

# SUBMITTAL : GS5-45HPC-D & ECO-83SSAQB 83 Gallon Tank



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

Specifications	GS5-45HPC-D	
Performance		
Uniform Energy Factor	3.80	
Uniform First Hour Rating	121 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	
Drain Pan Heater MOC/Watts	0.6A / 132W	
Noise Level (DbA)	37	
Weight (lbs)	110lbs	
Storage Tank	ECO-83SSAQB	
Nominal Volume	83 Gallons	
Pressure Relief Valve (Psig & °F)	150 & 210°F	
Temperature Sensor	Thermistor	
Tank Weight (lbs)	115lbs	
Standby Loss in 67°F Ambient	110 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	
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Certifications		
Safety	ETL & ETLc	
Performance	Energy Star	
	3 Years Labor	
Warranty - System		
	10 Years Parts	
Warranty - System Heat Pump Tank		

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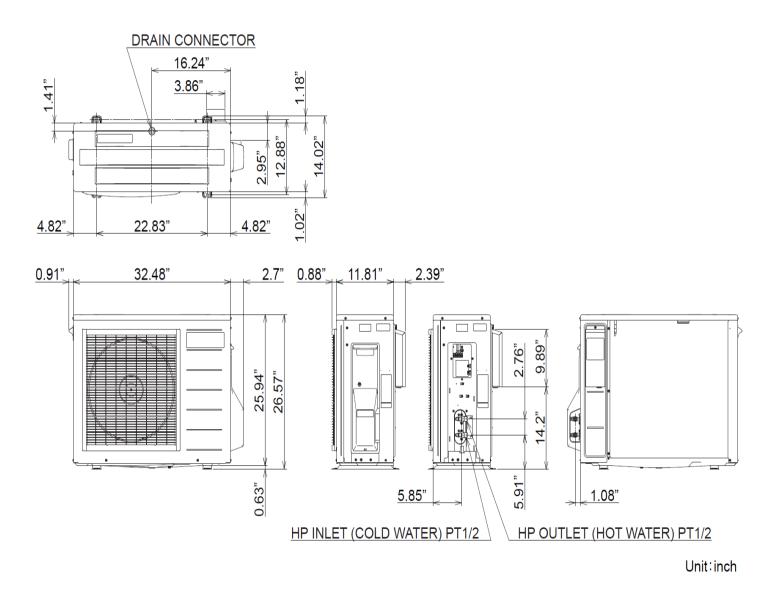
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# **GS5-45HPC-D** Dimensions



Eco2 Systems LLC

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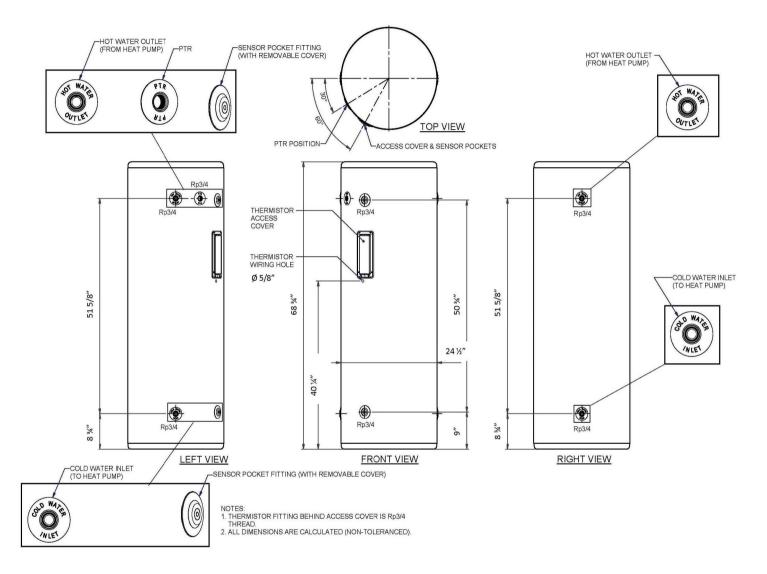


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# ECO-83SSAQB Stainless Steel Storage Tank Dimensions



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