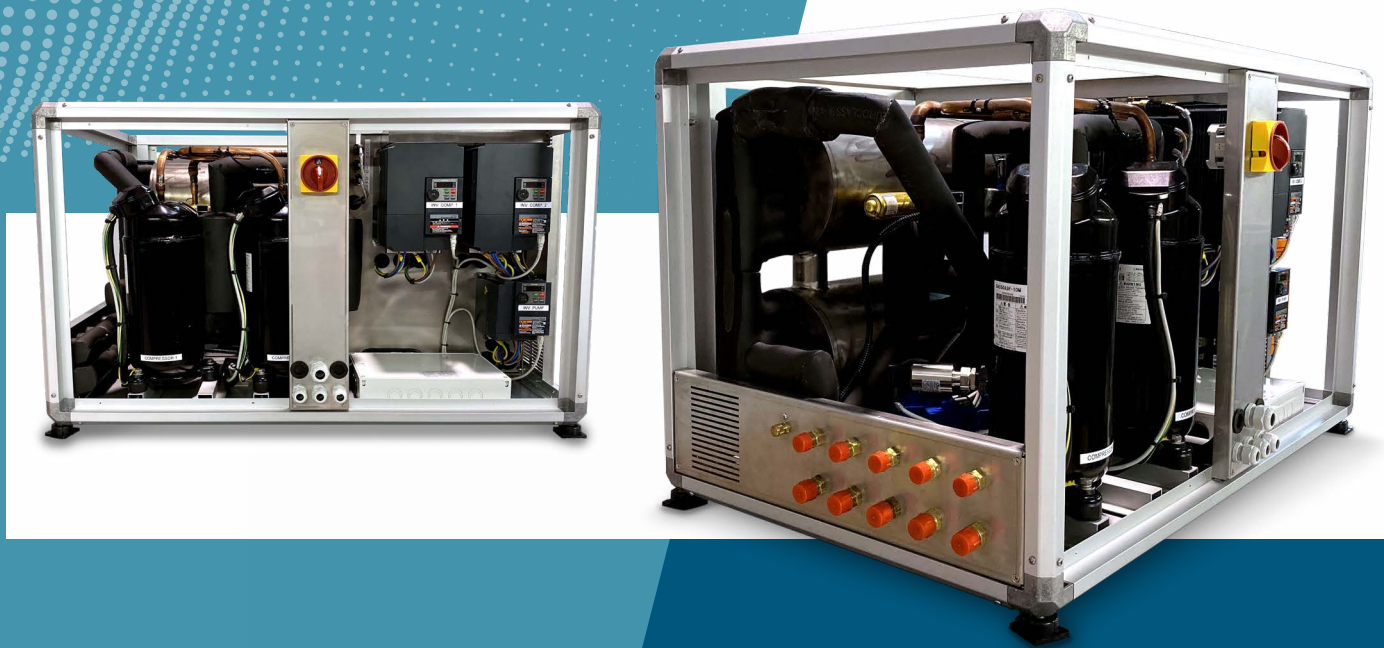


# VRV80E2

## DATASHEET



Cooling capacity KW	min 6	std 60	max 80
Cooling power source KW	min 2,5	std 12	max 17
Heating capacity KW	min 6	std 60	max 88
Heating power source KW	min 2,5	std 12	max 17

<b>Power supply:</b>	380 - 440 Vac / 50-60 Hz 3ph 700 Vdc on request	
<b>Sea water pump:</b>	Magnetic type. Centrifugal. 500 lt/min 1,7kw included in compressor unit power	
<b>Sea water pipe connection:</b>	2"	
<b>Gas pipe:</b>	Manifold on request	
<b>Size W x D x H:</b>	1130 x 700 x 750 mm	
<b>Weight:</b>	176 Kg	
<b>Sea water working range:</b>	+3°C to +40°C	Option polar water: -5°C
<b>Air working range:</b>	-20°C to +50°C	
<b>Noise:</b>	Compressor @ 70% - 38db @ 1 meter from box	
<b>Vibration:</b>	No vibration	

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 > 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



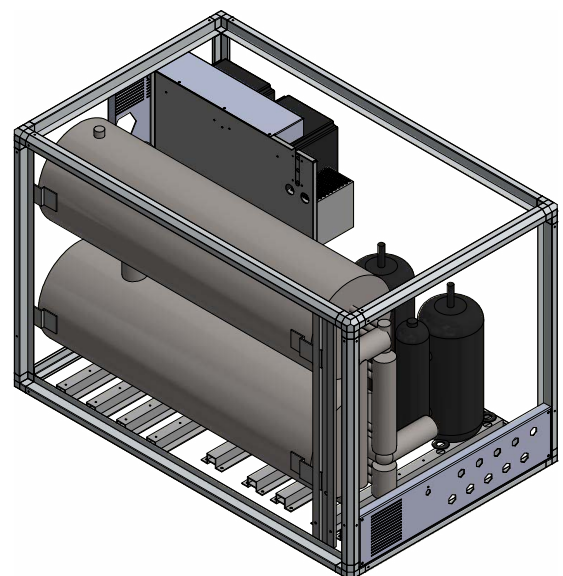
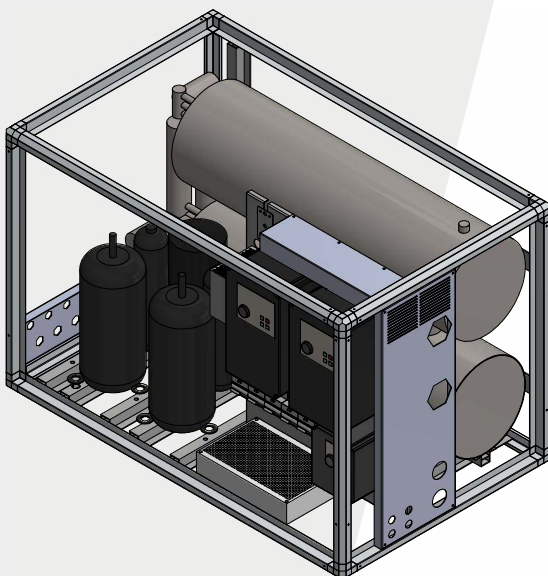
### COMPRESSOR PROTECTION:

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



### ELECTRONIC:

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



# VRV80E2

PERFORMANCE CURVE  
DC INVERTER 70 rps/100

