



SUBMITTAL : ECO-80SW13 80 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	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-80SW13
Tank Volume Actual/Nominal	80 Gallons
Pressure Relief Valve (Psig & °F)	150 Psig
Temperature Sensor	Immersion Thermostat
Installed Tank Weight (lbs)	350lbs
Shipping Tank Weight (lbs)	395lbs
Anodes	2 x Magnesium
Installation Location	Indoor Only
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

The ECO-80SW13 Tank is only certified for Indoor installation, it cannot be located external to the building

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 Water Tank 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

Electric Panel shall not be exposed to Outdoor installation as the Electric Panel is not a water proof construction

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

