



# SUBMITTAL : GS4-45HPC-D

## Heat Pump Water Heater



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
Uniform Energy Factor	Dependent on Tank
Uniform First Hour Rating	Dependent on Tank
Recovery rate @ 90°F Temp Rise	20.6 GPH
Nom Heating Capacity (Btu/h)	15,400 Btu/h
Nom Heating Capacity (kw)	4.5kw
Ambient Operating Range	-26 to 114°F
Heating COP @ 80°F Ambient	5.5
Heating COP @ 43°F Ambient	4.2
Heating COP @ 17°F Ambient	2.6
Water Temperature Setting (°F)	145 to 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
Drain Pan Heater MOC/Watts	0.6A / 132W
Noise Level (DbA)	37
Weight (lbs)	110lbs
<b>Storage Tank Model #'s</b>	SAN-43SSAQA
	SAN-83SSAQA
	SAN-119GLBK
	ECO-119GLASME
	ECO-200GLBK
	ECO-285GLNST
	ECO-360GLNST
	ECO-455GLNST
	ECO-505GLNST
<b>Piping - Tank to Heat Pump and back to Tank</b>	
Cold & Hot Water pipe size	1/2" & 1/2"
Max Pipe Length including	66ft
Max Vertical Separation of	23ft
Max Incoming Water Pressure	75 Psi
<b>Certifications</b>	
Safety	ETL/ETLc
Energy Star	US & Canada
<b>Residential Warranty - System</b>	3 Years Labor
Heat Pump	10 Years Parts

### Construction

The Outdoor unit shall be galvanized steel with a baked on powder coated finish on all panels except 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 co-axial type pressure tested to 6000 psi

### Refrigerant System

Compressor shall be a hermetically sealed DC Inverter drive Rotary type. Refrigerant shall be R744 (CO<sub>2</sub>). Refrigerant flow shall be controlled by an 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 lift of 23ft and total piping length of 66ft

### Controls

The unit shall be operated using Eco2 Systems supplied Temperature sensor(s) installed in the Storage tank Tank Temperature Sensor part number is 91101-45190. The SAN-43, SAN-83, SAN-119, ECO-119 & ECO-200 Tanks shall have Temp sensor(s) factory installed. The sensor(s) installed in the Tank shall be wired directly to the GS4 Heat Pump(s). Control wiring to each Heat Pump shall require 18AWG stranded, shielded wire The unit shall have a Drain Pan Heater to ensure that condensate produced will not freeze on the Drain Pan

### Interconnect Piping

Interconnect Piping shall be 1/2" copper or where permitted 1/2" PEX tubing directly to the Heat Pump(s) More than 2 Heat Pumps connected to the same tank shall utilize a reverse return manifold piping system Both Cold and Hot piping should be insulated with min 3/4" closed cell foam and where required Heat Trace shall be used to prevent pipes from freezing

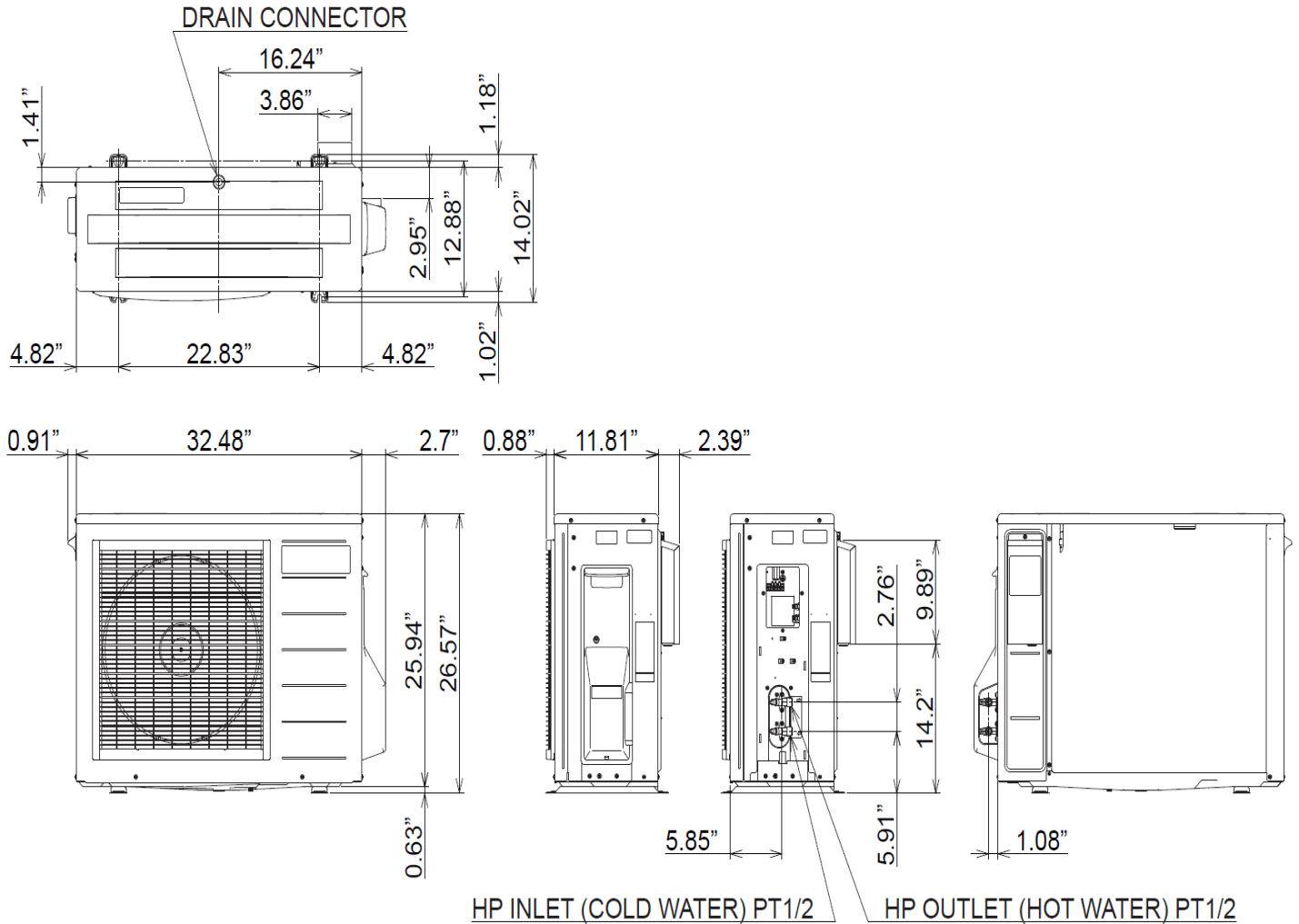


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## GS4-45HPC-D Dimensions



Unit: inch

Eco2 Systems LLC

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[www.eco2waterheater.com](http://www.eco2waterheater.com)

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

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