



Technical Bulletin

Control: ECO-0600

Application: Wide Priority

Version: 2.02 ≥

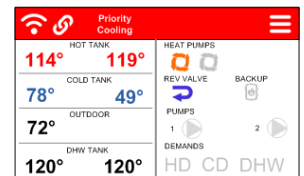
With the latest addition in firmware the ECO-0600 has an additional setting labeled Wide Priority Differential which will change how switch over works between heating and cooling.

Wide Priority Differential is located under the Tank Setup and when toggled to **ON** will affect the system by allowing a heat or cool call to continue up to the target plus its differential before changing to the other demand. This setting is to be used when the loads on the tank are switching from heating and cooling too fast thus never really satisfying either.

The following example and settings will detail the operation for the system based on Wide Priority Differential being **ON** vs **OFF**.

- Hot Tank target set to 120F with a hot differential of 8.
- Cold Tank target set to 45F with a cold differential of 6.
- If there is a demand for heat (**HD**) and a demand for cold (**CD**) then if the tank is heating to 120F when Wide Priority is set to **ON** the tank will continue to rise due to the hot differential of 8 to 124F before switching over to satisfy the cool demand and chill the tank to the target of 45F. In cooling Mode the same will apply where the tank will chill to 42F based on the cold differential of 6 before changing over to satisfy the heat demand.
- If there is a demand for heat (**HD**) and a demand for cold (**CD**) then if the tank is heating to 120F when Wide Priority is set to **OFF** then the tank will rise to 120F and immediately switch over to satisfy the cold target of 45F. The same will apply in cooling once 45F is achieved it will switch to raise the temperature for the heating to 120F.

Wide Priority Differential should only be used in two tank systems and not in single tank operation. In single tank operation it should be set to **OFF** to allow for proper switching over. Wide Priority Differential also only applies in the above example if there is both a heating and cooling demand at the same time and if those two demands are not locking one or more out based on WWSD and CWSD. If there is only one demand then the ECO-0600 will stay in the mode it was last in



Setup Menu	
Stage Sequence Setup	>
Control Status	>
Heat Pump Setup	>
Tank Setup	>

Tank Setup	
WWSD-CWSD Time	0 hrs
Use Web Outdoor temp	OFF
Heat/Cool Switch delay	100 secs
Wide priority Diff	OFF

Hot Tank Setup	
WWSD	88°
Outdoor Reset	OFF
Differential	4°
Tank Temp	140°

Cold Tank Setup	
CWSD	88°
Outdoor Reset	OFF
Differential	4°
Tank Temp	40°

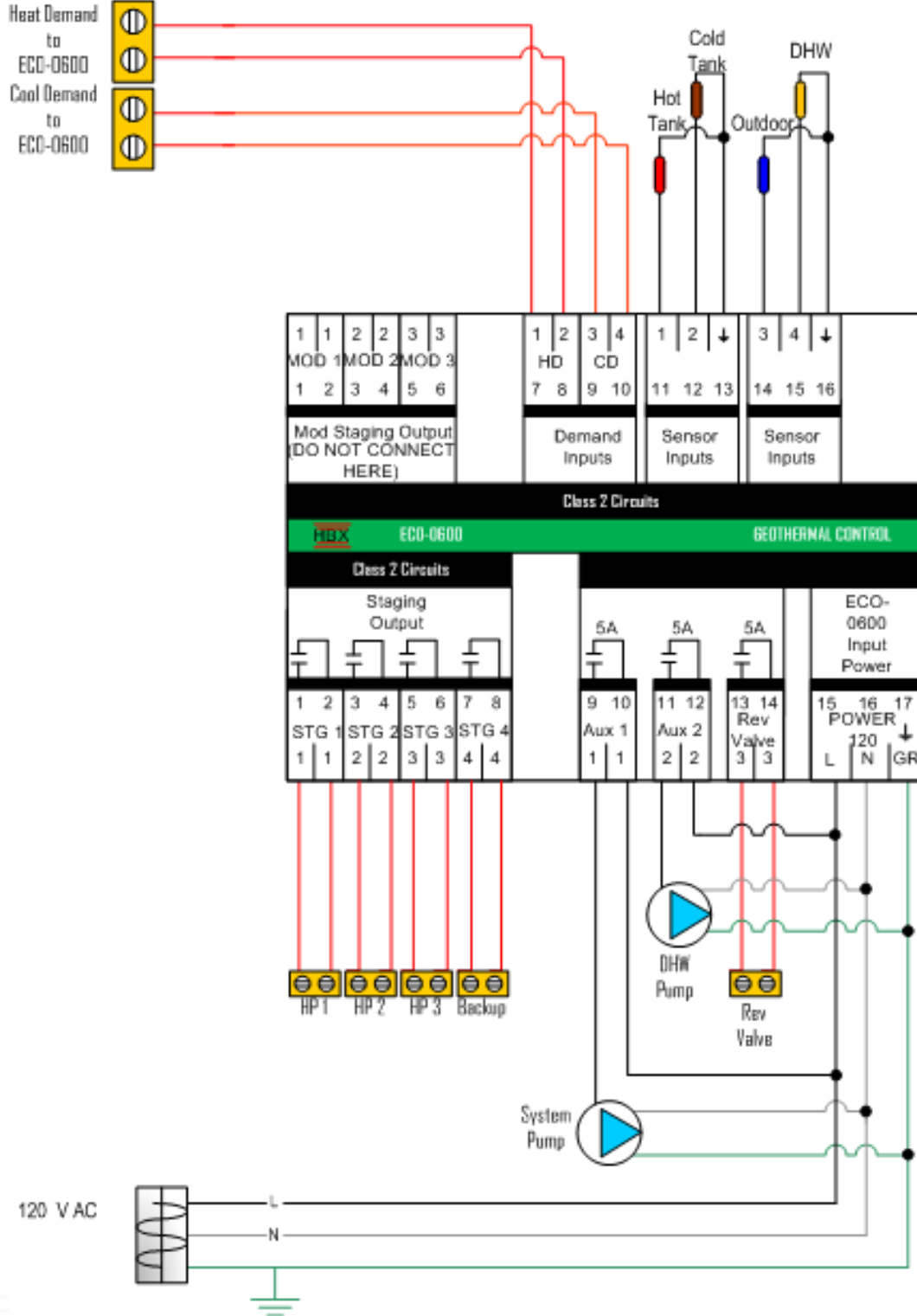
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