SUBMITTAL : ECO-200GLBK
200 Gallon Storage 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	20.5 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)	872lbs
Shipping Tank Weight (lbs)	1,072lbs
Anodes	2 x Magnesium
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
Recirculation Return	1" Female 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

Insulation
A minimum of 1 7/8" insulation shall be sprayed on to 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

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ECO-200GLBK Tank Dimensions