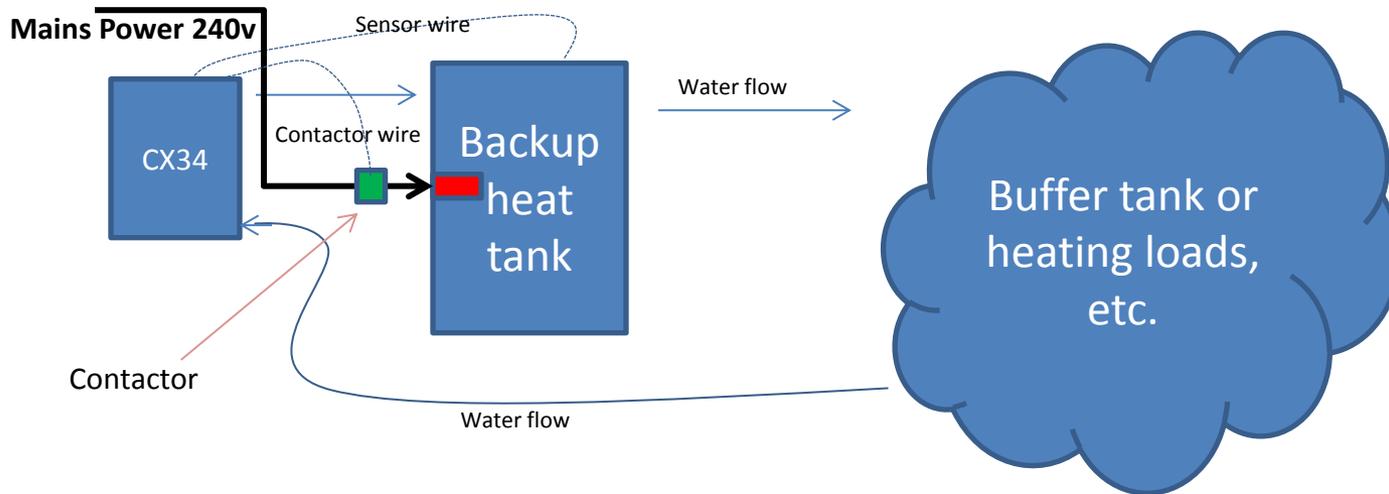


## How to control CX34 backup heat (Old Way)

### ONLY USED FOR CX34 MANUFACTURED PRIOR TO OCTOBER 2018

The idea is to install a thermostat/element in an inline tank and set the thermostat to the leaving water temperature target of the CX34. This way, if the CX34 cannot keep up due to excessive load or low ambient conditions, the loop temperature can be maintained at approximately the correct temperature.

In order to make sure the element only fires when truly needed, the CX34 can operate a contactor on the power supply to the thermostat/element and only allow power to flow under proper conditions. the CX34 control output for this is 220v. So, you will either use a 240:240 contactor (and proper conduit) or you can attach a 220:24 transformer inside the CX34 and then use a 24:240 contactor. Operation is the same either way. When the CX34 is in heating mode, and it cannot keep up, it will close the contactor to allow the backup heat thermostat/element to be able to operate. Set element/tstat temp target to same temp as CX34 LWT target (EWT + 10F or EWT + 5C, as applicable)



### Connecting Contactor To CX34 and Parameter setting:

Tstat/element

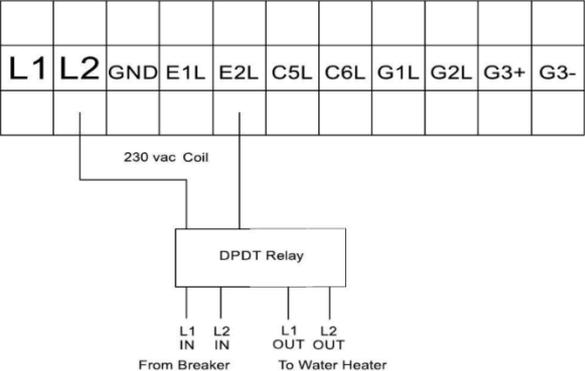
The CX34 controls output for this is at terminals L2 and E2L

Set CX34 controller as follows: P56 set to 0

If the CX34 compressor cannot keep up after 15 minutes, the contactor will close and enable the backup element/tstat.

See Wiring Diagram Next Page

NOTE: Output to DPDT Contactor is 240v AC.



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Alternate Method (uses 24vac contactor & avoids conduit)

