

SUBMITTAL : GUS-A45HPA

Split Heat Pump Water Heater



Job Name : Monterrey Pines

Location

Purchaser

Engineer

Submitted to

Reference

Approval

Construction

Unit Designation

Schedule #

Specifications	GUS-A45HPA
Performance	
Energy Factor - 43 Gal System	2.65
First Hour Rating - 43 Gal System	69 Gallons
Energy Factor - 83 Gal System	3.35
First Hour Rating - 83 Gal System	97 Gallons
Nom Heating Capacity (Btu/h)	15,400 Btu/h
Nom Heating Capacity (kw)	4.5kw
Heating COP	4.5
Water Temperature Setting	149 DegF
Refrigerant Type	R744 (CO ₂)
Refrigerant Charge (Oz)	22oz
Power Voltage	208/230v-1Ph-60Hz
Breaker Size	15A
MCA (Amps)	7.7A
Compressor RLA/LRA (Amps)	7.5/9.8A
Fan Motor RLA/Watts	0.3A / 70W
Pump RLA/Watts	0.2A / 30W
Noise Level (DbA)	38
Weight (lbs)	123lbs
Storage Tank	
GAUS-160QQT/SAN-43SSAQA	43 Gallons
GAUS-315EQTD/SAN-83SSAQA	83 Gallons
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 Heat Pump	3/4" NPT
Press Relief Valve Setting	125 Psig
Pipe Size - Tank to Heat Pump	
Size	1/2" & 1/2"
Max Pipe Length inc	50ft
Max Vertical Separation of	10ft
Certifications	
Safety	ETL & ETLc
Performance	AHRI
ARI Certification reference #	TBA
Warranty - System	3 Years Labor
Heat Pump	10 Years Parts
Tank	15Yrs Limited Lifetime

Construction

The Outdoor unit shall be galvanized steel with a with a baked on powder coated finish for durability

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 Scroll

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

Controls

The unit shall be operated using a temperature sensor mounted in the Storage tank

Control wiring shall require 16AWG shielded wire

Unit operating range shall be -15 DegF to 104 DegF

Storage Tank

Storage tank shall be constructed from a blend of 316/444 Stainless Steel with R12 Insulation

Storage Tank connections shall be NPT

Storage Tank capacities shall be 43 Gallons and 83 Gallons

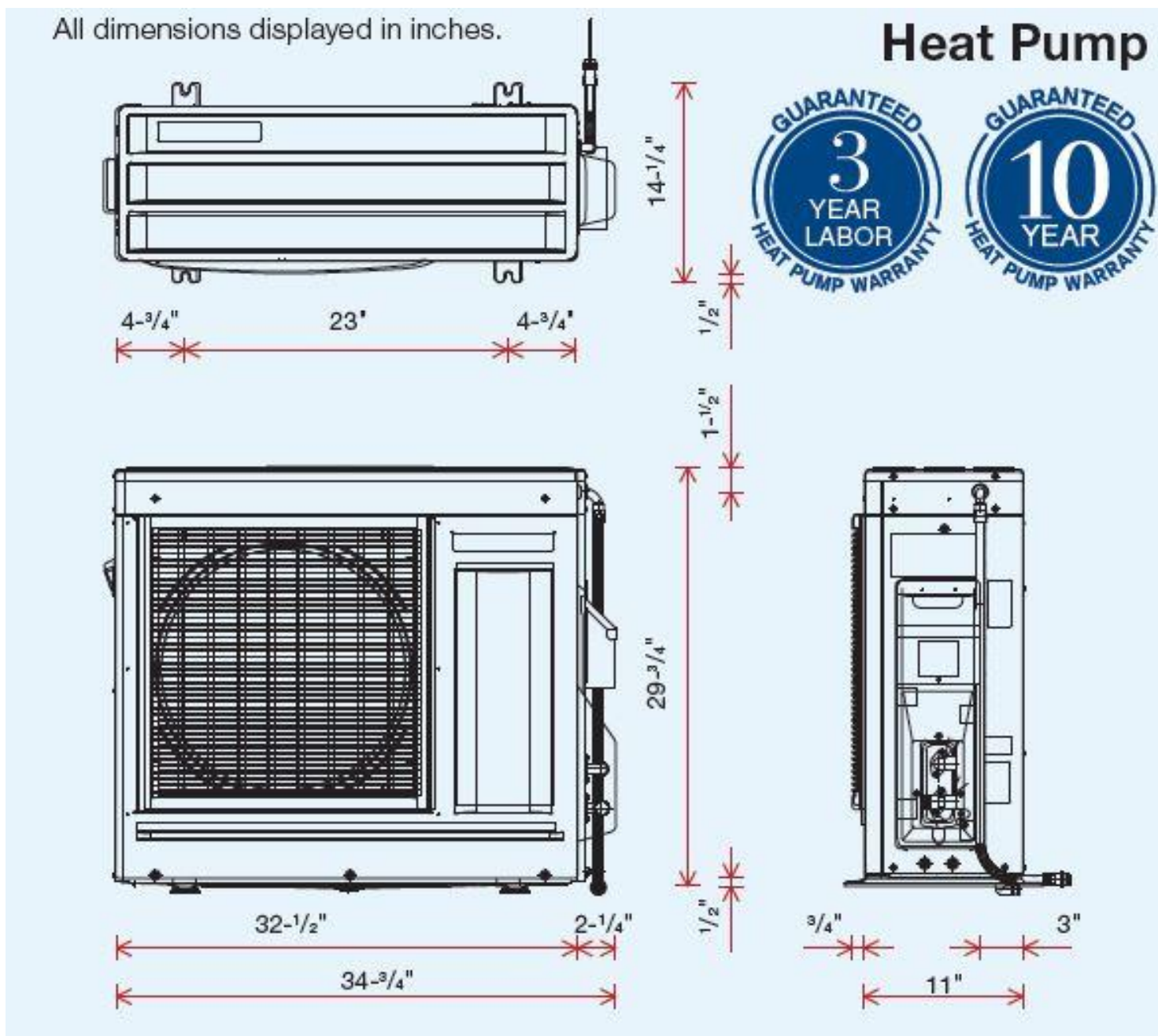
Interconnect Piping

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 used

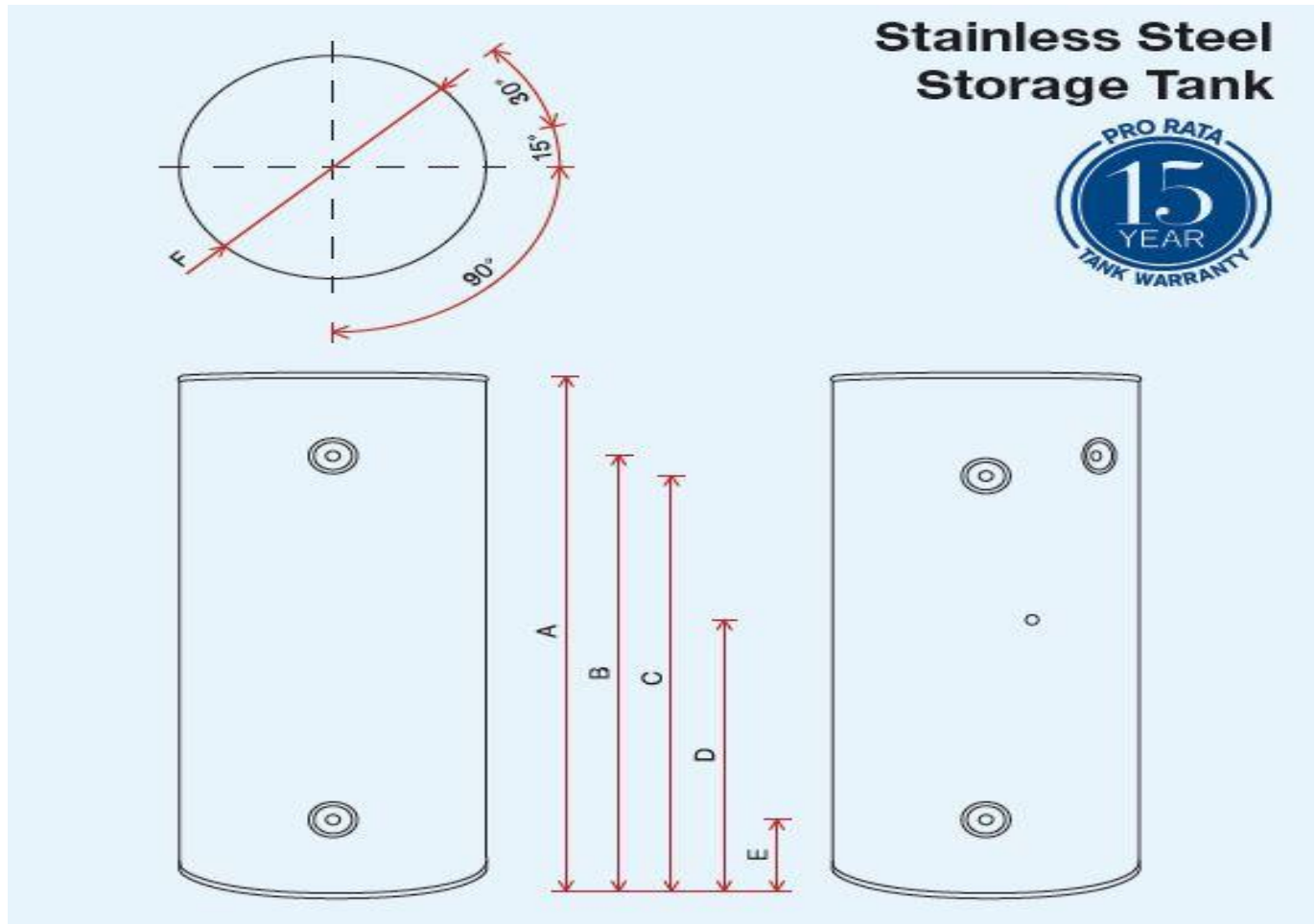
Job Name	Location
Purchaser	Engineer
Submitted to	Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction <input type="checkbox"/>
Unit Designation	Schedule #

GUS-A45HPA Dimensions



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Stainless Steel Storage Tank Dimensions



Tank Model No:	GAUS-160QTA	GAUS-315EQTD	SAN-43SSAQA	SAN-83SSAQA
A Height	47- ¹ / ₄ "	58- ⁵ / ₈ "	38- ¹ / ₈ "	68- ⁷ / ₈ "
B Hot Water Outlet & PR Valve	37- ³ / ₈ "	49- ⁵ / ₈ "	29- ¹ / ₂ "	60- ¹ / ₄ "
C Heat Pump Return	37- ³ / ₈ "	49- ⁵ / ₈ "	29- ¹ / ₂ "	60- ¹ / ₄ "
D Sensor Port	17- ¹ / ₈ "	37"	9- ³ / ₄ "	40 ³ / ₈ "
E Cold Water Inlet / Cold Water to HP	8- ¹ / ₄ "	7- ⁷ / ₈ "	8- ³ / ₄ "	8- ³ / ₄ "
F Diameter	22- ¹ / ₂ "	26- ³ / ₄ "	24- ¹ / ₂ "	24- ¹ / ₂ "
Weight (lbs)	88 lbs	154 lbs	88 lbs	115 lbs
Tank Capacity (gallons)	43 gallons	83 gallons	43 gallons	83 gallons