



SUBMITTAL : ECO-119GLASME

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	GS4-45HPC & -D
Performance	
Capacity per Heat Pump	4.5kw or 15,400 Btu/h
Recovery per HP @ 90°F Rise	20.6 Gallons per Hour
Storage Tank	ECO-119GLASME
Tank Volume Actual/Nominal	119 Gallons
Pressure Relief Valve (Psig & °F)	125 Psig
Temperature Sensor	Thermistor
Installed Tank Weight (lbs)	385lbs
Shipping Tank Weight (lbs)	435lbs
Anodes	2 x 1" Magnesium
Tank Connection Sizes	
Cold Water Inlet	2" Female NPT
Hot Water Outlet	2" Male NPT
Cold Water to Heat Pump	3/4" Female NPT
Hot Water Return from HP	3/4" Female NPT
Cleanout Hand Hole	2" Male Plug
Pipe Size - Tank to Heat Pump	
Cold Water pipe - Tank to HP	As designed
Hot Water pipe - HP to Tank	As designed
Max Pipe Length inc	66ft
Max Vertical Separation of	23ft
Approvals	
Tank	ASME
Warranty	
Tank	5 Years

Construction

The tank shall be manufactured from mild steel with a baked on Cobalt enriched porcelain glass lining
 Tank outer jacket 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
 Insulation shall not contribute to global warming

Connections

Connections to the Hot and Cold building supplies shall be 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

Controls

The tank shall be supplied with a 6" depth Thermowell to allow up to 4 x Tank Water Temperature Sensors to be installed in the Thermowell to control the GS4-45HPC/-D All GS4-45HPC & -D Heat Pump units connected to the tank shall require an individual Temperature sensor
 All required Tank Water sensors shall be field installed
 Control wiring between Tank and Heat Pump model GS4-45HPC & -D shall require a 2 wire 18AWG shielded wire between the Tank and GS4-45HPC/-D Heat Pump(s)

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 field supplied and field installed Mixing or Anti Scald valve is required to be used with the ECO-119LASME Tank
 Mixing Valve size and Flow Rate is to be determined using maximum Flow



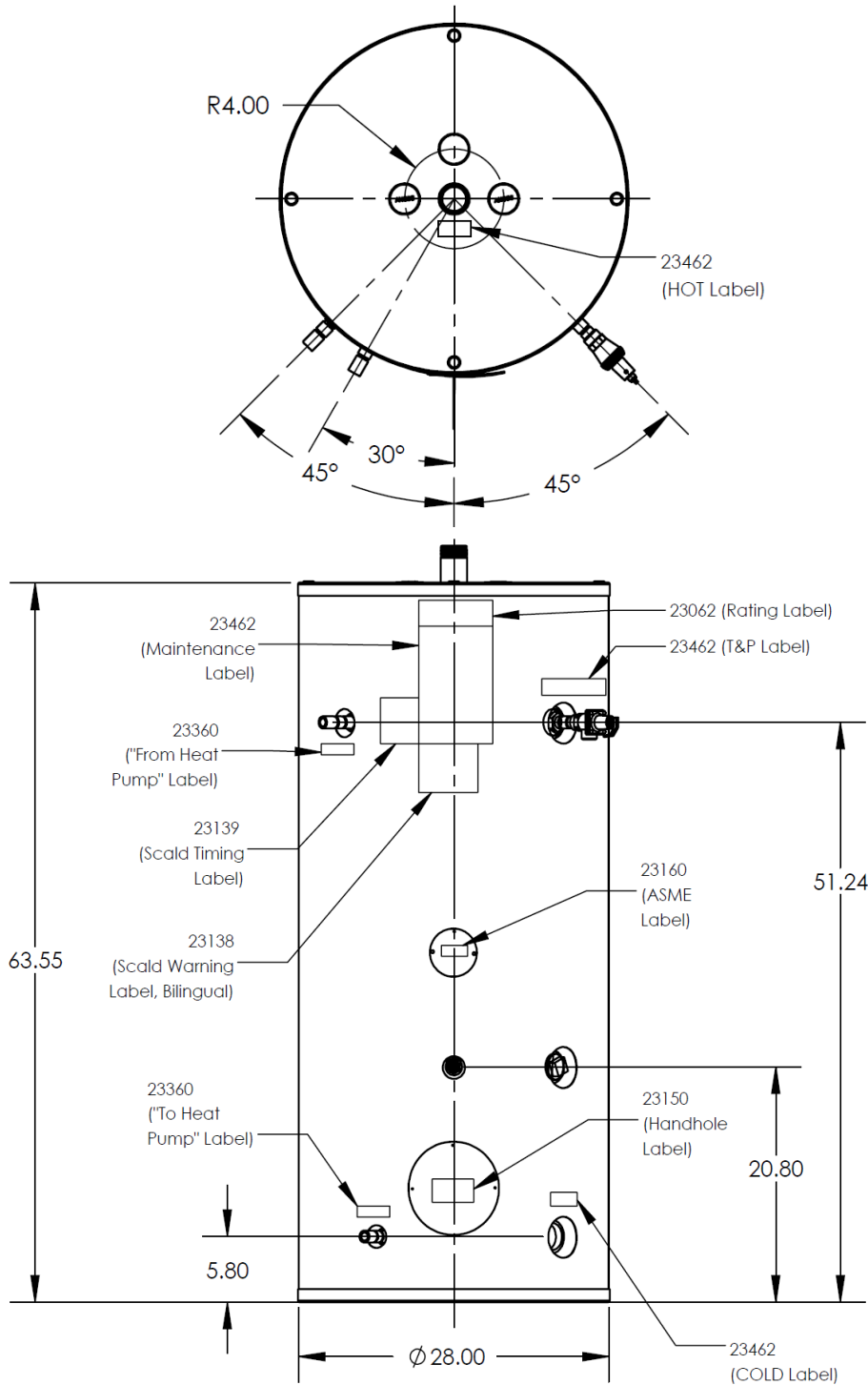
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ECO-119GLASME Dimensions



Eco2 Systems LLC

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