

BULLETIN NO. 22428

DATE: 4/28/2022

PRODUCT: Pennco 15B-K series boilers

FROM: Technical Service Department

TITLE: Wiring a Zone 2 circulator with HydroLevel 4200 control-

MODELS AFFECTED

All models

SITUATION:

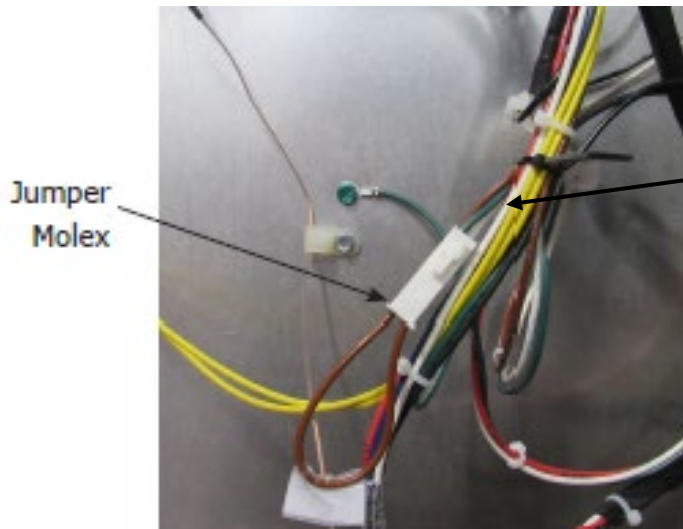
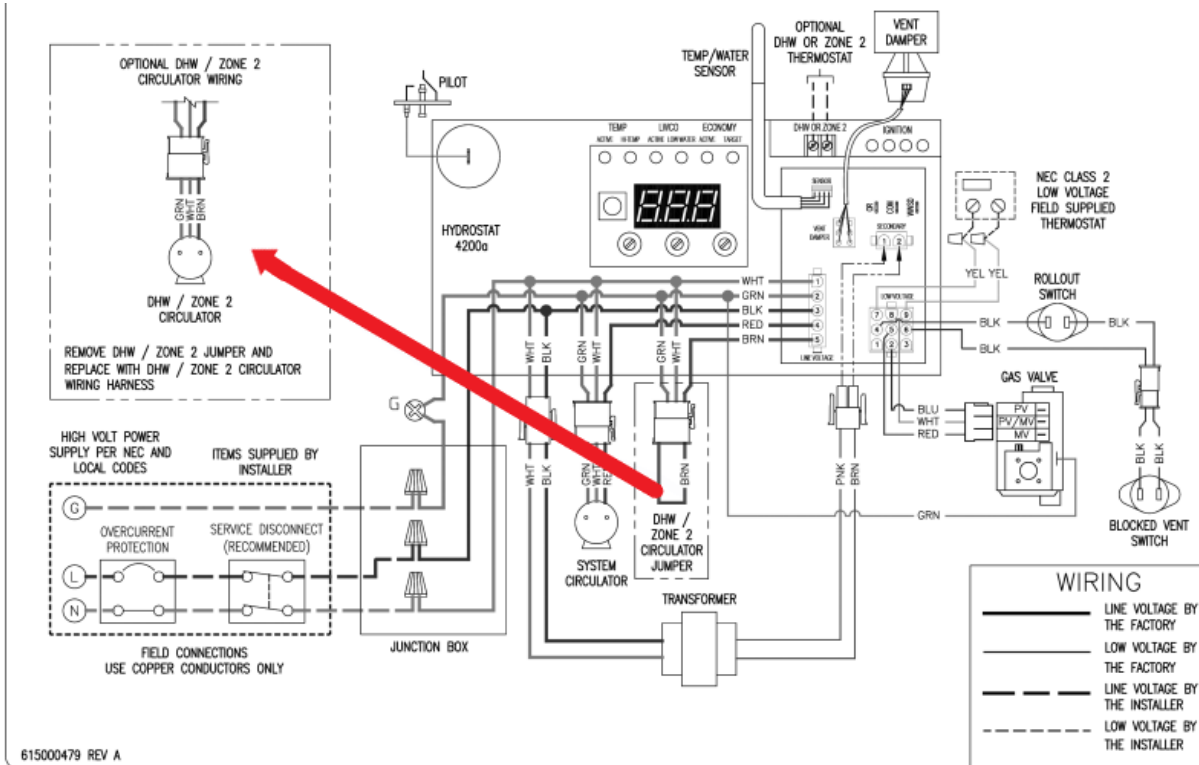
Connecting a Zone 2 circulator requires an optional harness kit. Alternatively the circulator can be hard wired in the field.

SOLUTION:

There are 2 options when choosing Zone 2 for an indirect or heating zone using the IC control to power the Zone 2 pump:

- A. A Zone 2 wiring harness accessory is available to be ordered separately (DHW/ zone 2 circulator harness: Part # 550004166.) This plugs into the Molex connector for the Zone 2 pump and provides power leads for the pump along with a junction box.
- B. Cut off the Molex connector and wire the zone 2 circulator pump leads directly using wire nuts or other approved electrical connectors.

Please see wiring diagram and control instructions below



Cut the Molex plug and wire Zone 2 circulator to the remaining wires

2-Zone Circulator Settings:

The HydroStat-IC is equipped with a second zone designed for a 120-volt circulator that can be set to operate in one of three ways:

- Domestic Hot Water (DHW) for use with an indirect water heater
- A Second Heating Zone
- Primary/Secondary Circulator Operation (Important: For use with primary/secondary piping systems only)

See page 7 for details on the operation of each setting as well as the input and output connections for the second circulator. All controls (except those that are factory equipped on boilers offering primary secondary circulator operation) are factory set in the Domestic Hot Water (DHW) mode. If, the second zone is going to be used for an additional heating zone, or the boiler is installed with a primary/secondary piping system, the setting should be changed using the following instruction:

To change the second zone between DHW (priority), Heating (no-priority), and Primary/Secondary Operation

1. Turn the LO TEMP dial to access the Program Mode – indicated in the display as **PRO**
2. Turn the HI TEMP dial to select feature **4**
3. Push the Test/Settings Button to **D** for DHW, **H** for a second Heating zone, or **P** for Primary/Secondary operation.
4. Reset LO TEMP and HI TEMP settings to desired temperatures