

# **SUBMITTAL : ECO-HZ455GLNST 455 Gallon Horizontal Tank**



Job Name	Location
Purchaser	Engineer
Submitted to	Reference Approval Construction
Unit Designation	Schedule #

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Specifications	GS4-45HPC & -D
Performance per GS4-45HPC &	
Capacity per Heat Pump	4.5kw or 15,400 Btu/h
Recovery per HP @ 90°F Rise	20.6 Gallons per Hour
Storage Tank	ECO-HZ455GLNST
Tank Volume Actual/Nominal	455 / 504 Gallons
Pressure Relief Valve (Psig & °F)	125 Psig
Temperature Sensor	Thermistor
Installed Tank Weight (lbs)	774lbs
Shipping Tank Weight (lbs)	1049lbs
Anodes	3 x Magnesium
Tank Connection Sizes	
Cold Water Inlet	2 1/2" NPT
Hot Water Outlet	2 1/2" NPT
Cold Water to Heat Pump	1 1/4" NPT
Hot Water Return from HP	1 1/4" NPT
Pipe Size - Tank to Heat Pump	
Cold Water pipe - Tank to HP	Based on # of GS4 units
Hot Water pipe - HP to Tank	Based on # of GS4 units
Max Pipe Length inc	66ft
Max Vertical Separation of	23ft
Approvals	
Tank	ASME
Warranty	
Tank	5 Years
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#### Construction

The tank shall be manufactured from carbon steel with a baked on Ultonium porcelain enamel lining Tank outer shell shall be covered with a spray on foam insulation with an acrylic top coat to allow both interior and exterior installation

Tank shall have ECO2 on the Insulation top coat

#### Insulation

A minimum of 2" of R12.5 insulation shall be sprayed onto the tank to reduce heat loss and comply with California Title 24 requirements

#### Connections

Connections to the Hot and Cold building supplies shall be 2 1/2" NPT Female type

Cold Water Inlet Connection to the Horizontal Tank shall be located on the bottom of the Tank and the Hot Water Outlet shall be at the top of the Horizontal Tank This is to provide stratification on the Tank water storage

Connection to Cold supply from the tank to the Heat Pump shall be 1 1/4" NPT female type Connection to Hot return from the Heat Pump to the tank shall be 1 1/4" NPT female type

#### Controls

The tank shall be supplied with a Temperature sensor well for field installation so that Tank Temperature sensors are able to be inserted

Each Heat Pump connected to the Storage Tank shall require a 91101-45190 temperature sensor to be field installed in the Sensor well and wired directly to the Heat Pump

If the ECO-MSCTRL-BMS Multi Unit Controller shall be used it shall be supplied with a Tank Temperature sensor and Tank Cold Water to Heat Pump(s) sensor All sensors shall be field installed to the Storage Tank

#### **Pressure and Temperature Relief**

Tank shall be supplied with a field installed, ASME approved Pressure relief valve Valve Setting shall be at 125 Psig Relief Valve shall be piped to a suitable location in case of hot water discharge

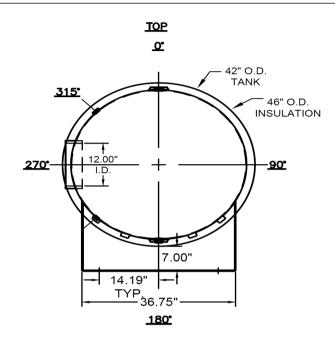


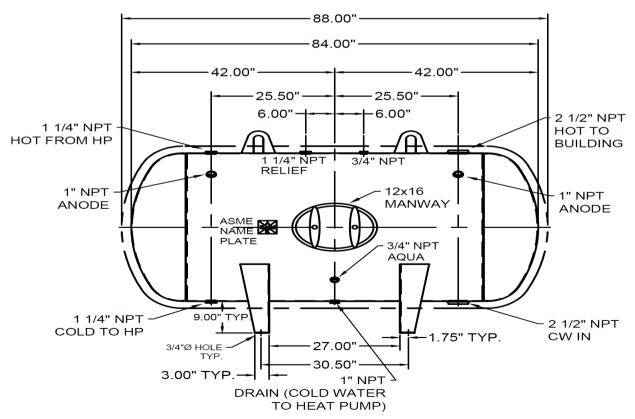
## SUBMITTAL : ECO-HZ455GLNST SAN CO2 455 Gallon Horizontal Tank



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### **Storage Tank Dimensions**





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