



SUBMITTAL : ECO-83SSAQB

83 Gallon Storage Tank



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

Specifications	ECO-83SSAQA
Performance	
Uniform Energy Factor	3.80
Uniform First Hour Rating	121 Gallons
Design	
Nominal Water Storage Volume	83 Gallons
Pressure Relief Valve (Psig & °F)	150 Psig & 210°F
Temperature Sensor	Thermistor
Tank Weight (lbs)	115lbs
Standby Loss in 67°F Ambient	110 Btu/h
Tank Location & Clearances	
Tank Installation location	Indoor Exterior if ambient is always above 34°F
Tank Clearance required	2" around Tank
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 Discharge Line	3/4"
Pipe Size - Tank to Heat Pump	
Size	1/2" & 1/2"
Max Pipe Length inc	66ft
Max Vertical Separation of	23ft
Certifications	
Safety	ETL & ETLc
Performance	Energy Star
AHRI Certification reference #	TBA
Tank Warranty	
Tank	15 Years Limited Lifetime

Construction

Storage tank shall be constructed from a blend of 316/444 Stainless Steel pressure tested to 300 psi Tank outer shell shall be steel with a baked on powder coating for protection

Insulation

A minimum of 1 7/8" R12 polystyrene insulation shall be used to insulate the tank to reduce heat loss

Connections

All connections shall be 3/4" NPT Female type Brass adaptors will be supplied with tank Cold Water Piping from Storage Tank to Heat Pump and return of Hot Water piping from Heat Pump to Tank be 1/2" Copper or PEX. Reducing nipples shall be field supplied and installed

Controls

The tank shall be supplied with a Temperature sensor installed in a sensor well to control the GS5-45HPC & GS5-45HPC-D Heat Pumps The tank shall be supplied with 2 extra Thermowells located at the same level as the Hot Water input from the GS5 unit and the Cold Water output to the GS5 Thermowells are to be used for Shed and Load signals from Utilities via CTA-2045/JA-13 Control wiring between Tank to GS5-45HPC and GS4-45HPC-D shall require a 2 wire 18AWG shielded wire between the Tank and Heat Pump

Pressure and Temperature Relief

Tank shall be supplied with ASME certified Pressure and Temperature Relief valve. Settings shall be at 150 Psig for Pressure and 210°F for Temperature

Mixing Valve

A factory supplied, but field installed Mixing or Anti Scald valve shall be supplied with the Tank Valve connections shall be 3/4" Female NPT Valve shall be field set to ensure delivered water temperature shall be below 120°F to prevent scalding

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

ECO-83SSAQB Dimensions

