



SUBMITTAL : GS4-45HPC-D & SAN-119GLBK 119 Gallon Tank



| | |
|------------------|--|
| 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 | |
| Uniform Energy Factor | 3.40 |
| Uniform First Hour Rating | 135 Gallons |
| Nom Heating Capacity (Btu/h) | 15,400 Btu/h |
| Nom Heating Capacity (kw) | 4.5kw |
| Heating COP @ 80/47/17°F | 5.5 / 4.2 / 2.8 |
| Water Temperature Setting (°F) | 145 or 150 DegF |
| Refrigerant Type | R744 (CO ₂) |
| Refrigerant Charge (Oz) | 25.4oz (720g) |
| Power Voltage | 208/230v-1Ph-60Hz |
| Breaker Size | 15A |
| MCA (Amps) | 7.2A |
| Compressor MRC (Amps) | 5.0A |
| Fan Motor MOC/Watts | 0.3A / 30W |
| Pump MOC/Watts | 0.6A / 60W |
| Drain Pan Heater MOC/Watts | 0.6A / 132W |
| Noise Level (DbA) | 37 |
| Weight (lbs) | 110lbs |
| Storage Tank | |
| SAN-119GLBK | |
| Nominal Volume | 119 Gallons |
| Pressure Relief Valve (Psig & °F) | 150 & 210°F |
| Temperature Sensor | Thermistor |
| Tank Weight (lbs) | 345lbs |
| Standby Loss in 67°F Ambient | 107 Btu/h |
| Tank Connection Sizes | |
| Cold Water Inlet | 1 1/2" NPT |
| Hot Water Outlet | 1 1/2" NPT |
| Cold Water to Heat Pump | 3/4" NPT |
| Hot Water Return from HP | 3/4" NPT |
| Pipe Size - Tank to Heat Pump | |
| Cold Water pipe - Tank to HP | 1/2" |
| Hot Water pipe - HP to Tank | 1/2" |
| Max Pipe Length inc | 66ft |
| Max Vertical Separation of | 23ft |
| Certifications | |
| Safety | ETL & ETLc |
| Performance | Energy Star |
| Warranty - System | |
| Heat Pump | 3 Years Labor |
| Tank | 10 Years Parts |
| | 10 Years |

Construction

The Outdoor unit shall be galvanized steel with a baked on powder coated finish on all panels except for unit base

Heat Exchangers

Evaporator coil shall be mechanically bonded Aluminum fin to copper tube. Fins shall be coated to resist corrosion

The Refrigerant to Water HX (Gas Cooler) shall be a Double Wall type pressure tested to 6000 psi

Refrigerant System

Compressor shall be a hermetically sealed DC Inverter drive Rotary vane type
Refrigerant shall be R744 (CO₂).

Refrigerant flow shall be controlled by Electronic Expansion Valve

Fan & Motor

The outdoor unit fan shall be a propeller type, driven by a BLDC Motor

Water Pump

The pump shall be a BLDC Impellor type, with a maximum distance of 66ft including a vertical separation of 23ft from the Storage Tank

Controls

The unit shall be operated using a temperature sensor mounted in the Storage tank

Control wiring shall require 16AWG shielded wire
Ambient operating range shall be -25°F to 104°F

Storage Tank

Storage tank shall be constructed from mild steel with a baked on Colbalt enriched porcelain lining
Storage Tank connections shall be NPT. Storage Tank shall be supplied with Mixing Valve & PTR Valve

Interconnect Piping

Interconnect Piping shall be 1/2" copper or where permitted 1/2" PEX tubing

Both Cold and Hot piping should be insulated with min 3/4" closed cell foam and where required Heat Trace tape shall be used to prevent pipes from freezing

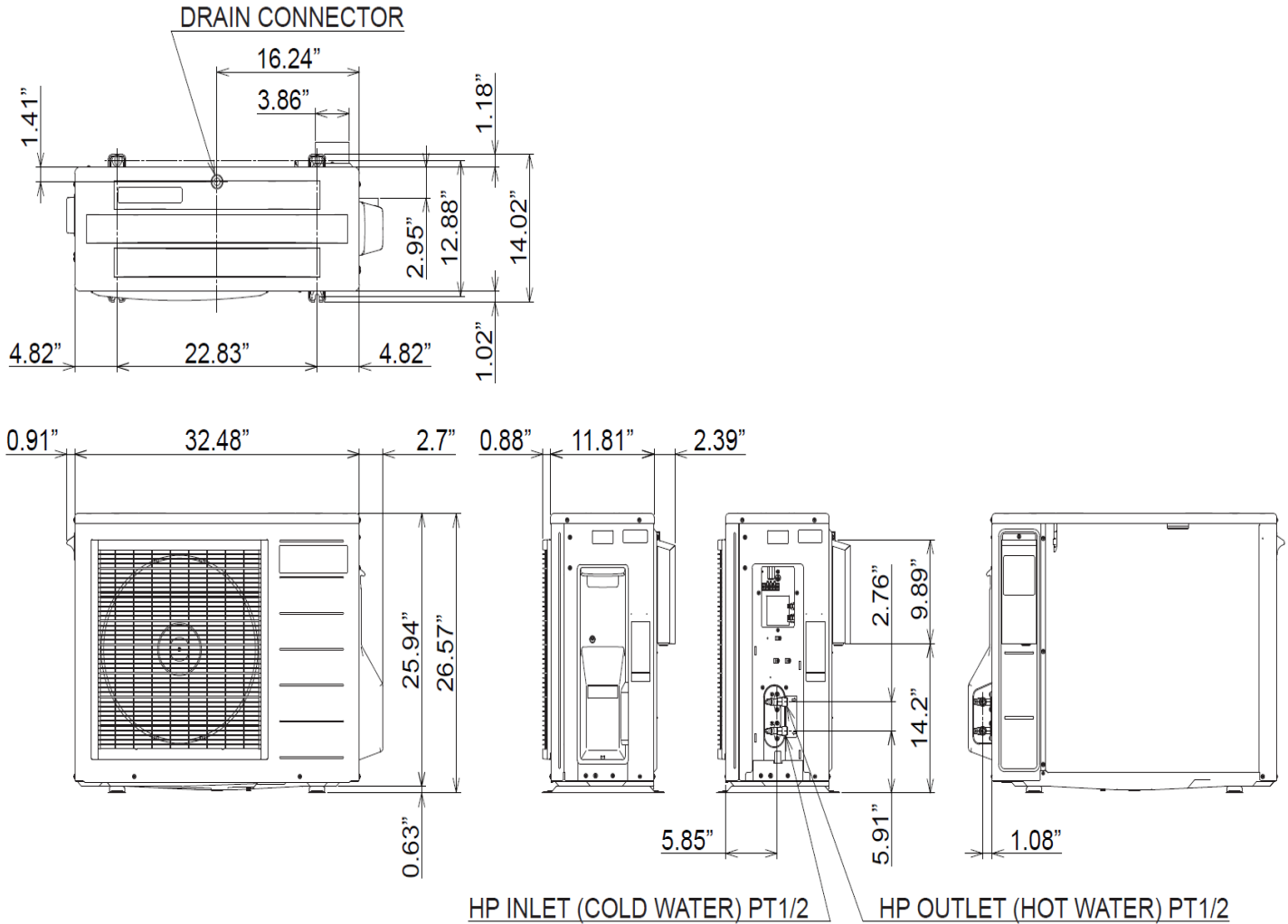


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GS4-45HPC-D Dimensions



Unit:inch

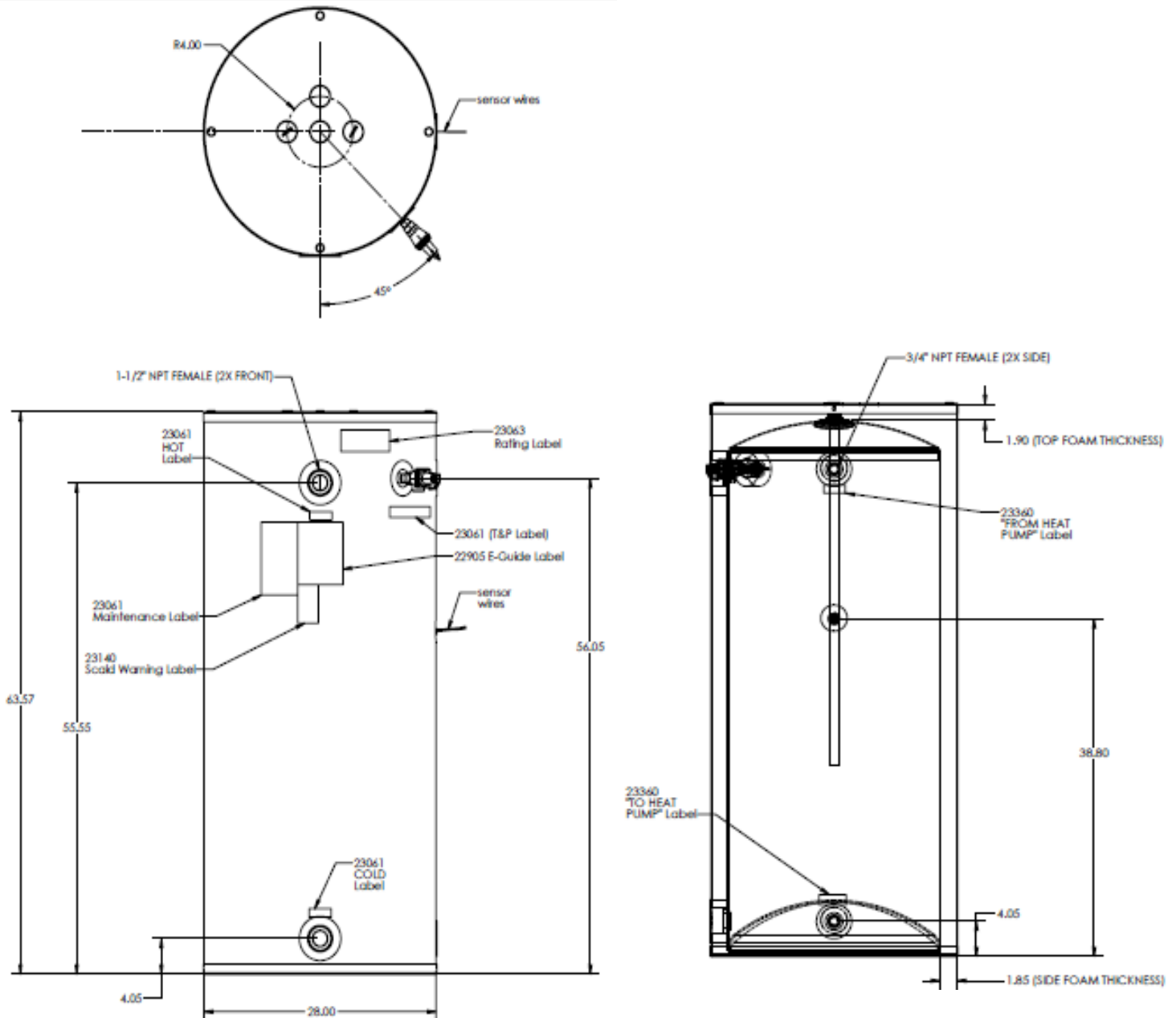


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SAN-119GLBK Glass Lined Storage Tank Dimensions



Eco2 Systems LLC

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Due to Eco2 Systems LLC's policy of on-going product development specifications are subject to change without notice

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