



# SUBMITTAL : GS4-45HPC & SAN-83SSAQA 83 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
<b>Performance</b>	
Uniform Energy Factor	3.75
Uniform First Hour Rating	115 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 <sub>2</sub> )
Refrigerant Charge (Oz)	25.4oz (720g)
Power Voltage	208/230v-1Ph-60Hz
Breaker Size	15A
MCA (Amps)	7.2A
Compressor RLA/LRA (Amps)	5.0A / 9.0A
Fan Motor RLA/Watts	0.3A / 30W
Pump RLA/Watts	0.6A / 60W
Noise Level (DbA)	37
Weight (lbs)	108lbs
<b>Storage Tank</b>	
<b>SAN-83SSAQA</b>	
Nominal Volume	83 Gallons
Pressure Relief Valve (Psig & °F)	125 & 210°F
Temperature Sensor	Thermistor
Tank Weight (lbs)	115lbs
Standby Loss in 67°F Ambient	130 Btu/h
<b>Tank Connection Sizes</b>	
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
<b>Pipe Size - Tank to Heat Pump</b>	
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
<b>Certifications</b>	
Safety	ETL & ETLc Pending
Performance	Energy Star Pending
<b>Warranty - System</b>	
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 (CO<sub>2</sub>).  
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

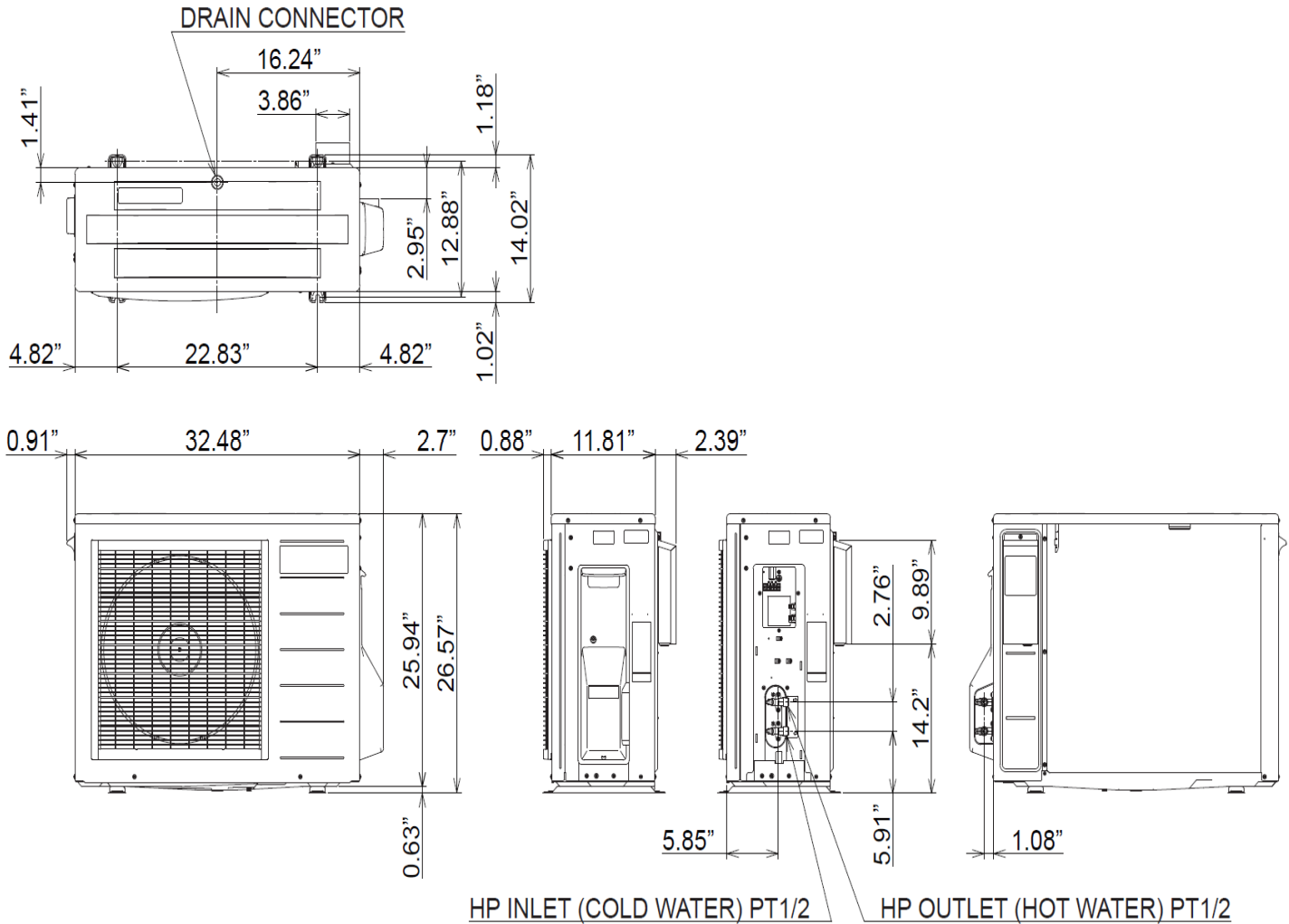


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## GS4-45HPC Dimensions



Unit: inch

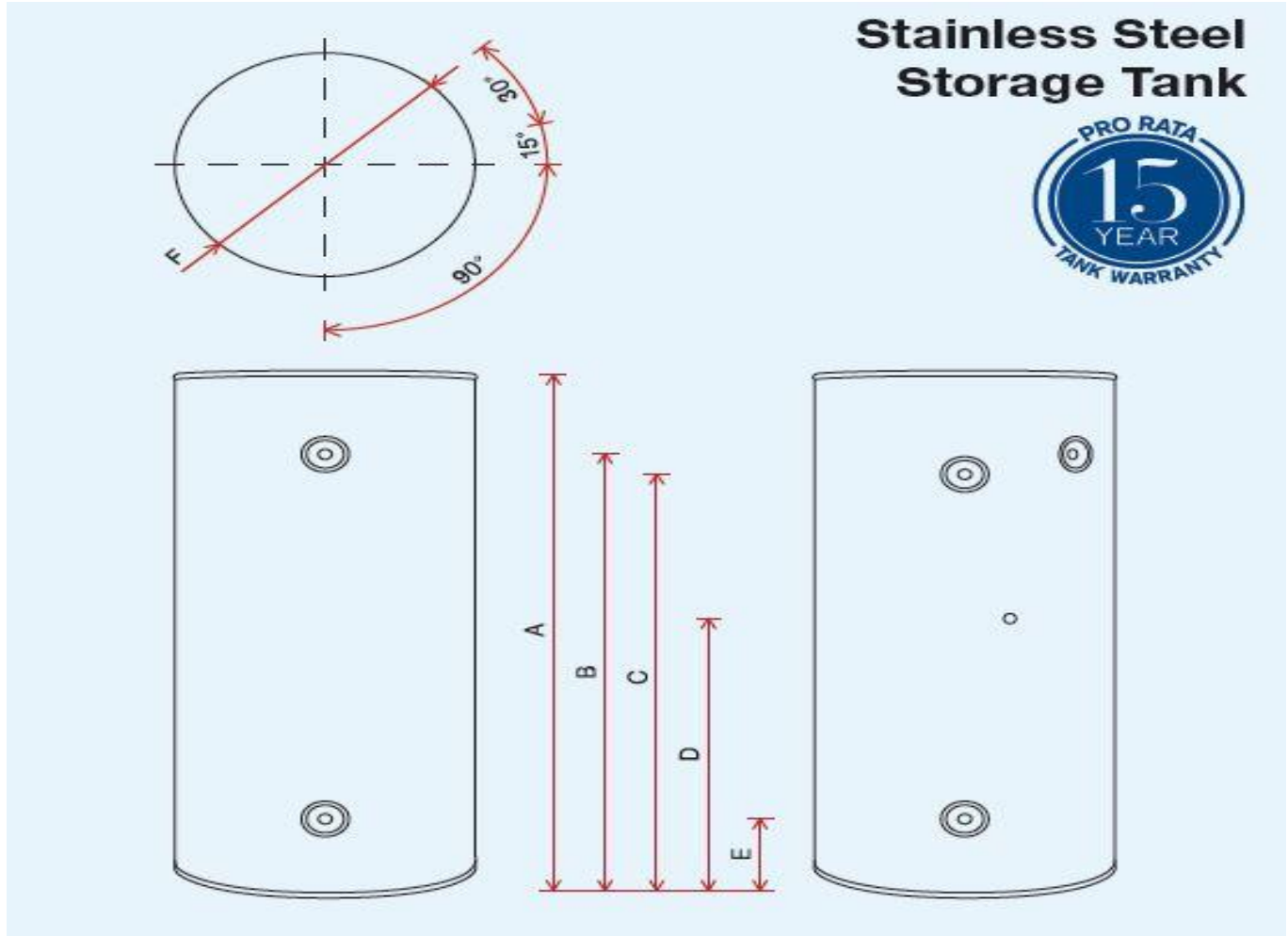


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## Stainless Steel Storage Tank Dimensions



Tank Model No:	SAN-83SSAQA
<b>A</b> Height	68-7/8"
<b>B</b> Hot Water Outlet & PR Valve	60-1/4"
<b>C</b> Heat Pump Return	60-1/4"
<b>D</b> Sensor Port	40 3/8"
<b>E</b> Cold Water Inlet / Cold Water to HP	8-3/4"
<b>F</b> Diameter	24-1/2"
Weight (lbs)	115 lbs
Tank Capacity (gallons)	83 gallons