SUBMITTAL : ECO-HZ360GLNST
360 Gallon Horizontal Tank

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

Specifications	GS4-45HPC & -D
Performance per GS4-45HPC & GS4-45HPC-D unit	
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-HZ360GLNST**
Tank Volume Actual/Nominal	360 / 397 Gallons
Pressure Relief Valve (Psig & °F)	125 Psig
Temperature Sensor	Thermistor
Installed Tank Dry Weight (lbs)	935lbs
Shipping Tank Weight (lbs)	1009lbs
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

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 meets ASHRAE 90.1b (2010) requirements and complies with California Title 24 requirements

Connections
Hot Water to, Cold Water from building connections shall be 2 1/2" NPT Female at the Top & Bottom of the Tank
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 Thermowell bulb so that field installation of the Tank Temperature sensors shall be 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

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Storage Tank Dimensions