



SUBMITTAL : ECO-119SW13
119 Gallon & 13.5kw Swing 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-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 -Various Power Supplies	
208V-1Ph	64.9A
240V-1Ph	37.5A
208V-3Ph	56.2A
240V-3Ph	32.5A
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 GS4 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

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Storage Tank Dimensions

