



SUBMITTAL : ECO-HZ210JKNST

210 Gallon Horizontal Tank



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|------------------|--|
| Job Name | Location |
| Purchaser | Engineer |
| Submitted to | Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction <input type="checkbox"/> |
| 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-HZ210JKNST | |
| Tank Volume Actual/Nominal | 210 / 229 Gallons |
| Pressure Relief Valve (Psig & °F) | 125 Psig |
| Temperature Sensor | Thermistor |
| Installed Tank Dry Weight (lbs) | 622lbs |
| Shipping Tank Weight (lbs) | 717lbs |
| Anodes | 2 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" NPT |
| Hot Water Return from HP | 1" 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 jacket of powder coated steel to provide a secure cover to the Tank and insulation to allow both interior and exterior installation
 Tank shall have ECO2 on the Jacket

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

