

SUBMITTAL : ECO-HZ285GLNST SA 285 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-HZ285GLNST		
Tank Volume Actual/Nominal	285 / 318 Gallons		
Pressure Relief Valve (Psig & °F)	125 Psig		
Temperature Sensor	Thermistor		
Installed Tank Dry Weight (lbs)	776lbs		
Shipping Tank Weight (lbs)	837lbs		
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

PO Box 1358, Walled Lake MI 48390, Tel : 1-844 SAND CO2 (1-844 726 3262)

www.eco2waterheater.com

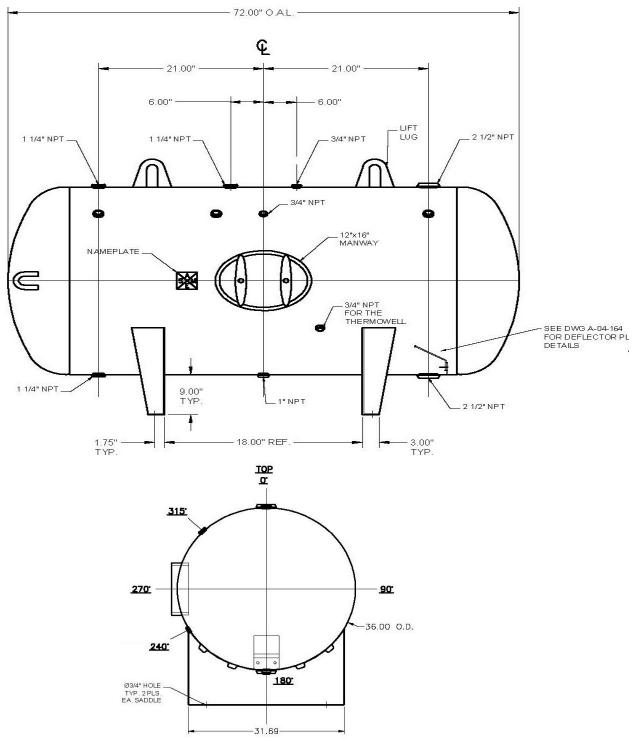




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Storage Tank Dimensions



Eco2 Systems LLC

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