

## SUBMITTAL : ECO-200SW30 200 Gallon & 30kw 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-200SW30	
Tank Volume Actual/Nominal	200 Gallons	
Pressure Relief Valve (Psig & °F	150 Psig	
Temperature Sensor	Immersion Thermosta	
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	2	
Element Output	30kw	
Number of Element Contactors	2	
Amperage Draw -Various Powe	r Supplies	
208V-1Ph	144.0A	
240V-1Ph	125.0A	
208V-3Ph	83.0A	
240V-3Ph	72.0A	
Approvals		
Tank	ASME	
- Tarin	ETL & ETLc	
Morronty		
Warranty Tank	5 Years	
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#### Construction

The tank shall be manufactured from carbon steel with an Ultonium glass lining is applied to the inside surface of the steel tank and fired to 1600°F. The Tank shall be constructed in accordance with the ASME code

#### Insulation

High-density closed cell foam insulation shall be used to 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 Elements**

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

#### **Controls**

Magnetic Contactors with Immersion Thermostats. 120 volt control circuit with built in transformer. Elements are thermostatically controlled in 54kw (Max) increments Internal fusing shall have the electric element and circuit fused in 48A increments to ensure electrical protection Cartridge type fuses shall be rated at 200,000 Ampere interrupting capacity

Terminal Block Connections shall be provided to ensure field wiring

Building Management Interface contacts shall be provided to ensure remote control of the Swing Tank

#### **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

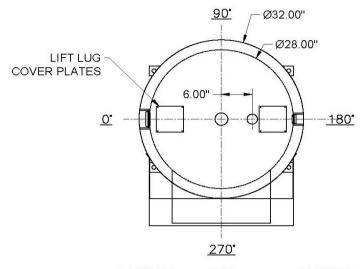


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### **Swing Tank Dimensions**



#### CUSTOMER:

CONSTRUCTION:

MATERIAL: CARBON STEEL INTERIOR LINING: ULTONIUM

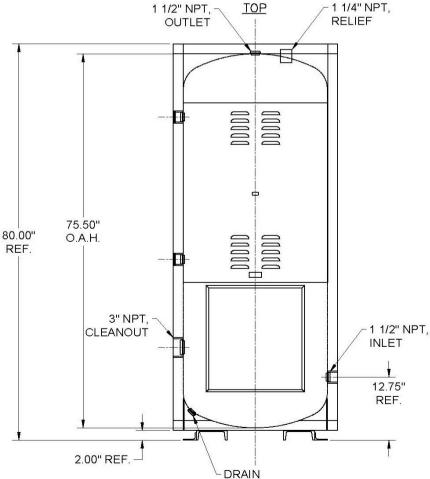
EXTERIOR: INSULATED W/ STEEL JACKET

SACRIFICIAL ANODES: MAGNESIUM

M.A.W.P.: 150 PSI

MAX. OPERATING TEMP.: 180°F

OPTIONAL ADDERS: A - BMS CONTACTS



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