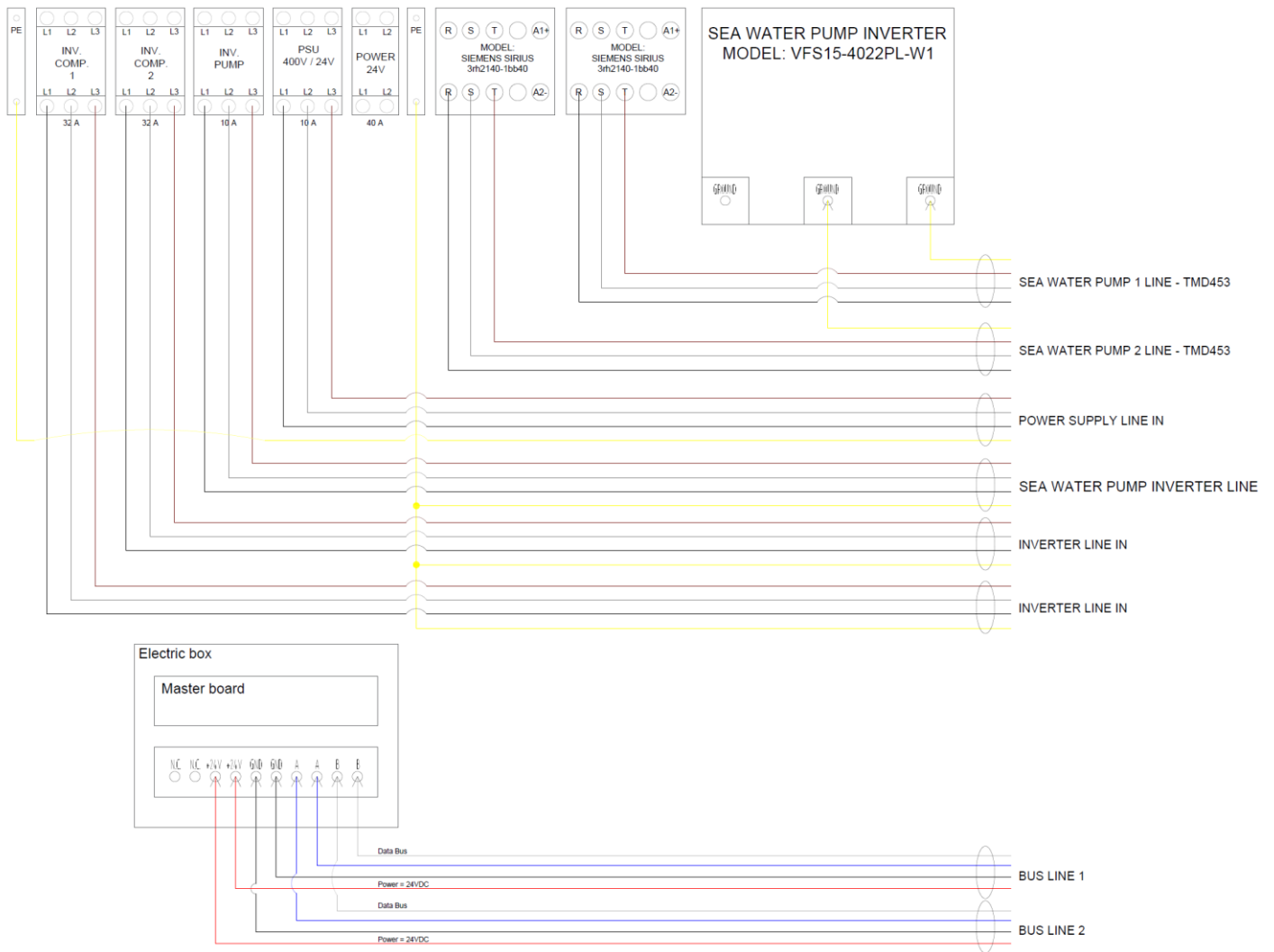


VRT100E2 PERFORMANCE CURVE DC INVERTER 70 rps/ 100



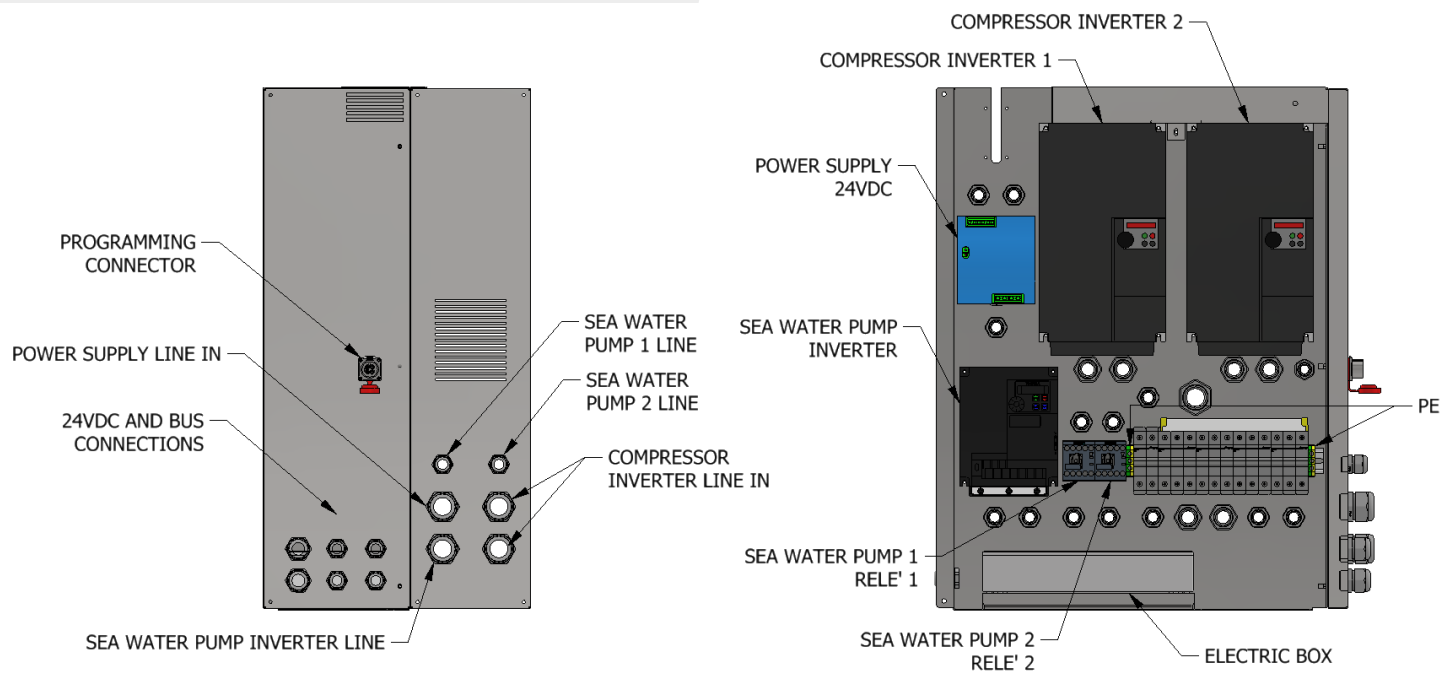


VRT100E2-4V (400VAC Version)



VRT100E2

ELECTRICAL CONNECTIONS



VRT100E2

OVERALL DIMENSIONS

