

Installation Instructions

Input Conversion Kit 100MBH to 75MBH Natural Gas (3 Section)

WARNING

This conversion kit is to be installed by a qualified installer in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. Failure to follow instructions can cause severe personal injury, death, or substantial property damage. The qualified agency performing this work assumes responsibility for this conversion.

Included with kit:

- Orifices
- Conversion label
- Gaskets
- Conversion Kit Installation Instructions

DANGER

Explosion Hazard. Electrical Shock Hazard.

Burn Hazard. This boiler uses flammable gas, high voltage electricity, moving parts, and very hot water under high pressure. Assume that all gas and electric power supplies are turned off and that water temperature is cool before attempting any disassembly or service.

WARNING

Orifices for this boiler cannot be drilled by installers. Improperly drilled orifices could result in serious injury or property damage.

- A. Turn off gas supply and electrical power.
1. Follow instructions TO TURN OFF GAS TO APPLIANCE. Refer to Operating Instructions inside front removable door or *Installation, Operating, and Service Instructions (IO&S)* provided with boiler or available on manufacturers website.

CAUTION

Gas Supply shall be shut off prior to disconnecting the electrical power, before proceeding with conversion.

2. Turn off electrical power at service switch or at circuit breaker, or fuse.

3. Turn off gas supply by closing manual shut off valve at boiler or shutoff valve at gas meter.
- B. Replace burner orifices
1. Remove front door.
 2. Remove all gas orifices from burner manifold. (12mm socket head)
 3. Install into manifold with gasket.
- NOTICE:** Ensure orifice holes are not obstructed. Do not use Teflon tape or pipe dope.
4. Screw in each orifice hand tight and then tighten with ratchet (12mm socket) until snug (up to additional two full clockwise turns maximum). Do not overtighten.

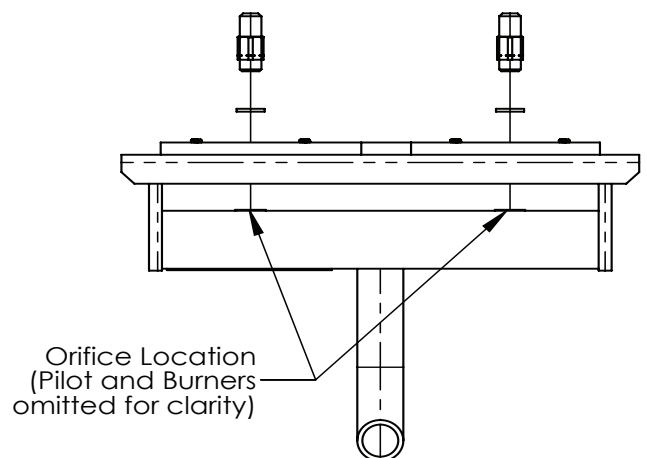


Figure 1: Orifice Location

- C. Place boiler in operation after conversion. Refer to System Start-up and Checkout section in *Installation, Operating and Service Instruction* provided with boiler or available on manufacturer website.
- D. Perform gas leak test between manifold and orifices.
 - 1. Locate and address leaks using listed combustible gas detector, a noncorrosive leak detection fluid or other listed leak detection method.
 - 2. Tighten orifices as required.
- E. Check gas input rate to boiler.
 - 1. When checking rate, ensure all other appliances connected to same meter as boiler are off.
- F. Measure carbon monoxide (CO) level in vent after 5 minutes of main burner operation. CO should not exceed 400 ppm air free.
- G. Attach conversion label supplied with kit beside existing rating label.

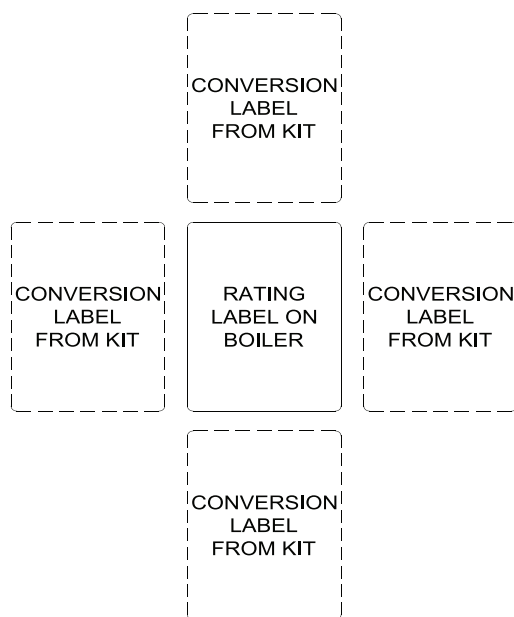


Figure 2: Rating Label Installation

⚠ WARNING

Boiler and its gas connections must be leak tested and leak free before placing boiler in operation. Gas leaks could result in severe personal injury, death or substantial property damage.

⚠ DANGER

Explosion Hazard.

Do not use matches candles, open flames, or other ignition sources to check for leaks. Failure to comply could result in severe personal injury, death or substantial property damage.