

# Most frequently asked questions on the Maxi Comfort Grain Furnace with Power Vent

*How do I install the furnace and do I need a Chimney?*

NO, you don't need a chimney! The Maxi Comfort Grain Furnace with Power Vent comes with a certified Solid Fuel Powered Vent Kit and Battery Backup. Follow the instructions contained in the manual and install the Power Vent through the wall. The Battery Backup Unit plugs into a standard 110 volt receptacle and the power vent plugs into the battery Backup in order to supply power and exhaust draft should there be a power outage. The Battery Backup will go back on charge as soon as the power comes back on.

*How much Grain will I use?*

This will depend on how high you set the Maxi Comfort Grain Furnace with Power

Vent. If connected to a thermostat and the lowest range setting of 1 the furnace will produce up to 20,000 BTU and the hopper should last approximately 4 days on average. This of course depends on many factors, insulation, outside temperature, area to be heated and so on. Our experience is that the Maxi Comfort Furnace Grain Furnace with Power Vent can heat an average 2,500 sq. ft. home using 3 to 4 tons of fuel a year. If your fuel costs for Grain is \$249.00 a ton, your cost for fuel would be less than \$1,000.00 a year.

*What is the maintenance on the Furnace?*

There is no daily maintenance! You should clean out the Ash Pan every 2 to 3 weeks depending on how much fuel you have

used and give the Heat Exchangers a cleaning by pulling the Cleaning Handle in and out a few times. That is all. The Maxi Comfort Grain Furnace with Power Vent is almost self-cleaning!

*How do I start the Maxi Comfort Grain Furnace with Power Vent?*

Starting the Maxi Comfort is easy!

Fill the Firepot with Wood Pellets an, apply Gelled Fire Starter Fluid and light the firepot with care using fireplace matches and close the door. Once the heat exchanger reaches a set temperature, the Feed Auger will start. Generally you will feel heat within 15 minutes of starting the furnace.

*What happens if the power goes out?*

If there is a short power outage the furnace will not go out due to the low fire conditions that always exists in the Firepot during operation. If it is a short outage the Furnace will restart and continue operation. Be aware that the circulation fan will not operate in the event of a power failure but will return to operation once the power is restored. The design of the Maxi Comfort Grain Furnace with Power Vent is such that the operating components do not draw much power, so a small Generator will keep the furnace running and providing heat. A minimum of 1,000 watts @ 110 VAC-60hz is required. The battery Backup unit supplied is only for providing power to the Power Vent to allow for exhaust gases to be drawn out of the Furnace.

## EQUIPMENT OPERATION

There are four (4) operating devices on the MaxiComfort furnace.

- 1. Hopper Auger** – conveys fuel from the hopper to the firepot. Its ON time is determined by the 'duty cycle' the 'cycle time', and only runs when the thermostat contact is closed, or in standby mode.
- 2. Combustion Air Fan** – supplies air to the fire pot. Its ON time is determined by the hopper auger ON time. The volume of air is controlled by the flapper on the inlet to the fan.
- 3. Circulation Blower** – distributes warm air through the ductwork. It is controlled by the fan/hi limit device, and starts at a temperature of 140°F and shuts off at 120°F. A manual over-ride push/pull allows for continuous operation.
- 4. Control Board** – is the 'brains' of the furnace. It allows the owner to customize the furnace setup for maximum comfort and fuel efficiency

**NOTE:** The hopper auger and the combustion fan start together at the beginning of each cycle, and run for times determined by the control board setup. The circulation blower is independent of the control board.



### Exhaust Configuration

**Recommendation** - Exhaust with Clean Out

**IF YOU HAVE ANY QUESTIONS PLEASE FEEL FREE TO CALL GRAIN STOVES INC.**



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