

## SUBMITTAL : GS5-45HPC-D Heat Pump Water Heater



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

Specifications	GS5-45HPC-D
Specifications	
Uniform Energy Factor Uniform First Hour Rating	Dependent on Tank
Recovery rate @ 90°F Temp Rise	Dependent on Tank 20.6 GPH
Nom Heating Capacity (Btu/h)	15,400 Btu/h
Nom Heating Capacity (kw)	4.5kw
Ambient Operating Range Heating COP @ 80°F Ambient	-25 to 114°F 5.5
Heating COP @ 43°F Ambient	4.2
Heating COP @ 17°F Ambient	2.6
Hot Water Temperature (°F)	2.0 145°F / 150°F
	145°F / 150 F 113°F
Tank Temperature to Start	
GS5 Inlet Water Temp to Stop	118°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
Storage Tank Model #'s	ECO-43SSAQB
	SAN-43SSAQA
	ECO-83SSAQB
	SAN-83SSAQA
	SAN-119GLBK
	ECO-119GLASME
	ECO-200GLBK
	ECO-285GLNST
	ECO-360GLNST
	ECO-455GLNST
	ECO-505GLNST
Piping - Tank to Heat Pum	
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
Certifications	
Safety	ETL/ETLc
Energy Star	US & Canada
Residential Warranty	3 Years Labor
Heat Pump	10 Years Parts
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#### 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 GS5 fan shall be propeller, driven by a BLDC motor

#### Water Pump

The pump shall be a BLDC Impeller 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 The ECO/SAN-43, ECO/SAN-83, SAN-119, ECO-119 & ECO-200 Tanks shall have Tank sensors installed and shall be wired directly to the GS5 Heat Pump with 18-2AWG stranded , shielded wire 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 The accessory Controller shall be wired to the GS5

#### **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 & Freeze Protection Valves shall prevent freezing

ECO2 Systems LLC

PO Box 1358, Walled Lake MI 48390, Tel : 1-844 SAND CO2 (1-844 726 3262) www.eco2waterheater.com

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

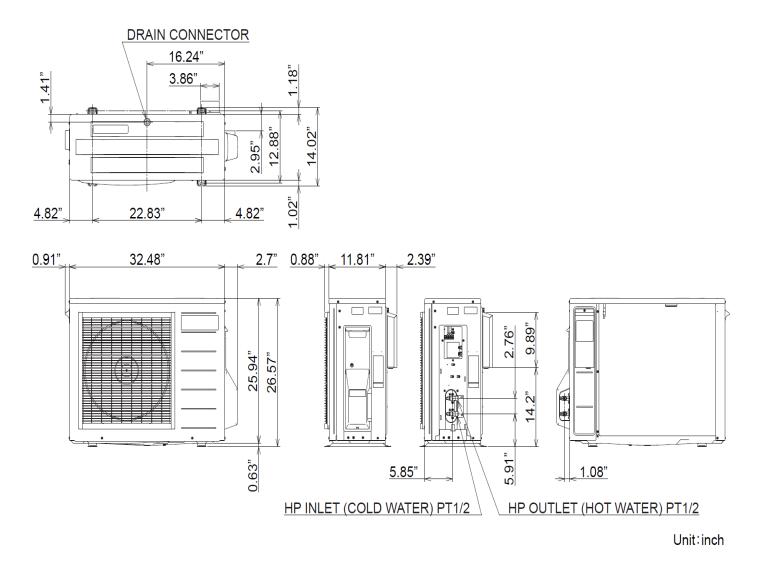


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# **GS5-45HPC-D** Dimensions



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