



# SUBMITTAL : GS5-45HPC & ECO-43SSAQB 43 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	GS5-45HPC
<b>Performance</b>	
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 <sub>2</sub> )
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
Noise Level (DbA)	37
Weight (lbs)	108lbs
<b>Storage Tank</b>	
<b>ECO-43SSAQB</b>	
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
<b>Tank Connection Sizes</b>	
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
<b>Pipe Size - Tank to Heat Pump</b>	
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
<b>Certifications</b>	
Safety	ETL & ETLc
Performance	Energy Star
<b>Warranty - System</b>	
Heat Pump	3 Years Labor
Tank	10 Years Parts
	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<sub>2</sub>).

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

### 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 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

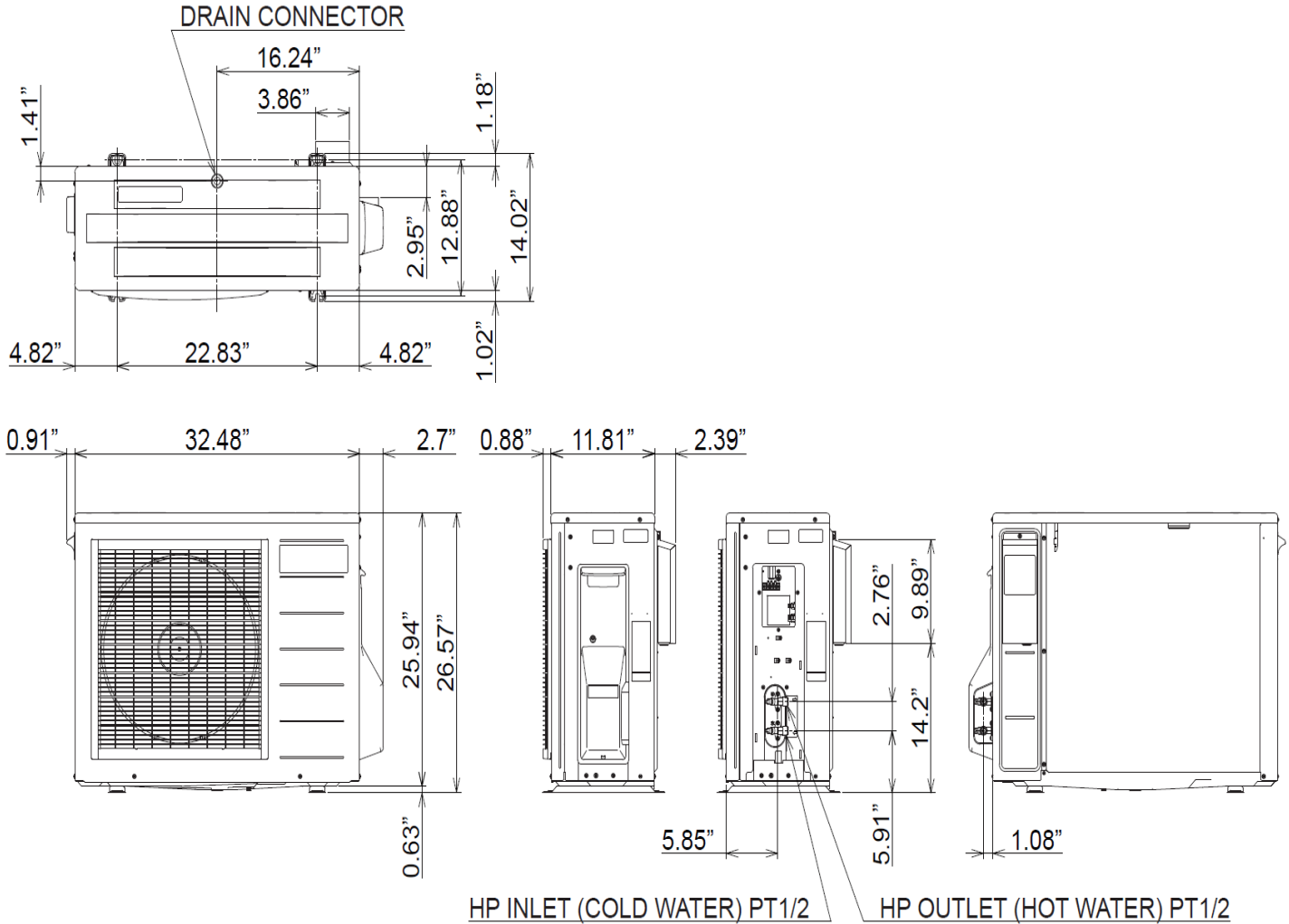


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## GS5-45HPC Dimensions



Unit: inch



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## ECO-43SSAQB Stainless Steel Storage Tank Dimensions

