U.S.Veteran Owned & Operated
burners, inc.
Combustion Technology and Custom Metal Fabrication

P.O. Box 735 • Milford • MI • 48381 0149 • Ph: 248-676-9141 • Fax : 248-684-4475
www.burnersinc.com • info@burnersinc.com

INSTRUCTIONS

For NG Series Natural Gas Burners w/standard safety controls

READ ALL INSTRUCTIONS BEFORE USING

A. GENERAL DESCRIPTION

Model designations of **NG** series burners are designed to be operated on ***VAPOR NATURAL GAS - ONLY***.

NOTE - LP Gas (propane) is also an acceptable fuel if an orifice conversion has been performed.

All burners are designed to operate effectively between the pressure range of 3 inches water-column through 12 inches water-column.

In order to maintain a constant working pressure, all burners must have the appropriate regulator for the designed fuel type and fuel consumption (300,000 btu/h - 3,000 cfh).

B. INSTALLATION

Mounting - The burner must be secured to the appliance as intended by the manufacturer. The burner must be mounted in an area which will allow fresh air to circulate around the burner. The burner must be mounted away from all flammable objects. When firing into a flue or firing chamber, be certain the system design and burner are compatible. There should be sufficient flue volume and exhaust area for proper operation. The burner must not be mounted inside the fire chamber

Gas Piping - Gas service and piping must supply the quantity and pressure of gas demanded by the burner. All piping must be in strict accordance with applicable codes, ordinances and regulations of the governing authority. In the absence of other codes, piping should be in accordance with the following standards:

"National Fuel Gas Code" NFPA No. 54, ANSI No. Z223.1.

The gas piping must be internally cleaned and free of foreign material. Before using in service, a leak test must be performed.

Electrical – The electrical connection should be plugged into a standard household 115 VAC – 15 amp electrical outlet suitable for the surrounding environment

C. START & OPERATING

When installation is complete and all fuel line connections have been made, make certain all connections are tight and free from leaks.

Precautions: **Do not attempt to start the burner if there is any accumulation of gas or gas odor.**

ADJUSTING THE BURNER

Initial Air Adjustment: Allow a sufficient amount of fresh air into the combustion chamber by loosening the wing nut on the air shutter assembly (located between the blower and combustion tube), and moving the air shutter plate to the midway position.

Final Air Adjustment: Allow the burner to run for ten minutes to warm-up. After warm-up, use the air shutter to reduce the primary air intake just until the flame appears lazy and has a heavy orange color, then increase the primary air just enough to cause the flame to appear absolutely clean.

Final Burner Test: Using a suitable test instrument, verify the exhaust of the burner is within tolerance for your local building requirements.

- Tighten the primary air shutter wing nut after all final adjustments and tests are complete.
- Check and adjust all controls in accordance with the Appliance Manufacturer's Instruction Specifications.

To discontinue use - ***ALWAYS*** turn the fuel cylinder valve **OFF** first. This will allow the excess fuel to burn out of the system.