



HARGROVE Cozy Fire Vent Free Room Heater Operation and Installation Guide



DESIGN CERTIFIED
Vented-ANSI Z21.60-2012
Unvented-ANSI Z21.11-2013



This appliance is designed to supplement a current heating system. It is not designed to be used as a primary heat source.

This appliance operates as an unvented room heater when fitted to a solid fuel burning masonry or UL127 approved factory built fireplace with the flue damper closed. It may also be installed in an approved unvented fireplace.

WARNING: THIS IS AN UNVENTED GAS FIRED HEATER. IT USES AIR (OXYGEN) FROM THE ROOM IN WHICH IT IS INSTALLED. PROVISIONS FOR ADEQUATE COMBUSTION AND VENTILATION AIR MUST BE PROVIDED. REFERENCE NATIONAL FUEL GAS CODE NFPA 54, ANSI Z223.1. REFER TO PAGE 2 OF THE INSTALLATION INSTRUCTIONS.

WARNING: Improper installation, adjustments, alteration, service, or maintenance can cause personal injury or property damage. Refer to this manual. For assistance or for additional information, consult a qualified installer, service agency or gas supplier.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases. Solid fuels shall not be burned in a fireplace where an unvented room heater is installed.

WARNING: If information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

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

- WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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PRE-INSTALLATION REQUIREMENTS

Approved Fireplace Listings (Vent Free)

This appliance operates as an unvented room heater certified under ANSI Z.21.11.2a-2003 when fitted to a masonry or factory built fireplace with the flue damper open or closed. It may also be installed in approved vent free fireplaces.

WARNING: Any change to this heater or its controls can be dangerous.

Solid-fuels shall not be burned in a fireplace where an unvented room heater is installed.

WARNING: THIS APPLIANCE IS FOR INSTALLATION ONLY IN A SOLID-FUEL BURNING FIREPLACE OR APPROVED VENTLESS FIREBOX ENCLOSURE.

Fireplace Location

IMPORTANT: If installing in an approved vent free firebox, refer to their instruction guide for proper installation.

WARNING: DO NOT INSTALL THIS APPLIANCE IN ANY AREA WHERE GASOLINE OR ANY COMBUSTIBLE OR EXPLOSIVE MATERIAL WILL BE USED OR STORED. THE FLAME IN THIS APPLIANCE IS NOT ISOLATED FROM THE AIR SPACE IT HEATS AND IT WILL IGNITE FLAMMABLE VAPORS, DUST PARTICLES OR OTHER COMBUSTIBLE MATERIALS THAT COME IN CONTACT WITH IT WHICH CAN RESULT IN AN EXPLOSION OR FIRE.

To determine the safest and most efficient location for your Vent Free Fireplace, you must take into consideration the following guidelines:

1. The location must allow for proper clearances for accessibility of servicing and proper operation (See section on Fireplace Clearances – page 4).
2. Consider a location where heat output would not be affected by drafts, air conditioning ducts, windows or doors.
3. Inspect area surrounding the location chosen for the fireplace for possible air drafts that may affect the flames and possibly cause sooting. Air drafts may be caused by a ceiling fan near the fireplace, a hot furnace, or an open door.

WARNING: DO NOT ALLOW FANS TO BLOW DIRECTLY INTO THE FIREPLACE. AVOID ANY DRAFTS THAT ALTER BURNER FLAME PATTERNS.

4. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies. Young children should be carefully supervised when they are in the same room with the appliance.
5. Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.
6. Install in an area providing adequate combustion and ventilation air (see section on adequate combustion and ventilation air requirements – page 2).
7. Do not install in a building that is of unusually tight construction. Unusually tight construction is defined as construction where:
 - a. Walls and ceilings exposed to the outside atmosphere have a continuous wall vapor retarder with a rating of 1 perm or less with openings gasketed or sealed, and
 - b. Weather striping has been added on openable windows and doors, and
 - c. Caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetration for plumbing, electrical, and gas lines, and at other openings.
8. Do not install this heater in bedrooms, bathrooms, or recreational vehicles.
9. This appliance may be installed in an aftermarket* manufactured (mobile) home, where not prohibited by state or local codes.
10. Maintain adequate clearances around air openings.
11. Young children should be carefully supervised when they are in the same room as the appliance.
12. Keep appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

WARNING: DO NOT ALLOW CLOTHING OR FLAMMABLE MATERIALS ON OR NEAR THE FIREPLACE.

PRE-INSTALLATION REQUIREMENTS

Combustion and Ventilation Air Requirement Worksheet (Vent Free only)

WARNING: IF THE AREA IN WHICH THE HEATER MAY BE OPERATED IS SMALLER THAN THAT DEFINED AS UNCONFINED SPACE OR IF THE BUILDING IS OF UNUSUALLY TIGHT CONSTRUCTION, PROVIDE ADEQUATE COMBUSTION AND VENTILATION AIR BY ONE OF THE METHODS DESCRIBED IN THE NATIONAL FUEL GAS CODE, ANSI Z223.1 SECTION 5.3 OR APPLICABLE LOCAL CODES.

This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air.

The following formula can be used to determine the maximum BTU rating per the definition of unconfined space:

STEP ONE: DETERMINE THE VOLUME OF SPACE IN CUBIC FEET.

LENGTH X WIDTH X HEIGHT = _____ cu. Ft.
(Include adjoining rooms with doorless passageways or ventilation grills between rooms.)

Example: 24' (L) X 16' (W) X 8' (H) = 3,072. cu. Ft.

STEP TWO: MULTIPLY THE VOLUME OF SPACE BY 20 BTU/Hr. TO DETERMINE THE MAXIMUM BTU/Hr. THE SPACE CAN SUPPORT.

Example: 3,072 cu. Ft. X 20 BTU/Hr. = 61,440 BTU/Hr.
(Maximum BTU/Hr. the room can support)

STEP THREE: ADD THE BTU/Hr. OF ALL THE FUEL BURNING APPLIANCES IN THE SPACE.

VENT FREE HEATER _____ BTU/Hr.

GAS APPLIANCE #1 _____ BTU/Hr.

GAS APPLIANCE #2 _____ BTU/Hr.

Example: VENT FREE HEATER 26,000 BTU/Hr.
 GAS APPLIANCE #1 35,000 BTU/Hr.
 TOTAL 61,000 BTU/Hr.

NOTE: DO NOT INCLUDE DIRECT-VENT GAS APPLIANCES. DIRECT VENT IS SEALED COMBUSTION AND DRAWS COMBUSTION AIR FROM THE OUTDOORS.

THE SPACE IN THE ABOVE EXAMPLE IS AN UNCONFINED SPACE BECAUSE THE 61,000 BTU'S AN HOUR USAGE IS LESS THAN THE 61,440 BTU'S AN HOUR AVAILABLE. IF THE TOTAL BTU'S AN HOUR USAGE IS GREATER THAN 61,440 BTU'S AN HOUR THEN THE SPACE WOULD BE A CONFINED SPACE AND ADDITIONAL AIR MUST BE PROVIDED.

The National Fuel Gas Code defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space and unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 BTU per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

INSTALLATION SPECIFICATIONS

BTU Ratings and Pressure Requirements

LOG SET SIZE	24" SETS		30" SETS	
GAS TYPE	Natural	Propane	Natural	Propane
MAX. HEAT INPUT	39,000 BTU/Hr.	35,000 BTU/Hr.	39,000 BTU/Hr.	35,000 BTU/Hr.
MIN. HEAT INPUT	23,000 BTU/Hr.	23,000 BTU/Hr.	23,000 BTU/Hr.	23,000 BTU/Hr.
GAS INLET PRESSURE				
MAX.	10.5 ins. WC	13 ins. WC	10.5 ins. WC	13 ins. WC
MIN.	4.5 ins. WC	10 ins. WC	4.5 ins. WC	10 ins. WC
REGULATOR PRESSURE	3.5 ins. WC	10 ins. WC	3.5 ins. WC	10 ins. WC

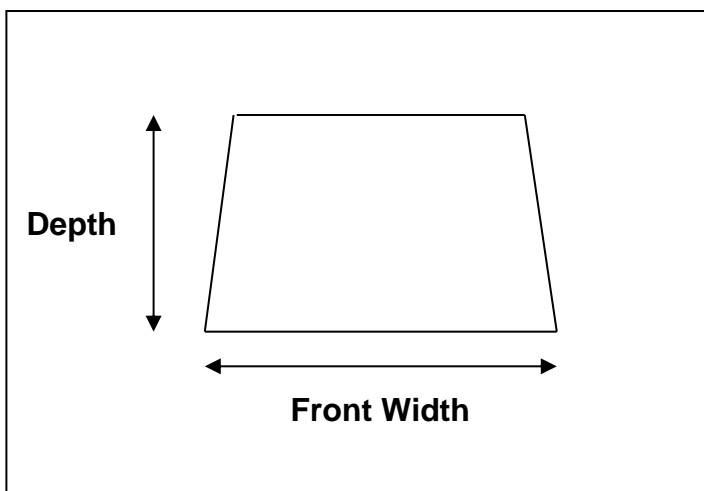
When operating the main burner, use the control knob to raise and lower the min. and max. heat output. Turn the control knob counterclockwise for max. heat and clockwise for min heat.

Input ratings are shown in BTU per hour and are for elevations up to 2,000 feet. For elevations above 2,000 feet, input ratings should be reduced 4% for each 1,000 feet above sea level. Refer to the National Fuel Gas Code.

WARNING: OPERATION OF THIS APPLIANCE ON GASES FOR WHICH IT IS NOT EQUIPPED MAY LEAD TO CARBON MONOXIDE POISONING.

Fireplace Dimensions and Clearances

Refer to the following charts to determine the proper size set for your fireplace.



Fireplace Dimensions			
Log Set Size	Depth	Height	Front Width
24"	14.5"	17"	28"
30"	14.5"	17"	38"

The chart above indicates the minimum fireplace dimensions for each log set.

INSTALLATION SPECIFICATIONS

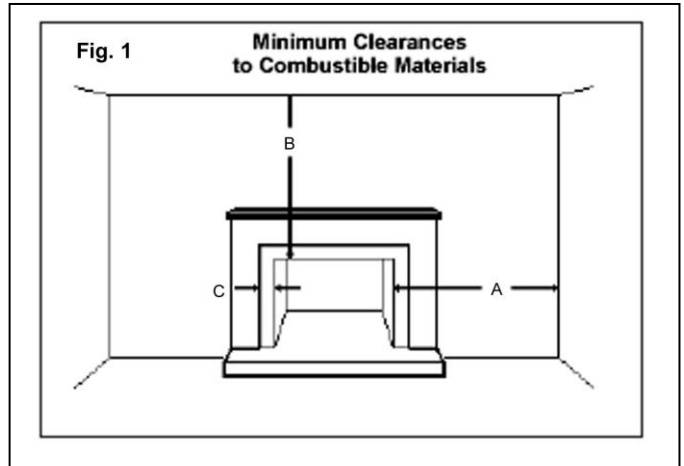
Minimum Clearances to Combustible Materials (Vent Free only)

IMPORTANT: To insure a safe installation into a masonry or factory built fireplace, the following instructions must be carefully observed. If installing in a pre-manufactured fireplace follow the clearance requirements accompanying that fireplace.

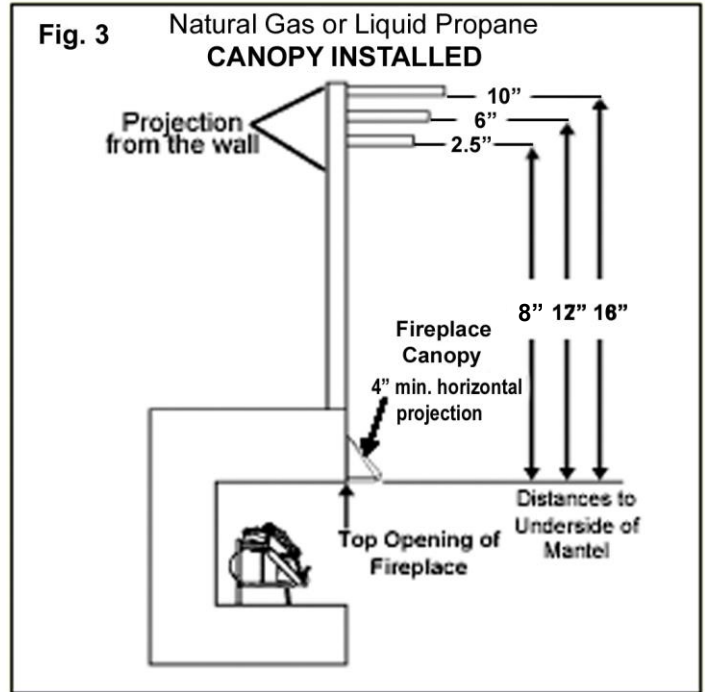
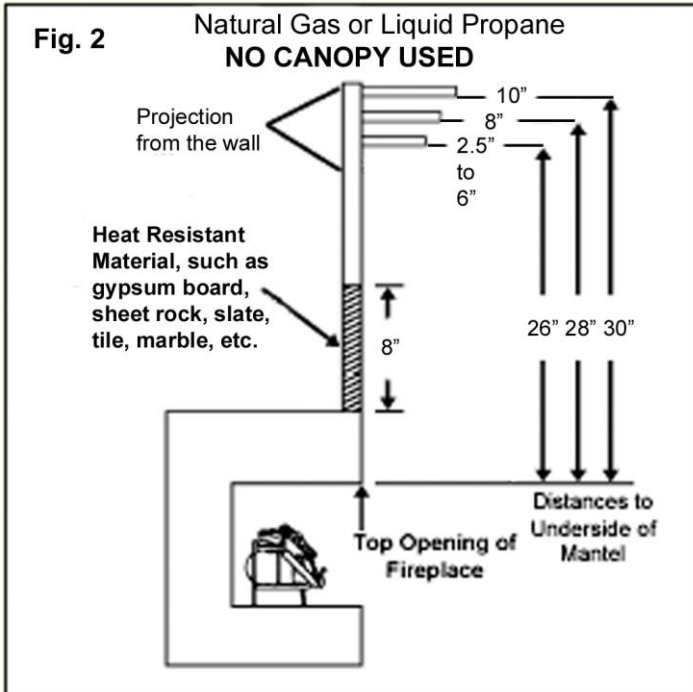
Note: Clearances to Combustible Materials and Mantle Clearances are in place to provide adequate spacing to prevent a fireplace mantle or facing from catching fire. In most cases they should also be adequate to prevent any discoloration or warping due to heat. However, each Gas Log installation will present unique circumstances creating many variables beyond the control of the Gas Log Manufacturer, including paint or finish composition, previous heat exposure, quality of construction, air flow patterns etc. Because of these variables we cannot guarantee that heat warping or discoloration will never occur. The possibility of heat damage exists whether burning wood or gas logs.

Refer to Fig. 1 for the following dimensions:

- A. Minimum left and right clearance to combustible walls = 15".
- B. Minimum clearance to combustible ceiling = 42".
- C. Minimum left and right side clearances to mantle = 6".



Mantle Clearances (Vent Free only)



INSTALLATION SPECIFICATIONS

Mantle Clearances cont. (Vent Free only)

Woodwork such as mantles and other combustible material must be installed as tested per Fig. 3 or Fig. 4.

NOTE: Heat Resistant Material as shown in Fig. 3 are materials such as gypsum board, sheetrock, slate, tile, marble etc.

If mantle and wall are both non-combustible, mantle clearances are not applicable.

FIREPLACE HOOD (CANOPY)

A hood (canopy) as shown in Fig. 5 is used to deflect heat away from the fireplace face and mantle, reducing the chances of heat damage or discoloration. If using a hood, it must project a minimum of 4" from the face of the firebox. Contact your dealer to purchase a fireplace hood.

INSTALLATION

INSTALLER: Please leave these instructions with the homeowner.

HOMEOWNER: Please retain these instructions for future reference.

State or local codes may only allow operation of this unit in a vented application. Check your state and local codes.

All Hargrove vent free room heaters comply with IAS U.S. Requirement 5-95.

The installation must conform with state and local codes or, in absence of local codes, to the National Fuel Gas Code, ANSI Z223.1

FIREPLACE PREPARATION

IMPORTANT: Before installing in a solid fuel-burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes, and loose paint by a qualified chimney cleaner.

This unit complies with 527 CMR 30.00 vent free appliance requirements for Massachusetts.

1. Turn the gas supply to OFF.
2. Turn OFF all electrical power to blower (if applicable) before installing, servicing, or removing.
3. Clean the fireplace floor, walls, and chimney (if used) of any ashes, soot creosote, or obstruction. *This will minimize any smell from the fireplace.* We recommend cleaning by a chimney sweep.
4. Any outside air ducts and/or ash dumps in the fireplace must be permanently closed at the time of appliance installation.
5. A mesh fireplace screen must be in place when the appliance is operating unless other provision for

combustion air are provided, the screen shall have an opening(s) for introduction of combustion air.

IMPORTANT: Read these instructions carefully before installing or trying to operate this vent free gas heater.

WARNING: GLASS DOORS MUST BE OPEN WHEN APPLIANCE IS IN OPERATION.

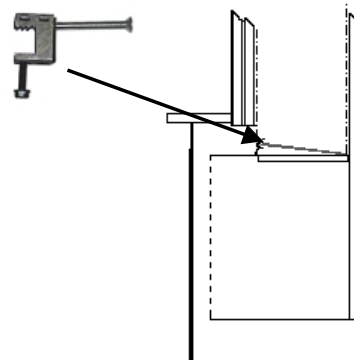
WARNING: ANY MODIFICATION TO THIS UNVENTED GAS HEATER OR IT'S CONTROLS CAN BE DANGEROUS. IMPROPER INSTALLATION OR USE OF THE HEATER CAN CAUSE SERIOUS INJURY OR DEATH FROM FIRE, BURNS, EXPLOSION OR CARBON MONOXIDE POISONING.

DAMPER STOP (Vented Only)

Attach the damper stop clamp to the fireplace damper blade. Position the clamp to prevent full closure of the fireplace damper blade.

If the damper stop provided does not fit, the installer shall install a permanent damper stop that will keep the damper open to a minimum of 3".

IMPORTANT: In the Commonwealth of Massachusetts the damper must either be permanently welded in the fully open position or completely removed.



INSTALLATION

GAS LINE HOOK-UP

NOTE: Before you proceed, make sure your gas supply is OFF!

WARNING: OPERATION OF THIS APPLIANCE ON GASES FOR WHICH IT IS NOT EQUIPPED MAY LEAD TO CARBON MONOXIDE POISONING.

IMPORTANT: This appliance cannot be used with or converted to a gas other than the type for which it was equipped at the factory.

Check Gas Type: The gas supply must be the same as stated on the heater's rating plate. If the gas supply is different, DO NOT INSTALL the heater. Contact your dealer for the correct model.

WARNING: DO NOT USE A BLOWER INSERT, HEAT EXCHANGER INSERT OR OTHER ACCESSORY NOT APPROVED FOR USE WITH THIS HEATER.

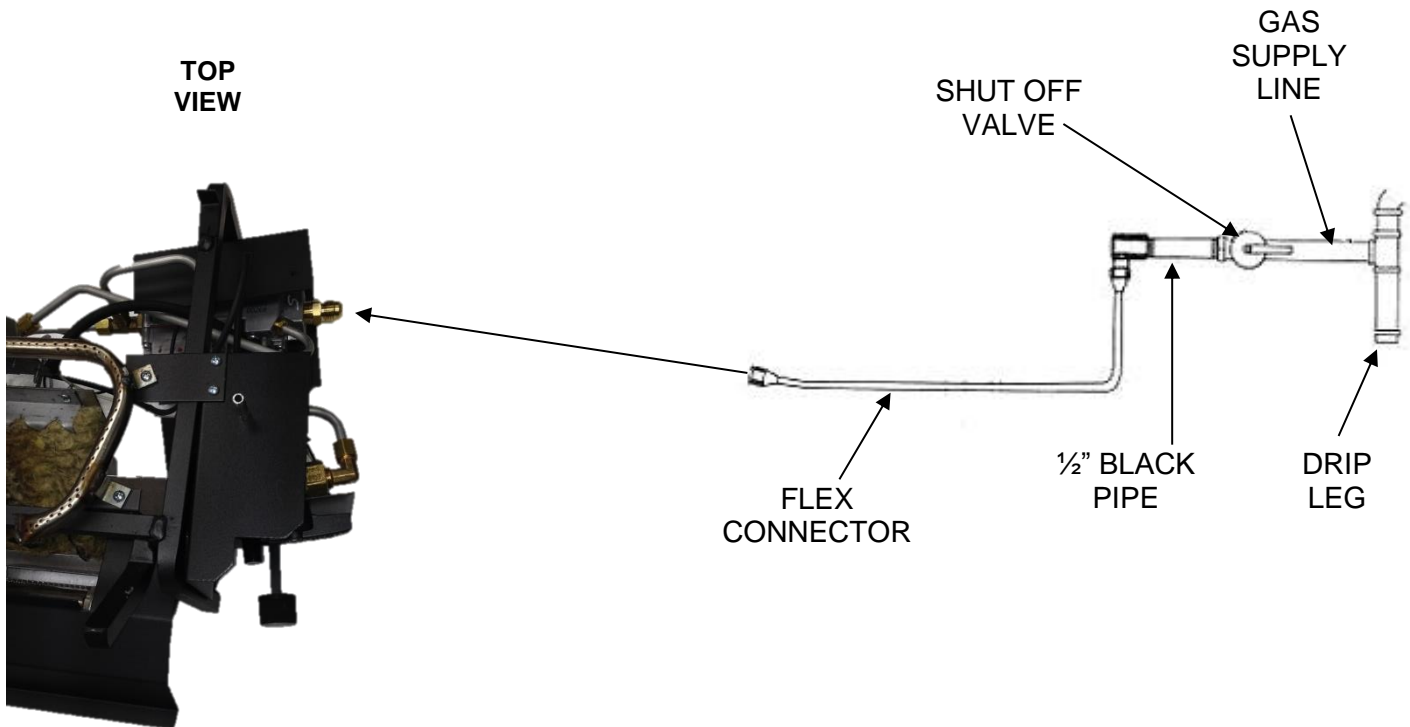
IMPORTANT STEPS TO FOLLOW WHEN MAKING THE GAS LINE HOOK-UP (Fig. 5)

This product must be installed by a licensed plumber or gasfitter when installed within the Commonwealth of Massachusetts.

1. Consult your gas supplier for proper gas pipe sizing. Normally up to 50' of 1/2" inside diameter (ID) gas pipe will supply adequate volume for all vent free units.
2. The incoming gas line may be routed into the fireplace either from the left or right side.
3. Include a manual shutoff valve in the gas supply line so the appliance may be disconnected for servicing.
4. Center the burner system from side to side in the firebox. In a vented firebox, if the damper is used, the burner assembly should be located directly under the damper.
5. Use the 3/8" flex connector (provided in the accessory kit) to connect the gas supply line to the regulator on the burner assembly.
6. Always use an external regulator for all L.P. appliances to reduce the supply tank pressure to a maximum of 13" W.C. This is in addition to the regulator fitted to the heater.

WARNING: CONNECTING DIRECTLY TO AN UN-REGULATED L.P. TANK CAN CAUSE AN EXPLOSION.

7. Test all connections after turning gas supply on for leaks using a soap and water solution. DO NOT USE AN OPEN FLAME FOR LEAK TESTING.
8. It is most convenient to light the pilot and check the operation of the main burner with the logs not in place. After carefully checking the gas supply line for leaks and correcting any found, refer to the "LIGHTING INSTRUCTIONS" section (pg. 10) to test the burner assembly.



INSTALLATION

GAS PRESSURE CHECK

NOTE: The appliance and the appliance main gas valve must be disconnected from the gas supply system during any pressure testing of that system at test pressures in excess of 0.5 psig (3.5 kPa). The appliance must be isolated from the gas supply piping system by closing it's equipment shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 0.5 psig (3.5 kPa).

1. The gas valve controls the gas pressure, which can be checked at the pressure test point (1/8" NPT plug) located on the side of the valve.

2. The pressure should be checked with the heater burner and the control set to high (HI).
3. The pressure is preset and locked to avoid tampering. If the pressure is not as specified in "BTU Rating and Pressure Requirements" (pg. 3), contact your dealer.
4. Replace the test plug after measuring gas pressure. Check for gas leaks.

IMPORTANT: Do not use the appliance if any part has been submerged under water. Immediately call a qualified technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WIRING SCHEMATIC (Millivolt Units Only)

CAUTION: Label all wire prior to disconnection when servicing controls. Wiring errors can cause improper an dangerous operation. Verify proper operation after service.

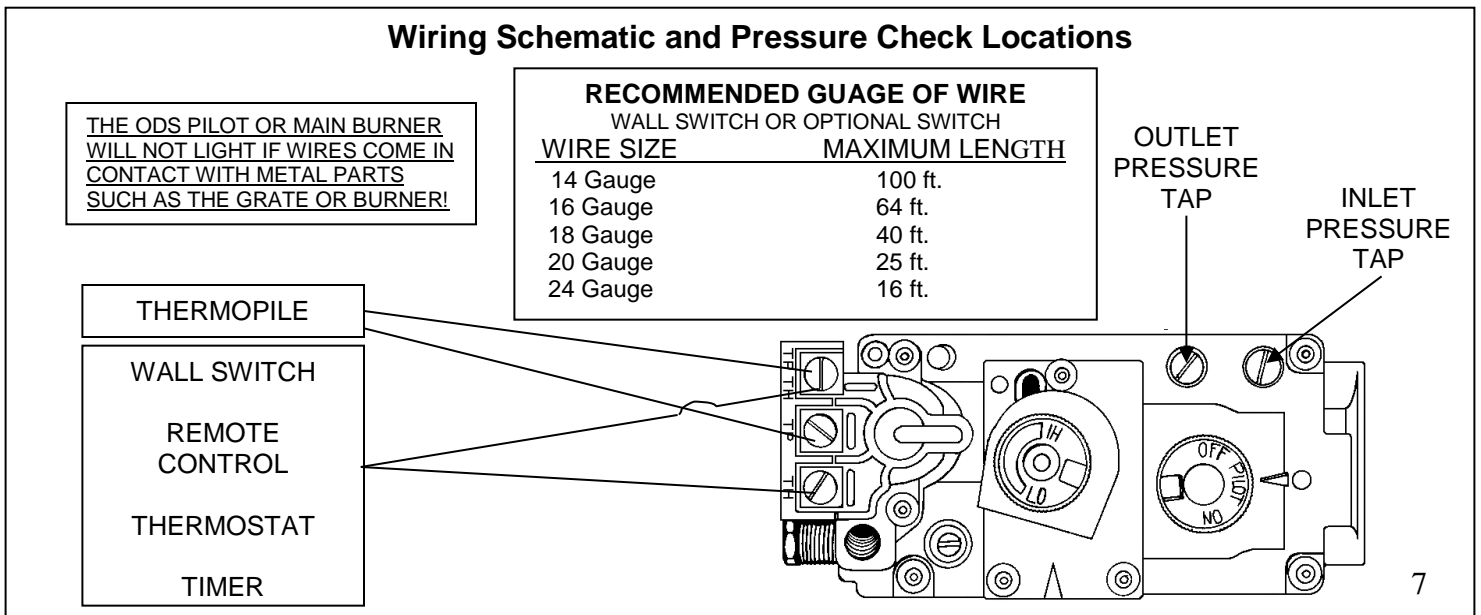
WALL SWITCH INSTALLATION

1. To install a wall switch mount a 3" X 2" electrical box in the wall near the fireplace. Run the wire from the electrical box to the millivolt valve.

2. At the valve connect the lead wires to the two outside terminals labeled "TH".

3. On the Wall Switch connect a lead wire to each terminal.
4. Mount the Wall Switch to the electrical box and install the cover plate.

***If installing a remote control, thermostat, or timer, attach the leads from the optional item to the same terminals as the Wall Switch on the Millivolt Valve.

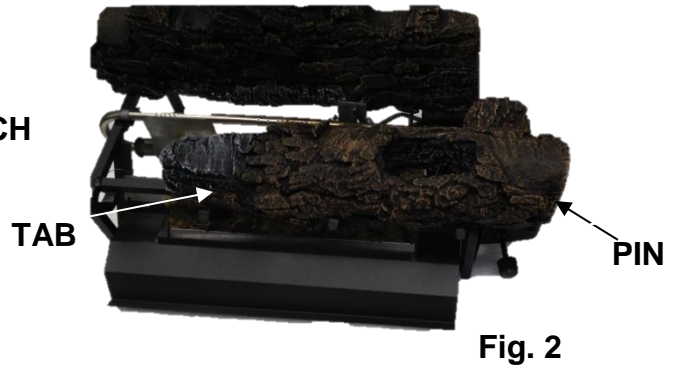
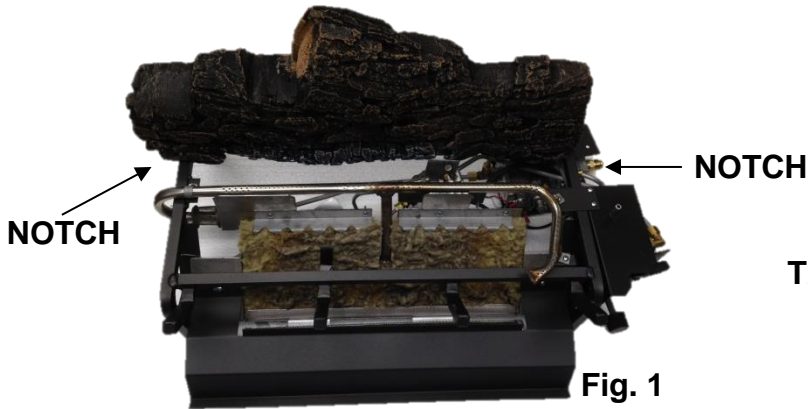


INSTALLATION

Log Placement

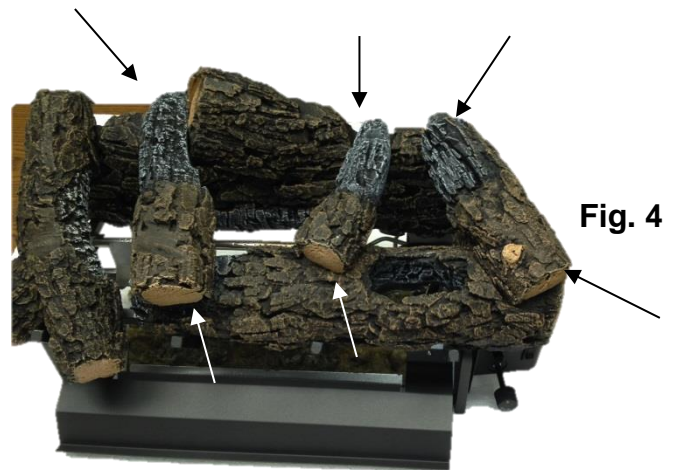
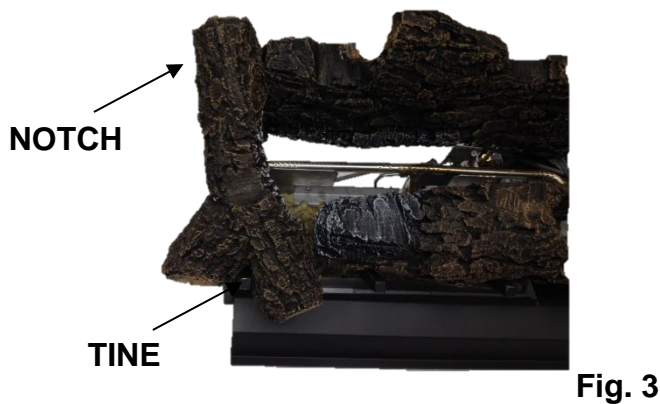
Step 1 – Place the back log on the grate using the notches noted in Fig. 1

Step 2 – Place the Front log on the grate noting to insert the pin the hole located on the bottom of the log and pulling forward so the log set in front of the metal tab located on the left end of the log as noted in Fig. 2



Step 3 - Place the left log around the grate tine and in the notch on the back log as shown in Fig. 3

Step 4 – Install the top logs as shown in Fig. 4. Make sure the logs are in the notches located on the front and back logs.



Step 5 – Place the remaining top logs in the notches as shown in Fig. 5



INSTALLATION

Volcanic Cinder Placement

1. Once the burner system is in place, pour the Volcanic Cinder on the floor of the fireplace. **DO NOT POUR ANY VOLCANIC CINDER ON THE BURNERS OR AROUND THE PILOT.**
2. You may use the Volcanic Cinder to cover up the Lighting Tags that are attached to the set. **DO NOT REMOVE THE LIGHTING TAGS FROM THE BURNER SYSTEM. THIS WILL VOID THE MANUFACTURER'S WARRANTY.**

The Volcanic Cinder is the large bag of black rock that is included in the log set. The purpose of it is to cover the fireplace floor surrounding the set. The Volcanic Cinder will also cover the metal Lighting Instruction tags and help keep them out of sight.

3. You may use the Volcanic Cinder to cover the horizontal portion of the front of the grate. **DO NOT POUR VOLCANIC CINDER ON THE BURNER OR AROUND THE PILOT.**

VOLCANIC CINDER PLACEMENT



VOLCANIC CINDER

FRONT OF BURNER SHIELD

You may use the Volcanic Cinder to cover the horizontal portion of the burner shield.

CHAR PIECES Place the char pieces to cover the burner shield and cinder as well, do not put pieces where they will come in contact with burner flame.

You may use the Volcanic Cinder to cover up the metal Lighting Instruction tags.

OPERATION

FOR YOUR SAFETY READ BEFORE LIGHTING

- A. This appliance has a pilot which is lighted by a spark igniter system. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

- *Do not try to light any appliance.
- *Do not touch any electric switch; do not use any phone in your building.
- * Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- *If you cannot reach your gas supplier, call the fire department.

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Force or attempt repair may result in a fire or explosion and may void your warranty.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

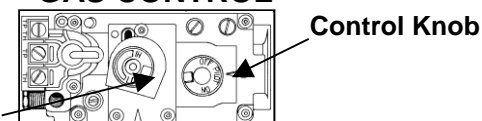
LIGHTING INSTRUCTIONS

WARNING: At no time should the "LIGHTING INSTRUCTION" tags be detached from the burner system. Removing the tags will void the manufacturer's warranty.

1. **STOP!** Read the safety information above on this label.
2. Turn off all electrical power in firebox before installing.
3. Depress the control knob and turn clockwise as far as it will go to reach the "OFF" position.
4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow "B" in the safety information above on this label. If you do not smell gas, go to the next step.
5. Depress the control knob and turn counterclockwise to the "PILOT" position.

Fig 10

GAS CONTROL



Flame Height Control Knob

6. Push in control knob **all the way** and hold in.
 - * If the control knob is not held in all the way the pilot will not stay lit when the knob is released.
 - * Do not turn the knob when pushing it in.
7. Light the pilot (mounted in front of the back burner) by pushing the spark igniter button several times. This will cause a spark at the pilot which will ignite the pilot gas. If the spark does not work, light the pilot with a match.
 - * When lighting the pilot it may take several seconds for gas to reach the pilot.
8. Continue to hold the control knob in **all the way** for about 30 seconds after the pilot is lit.
9. Release the knob and it will pop back out. The pilot should remain lit. If it goes out, repeat steps 3 through 9.
 - * If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
 - * If the pilot will not stay lit after several tries, turn the

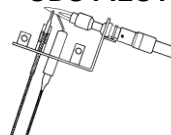
7. Depress the control knob and turn counterclockwise to "ON". Turn flame height knob counterclockwise to select desired comfort level.

IMPORTANT: The gas control has an interlock device. After shutting off all gas flow, the pilot burner cannot be relit until the thermocouple has cooled, allowing the electromagnet to be released (approx. 60 sec.). The gas control knob is designed to be operated by hand. DO NOT use any tools during this operation. Damaged knobs may result in serious injury.

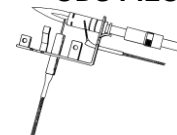
NOTE: A periodic visual check of the pilot flames (Figure 11) should be made. See illustration below.

Fig 11

NATURAL GAS ODS PILOT



LIQUID PROPANE ODS PILOT



WARNING: TAMPERING WITH THE ODS PILOT WILL VOID THE MANUFACTURER'S WARRANTY.

OPERATION

TO TURN OFF GAS TO APPLIANCE

TEMPORARY SHUTDOWN PROCEDURE:	To turn off main burner only, depress the knob and turn it clockwise as far as it will go. Do not force.
COMPLETE SHUT-DOWN PROCEDURE:	Turn off all electrical power in firebox. Turn gas control knob clockwise to the "OFF" position.

Controlling Heat Output

* The heat output can be controlled by adjusting the vent free burner control knob.

* Another way to regulate the heat output is to open the fireplace damper.

If you want:

- more heat radiated into the room – Keep the damper completely closed
- less heat radiated into the room – open the fireplace damper to varying degrees.

Important Safeguards

1. To avoid personal injury, do not touch hot surfaces when the appliance is operating. Touch only the piezo ignitor and control knob.

Hot Surfaces

- Grate
- Burner
- Logs
- Surfaces above the opening of the fireplace

2. Although your gas logs are very realistic in appearance, it is not a real wood-burning fireplace and must not be used for burning any material.

* To avoid irreparable damage to the appliance or personal injury, matches, paper, garbage, or any other material must not be placed or thrown on top of the logs or into the flames.

Close supervision is necessary when the appliance is being operated near children.

Avoid any drafts that alter burner patterns. Do not allow fans to blow directly into the fireplace. Ceiling fans may create drafts that alter burner flame patterns. Sooting and improper burning will occur.

Cleaning And Servicing

Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding, and material, etc. It is imperative that control components, burners and circulating air passageways of the appliance be kept clean.

- If the flames show any unusual shapes or behavior, or the burners fail to ignite properly, then the burner holes may require cleaning.

WARNING: TURN OFF VENT FREE BURNER SYSTEM AND ALLOW TO COOL BEFORE CLEANING OR SERVICING.

MONTHLY CLEANING

- If removing logs, when reinstalling, refer to "Log Assembly Diagram" for correct log placement.
- Do not use cleaning fluids to clean logs or any part of the heater.
- Brush logs with a soft bristle brush or vacuum with brush attachment.
- Vacuum loose particles and dust from the front and rear burner ports, gas control, piezo cover, and grate.
- Inspect and clean ODS pilot for operation and accumulation of lint at air intake holes.
- Verify flame pattern and log placement for proper operation.
- Verify smooth and responsive ignition of main burner and rear burner. Refer to page for proper pictorial sketch of proper operation.

ANNUAL CLEANING AND INSPECTION

- Dealer or qualified inspector – follow the above steps for proper servicing and inspection.

TROUBLE-SHOOTING

Hargrove Manufacturing test fires all Vent Free burner systems before shipment. Each test consists of lighting the pilot, checking for proper ignition, and leak testing at each connection. Even though all of these precautions are taken sometimes problems do arise. The following Trouble-Shooting chart lists several problems with their probable cause and remedy.

WARNING: TURN OFF AND LET COOL BEFORE SERVICING. ONLY A QUALIFIED SERVICE PERSON SHOULD SERVICE AND REPAIR.

<u>OBSERVE PROBLEM</u>	<u>POSSIBLE CAUSE</u>	<u>REMEDY</u>
A. When ignitor button is pressed there is no spark at the ODS.	<ol style="list-style-type: none">1. Ignitor electrode positioned wrong.2. Ignitor electrode is broken.3. Ignitor electrode is not connected.4. Ignitor cable is pinched.5. Ignitor cable is wet.6. Broken ignitor cable.7. Bad piezo ignitor.	<ol style="list-style-type: none">1. Replace ignitor.2. Replace ignitor.3. Reconnect ignitor cable.4. Free ignitor cable if pinched by any metal or tubing.5. Dry ignitor cable.6. Replace ignitor cable.7. Replace Piezo ignitor.
B. ODS pilot lights, but flame goes out when control knob is released.	<ol style="list-style-type: none">1. Control knob not fully depressed.2. Control knob not pressed in long enough.3. Manual shutoff valve not fully open.4. Thermocouple connection loose at valve.5. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following:<ol style="list-style-type: none">A) Log gas pressure.B) Dirty or partially clogged ODS pilot.6. Thermocouple damage.7. Control valve damage.	<ol style="list-style-type: none">1. Press in control knob fully.2. After ODS pilot lights, keep control knob pressed in 30 seconds.3. Fully open manual shutoff valve.4. Hand tighten ¼ turn more.5. Contact local gas company.6. Replace ODS pilot.7. Replace control valve.
C. Appliance shuts of in use.	<ol style="list-style-type: none">1. Not enough fresh air available for ODS pilot to operate.2. Low gas pressure.3. ODS pilot is partially clogged.4. Unstable pilot flame due to drafts from ceiling fan, hot furnace register, open door etc...5. If using damper, unstable pilot flame from downdrafts.	<ol style="list-style-type: none">1. Open door to adjoining room for added ventilation or open window.2. Contact local gas company.3. Clean ODS pilot.4. Locate and eliminate drafts.5. Close damper.

TROUBLE-SHOOTING

<u>OBSERVE PROBLEM</u>	<u>POSSIBLE CAUSE</u>	<u>REMEDY</u>
D. When ignitor button is pressed there is spark at ODS pilot, but not ignition.	<ol style="list-style-type: none">1. Gas supply turned off or manual shutoff valve closed.2. Control knob not in PILOT position.3. Control knob not pressed in while in PILOT position.4. Air in gas line. 5. ODS pilot is clogged.	<ol style="list-style-type: none">1. Turn on gas supply or open manual shutoff valve.2. Turn control knob to PILOT position then depress knob.3. Press in control knob while in PILOT position.4. Continue holding down control knob. Repeat igniting operation until air is removed.5. Clean ODS pilot.
E. Gas odor even when control knob is in the OFF position.	<ol style="list-style-type: none">1. Gas leak.2. Control valve defective.	<ol style="list-style-type: none">1. Locate and correct all leaks.2. Contact dealer to receive further instructions on correcting problem.
F. Slight odor during initial operation.	<ol style="list-style-type: none">1. Smell coming from the paint curing on the logs and burner system.	<ol style="list-style-type: none">1. Problem will stop after a few hours of operation. Run the heater with the damper open if you have one or open a window for the first few hours.
G. Main burner does not light after ODS pilot is lit.	<ol style="list-style-type: none">1. Burner orifice is clogged.2. Inlet gas pressure is too low.3. Gas line obstruction. (pipe dope, teflon tape, etc...)	<ol style="list-style-type: none">1. Clean burner orifice and main burner.2. Contact local gas company.3. Locate and clear obstruction.
H. Delayed ignition of main burner.	<ol style="list-style-type: none">1. Burner orifice is clogged.2. Inlet gas pressure is too low.3. Gas line obstruction. (pipe dope, teflon tape, etc...)	<ol style="list-style-type: none">1. Clean or replace burner orifice. Clean main burner.2. Contact local gas company.3. Locate and clear obstruction.
I. Main burner backfiring during combustion.	<ol style="list-style-type: none">1. Burner orifice is clogged or damaged.2. Inlet gas pressure is too low.3. Gas line obstruction. (pipe dope, Teflon tape, etc...)	<ol style="list-style-type: none">1. Clean or replace burner orifice. Clean main burner.2. Contact local gas company.3. Locate and clear obstruction.
J. Appliance produces unwanted odors.	<ol style="list-style-type: none">1. Fresh paint fumes, cleaning agents, pet hair, or other particles are cycling thru the fireplace when it is operating.2. Gas leak.	<ol style="list-style-type: none">1. Ventilate room. Stop using odor causing products while heater is running.2. Locate and correct all leaks.
K. Soot is depositing on logs, in fireplace, or in room.	<ol style="list-style-type: none">1. Logs are not positioned properly and are obstructing the flame.2. Main burner has accumulated dust or other small particles.	<ol style="list-style-type: none">1. Logs must be repositioned so they do not come in contact with the flame.2. Clean main burner.

LIMITED WARRANTY

Logs

Hargrove gas logs carry a limited lifetime warranty against any manufactured defect or breakage. A replacement will be available from the dealer at which the appliance was purchased. This warranty does not cover breakage caused by excessive handling once installed and fired.

Burner & Grate

If the burner or grate fails due to deterioration within five (5) years of the verified purchase date, a free replacement will be made available from the dealer at which the appliance was purchased.

Valves, Remote Controls, & Switching Devices

Hargrove warrants all valves, remote controls and switching devices against manufacturing defects which appear within two (2) years of the verified purchase date. Warranty does not cover products that have been damaged by misuse from overheating. Before any product is returned a Return Goods Authorization number (RGA) must be issued by Hargrove's Customer Service Department. All returns must be accompanied by an explanation of the problem and all necessary parts.

All Other Parts

If any assembled part should fail to operate or be found defective which appear within two years of the verified purchase date, a replacement will be available from the dealer at which the appliance was purchased.

Buyer shall notify Hargrove Mfg Corp. of any defect covered by this warranty no later than thirty (30) days after defect is discovered. Failure to provide notice within thirty (30) days shall void the limited warranty.

WHAT IS NOT COVERED

1. Removal and reinstallation costs.
2. Labor costs for replacement or repairs.
3. Transportation or shipping cost.
4. The cost of a service call to diagnose trouble.
5. Painted Surfaces.
6. Damage or defect caused by improper installation, accident, misuse, abuse, alteration, or authorized service technician.
7. Replacement of burner or combustion chamber resulting from improper storage of the appliance.

LIMITATIONS AND EXCLUSIONS

1. No one has authority to add to or vary this limited warranty, or to create for Hargrove Manufacturing Corporation any other obligation or liability in connection with this appliance.
2. Any implied warranty applicable to this appliance is limited in duration to the same period of time as this written Warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
3. HARGROVE MANUFACTURING CORPORATION WILL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, SPECIAL OR CONTINGENT DAMAGES YOU MIGHT SUFFER AS A RESULT OF A CLAIM UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusion may not apply to you.
4. This warranty applies only to the original purchaser and may not be transferred or assigned.
5. If you cannot verify the purchase date of the appliance, the warranty period will begin on the date of which the appliance was manufactured.
6. Replacement or repair parts are warranted for the remaining period of the original part warranty. Warranty parts must be obtained through authorized dealers of this product who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.
7. The maximum liability of Hargrove Mfg Corp. in connection with this limited warranty shall not in any case exceed the contract price paid for the product claimed to be defective or unsuitable.
8. Purchaser or user agrees to hold Hargrove Mfg Corp. harmless from any and all claims by the buyer as a result of injury or damage to an ultimate user or other person caused by the product sold herein by the seller to the buyer, whether the injury or damage results from the assembly, installation, operation, shipment, storage, or manufacture of this product. Hargrove Mfg Corp. makes no warranties, expressed or implied, other than those expressly stated herein.

YOUR DUTIES

This appliance must be installed by a qualified installer, operated and maintained in accordance with all applicable codes and the instructions furnished with the appliance. You must provide a receipt verifying the purchase date of the appliance when making a warranty claim with the dealer from which the appliance was purchased.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

CONTACT INFO: Hargrove Manufacturing Corp.
Tele: (800) 725-4166

527 CMR 30.00 UNVENTED PROPANE OR NATURAL GAS-FIRED SPACE HEATERS

Section

- 30.01: Purpose
- 30.02: Scope
- 30.03: Definitions
- 30.04: Installation
- 30.04: Maintenance and Operation

30.01: Purpose

The purpose of 527 CMR 30.00 is to provide requirements for the installation, maintenance, and operation of unvented propane or natural gas-fired space heaters.

30.02: Scope

527 CMR 30.00 shall apply to unvented propane or natural gas-fired space heaters installed in occupancies used in whole or in part for habitation on or after April 1, 2004. 527 CMR 30.00 shall not apply to unvented propane or natural gas-fired space heaters not used in habitated spaces or those installed in accordance with 527 CMR 20.

Malfunction, shall mean a condition where a space heater fails to operate properly as provided in the manufacturer's instructions.

Oxygen Depletion Safety Shutoff System (ODS): A device utilized to shut off the gas supply to the pilot or main burner when the oxygen in the surrounding atmosphere is depleted to the percent concentration developed by the manufacturer, but under no circumstances shall the concentration be less than 18 percent oxygen concentration.

Primary Heat: A heat source that is permanently installed and used exclusively to provide heat to the entire structure (e.g. forced hot water, forced hot air) by means of a central furnace or boiler which has a permanent fuel source (e.g. oil, natural gas or LPG) or electric heat.

527 CMR 30.03. **Primary Heat** shall not include fireplaces or wood stoves.

Unvented Natural or Propane Gas-Fired Space Heater: A permanently installed stand alone gas-fired unvented room heater or gas-fired unvented decorative room heater for connection to the house fuel supply system which utilizes natural gas or propane. Unvented gas-fired space heaters may be used only for supplemental heat and/or decorative purposes and under no circumstances shall they provide a primary heat source. Unvented gas-fired space heaters shall comply with ANSI Standard Z21.11.2 – 2000 edition, Volume II.

30.04: Installation

- (1) A permit shall be obtained from the head of the fire department and the local or state gas inspector having jurisdiction for the installation of all unvented propane or natural gas-fired space heaters. Said permits shall be conditioned upon final inspection and approval of installation by the head of the fire department and the local or state gas inspector having jurisdiction. A copy of the manufacturer's installation/operating literature shall be submitted with each permit application. Before operation, the Head of the Fire Department and the local or state gas inspector shall inspect the installation for compliance with 527 CMR and 248 CMR (Board of State Examiners of Plumbers and Gas Fitters).
- (2) Unvented propane or natural gas-fired space heaters shall conform to ANSI Z21.11.2, be equipped with an oxygen depletion safety (ODS) shutoff system and be listed and approved in accordance with 248 CMR.
- (3) Unvented propane or natural gas-fired space heaters shall be installed in accordance with their listings and the manufacturer's instructions. Proper clearances to combustibles shall be maintained. In no case shall the clearances be such as to interfere with combustion air and accessibility.
- (4) Installations shall be of a permanent type, with a permanently piped fuel supply in accordance with 248 CMR. LPG appliances shall be subject to the storage requirements in accordance with 527 CMR 6.00. Portable unvented propane or natural gas-fired space heaters shall be prohibited.
- (5) Unvented propane or natural gas-fired space heaters shall be prohibited in bedrooms and bathrooms.

527 CMR 30.00 UNVENTED PROPANE OR NATURAL GAS-FIRED SPACE HEATERS

(6)Space heaters shall be properly sized for the room or space of installation, but shall not exceed a maximum of 40,000 BTU input per room or space.

(7)In occupancies with an unvented propane or natural gas-fired space heater, at least one listed carbon monoxide detector shall be installed and maintained in any room or space where said heater has been installed in accordance with the manufacturers instructions. Any building wherein said heater is to be installed shall, as a precondition to such installation, have working smoke detectors installed and maintained in accordance with the requirements of 780 CMR (State Board of Building Regulations and Standards) in effect at the time of construction or if no said requirement was in effect at the time of construction, installed as provided for in M.G.L.c. 148, §26E.

(8)In rooms and buildings served by an unvented propane or natural gas-fired space heater, a primary source of heat, which is operable, shall be permanently installed and maintained in said building in accordance with 105 CMR (Department of Public Health).

(9)Sellers of unvented propane or natural gas-fired space heaters shall provide to each purchaser a copy of 527 CMR 30.00 upon sale of the unit.

30.05: Maintenance and Operation

(1)The maintenance and operation of unvented propane or natural gas-fired space heaters shall be in accordance with the manufacturer's instructions. The manufacturer's instructions shall be left with the appliance and made available for any public official.

(2)Any malfunction of an unvented space heater shall forthwith be reported by the owner to the head of the local fire department.

REGULATORY AUTHORITY

527 CMR 30.00 M.G.L. c. 148, §25A