

# SUBMITTAL : ECO-119SW13 119 Gallon & 13.5kw Swing Tank



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	20.6 Gallons per Hour	
Swing Tank	ECO-119SW13	
Tank Volume Actual/Nominal	119 Gallons	
Pressure Relief Valve (Psig & °F	150 Psig	
Temperature Sensor	Immersion Thermostat	
Installed Tank Weight (lbs)	550lbs	
Shipping Tank Weight (lbs)	742lbs	
Anodes	3 x Magnesium	
Tank Connection Sizes		
Recirc/HP Manifold Inlet	1 1/2" NPT	
Hot Water Outlet	1 1/2" NPT	
Electric Elements		
Number of Elements	1	
Element Output	13.5kw	
Number of Element Contactors	2	
Amperage Draw / Breaker size		
Power Supply : 208V-1Ph	64.9A / 90A	
Power Supply : 240V-1Ph	56.2A / 80A	
Power Supply : 208V-3Ph	37.5A / 50A	
Power Supply : 240V-3Ph	32.5A / 45A	
Approvals		
Tank	UL & Ulc	
Warranty		
Tank	5 Years	

## Construction

The tank shall be manufactured from thick 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

3" thickness, high-density closed cell foam insulation will meet the ASHRAE 90.1b current standard for minimizing heat loss. This requirement, allowing a maximum 4 watts per square foot of tank surface energy loss

#### Water Connections

Connections to the Recirculation loop and Hot Water from the GS5 Heat Pump Manifold shall be 1 1/2"

#### **Electric Element**

Low Watt Density Incoloy Element shall be used to ensure that the element resists the effects of high operating temperatures, hard water acids, corrosion and thermal shock in addition to water voids

#### Controls

Digital Control system shall be used to control the operation of the Swing Tank with an Immersion Thermostat and a control setting ability shall be used to adjust the Tank Hot Water temperature setting. The temperature setting shall be factory present to 120°F or 49°C

Cartridge type fuses shall be rated at 200,000 Ampere interrupting capacity

Terminal Block Connections shall be provided to ensure field wiring

### Pressure and Temperature Relief

Tank shall be supplied with a field installed, ASME approved Pressure relief valve Valve Setting shall be at 150 Psig

Relief Valve shall be piped to a suitable location in case of discharge

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

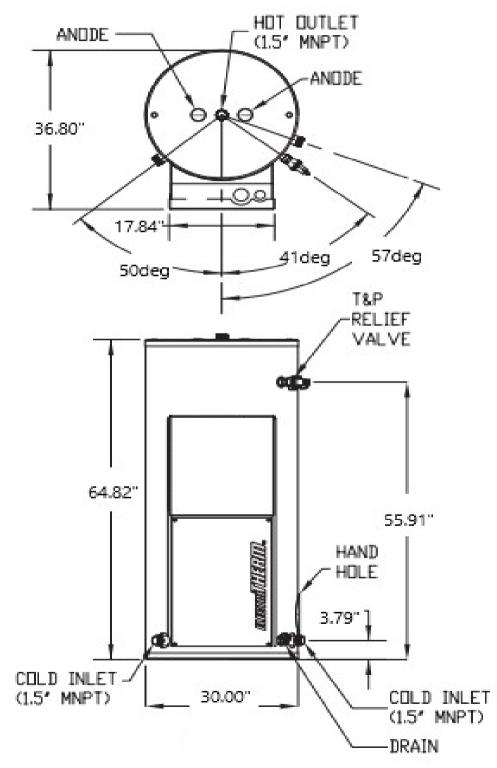
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# Swing Tank Dimensions



Eco2 Systems LLC

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