



SUBMITTAL : GS4-45HPC & SAN-43SSAQA 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	GS4-45HPC
Performance	
Uniform Energy Factor	3.10
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 or 149 DegF
Refrigerant Type	R744 (CO ₂)
Refrigerant Charge (Oz)	25.4oz (720g)
Power Voltage	208/230v-1Ph-60Hz
Breaker Size	15A
MCA (Amps)	10.2A
Compressor RLA/LRA (Amps)	7.5A / 9.8A
Fan Motor RLA/Watts	0.4A / 70W
Pump RLA/Watts	0.4A / 40W
Noise Level (DbA)	37
Weight (lbs)	108lbs
Storage Tank	
SAN-43SSAQA	
Nominal Volume	43 Gallons
Pressure Relief Valve (Psig & °F)	125 & 210°F
Temperature Sensor	Thermistor
Tank Weight (lbs)	88lbs
Standby Loss in 67°F Ambient	91 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
Certifications	
Safety	ETL & ETLc Pending
Performance	Energy Star Pending
Warranty - System	
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 (CO₂).

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 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" 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

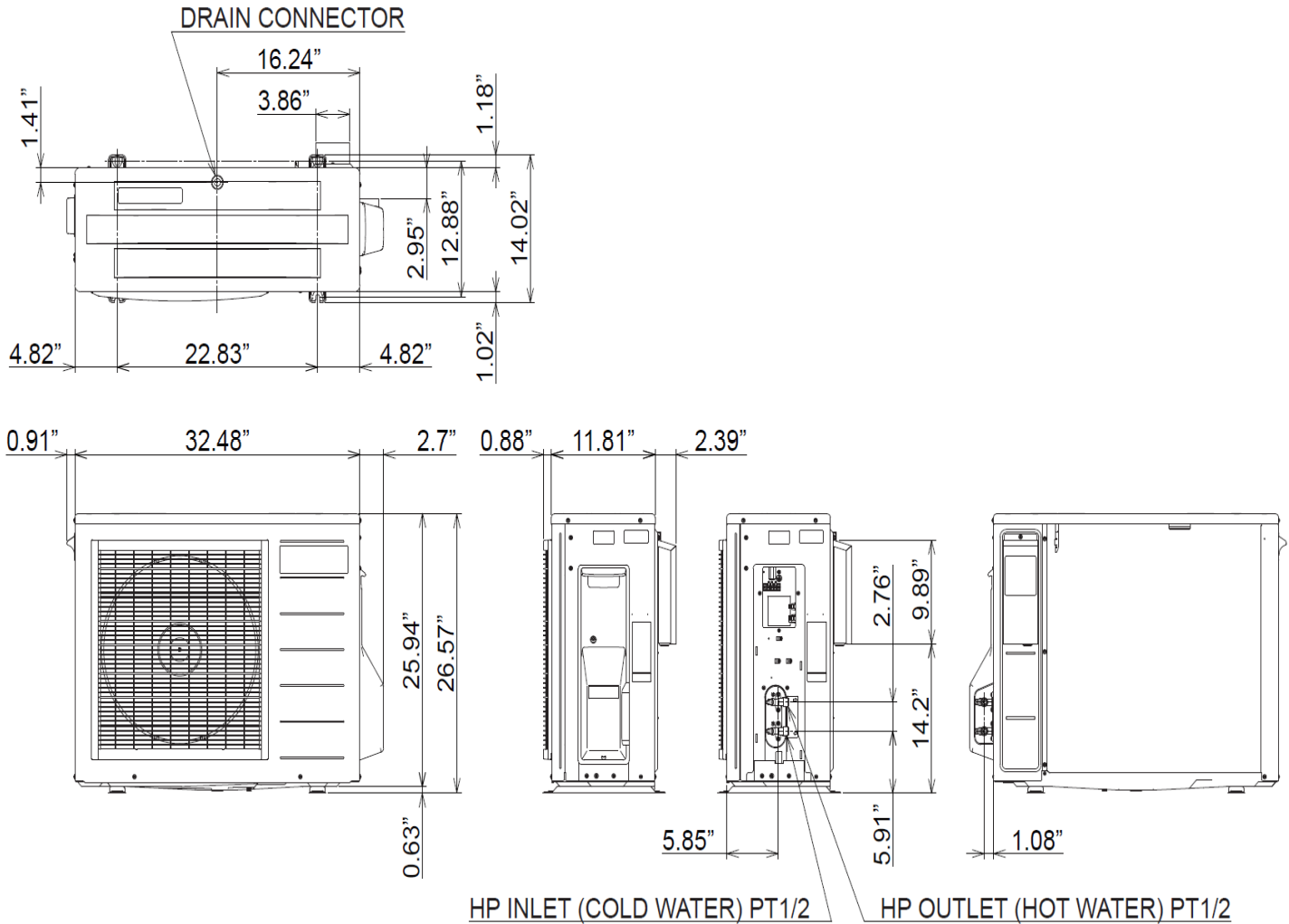


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GS4-45HPC Dimensions



Unit: inch

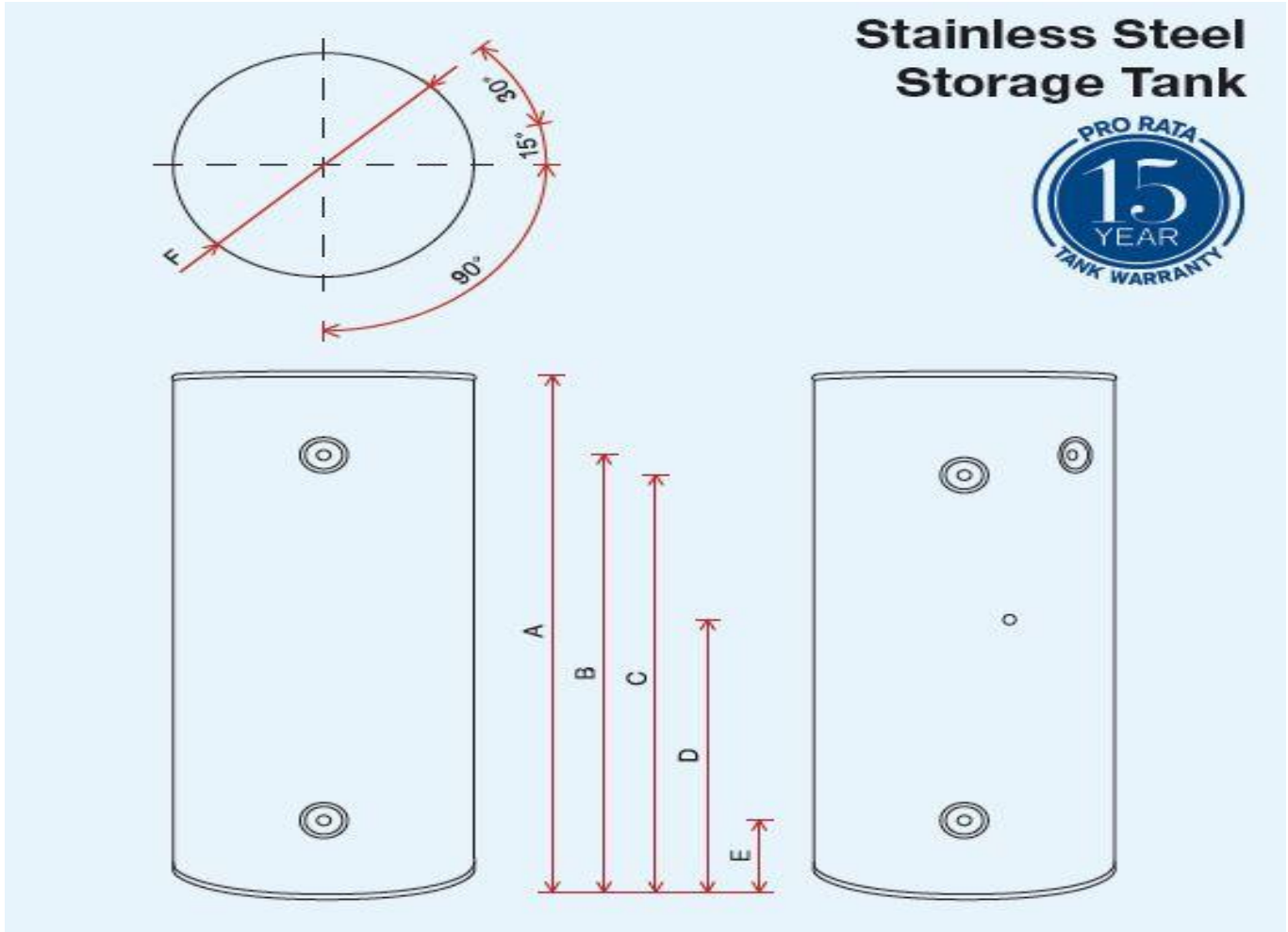


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Stainless Steel Storage Tank Dimensions



Tank Model No:	
A	Height
B	Hot Water Outlet & PR Valve
C	Heat Pump Return
D	Sensor Port
E	Cold Water Inlet / Cold Water to HP
F	Diameter
	Weight (lbs)
	Tank Capacity (gallons)

SAN-43SSAQA	
	38-1/8"
	29-1/2"
	29-1/2"
	9-3/4"
	8-3/4"
	24-1/2"
	88 lbs
	43 gallons