

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

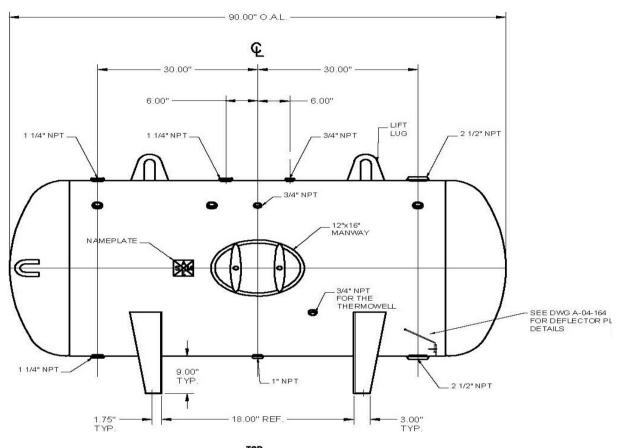


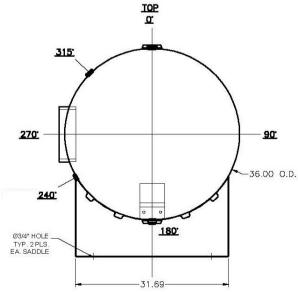
SUBMITTAL : ECO-HZ360GLNST SAN CO2 360 Gallon Horizontal Tank



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Storage Tank Dimensions





Eco2 Systems LLC

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