

1. Be sure that the chimney flue is clear of any dirt or debris.
2. Be sure that the chimney is not servicing an open fireplace.
3. Never reduce the pipe size below the outlet size of the furnace without checking the AGA/GAMA Venting Tables supplied with these instructions.
4. All pipe should be supported using the proper clamps and/or straps. These supports should be at least every four feet.
5. All horizontal runs of pipe should have at least a 1/4" per foot of upward slope from the furnace to the vent terminal.
6. All runs of pipe should be as short as possible with as few turns as possible.
7. Seams should be tightly joined and checked for leaks.
8. The flue pipe must not extend into the chimney but be flush with the inside wall.
9. The chimney or vent pipe must extend at least three feet above the highest point where it passes through a roof of a building and at least two feet higher than any portion of a building within a horizontal distance of ten feet. It shall also extend at least five feet above highest connected equipment flue collar.

Horizontal Venting:

This furnace is design certified by the American Gas Association for horizontal venting through an outside wall with the use of a Field Controls Company Model #DGF-2 side wall venting kit. No other Field's venting kit or any other manufacturer's venting kit is acceptable. Horizontal venting of this furnace without the use of the above stated kit is prohibited.

Here's How Your Heating System Works

The furnace operates automatically. It is controlled by a thermostat which you set at the temperature most comfortable to you. When the inside temperature drops below this setting, your thermostat will turn on the heating system.

When the thermostat calls for heat, power from the transformer energizes the fan control board. The fan control energizes the induced draft blower motor. The P1 pressure switch (N.O.) will close and initiate the ignition sequence. The ignition control will energize the pilot gas valve. The ignition control will light the pilot automatically. If the pilot flame is sensed, the main valve will open and the pilot flame will light the burners. If the pilot flame is not sensed, the

control module will lock out after 90 seconds. The ignition control may be reset by turning the thermostat to the OFF position for 1 minute and resetting the thermostat to call for heat.

The electronic fan control will automatically turn on the blower after 30 seconds. Fan on control is not adjustable. The air moved over the heating element by the blower is warmed and passes through the ducts to the room registers.

When the thermostat is satisfied, the circuit is de-energized and the main gas valve stops gas flow to the burners. The blower continues to run until the selectable fan off time period has expired. See Figure 6 for selecting the desired fan off timing.

The heat sensing switch performs as the furnace high temperature limit switch. If the furnace overheats for any reason, the limit switch opens, breaking the circuit to the main gas valve. If the limit is activated, check for a restriction in the duct system (i.e. dirty filters, blocked duct work, closed registers, etc.). The blower motor will be energized and as the unit cools the limit switch will close. This will relight the main burners and unless the overheating condition is corrected, the furnace will cycle on limit. If the furnace is cycling on the high temperature corrective action must be taken. Failure to correct this condition could possibly damage the heat exchangers and may not be covered by the warranty.

WARNING

Should overheating occur, or the gas supply fail to shut off, shut off the manual gas valve to the appliance before shutting off the electrical supply. Failure to follow this warning will lead to a hazardous condition and bodily harm.

Startup and Operational Checkout

IMPORTANT

THIS FURNACE IS EQUIPPED WITH A METAL BLOWER WHEEL SHIPPING BRACKET WHICH MUST BE REMOVED BEFORE PUTTING THIS FURNACE INTO OPERATION. TO REMOVE THIS BRACKET - 1. REMOVE THE BLOWER ACCESS PANEL. 2. REMOVE THE TWO MOUNTING SCREWS. 3. SLIDE BRACKET OFF BLOWER WHEEL HUB.