

VRT36X2

DATASHEET



Cooling capacity KW	min 5	std 31	max 36
Cooling power source KW	min 1,5	std 5	max 9
Heating capacity KW	min 5	std 31	max 36
Heating power source KW	min 1,5	std 5	max 9

Total BTU Capacity:
Power supply options:

Comparable to 165.000 BTU/h of the competitors
180 - 230VAC / 50-60Hz 1ph+N → *mod. VRT36X2-2V*
On request: 400VAC → *mod. VRT36X2-4V*
On request: 700VDC → *mod. VRT36X2-7V*

Sea water pump:

Magnetic type 750W included in compressor power consumption.

330 lt/min

Size W x D x H:

1157 x 700 x 667 mm

Weight:

180 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:

1" 1/2

Refrigerant pipe:

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 > 5

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



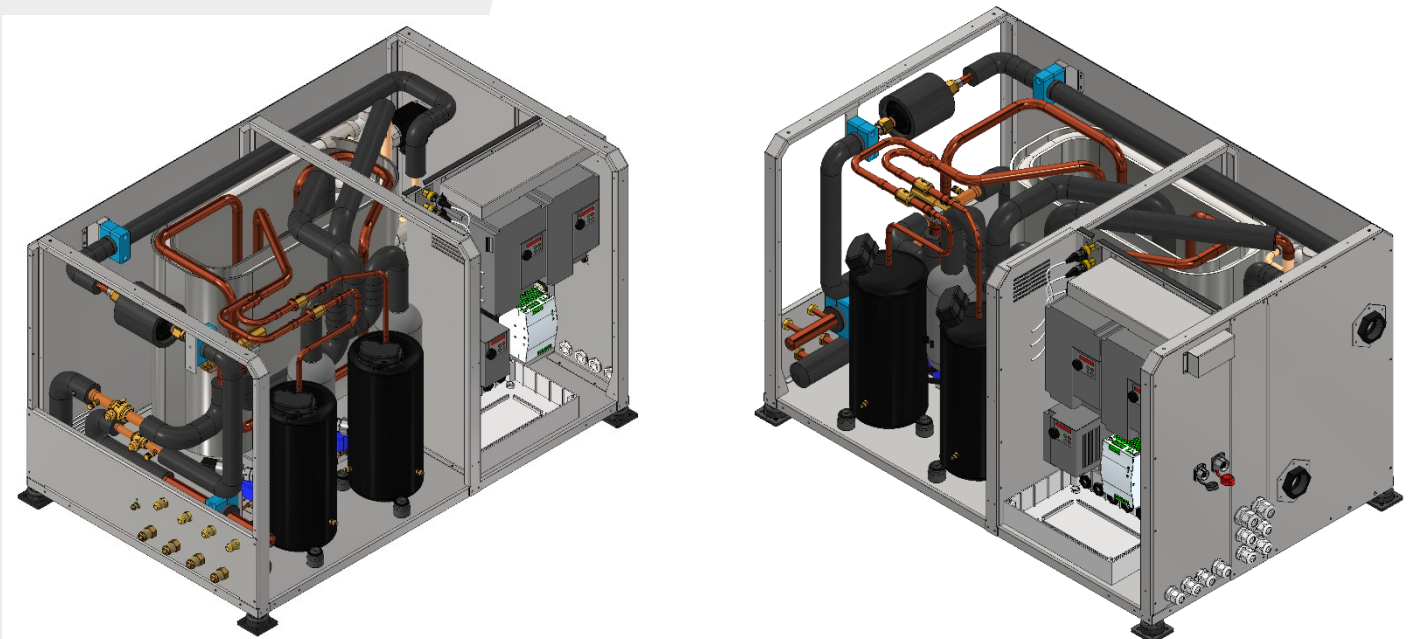
COMPRESSOR PROTECTION:

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



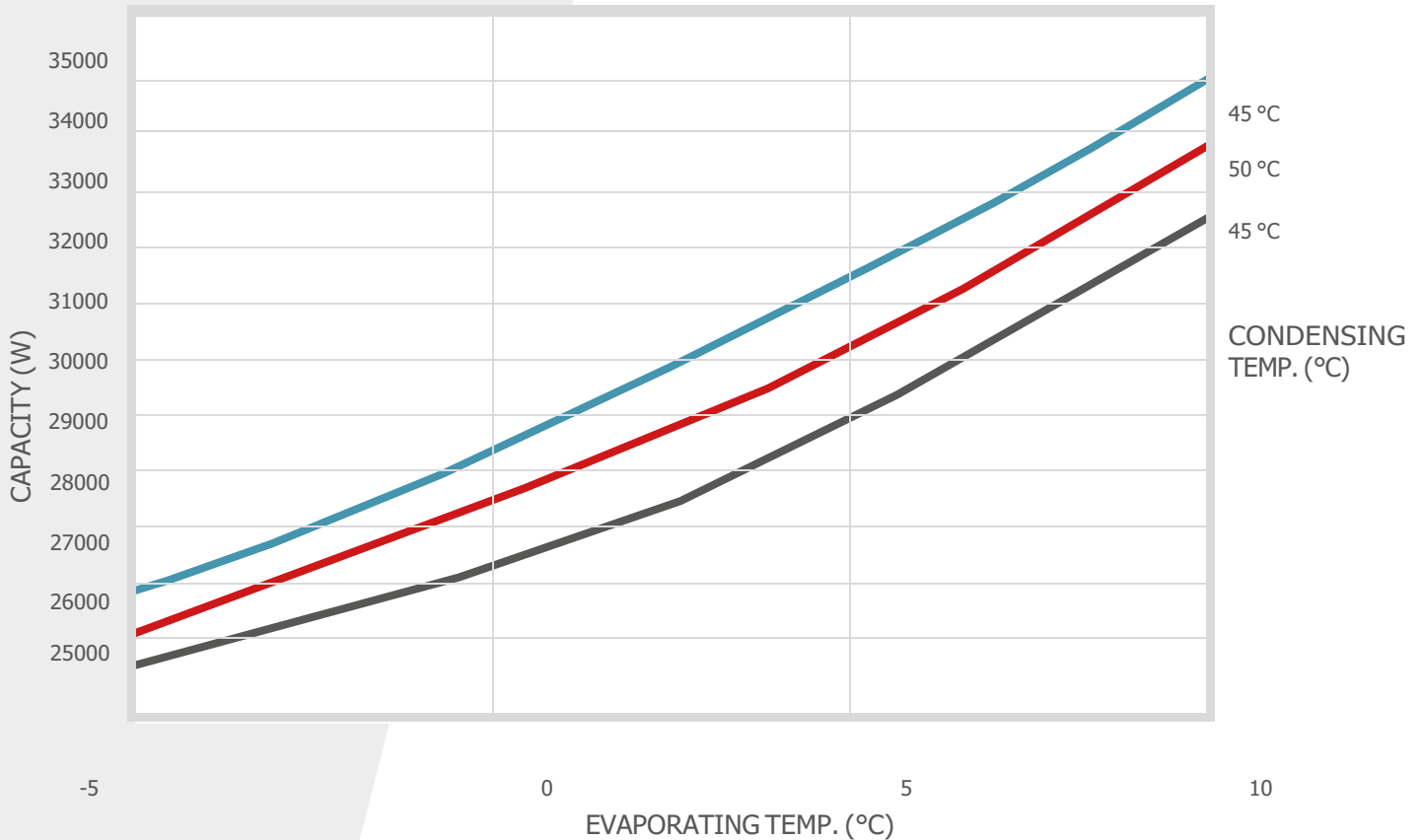
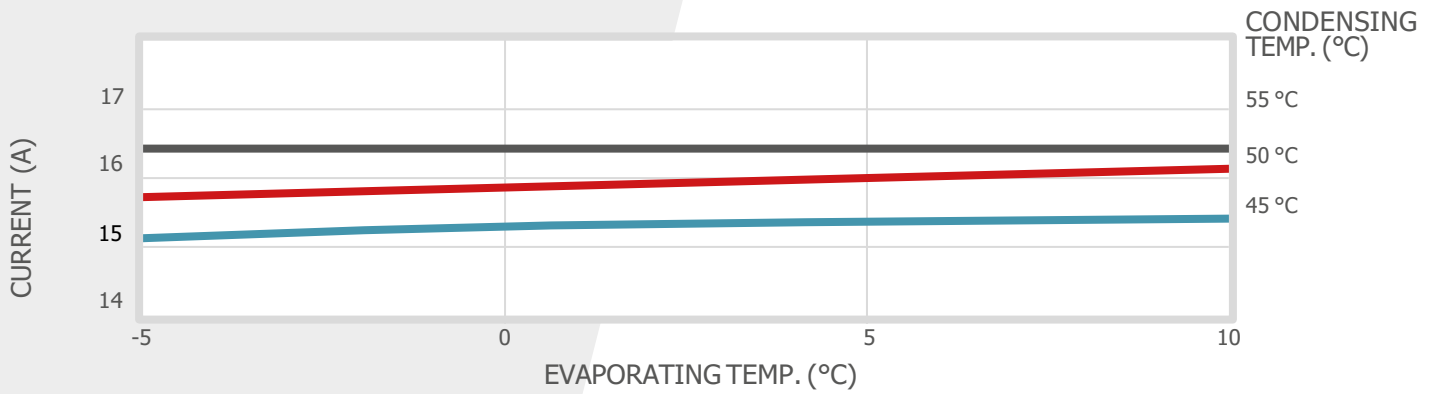
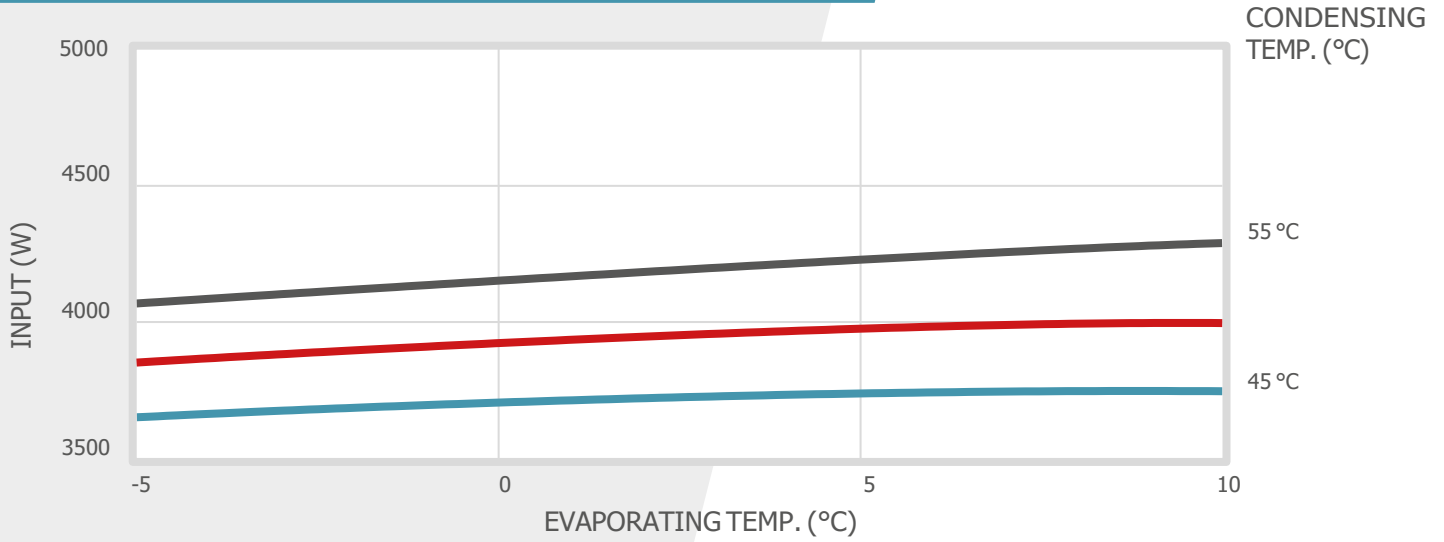
ELECTRONIC:

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



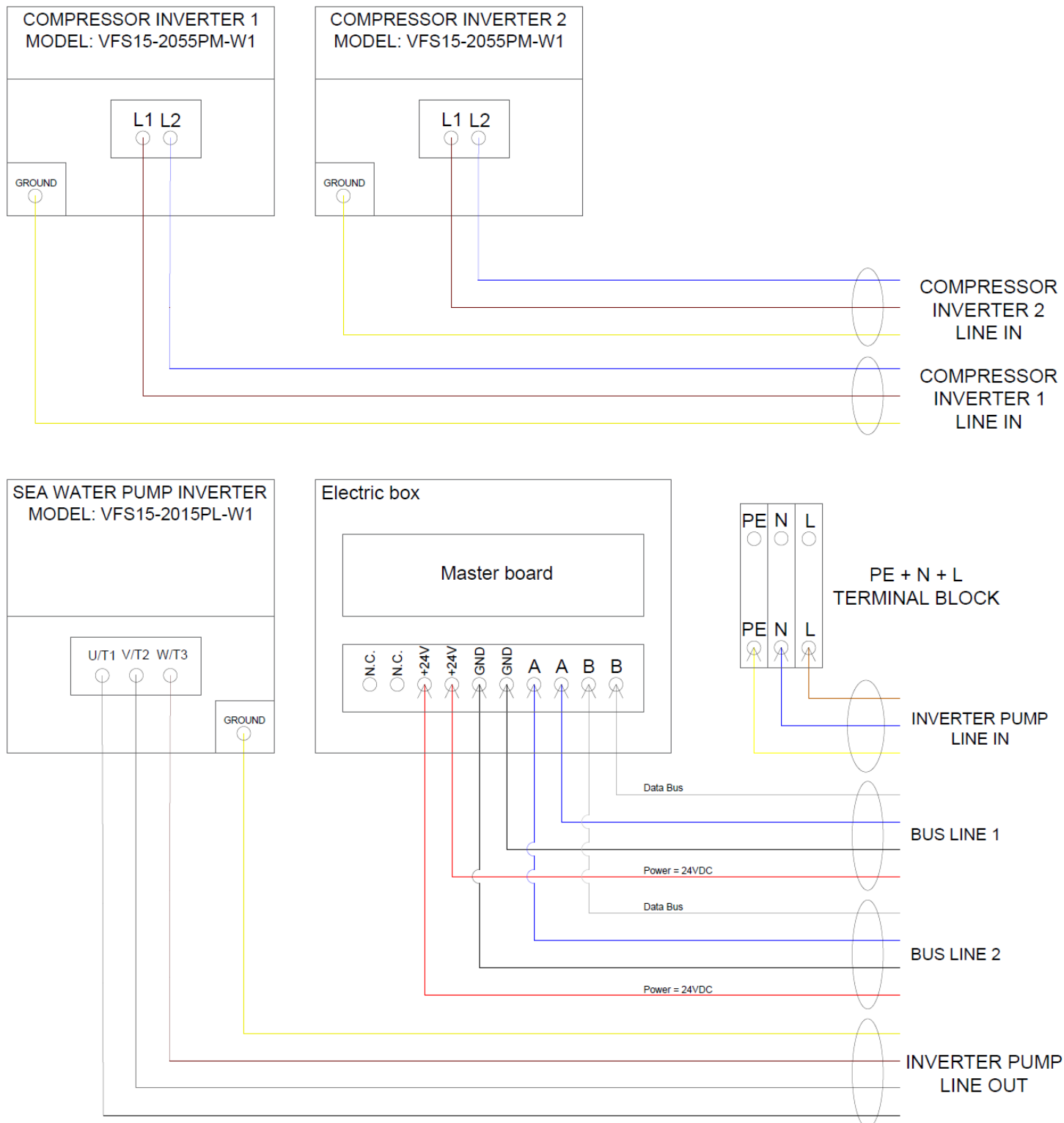
VRT36X2

PERFORMANCE CURVE DC INVERTER 70 rps/ 100



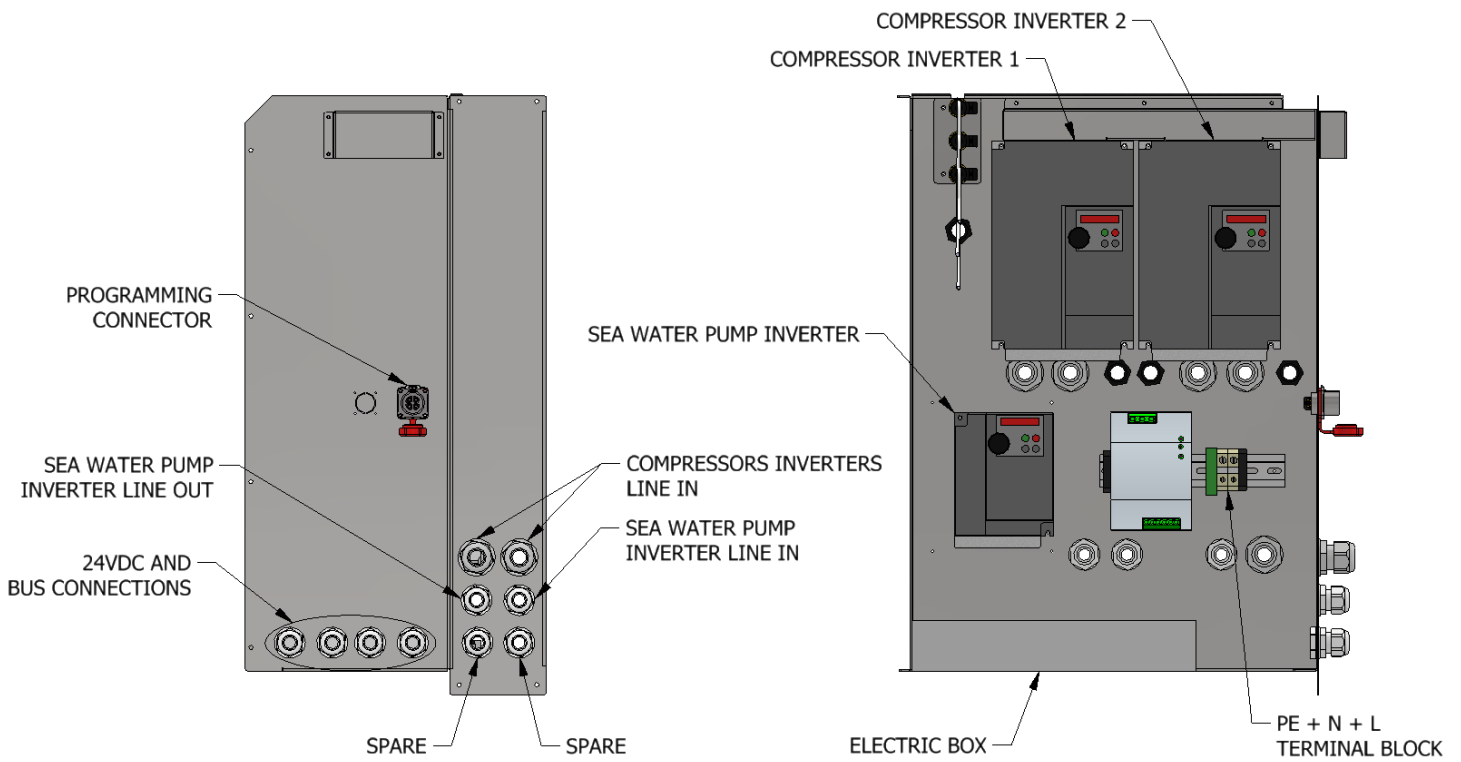


VRT36X2-2V (230VAC Version)



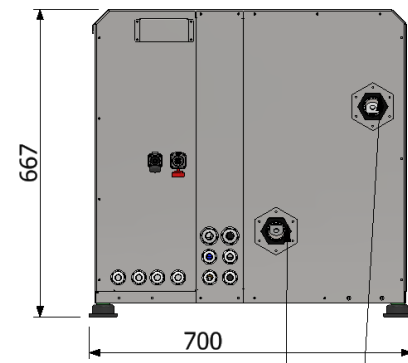
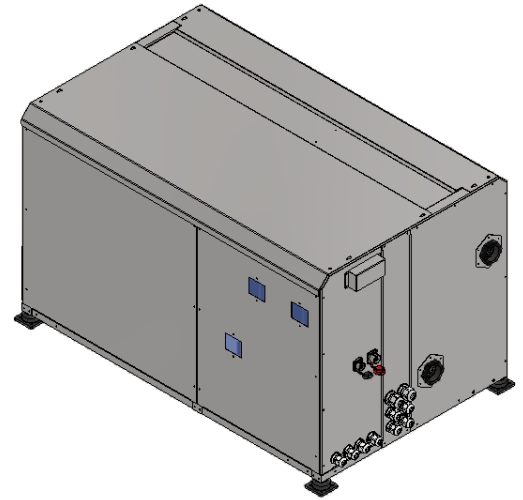


230VAC INVERTER PANEL DETAIL

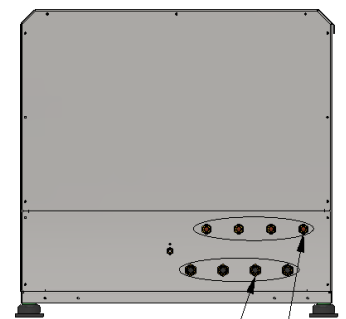
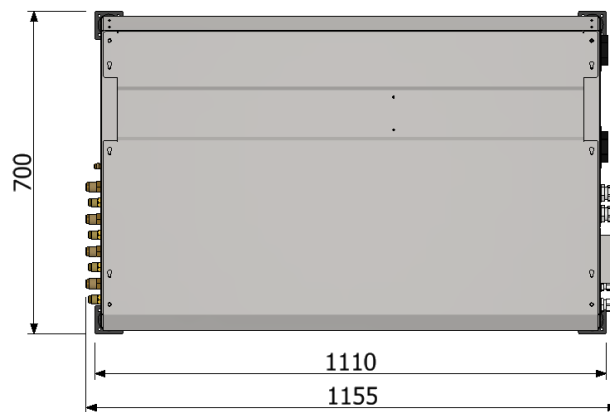
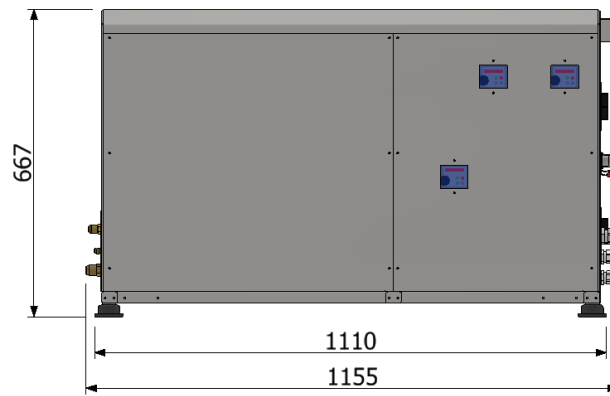


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OVERALL DIMENSIONS



WATER IN 1" 1/2
WATER OUT 1" 1/2



GAS 4 x 5/8"
LIQUID 4 x 1/2"