

SUBMITTAL : ECO-HZ505GLNST 505 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-HZ505GLNST	
Tank Volume Actual/Nominal	505 / 558 Gallons	
Pressure Relief Valve (Psig & °F)	125 Psig	
Temperature Sensor	Thermistor	
Installed Tank Weight (lbs)	874lbs	
Shipping Tank Weight (lbs)	1350lbs	
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 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

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

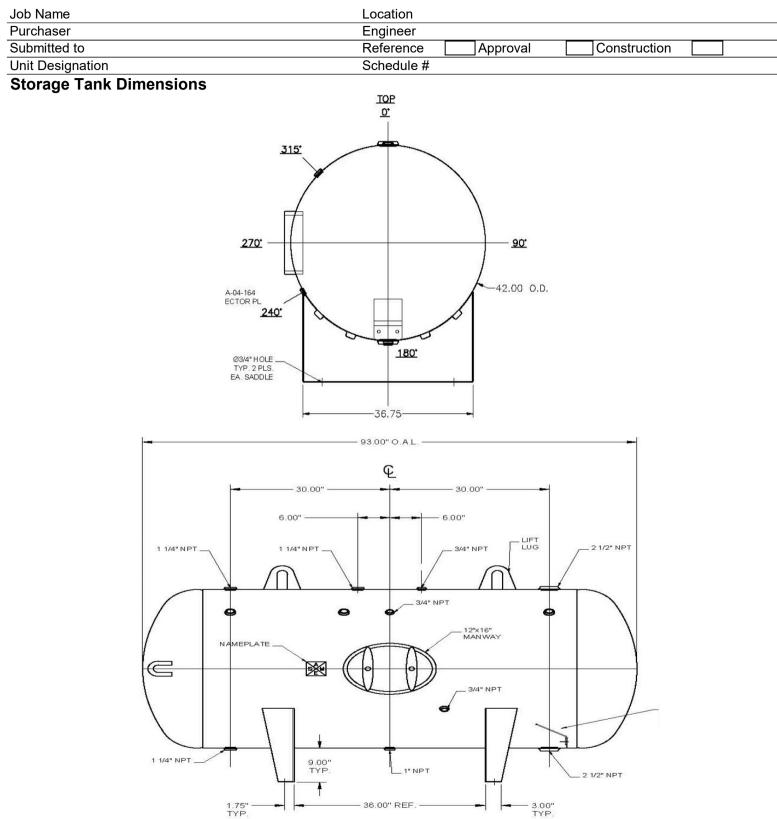
www.eco2waterheater.com



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