# SUBMITTAL : GS5-45HPC-D & ECO-43SSAQB 43 Gallon Tank

| | | | | | | |
|---|---|---|---|---|---|---|
| Job Name | Location | | | | | |
| Purchaser | Engineer | | | | | |
| Submitted to | Reference | ☐ | Approval | ☐ | Construction | ☐ |
| Unit Designation | Schedule # | | | | | |

| Specifications | GS5-45HPC-D |
|---|---|
| **Performance** | |
| Uniform Energy Factor | 3.66 |
| Uniform First Hour Rating | 69 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°F or 150°F |
| 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** | **ECO-43SSAQB** |
| Nominal Volume | 43 Gallons |
| Pressure Relief Valve (Psig & °F) | 150 & 210°F |
| Temperature Sensor | Thermistor |
| Tank Weight (lbs) | 88lbs |
| Standby Loss in 67°F Ambient | 91 Btu/h |
| | |
| **Tank Connection Sizes** | |
| Cold Water Inlet | 3/4" NPT |
| Hot Water Outlet | 3/4" 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 | 3 Years Labor |
| Heat Pump | 10 Years Parts |
| Tank | 15Yrs Limited Lifetime |

**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 ($CO_2$).
Refrigerant flow shall be controlled by EEV

**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

**Controls**
The unit shall be operated using a temperature sensor mounted in the Storage tank
Control wiring shall require 18-2AWG shielded wire
Ambient operating range shall be -25°F to 114°F
A Modbus communication signal shall be accepted by the GS5 Heat Pump via a Controller that shall be supplied by ECO2 Systems as an accessory

**Storage Tank**
Storage tank shall be constructed from a blend of 316/444 Stainless Steel with R12 Insulation
Storage Tank connections shall be NPT
Connections shall be interchangeable as required

**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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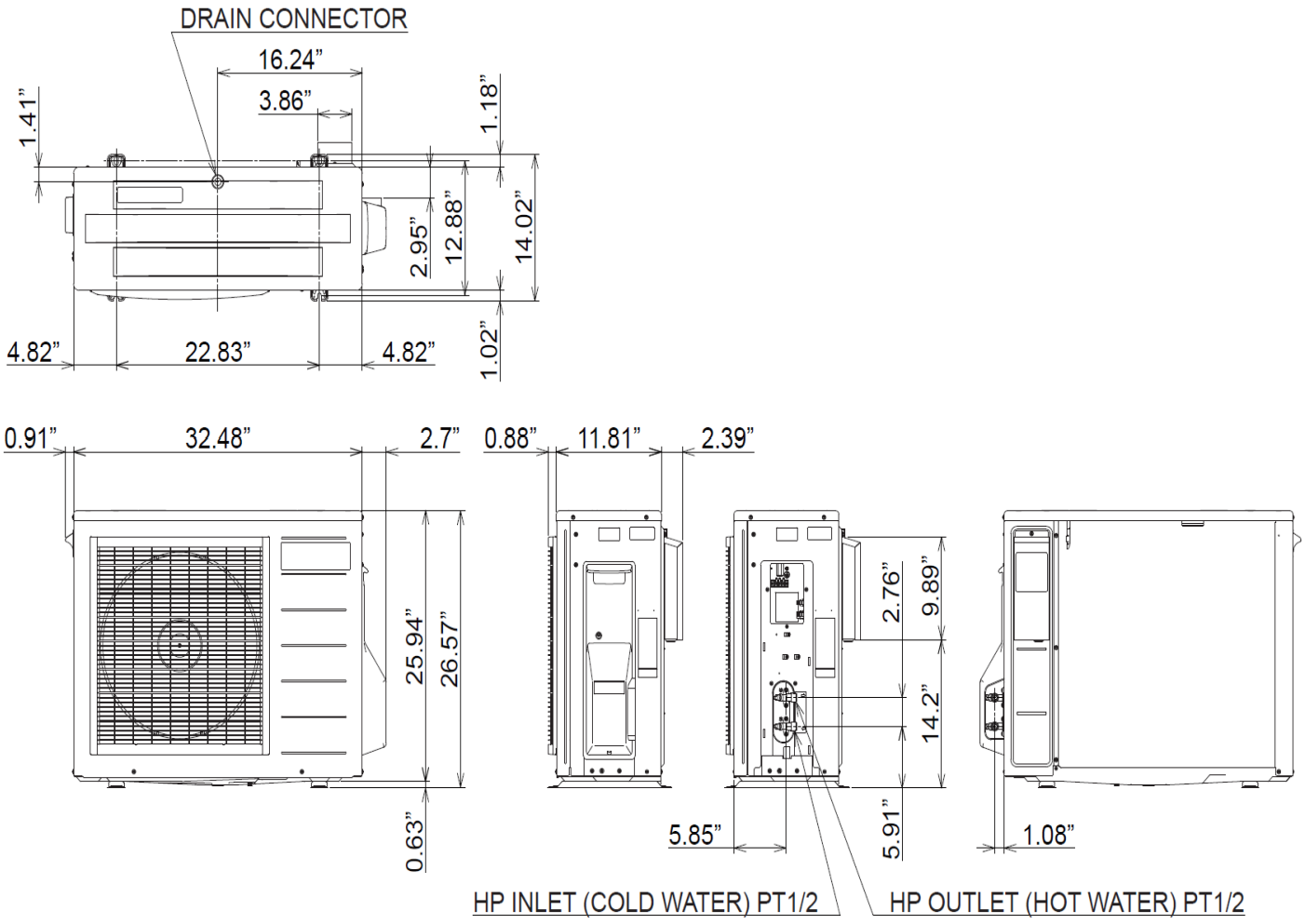
## GS5-45HPC-D Dimensions




Unit : inch


Eco2 Systems LLC

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

www.eco2waterheater.com

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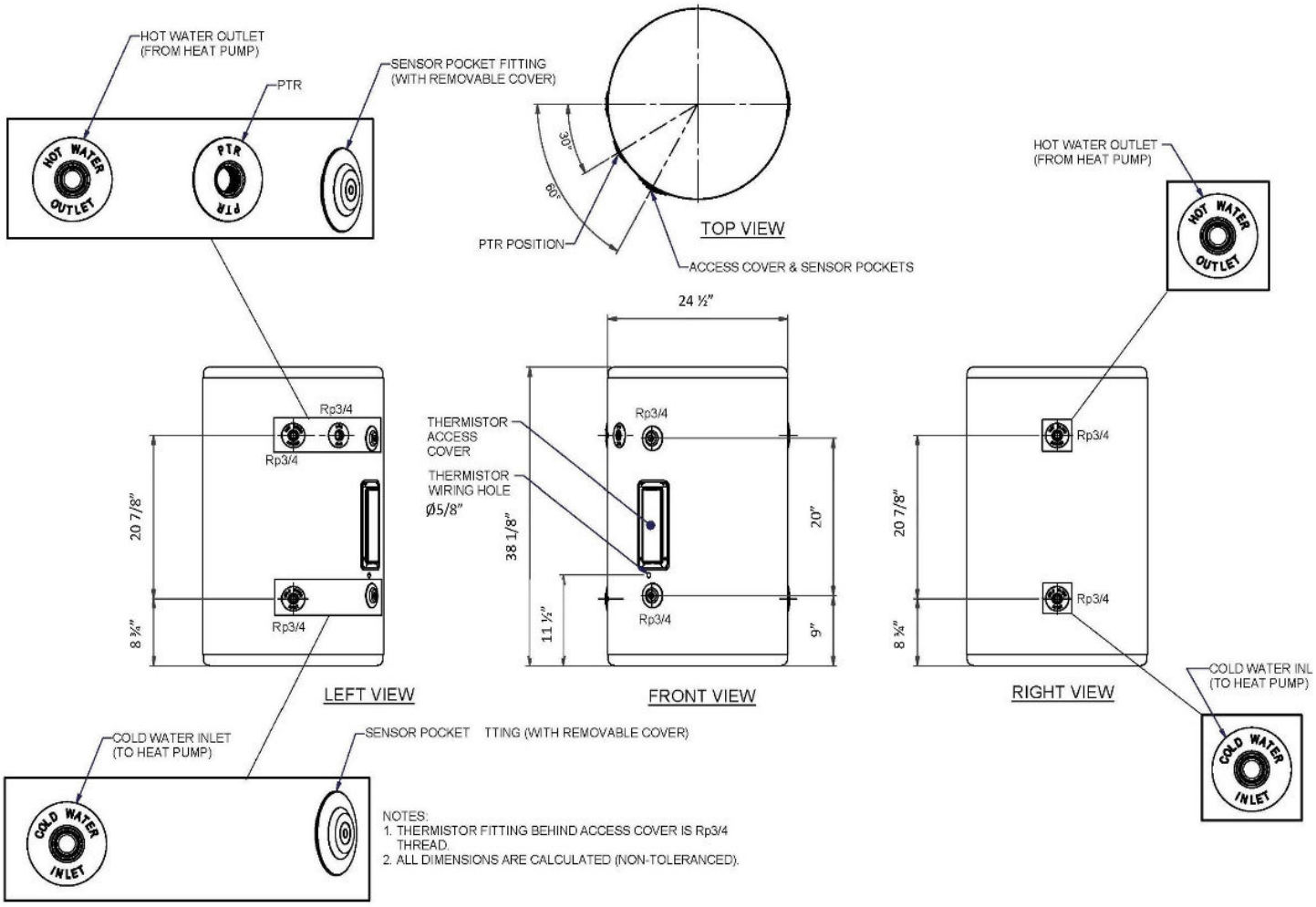
## ECO-43SSAQB Stainless Steel Storage Tank Dimensions

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