

Technical service bulletin

Low Water Cut Off & Manual Reset High Limit

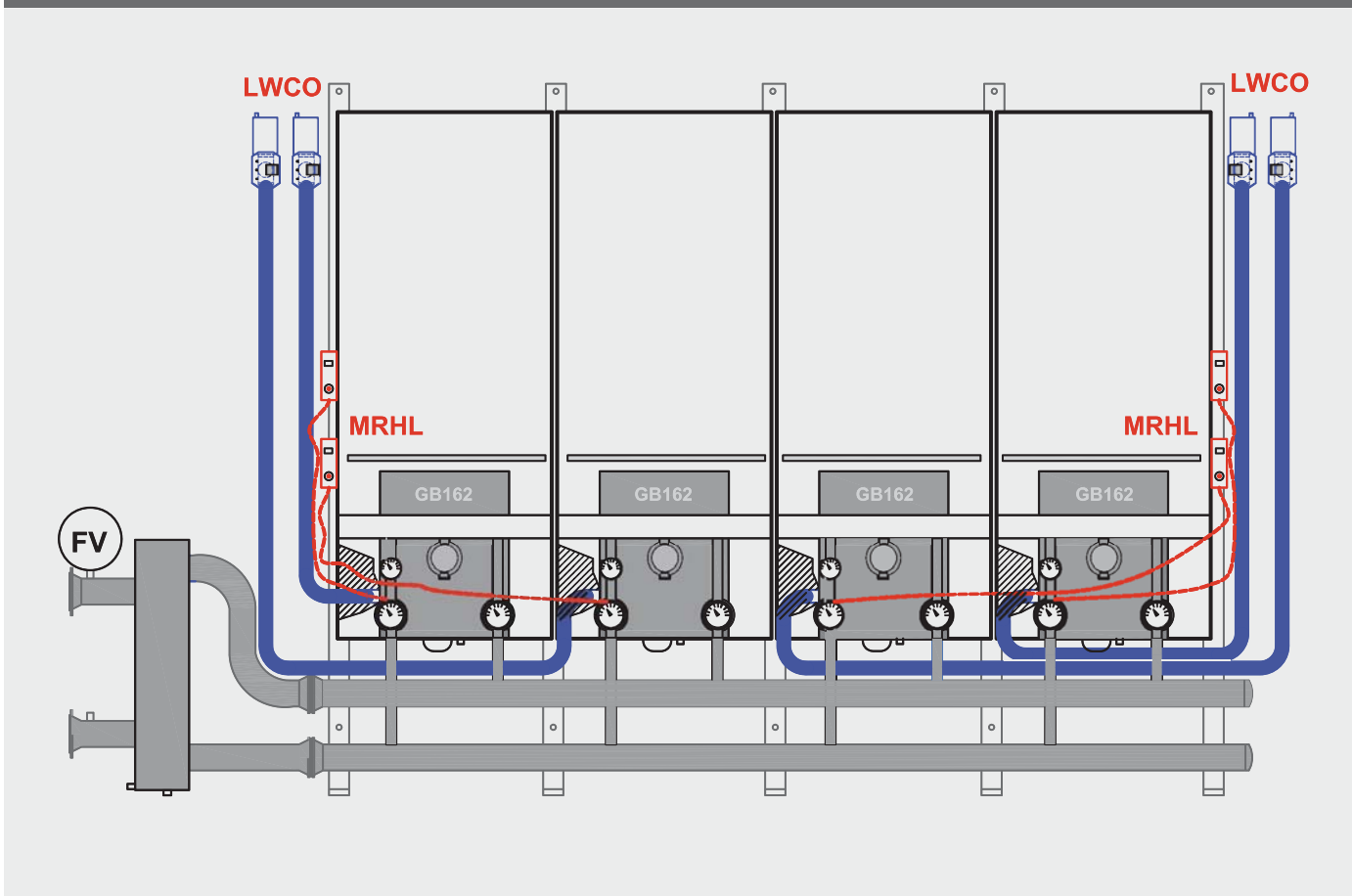
Introduction

Each GB162 boiler is equipped with several internal safety sensors and a controller that prevents boiler operation when it is unsafe to do so.

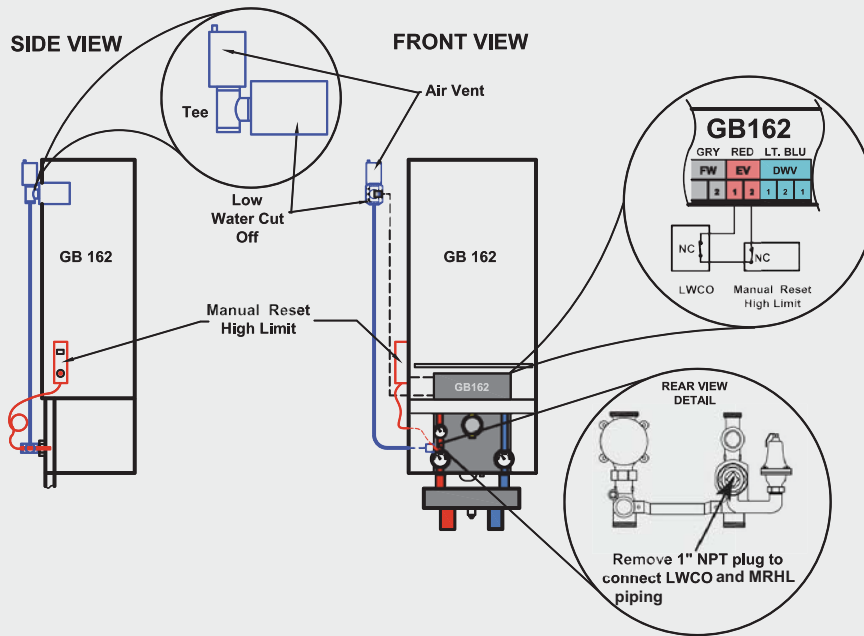
Local jurisdictions may require the installation of additional safety devices external to the boiler that meet certain requirements.

This bulletin describes the recommended location, installation and wiring for the low water cut off (LWCO) and manual reset high limit (MRHL).

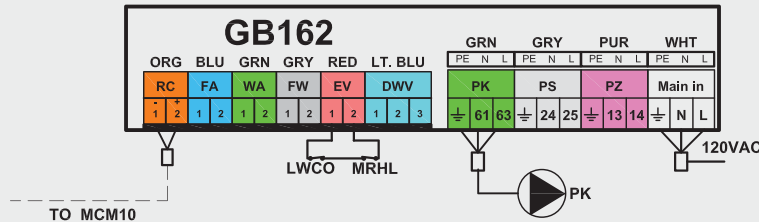
GB162 Cascade piping diagram



GB162 Low water cut off & manual reset high limit detail



GB162 Casade wiring diagram



Installation

Required components:

- 1"x3/4" Reducer
- 3/4" Tee (two)
- MRHL and 3/4" well
- 3/4" elbow
- Straight piping
- Air vent

Remove the 1" plug from the back of the manifold. Install the reducer and tee. Thread the well from the back into the tee and slide in the MRHL probe. Route piping to the end of the cascade and up the side of the last boiler. At the height of the top of the heat exchanger install the tee, the air vent at the top, and the LWCO on the side.

Wiring

LWCO and MRHL are wired in series with the EV terminal of the respective boiler. Upon activation the MRHL or LWCO will open their normally closed (NC) contacts and interrupt the EV terminal which will immediately shut off the burner. Power to the boiler remains and the pump may continue to run.

Testing the MRHL:

Turn the MRHL threshold below the setting on the boiler dial and run the boiler. The burner will shut off as soon as the threshold is reached.

Testing the LWCO:

Follow the device's instructions on how to test its performance without draining fluid from the system.

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