



SUBMITTAL : ECO-119GLBB

119 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-119GLBB
Performance	
Uniform Energy Factor	3.72
Uniform First Hour Rating	134 Gallons
Rated capacity of Tank	75,500 Btu/h

Storage Tank	
Nominal Volume	119 Gallons
Pressure Relief Valve (Psig & °F)	150 Psig & 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
Press Relief Valve	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

Tank Warranty	
Tank	10 Years

Construction

The tank shall be manufactured from mild steel with a baked on Cobalt enriched porcelain glass lining
Tank outer shell shall be steel with a baked on powder coating for protection

Insulation

A minimum of 1 7/8" insulation shall be sprayed on to the tank to reduce heat loss

Connections

Connections to the Hot and Cold building supplies shall be 1 1/2" NPT Female type

Connections to the Hot and Cold piping to the Heat Pump shall be 3/4" NPT Female type

Cold Water Piping from Storage Tank to Heat Pump and return of Hot Water piping from Heat Pump to Tank shall be 1/2" Copper or PEX.

Reducing nipples shall be field supplied and installed
3/4" Tank Drain connection at the bottom of the Tank
2 x Magnesium anode rods shall be installed internally

Controls

The tank shall be supplied with a Temperature sensor installed in a sensor well to control the GS5-45HPC & -D
Additional GS Heat Pumps connected to a tank shall require an individual Temperature sensor

Tank Sensor wiring to the GS Heat Pump will be 18-2AWG
Two additional Thermowells are supplied with the Tank at the Top and Bottom levels of the Tank so that a Controller to provide Demand Response signals can be used

Pressure and Temperature Relief

Tank shall be supplied with a factory installed 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 maximum delivered water temperature shall be below 120°F to prevent scalding



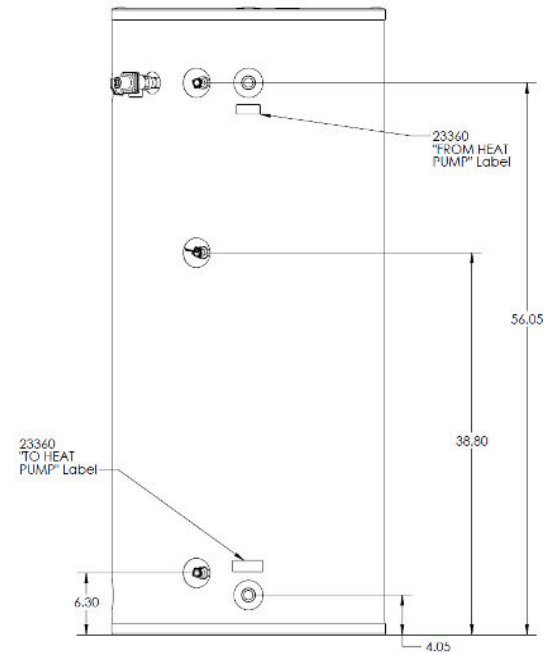
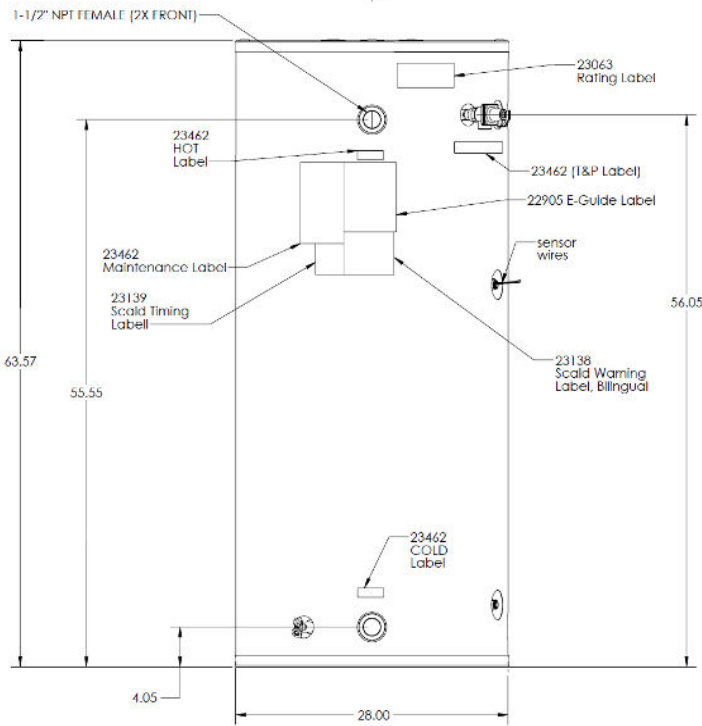
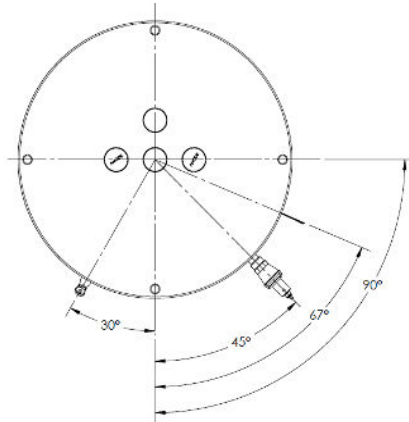
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ECO-119GLBB Dimensions



Eco2 Systems LLC

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Due to Eco2 Systems LLC's policy of on-going product development specifications are subject to change without notice

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