SUBMITTAL : GS4-45HPC & SAN-119GLBK 119 Gallon Tank

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

Specifications	GS4-45HPC
Performance	
Uniform Energy Factor	3.40
Uniform First Hour Rating	135 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 or 150 DegF
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
Noise Level (DbA)	37
Weight (lbs)	108lbs
Storage Tank	**SAN-119GLBK**
Nominal Volume	119 Gallons
Pressure Relief Valve (Psig & °F	150 & 210°F
Temperature Sensor	Thermistor
Tank Weight (lbs)	345lbs
Standby Loss in 67°F Ambient	107 Btu/h
Tank Connection Sizes	
Cold Water Inlet	1 1/2" NPT
Hot Water Outlet	1 1/2" 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	10 Years

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 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 distance of 66ft including a vertical separation of 23ft from the Storage Tank

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 104°F

Storage Tank
Storage tank shall be constructed from mild steel with a baked on Colbalt enriched porcelain lining
Storage Tank connections shall be NPT. Storage Tank shall be supplied with Mixing Valve & PTR Valve

Interconnect Piping
Interconnect Piping shall be 1/2" soft copper or where permitted 1/2" PEX tubing
Both Cold and Hot piping should be insulated with 1" closed cell foam and where required Heat Trace tape shall be used to prevent pipes from freezing

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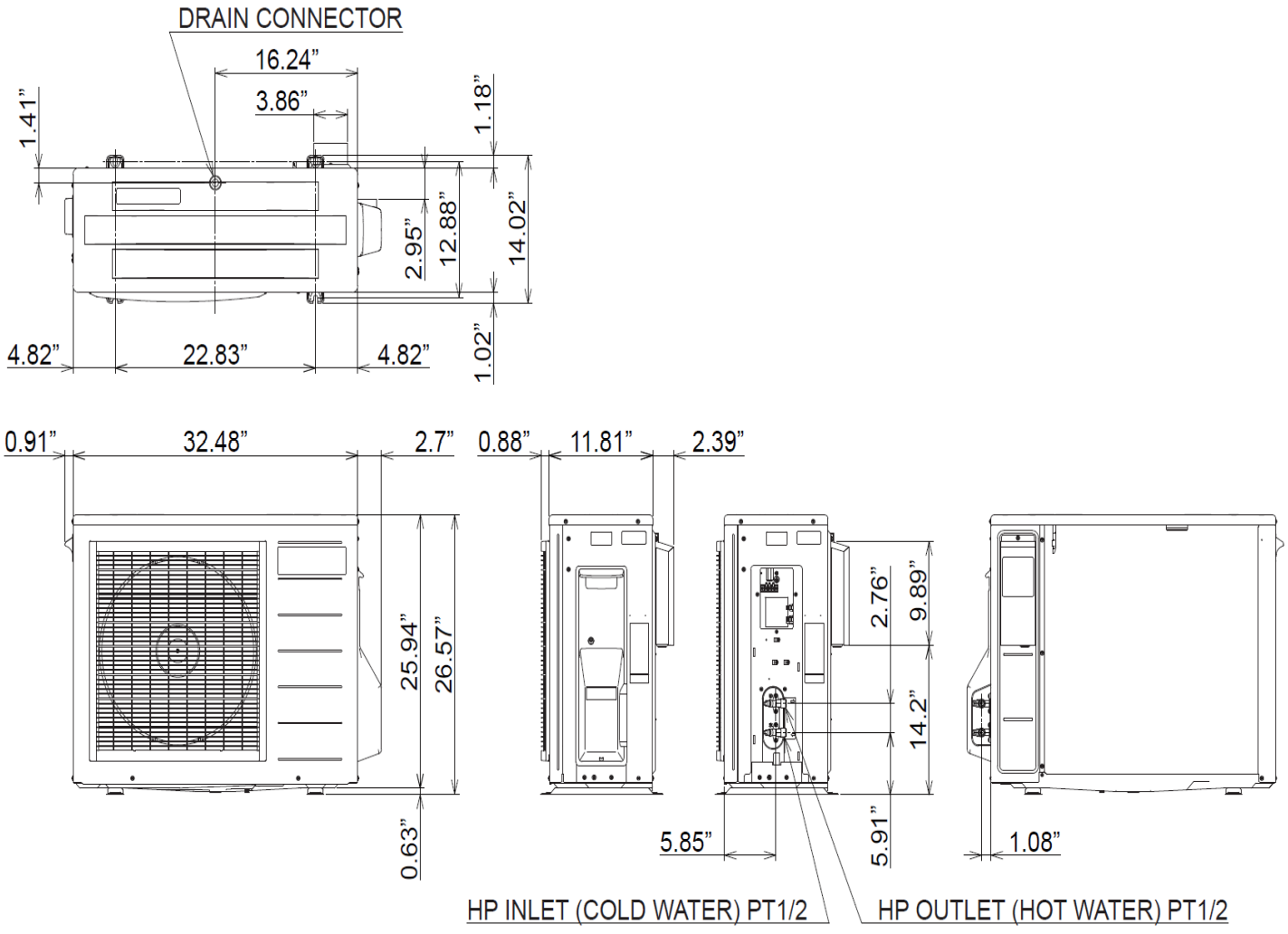
GS4-45HPC Dimensions



Unit：inch

Eco2 Systems LLC PO Box 1358, Walled Lake MI 48390, Tel : 1-844 SAND CO2 (1-844 726 3262)
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