

SUBMITTAL : ECO-200GLBK 200 Gallon Storage Tank



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Job Name	Location	
Purchaser	Engineer	
Submitted to	Reference Approval	Construction
Unit Designation	Schedule #	

Specifications	GS5-45HPC & -D	
Performance		
Capacity per Heat Pump	4.5kw or 15,400 Btu/h	
Recovery per HP @ 90°F Rise	20.5 Gallons per Hour	
Storage Tank	ECO-200GLBK	
Tank Volume Actual/Nominal	200 Gallons	
Pressure Relief Valve (Psig & °F	150 Psig	
Temperature Sensor	Thermistor	
Installed Tank Weight (lbs)	845lbs	
Shipping Tank Weight (lbs)	875lbs	
Anodes	2 x Magnesium	
Tank Insulation	R14	
Installation Location	Indoor Only	
Tank Connection Sizes		
Cold Water Inlet	2 1/2" Female NPT	
Hot Water Outlet	2 1/2" Male NPT	
Cold Water to Heat Pump	3/4" Female NPT	
Hot Water Return from HP	3/4" Female NPT	
Tank Drain	3/4" Male NPT	
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 shell shall be steel with a baked on powder coating for protection

The ECO-200GLBK Tank is only certified for Indoor installation, it cannot be located external to the building

Insulation

2" of High R value foam insulation will be sprayed on to the bare shell of 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 1/2" NPT male type for the Hot Water Outlet and 2 1/2" Female NPT for the Cold Water Inlet. Cold Water supply to Heat Pump and Hot Water return from Heat Pump connections shall be 3/4" NPT Female type. Piping to Heat Pump and return from Heat Pump shall be 1/2" with 2 Heat Pumps connected to the tank For systems with more Heat Pump units connected to the tank follow piping diagram supplied by ECO2 Systems

3/4" Tank Drain connection at the bottom of the Tank

Controls

The tank shall be supplied with two 91101-45190 Temperature sensors installed in midpoint sensor well to control two individual Heat Pumps If more than two Heat Pumps shall be connected to the tank each additional Heat Pump shall requires it's own 91101-45190 Temperature Sensor or the ECO-CMB-BAC Controller shall be used to control the SANCO2 system which shall have a separate Tank Temperature sensor and other sensors to install

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 Presssure and 210°F for Temperature

PO Box 1358, Walled Lake MI 48390, Tel : 1-844 SAND CO2 (1-844 726 3262)

www.eco2waterheater.com



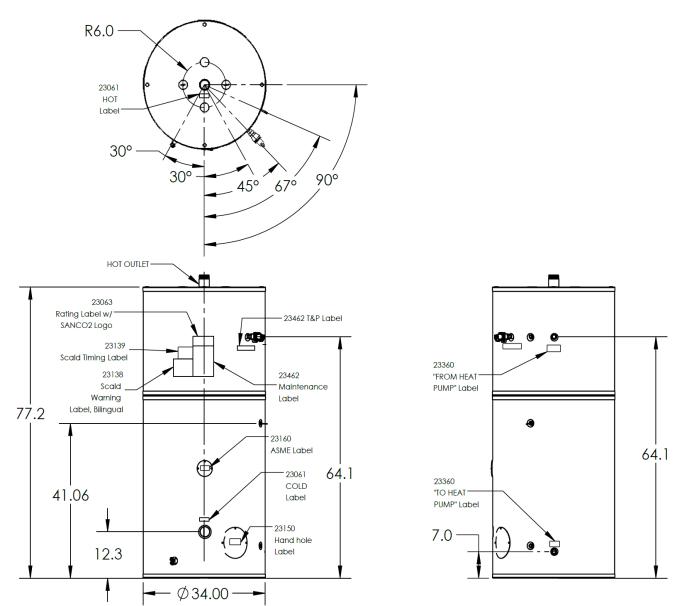
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ECO-200GLBK Tank Dimensions



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