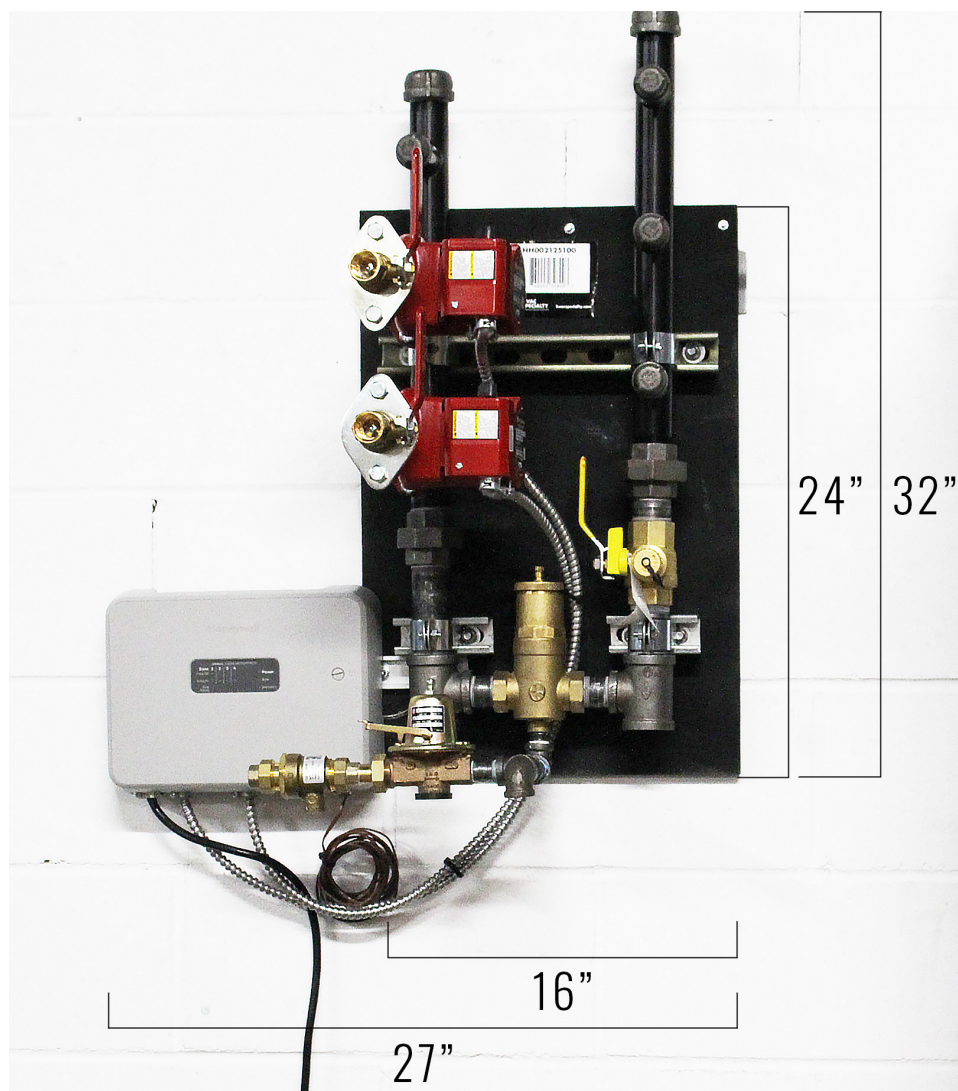


HYDRO HEADER 300 Installation Manual



CONTENT

Hazard Conditions

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What's Included

Installation Steps

Note:

This product is designed to be used with boilers with inputs up to 200,000 Btu/Hr. The design relies on the boiler's integral pump as the primary pump for the header system.

If there is no integral pump provided with your boiler, please refer to your boiler manufacturer's manual for the recommended pump and install as per the manufacturer's I & O manual. Then Pipe the Hydro Header 300 to that pump.

Hazard Conditions



DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.



WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE

NOTICE indicates special instructions on installation, operation, or maintenance that are important but not related to personal injury or property damage.

IMPORTANT NOTE

The contents of this manual are intended as guidelines for licensed professional installers. The manual is not a "do-it-yourself" guide for the non-professional.

This manual is not intended to take the place of the boiler manufacturer's installation manual which should be carefully followed.

■ What's Included:

- (2) Bell & Gossett NRF - 25 Pumps (mounted to header & pre-wired)
- (1) Bell & Gossett EASB - 1 JR Air Separator
- (1) Bell & Gossett FB - 38TU 1/2" Pressure Reducing Valve
- (2) Bell & Gossett 3/4" Isolation Flange NPT Pair
- (1) Zilmet 1/2" Back Flow Preventer
- (1) Honeywell 4 Zone Control
- (1) Power Cable (pre-wired)
- (1) Boiler Control Cable (pre-wired)

Installation Steps

01

Mount Hydro Header wall bracket.

If installing on a framed wall be sure to secure mount to a stud or use wall anchors to support 69 lbs.

02

Hang Hydro Header on wall bracket.

03

Unfasten the supplied DIN rail and secure to either the righthand or lefthand side pending your desired location.

04

Carefully cut the zip ties holding the Honeywell control relay and mount to the DIN rail.

05

Loosen the two unions and pipe clamps on the Hydro Header, position the supply and return headers to the desired location, then mechanically tighten.

06

Attatch PRV valve assembly to the Hydro Header.

07

Connect Header System to Zone Piping

You are now ready to connect your supply and return piping to the Hydro Header. Connect the zone piping to the pumps at the isolation valves. Please note that the pumps are supplied with an integral check valve.

Connect the zone return piping to the return connections. Fill the system to the appropriate pressure. (75 PSI MAX)

Purge each zone using the supplied isolation / drain valve located at the bottom of the verticle return header.

08

Wire the boiler manufacturer's supplied and recommended controls according to the installation manual supplied with the boiler and controls.

The Hydro Header 300 comes with pumps that are pre-wired to a zone relay. Plug in the zone relay with the supplied 115V AC cable to a dedicated outlet, following the local electrical codes for boilers.

Connect the pre-wired 18-2 low voltage wire to the boiler's T-T or room thermostat terminals.

Connect the thermostat wires to the low voltage connection of the pump relay.

Test all electrical connections to insure proper wiring.

09

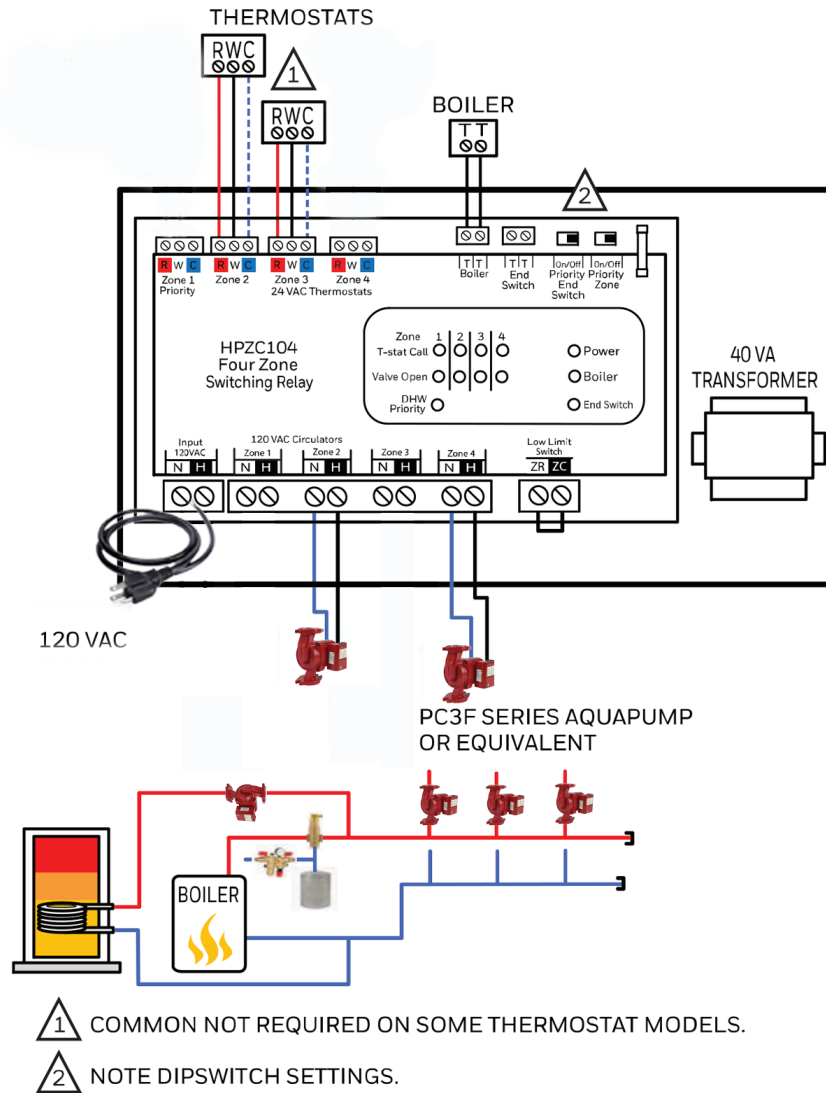
Startup

Follow your boiler manufacturer's installation manual for specific start-up procedures.

Follow the instructions for the Bell & Gossett pressure reducing valve and close the shut-off valve down-stream of the reducing valve after the system is filled to the required pressure.

10

Wiring Diagram



Your Hydro Header is now fully operational!