

FR Series Installation Instructions

We recommend that our products be installed and serviced by professionals who are certified in the U.S. by NFI (National Fireplace Institute) or in Canada by WETT (Wood Energy Technical Training). Installer must follow all instructions carefully to ensure proper performance and safety.

Installer: Please leave these instructions with consumer.

Consumer: Please retain these instructions for future use.

INSTRUCTIONS for ROUND, RECTANGULAR, and SQUARE BURNERS



**NATIONAL
FIREPLACE
INSTITUTE**
A Certification Agency

Attention!!! Please read all instructions carefully before beginning installation. Failure to follow instruction may result in a possible fire hazard and will void all warranties.

WARNING: If the information in this manual isn't followed, an explosion or fire could result causing property damage, personal injury, or loss of life.

What to do if you smell gas:

- Do not use any electrical switch; do not use any phone in your building or cellular phone in area.
- Do not try to light the appliance.
- Immediately call your gas supplier from a neighbors phone and follow gas suppliers instructions.
- If you can't reach the gas supplier, call the fire department.

Do not store or use any gasoline or other flammable vapors or liquids in the vicinity of this fire pit.

WARNING: Burners must be used OUTDOORS ONLY or in a well ventilated space.

The installation must conform with local codes or, in the absence of local codes, in the National Fuel Gas Code ANSI Z223.1 or CAN/CGA-8149.1, National Gas installation Code Or CAN/CGA-B149.2, Propane installation code.

IMPORTANT: Installation of this unit should be done by a qualified installer, service agency or gas supplier.

The appliance and its manual valve must be disconnected from the gas supply piping system during any pressure testing.

The Burner must be isolated from the gas supply piping system by closing the manual control valve during pressure testing that equal to or less than ½ PSIG.

Note: All new LP cylinders may contain water, air or other contaminants. It is crucial that these substances be released before filling the cylinder and placing into service. Water vapor present in the gas vapor may cause the regulator to freeze up and cause an interruption to the gas flow. This interruption will cause the appliance to shut down. To prevent this from occurring, it is essential that a qualified technician always purge a new tank thoroughly before placing it into service. It is recommended that cylinders that have not been used for extend Periods of time also be purged before use.

- Never leave the appliance unattended during operation.
- Clothing and flammable materials should not be placed on or near the Fire Pit.
- Children should be supervised when they are in the vicinity of the Fire Pit.
- Installation or repair should be done by a qualified service technician. The Fire Pit should be inspected before use and annually by a qualified service technician.
- Inspect the fuel supply connection (including all quick disconnect hoses) before the use of this Burner.
- If there is any evidence of excessive abrasion or wear, the hose must be replaced prior to operation.
- The pressure regulator and hose assembly supplied with the LP Conversion (FPLP) must be used.
- The LP gas supply cylinder used with LP models must be constructed and marked in accordance with the specifications for LP gas cylinders of the US Department of Transportation.
- The LP gas cylinder supply system must be arranged for vapor withdrawal.
- When not using the LP cylinder the LP gas must be turned off at the supply.

MAXIMUM BTU INPUT

The maximum Btu input of any of our rings is determined by the hub size- all rings except the 48" have a ½" hub; the 48" fire ring has the ¾" hub. Here are the maximum Btu ratings for each:

| | <u>Natural Gas (1/4 PSI or 4" W/C)</u> | <u>LP Gas (1/2 PSI or 14" W/C)</u> |
|------------------------|---|---|
| ½" Hub (6" ~ 36" Ring) | 650,000 Btu | 1,690,000 Btu |
| ¾" Hub (48" Ring) | 1,150,000 Btu | 2,999,000 Btu |

In all reality, it is practically impossible to reach these maximums. The capacity will be reduced by **several factors in the fuel supply system** such as: Capacity of incoming system to meter, capacity of valve, line pressure, size of pipe, length of run, number of turns, LP orifice / air mixer, and altitude.

It is always best to consult your plumber to ensure you have adequate supply.

Fire Ring Installation Instructions

Natural or LP gas installation

- ❑ Inspect the Burner for any signs of damage or corrosion
- ❑ Apply pipe dope or tape to the threads of the plug. Screw plug into the center hub of the Burner and tighten. The plug may be installed on either side of the hub to allow the outlet holes to be pointed upward or downward.
- ❑ Apply pipe dope or tape to the threads of the “Vertical” nipple and install into the opposite side of the hub.
- ❑ Apply pipe dope or tape to the male threads on the other end of the “Vertical” nipple and install an elbow to that end of the nipple and tighten.

- ❑ Apply pipe dope or tape to the male threads of the “Horizontal” nipple and install it into the elbow and tighten. You may substitute a flexible gas connector for the horizontal nipple.
- ❑ Apply pipe dope or tape to the other male threads of the “Horizontal” nipple and install gas shut off valve. **MAKE CERTAIN ALL CONNECTIONS ARE TIGHT.**

For Natural Gas Connection

- ❑ Connect incoming gas supply to the gas shut off valve at the Fire Pit. Use pipe dope or tape to all male pipe threads and tighten. **Do not use pipe dope or tape to any flare connections.**
- ❑ Carefully turn the on/off valve that is supplying the incoming gas to the Fire Pit, do not open the valve that supplies the gas to the burner. Use a soap & water solution to test for leaks. **DO NOT USE FLAME TO CHECK FOR LEAKS!!**

For LP Gas Connection

- ❑ Use only the proper tank with external threads, the tank will be marked “Use with type 1”.
- ❑ Ensure the tank valve is turned off.
- ❑ Attach the LP Regulator to the tank valve (from FPLP Kit) and tighten. **Do not use a wrench!! Hand Tighten only!!**
- ❑ Apply Pipe dope or tape to one of the $\frac{3}{8}$ x $1\frac{1}{2}$ nipples and install it into the other end of the Pressure Regulator and tighten.
- ❑ Apply Pipe dope or tape to the “Horizontal” nipple and attach the $\frac{1}{2}$ x $\frac{3}{8}$ reducing coupler (from FPLP Kit) and tighten.
- ❑ Apply Pipe dope or tape to the other $\frac{3}{8}$ x $1\frac{1}{2}$ nipple (from FPLP Kit) and install into the $\frac{3}{8}$ end of the reducing coupler and tighten.
- ❑ Apply Pipe dope or tape to the other $\frac{3}{8}$ end of the $1\frac{1}{2}$ long nipple, install the $\frac{3}{8}$ female end of the Air Mixer/Orifice (from FPLP Kit) onto the $\frac{3}{8}$ nipple and tighten.
- ❑ Apply pipe dope or tape to one male end of the $\frac{1}{2}$ ” close nipple (from FPLP Kit) and install it into the other female end of the Air Mixer/Orifice and tighten.
- ❑ Apply pipe dope or tape to other end of the $\frac{1}{2}$ ” close nipple and install the Gas Shut off Valve (from FPLP Kit) and tighten.
- ❑ Apply pipe dope or tape to the $\frac{1}{2}$ pipe threads on the $\frac{1}{2}$ MPT x $\frac{3}{8}$ Flare fitting (Brass) and install into the other female end of the Gas Shut off Valve.
- ❑ Check the Quick disconnect hose for any damage (from FPLP Kit). Do not use if there are any signs of damage.
- ❑ Apply pipe dope or tape to the $\frac{3}{8}$ x $1\frac{1}{2}$ nipple installed into the Pressure Regulator and attach the female end of the quick disconnect valve attached to the 12’ Hose Assembly.
- ❑ Attach the other end of the 12’ Hose Assembly to the $\frac{3}{8}$ flare fitting that is installed onto the valve.
- ❑ Place hose out of the way of any foot traffic.
- ❑ Open the tank valve by turning counterclockwise leave the valve at the Fire Pit **Off** and check all fittings for leaks using a soap and water solution. **DO NOT USE FLAME TO CHECK FOR LEAKS!!**

Installation and Service must be performed by a qualified service technician, plumber or the gas supplier.