Kozy-World[®]

VENT-FREE GAS FIREPLACE GFD4360

WARNING: This appliance is equipped for (Natural and Propane) gas. Field conversion is not permitted other than between natural or propane gases.





A CAUTION – FOR YOUR SAFETY

A WARNING: IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY. OR LOSS OF LIFE.

Do not store or use gasoline or other flammable vapors and liquids in 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 ٠ 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.

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. Refer to Air for Combustion and Ventilation section on page 7 of this manual.

INSTALLER: DO NOT DISCARD THIS MANUAL – LEAVE FOR HOMEOWNER'S FUTURE REFERENCE.

This appliance may be installed in an aftermarket, permanently located manufactured (mobile) home, where not prohibited by local codes. This appliance is for use with the type of gas indicated on the rating plate only. This appliance is not convertible for use with other gases.



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A WARNING: READ THE INSTALLATION & OPERATION INSTRUCTIONS BEFORE USING THIS APPLIANCE.

IMPORTANT: Read instructions and warnings carefully before starting installation. Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

PRODUCT SPECIFICATIONS

MODEL NO.	GFD4360				
Input Rating	32,000 BTU/Hr	32,000 BTU/Hr			
Gas Type	Natural	LP/Propane			
Ignition	Electronic Piezo	Electronic Piezo			
Manifold Pressure	4 in. W.C.	9 in. W.C.			
Inlet Gas Pressure					
Maximum	10.5 in.	14 in.			
Minimum	5 in.	11 in.			
Dimensions, inches (H x W x D)					
Heater	45.59in. x 50 in. x 16.87 in.				
Carton	59 1/5in. ×54 3/4in. ×22 1/4in.				
Weight, Ibs	s				
Stove	171 205				
Shipping					

IMPORTANT SAFETY INFORMATION

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this heater. Improper use of this heater can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

Only a qualified installer, service agent, or local gas supplier may install and service this product.

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

A WARNING: This appliance is for use with only the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

CARBON MONOXIDE POISONING: Early signs of carbon monoxide poisoning resemble the flu with headaches, dizziness, or nausea. If you have these signs, the heater may not be working properly. Get fresh air immediately! Have heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease, people who are anemic, those under the influence of alcohol, and those living at high altitudes.

NATURAL AND PROPANE/LP GAS: Natural and Propane/LP gases are odorless. An odor-making agent is added to the gas. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists. Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to operating this heater safely.

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

A WARNING: Do not allow fans to blow directly into fireplace. Avoid any drafts that alter burner flame patterns.

WARNING: Do not use a blower insert, heat exchange insert or other accessory not approved for use with this heater.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies. Do not place clothing or other flammable material on or near the appliance. Never place any objects in the heater. Heater becomes very hot when running heater. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Fireplace will remain hot for a time after shutdown. Allow surfaces to cool before touching. Carefully supervise young children when they are in the room with the heater.

You must operate this heater with the heater screen in place. Keep the heater area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

- 1. Do not place Propane/LP supply tank(s) inside any structure. Place Propane/LP supply tank(s) outdoors.
- 2. This heater needs fresh air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if not enough fresh air is available. See *Air for Combustion and Ventilation*, pages 7 through 9. If heater keeps shutting off, see *Troubleshooting*, pages 21 through 23.
- 3. Keep all air openings in front and bottom of heater clear and free of debris. This will ensure enough air for proper combustion.
- 4. If heater shuts off. Do not relight until you provide fresh, outside air. If heater keeps shutting off, have it serviced.
- 5. Do not run heater:
 - Where flammable liquids or vapors are used or stored.
 - Under dusty conditions.
- 6. Before using furniture polish, wax, carpet cleaner, or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls or furniture.

- 7. Always run heater with control knob at PILOT/IGN, LOW or HIGH locked positions. Never set control knob between locked positions. Poor combustion and higher levels of carbon monoxide may result.
- 8. Do not use heater if any part has been under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 9. Turn off and unplug heater and let cool before servicing. Only a qualified service person should service and repair heater.
- 10. Operating heater above elevations of 4,500 feet could cause pilot outage.
- 11. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lbs. capacity.
- 12. This heater should not be installed in a bedroom or bathroom.
- 13. Do not use this heater as a wood-burning heater. Use only the logs provided with the heater.
- 14. To prevent the creation of soot, follow the instructions in Cleaning and Maintenance (page 20).
- 15. Do not add extra logs or ornaments such as pine cones, vermiculite, or rock wool. Using these added items can cause sooting. Do not add lava rock around base. Rock and debris could fall into the control area of heater. After servicing, always replace screen before operating heater.
- 16. This heater is designed to be smokeless. If logs ever appear to smoke, turn off heater and call a qualified service person. Note: During initial operation, slight smoking could occur due to log curing and the heater burning manufacturing residues.

QUALIFIED INSTALLING AGENCY

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed only by a qualified agency. The term "qualified agency" means any individual, firm, corporation, or company that either in person or through a representative is engaged in and is responsible for:

- a) Installing, testing, or replacing gas piping or
- b) Connecting, installing, testing, repairing, or servicing equipment; that is experienced in such work; that is familiar with all precautions required; and that has complied with all the requirement of the authority having jurisdiction.

PRODUCT FEATURES

SAFETY PILOT

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. ODS/pilot shuts off the heater if there is not enough fresh air.

PIEZO IGNITION SYSTEM

This heater is equipped with an electronic piezo control system. This system requires AAA batteries (provided).

THERMOSTAT HEAT CONTROL

The control automatically cycles the burner on and off to maintain a desired room temperature. See page 17.

DUAL FUEL CAPABLE

Your heater is equipped to operate on either Propane or Natural gas. The heater is shipped from the factory ready for connecting to Propane. The heater can easily be changed to Natural gas by having your qualified installer follow the instructions on page 12 & 13 and the markings on the heater.

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the

Commonwealth of Massachusetts. Sellers of unvented propane or natural gas-fired supplemental room

heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

In the State of Massachusetts, unvented propane or natural gas-fired space heaters shall be prohibited in bedrooms and bathrooms.

In the State of Massachusetts the gas cock must be a T-handle type. The State of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

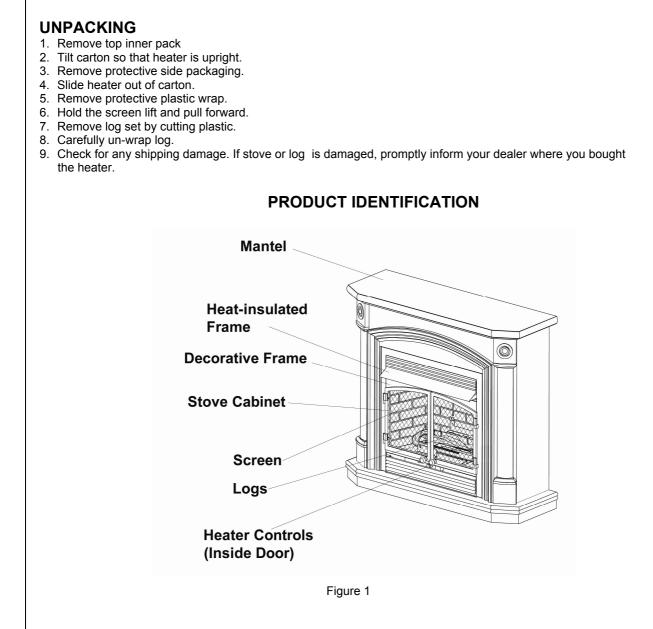
LOCAL CODES

Install and use heater with care. Follow all codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code*, ANSI Z223.1, also known as NFPA 54*.

*Available from:

American National Standards Institute, Inc. 1430 Broadway New York, NY 10018 National Fire Protection Association, Inc. 1 Battery march Park Quincy, MA 02269-9101

This heater is designed for vent-free operation. State and local codes in some areas prohibit the use of vent-free heaters.



WATER VAPOR: A BY-PRODUCT OF UNVENTED ROOM HEATERS

Water vapor is a by-product of gas combustion. An unvented room heater produces approximately one (1) ounce (30ml) of water for every 1,000 BTUs (.3kWs) of gas input per hour. An unvented room heater is recommended as a supplemental heater (a room) rather than a primary heat source (an entire house). In most supplemental heat applications, the water vapor does not create a problem. In most applications, the water vapor enhances the low humidity atmosphere experienced during cold weather. The following steps will help insure that water vapor does not become a problem:

- 1. Be sure the heater is the proper size for the application, including adequate combustion air and circulation air.
- 2. If there is high humidity, the dehumidifier may be used to help lower the water vapor content of the air.
- 3. Do not use an unvented room heater as the primary heat source.

AIR FOR COMBUSTION AND VENTILATION

WARNING: This heater should not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

PRODUCING ADEQUATE VENTILATION

The following are excerpts from National Fuel Gas Code, NFPA 54/ANSI Z223.1, Section 5.3, Air for Combustion and Ventilation. All spaces in homes fall into one of the three following ventilation classifications:

- 1. Unusually Tight Construction
- 2. Unconfined Space
- 3. Confined Space

The information on pages 7 through 9 will help you classify your space and provide adequate ventilation.

Confined and Unconfined Space

The National Fuel Gas Code, ANSI Z223.1 defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour (4.8 cubic meters per kw) of the aggregate input rating of all appliances installed in that space and an unconfining space as a space whose volume is not less than 50 cubic feet per 1,000 BTU per hour (4.8 cubic meters 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.

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

• Adjoining rooms are connecting only if there are door less passageways or ventilation grills between them

Unusually Tight Construction

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

Unusually tight construction is defined as construction where:

a) walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one $\frac{-11}{2}$

- perm (6x10 kg per pa-sec-m) or less with openings gasketed or sealed and
- b) Weather stripping has been added on windows that can be opened and on doors <u>and</u>
- 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 penetrations for plumbing, electrical, and gas lines, and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air. See "Ventilation Air from Outdoors" (page 9). If your home does not meet all of the three criteria above, proceed to "Determining Fresh-Air Flow for Heater Location:

DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

Determining if You Have a Confined or Unconfined Space

Use this worksheet to determine if you have a confined or unconfined space. **Space:** Includes the room in which you will install heater plus any adjoining rooms with door less passageways or ventilation grills between the rooms.

1. Determine the volume of the space Length × Width × Height = cu. ft. (volume of space)

Example: Space size 20 ft. (length) × 16 ft. (width) × 8 ft. (ceiling height) =2560 cu. ft. (volume of space) If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.

2. Divide the space volume by 50 cubic feet to determine the maximum BTU/hr the space can support. (Volume of space) ÷ 50 cu. ft. = (Maximum BTU/hr the space can support)

Example: 2560 cu. ft. (volume of space) ÷ 50 cu. ft. = 51.2 or 51,200 (maximum BTU/hr the space can support)

Add the BTU/hr of all fuel	burning appliand	ces in the	space.		
Vent-free heater	-	BTU/hr			
Gas water heater*		BTU/hr			
Gas furnace		BTU/hr			
Vented gas heater		BTU/hr	Example:		
Gas heater logs		BTU/hr	Gas water heater		30,000 BTU/hr
Other gas appliances*+		BTU/hr	Vent-free heater	+	26,000 BTU/hr
Total =		BTU/hr	Total	=	56,000 BTU/hr

*Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

4. Compare the maximum BTU/hr the space can support with the actual amount of BTU/hr used. BTU/hr (maximum the space can support)

BTU/hr (actual amount of BTU/hr used).

3.

Example: 51,200 BTU/hr (maximum the space can support)

56,000 BTU/hr (actual amount of BTU/hr used)

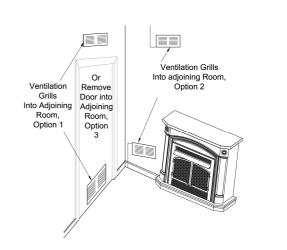
The space in the above example is a confined space because the actual BTU/hr used is more than the maximum BTU/hr the space can support. You must provide additional fresh air. Your options are as follows:

- Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See "Ventilation Air from Outdoors," page 9.
- b) Vent room directly to the outdoors. See "Ventilation Air from Outdoors", Page 9.
- c) Install a lower BTU/hr heater if lower BTU/hr size makes room unconfined. If the actual BTU/hr used is less than the maximum BTU/hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

WARNING: If the area in which the heater may be operated is smaller than that defined as an 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/NFPA 54*, Air for Combustion and Ventilation, or applicable local codes.

Ventilation Air from Inside Building

This fresh air would come from adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12 inches of the wall connecting the two spaces (see options 1 and 2, Figure 2). You can also remove door into adjoining room (see option 3, Figure 2). Follow the National Fuel Gas Code NFPA 54/ANSI Z223.1. *Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

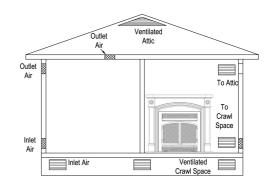


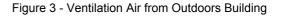


Ventilation Air from Outdoors

Provide extra fresh air by using ventilation grills or duct. You must provide two permanent openings: one within 12 inches of the ceiling and one within 12 inches of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the National Fuel Gas Code NFPA 54/ ANSI Z223.1. Air for Combustion and Ventilation for required size of ventilation grills or ducts.

A IMPORTANT: Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent. Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.





INSTALLATION

A NOTICE: This heater is intended for use as supplemental heat. Use this heater along with your primary heating

system. Do not install this heater as your primary heat source. If you have a central heating system, you may run

system's circulating blower while using heater. This will help circulate the heat throughout the house.

WARNING: A qualified technician must install heater. Follow all local codes.

WARNING: Never install the heater

- in a bedroom or bathroom
- in a recreational vehicle
- Where curtains, furniture, clothing, or other flammable objects are less than 42 inches from the front, top or sides
 of the heater.
- in high traffic areas
- in windy or drafty areas

A CAUTION: This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls.

WARNING: Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling and adjoining side and back walls.

IMPORTANT: Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See *Air for Combustion and Ventilation*, pages 7 through 9.

CHECK GAS TYPE

Use only the type of gas indicated on the plate. If your gas supply cannot meet that requirement, do not install heater.

CLEARANCES TO COMBUSTIBLES

Carefully follow the instructions below. This heater is a wall mount unit designed to mount directly on a wall.

IMPORTANT: You must maintain minimum wall and ceiling clearances during installation. The minimum clearances are shown in Figure 4. Measure from outermost point of heater.

Minimum Wall and Ceiling Clearances (see Figure 4)

- A. Clearances from outermost point of heater to any combustible side wall should not be less than 12 inches.
- B. Clearances from the heater to the ceiling should not be less than 48 inches.

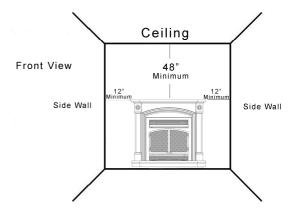


Figure 4 – Minimum Clearance to Wall and Ceiling

CONNECTING TO GAS SUPPLY

A WARNING: A qualified technician must connect heater to gas supply. Follow all local codes.

A WARNING: This appliance requires a 3/8 in. NPT inlet connection to pressure regulator (see Figure 5).

CAUTION: Never connect heater directly to the gas supply. This heater requires an external regulator (not supplied). The external regulator between the gas supply and heater must be installed.

INSTALLATION ITEMS NEEDED

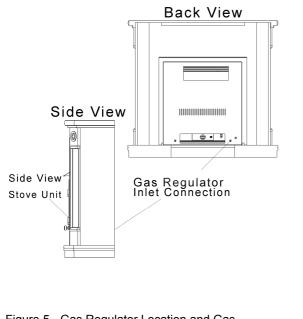
Before installing heater, make sure you have the items listed below.

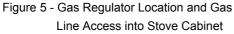
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve*
- test gauge connection**
- sediment trap
- tee joint
- pipe wrench
- Flexible Gas hose (check local code)

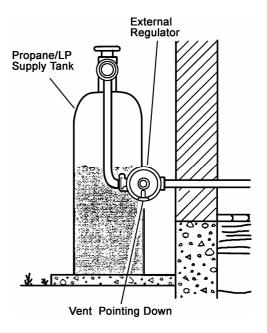
A CSA design-certified equipment shutoff valve with 1/8 in. NPT tap is an acceptable alternative to test gauge connection. Purchase the optional CSA design certified equipment shutoff valve from your dealer.

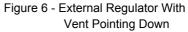
WARNING: Never connect heater to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

The installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11 and 14 inches of water column for propane and between 5 and 10.5 inches of water column for natural gas. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 6. Pointing the vent down protects it from freezing rain or sleet.









CAUTION: Use only new black iron or steel pipe. Internally tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of ½ inch diameter or greater to allow proper volume gas to heater. If pipe is too small, loss of pressure will occur. Installation must include an equipment shutoff valve, union, and plugged 1/8-inch NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see Figure 7).

IMPORTANT: Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance. Apply pipe joint sealant lightly to male threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.

CAUTION: Use pipe joint sealant that is resistant to gas (PROPANE or NG). We recommend that you install a sediment trap in a supply line as shown in Figure 7. Locate sediment trap where it is within reach for cleaning and not likely to freeze. Install in the piping system between fuel supply and heater. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed incorrectly, heater may not run properly.

CAUTION: Avoid damage to regulator. Hold gas regulator with wrench when connecting into gas piping and/or fittings. NG Models: 5 in. to 10.5 in. W.C. Gas supplier provide external regulator for natural gas.

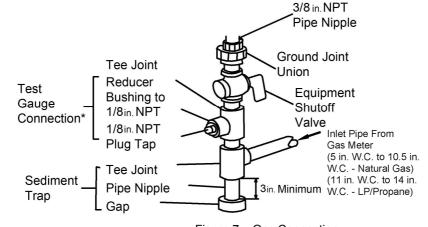


Figure 7 – Gas Connection

*Purchase the optional CSA design-certified equipment shut off valve from your dealer. See "Accessories". ** Minimum inlet pressure for purpose of input adjustment.

CAUTION: Two gas line installations at the same time are forbidden. You are not allowed to open the cover while the machine is running.

Heater is pre-set at factory for propane gas, no changes are required for connecting to propane. Only a qualified installer or service technician can perform gas selection and connecting to gas supply.

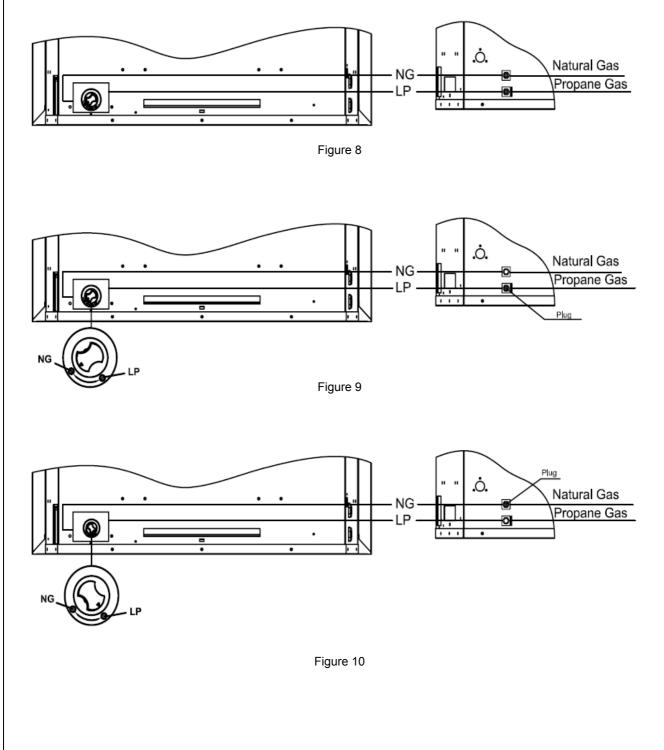
A CAUTION: To avoid gas leakage at the inlet of regulator, a qualified installer or service technician must use hex plug with sealant.

For changing from propane to natural gas supply

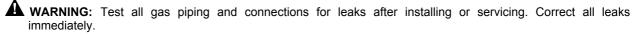
- 1. Remove bottom screw from cover plate, see Figure 8, and rotate to expose gas selection valve.
- 2. For NATURAL GAS, press in knob using a flat screw driver with a blade the width of a quarter and turn knob clockwise until the knob locks into the NG position (see Figure 9). Selection valve must be locked into the NG position. Do not operate heater between locked positions!
- 3. Rotate and close cover over gas selection valve and reinstall screw.
- 4. Remove hex plug (with wrench provided) from natural gas inlet of regulator and install into LP inlet of regulator, use thread sealant to assure there are no leaks.

For changing from natural gas supply to propane supply

- 1. Remove bottom screw from cover plate, see figure 8, and rotate to expose gas selection valve.
- 2. For PROPANE GAS, press in knob using a flat screw driver with a blade the width of a quarter and turn knob counterclockwise
 until the knob locks into the LP position (see Figure 10). Selection valve must be locked into either the LP position or the NG position.
- 3. Rotate and close cover over gas selection valve and reinstall screw.
- 4. Remove hex plug from LP gas inlet of regulator and install into NG inlet of regulator, use thread sealant to assure there are no leaks.



CHECKING GAS CONNECTIONS





WARNING: Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks immediately.

A CAUTION: Make sure external regulator has been installed between gas supply and heater. See guidelines under "Connecting to Gas Supply" (page 11).

Pressure Testing Gas Supply Piping System Test Pressures In Excess Of 1/2 PSIG (3.5kPa)

- 1. Disconnect heater with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1 / 2 psig will damage heater regulator.
- 2. Cap off open end of gas pipe where equipment shutoff valve was connected.
- 3. Pressurize supply piping system by either using compressed air or opening gas supply tank valve.
- 4. Check all joints of gas supply piping system. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks immediately.
- 6. Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

- 1. Close equipment shutoff valve (see Figure 11).
- 2. Pressure supply piping system by either using compressed air or opening gas supply tank valve.
- 3. Check all joints from gas meter to equipment shutoff valve (see Figure 12). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 4. Correct all leaks immediately.

Pressure Testing Heater Gas Connections

- 1. Open equipment shutoff valve (see Figure 11).
- 2. Open gas supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- 4. Check all joints from equipment shutoff valve to control valve (Figure 12). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Light heater (see Operation, page 16). Check all other Internal joints for leaks.
- 6. Turn off heater (see To Turn off Gas to Appliance, Page 18).

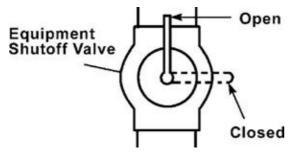


Figure 11 - Equipment Shutoff Valve

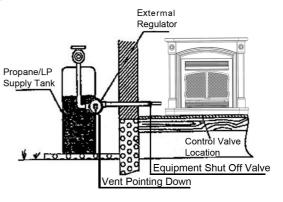


Figure 12- Checking Gas Joints

INSTALLING LOGS

A WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

CAUTION: After installation and periodically thereafter, check to ensure that no flame comes in contact with any log. With the heater set to high, check to see if flames contact any log. If so, reposition logs according to the log installation instructions in this manual. Flames contacting logs will create soot.



All logs



STEP 2: Install log 2 onto the two slots in left plate. And install log 3 onto the two slots in right plate.



STEP 4: Insert the recessed holes bottom of log 5 onto the pins on log 2 and 4. Insert the recessed holes bottom of log 6 onto the pins on log 1 and 3.



Figure 13-Installing Log Set

IMPORTANT: Make sure log does not cover any burner ports (see Figure 13). It is very important. To install the logs exactly as instructed. Do not modify logs. Only use logs supplied wall heater.



STEP 1: Install log 1 onto the two slots in middle plate.



STEP 3: Install log 1 onto the two slots in front plate.

OPERATION

FOR YOUR SAFETY READ BEFORE LIGHTING

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

A NOTICE: During initial operation of new heater, burning logs will give off a paper burning smell. Orange flame will also be present. Open a window to vent smell. This will last only few hours.

A CAUTION: Do not try to adjust heating levels by using the equipment shutoff valve.

- A. This appliance has a pilot which must be lit by the electronic ignitor. 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 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
- C. Use only your hand to push control. Never use tools. If the appliance does not operate, don't try to repair it. Call a qualified service technician or gas supplier. Forced or attempted repair may result in fire or explosion.
- 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.

Note: Please wait one minute after shutting off fireplace to allow the control valve to reset before starting again.

LIGHTING INSTRUCTIONS

Unscrew ignitor cap and install a AAA battery with the + pointing out. Replace cap.

- 1. **STOP!** Read the safety information on page 16.
- 2. Warning: You must operate this heater with the screen in place. Make sure screen is installed before running heater.
- 3. Turn control knob clockwise to the OFF position, see Figure 14.
- 4. Wait five (5) minutes to clear out any gas. Then smell for gas around heater and near floor. If you smell gas, **STOP!** Follow "B" in the safety information on Warnings plate. If you don't smell gas, go to the next step.
- 5. Turn control knob counterclockwise to the PILOT position. Keep control knob pressed in for five (5) seconds. Note: You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds. This will allow air to bleed from the gas system. If control knob does not pop up when released, contact a qualified service person or gas supplier for repairs.
- 6. With control knob pressed in, push down and release ignitor button. This will light pilot. The pilot is attached to the rear of the front burner. If needed, keep pressing ignitor button until pilot lights. **Note:** If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match.
- Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Note: If pilot goes out, repeat steps 3 through 7. This heater has a safety interlock system. Wait one (1) minute before lighting pilot again.
- 8. Warning Make sure while the input gas type is NG, pilot burner NG ignites; while the input type is LP, pilot burner LP ignites. Note: If you find anything abnormal in this step, repeat steps 2 through 8.
- 9. Turn control knob counterclockwise to the desired heating level. The main burner should light. Set control knob to any heat level between HI and LO (5 –1).

THERMOSTATIC CONTROL OPERATION

The thermostatic control used on this model differs from standard thermostats. Standard thermostats simply turn the burner on and off. The thermostat used on this heater senses the room temperature. At times the room may exceed the set temperature. If so, the burner will shut off. The burner will cycle back on when room temperature drops below the set temperature. The control knob can be set to any comfort level.

Note: The thermostat sensing bulb measures the temperature (depending on housing construction, the thermostatic control used on this model differs from standard thermostats. Standard thermostats simply turn the burner on and off. The thermostat used on this heater senses the room temperature. At times the room may exceed the set temperature. If so, the burner will shut off. The burner will cycle back on when room temperature drops below the set temperature. The control knob can be set to any comfort level between HIGH (5) and LOW (1).

TO TURN OFF GAS TO APPLIANCE

Shut off heater

Turn Control Knob clockwise
to the OFF position. Do not force.

MANUAL LIGHTING PROCEDURE (Match light)

- 1. Remove screen by lifting and pulling forward.
- 2. Follow steps 1 through 5 under Lighting Instructions.
- 3. With Control Knob in PILOT position, strike match, and hold near pilot. Press in Control Knob; pilot should light.
- 4. Keep Control Knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release Control Knob.
- 5. Make sure the heater screen is in place before operating heater.

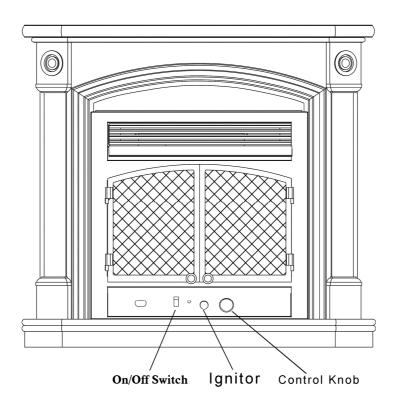


Figure 14 - ON/OFF Switch location

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

- 1. Turn control knob to pilot position
- 2. Inspect pilot flame and refer to Figure 15 and 16.
- Figure 15shows a correct pilot flame pattern.
- Figure 16 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down.
- If the pilot flame is incorrect, as shown in Figure 16. Turn heater off (see To Turn off Gas to Appliance, page 18) See troubleshooting, page 21-23.

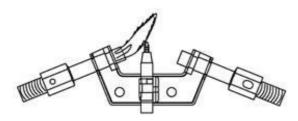


Figure 15 -Correct Pilot Flame Pattern

BURNER FLAME PATTERN

Figure 17 shows a correct burner flame pattern. Figure 18 shows an incorrect burner flame pattern. If pilot flame pattern is incorrect, as shown in Figure 18:

Turn heater off (see "To Turn off Gas to Appliance," page 18).

See Troubleshooting, pages 21 through 23.



Figure 17- Correct Flame Pattern with Control Knob Set to High Flame (5)

More Than 8" Above Top of log



Figure 16 -Incorrect Pilot Flame Pattern

Figure 18 - Incorrect Flame Pattern with Control Knob Set to High Flame (5)

BURNER PRIMARY AIR HOLES

Air is drawn into the burner through the holes in the fitting at the entrance to the burner. These holes may become blocked with dust or lint. Periodically inspect these holes for any blockage and clean as necessary. Blocked air holes will create soot.

CLEANING AND MAINTENANCE

A WARNING: Failure to keep primary air openings of burners clean may result in sooting and property damage.

A CAUTION: You must keep control areas, burner, and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, bedding material, pet hair, etc.

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt and lint. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every 500 hours of operation or every three months.

MAIN BURNER

Periodically inspect all burner flame holes with the heater running. All slotted burner flame holes should be open with yellow flame present. All round burner flame holes should be open with a small blue flame Present. Some burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off heater and let cool, either remove blockage or replace burner. Blocked burner flame holes will create soot.

CLEANING BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

We recommend that you clean the unit every three months or after 2500 hours of operation. We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. You can use a vacuum cleaner in the blow position. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

- 1. Shut off the unit, including the pilot. Allow the unit to cool for at least thirty minutes.
- 2. Inspect burner, pilot and primary air inlet holes on injector holder for dust and dirt (see Figure 19).
- 3. Blow air through the ports/slots and holes in the burner.
- 4. Check the injector holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint, or pet hair with a soft cloth or vacuum cleaner nozzle.
- 5. Blow air into the primary air holes on the injector holder.
- In case any large clumps of dust have now been pushed into the burner. Repeat steps 3 and 4. Clean the pilot assembly also.

CLEANING ODS/PILOT

Use a vacuum cleaner, pressurized air, or a small, soft bristled brush to clean.

A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is as mall pilot air inlet hole about two inches from where the pilot flame comes out of the pilot assembly (see Figure 20). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available

CABINET

Air Passageways

• Use a vacuum cleaner or pressurized air to clean.

- Exterior
 - Use a soft cloth dampened with a mild soap and water mixture.
 - Wipe the cabinet to remove dust.

LOGS

- If you remove logs for cleaning, refer to Installing Logs to properly replace logs.
- Replace log(s) if broken or chipped (dime-size or larger).

BLOWER (OPTIONAL ACCESSORY)

Refer to model FIB100 manual.

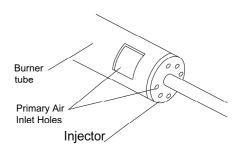


Figure 19 Inject or holder on outlet burner tube

Pilot Assembly

NG pilot Air Inlet Hol

LP pilot Air Inlet Hole

Figure 20

TROUBLESHOOTING

WARNING: If you smell gas

- Shut off gas supply.
- 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.

IMPORTANT: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors.

WARNING: Make sure that power is turned off before proceeding.

WARNING: Turn off and let cool before servicing. Only a qualified service person should service and repair heater.

A CAUTION: Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

OBSERVED PROBLEM	PROBABLE CAUSE	REMEDY
	1. Ignitor electrode is positioned wrong.	1. Replace electrode.
When ignitor button	2. Ignitor electrode is broken.	2. Replace electrode.
is pressed in, there	3. Ignitor electrode is not connected to	3. Reconnect ignitor cable.
is no spark at ODS/pilot	ignitor cable.	
	4. Ignitor cable is pinched or wet.	4. Free ignitor cable if pinched
		by any metal or tubing. Keep ignitor
		cable dry.
	5. Damaged ignitor cable.	5. Replace ignitor cable.
	6. Bad piezo ignitor.	6. Replace piezo ignitor.
	7. Low battery.	7. Replace battery.
	1. Gas supply is turned off or equipment	1. Turn on gas supply or open
When ignitor button is	shutoff valve is closed.	equipment shutoff valve.
pressed in, there is a spark	2. Control knob not fully pressed in while	2. Fully press in control knob while
at ODS/pilot but no pilot	pressing ignitor button.	pressing ignitor button.
flame present.	3. Air in gas lines (new installation or	3. Continue holding down control knob
	recent gas interruption).	for 30 seconds to remove air. Repeat
		igniting operation until air is removed.
	4. ODS/pilot is clogged.	4. Clean ODS/pilot (see Cleaning and
		Maintenance Page 20) or replace
		ODS/pilot assembly.
	5. Incorrect inlet gas pressure or inlet	5. Check inlet gas pressure or replace
	regulator is damaged.	inlet gas regulator.
	6. Depleted gas supply.	6. Contact local propane/LP Gas
		Company.

PROBABLE CAUSE	REMEDY
1. Control knob is not fully pressed	1. Press in control knob fully.
	2. After ODS/pilot lights, keep control
	knob pressed in 30 seconds.
	 Fully open equipment shutoff valve.
	 Hands tighten until snug, and then
-	tighten ¼ turn more.
	5. Replace thermocouple.
6. Control valve damaged.	6. Contact Customer Service.
1. Burner orifice is clogged.	1. Burner orifice (see Cleaning and
	maintenance Page 20) or replace
	burner orifice.
2. Burner orifice diameter is too small.	2. Contact Customer Service.
3. Inlet gas pressure is too low.	3. Contact your gas supplier.
1. Manifold pressure is too low.	1. Contact your gas supplier.
2. Burner orifice is clogged.	2. Clean burner (see cleaning and
	maintenance Page 20) or Contact
	Customer Service.
1 Burner orifice is clogged or	1. Clean burner orifice (see cleaning
	and maintenance Page 20) replace.
_	 Contact Dealer or Customer Service.
-	 Replace gas regulator.
3. Gas regulator is damaged.	3. Replace gas regulator.
1. Not enough air.	1. Check burner for dirt and debris. If
	found, clean burner (see Cleaning and
	Maintenance Page 20).
2. Gas regulator is defective.	2. Replace gas regulator.
3. Inlet gas pressure is too low.	3. Contact your gas supplier.
1. Foreign matter between	1. Take apart gas tubing and remove
control valve and burner.	foreign matter.
2. Gas leak. (See Warning	2. Locate and correct all leaks (see
Statement at top of page 21).	"Checking Gas Connections", page 14
1	-
	 Control knob is not fully pressed in. Control knob is not pressed in long enough. Equipment shutoff valve is not fully open. Thermocouple connection is loose. Thermocouple damaged Control valve damaged. Burner orifice is clogged. Burner orifice diameter is too small. Inlet gas pressure is too low. Burner orifice is clogged. Burner is damaged. Gas regulator is damaged. Not enough air. Gas regulator is defective. Inlet gas pressure is too low. Foreign matter between control valve and burner. Gas leak. (See Warning

OBSERVED PROBLEM	PROBABLE CAUSE	REMEDY
Slight smoke or odor during	1. Residues from manufacturing	1. Problem will stop after a few hours of
initial operation	process.	operation.
Heater produces a whistling	1. Turning control knob to high (5)	1. Turn control knob to low (1) position
noise when burner is lit.	position when burner is cold.	and let warm up for a minute.
	2. Air in gas line.	2. Operate burner until air is removed
		from line. Have gas line checked by
		local propane/LP Gas Company.
	3. Air passageways on heater are	3. Observe minimum installation
	blocked.	clearances (Figure 4, page 10)
	4. Dirty or partially clogged burner	5. Clean burner (see Cleaning
	orifice.	and Maintenance Page 20) or replace
		burner orifice.
Heater produces a	1. Metal is expanding while heating	1. This is common with most heaters. If
clicking/ticking	or contracting while cooling.	noise is excessive, contact qualified
noise just after burner is		service technician.
lit or shut off.		
White powder residue	1. When heated, the vapors from	1. Turn heater off when using furniture
forming within burner box or	furniture polish, wax, carpet cleaners	polish, wax, and carpet cleaner or similar
on adjacent walls or furniture	etc., turn into white powder residue.	products.
Heater produces	1. Heater is burning vapors from	1. Ventilate room. Stop using odor causing
unwanted odors.	paint, hair spray, glues, etc. (See	products while heater is running.
	IMPORTANT statement page 21).	
	2. Gas leak. See Warning	2. Locate and correct all leaks (see
	Statement at the top of page 21.	Checking Gas Connections, page 14).
	3. Low fuel supply.	3. Refill supply tank (Propane/ LP models).
Heater shuts off in use (ODS	1. Not enough fresh air is available.	1. Open window and/or door for
operates).		ventilation.
	2. Low line pressure.	2. Contact local gas supplier.
	3. ODS/pilot is partially clogged.	3. Clean ODS/pilot (see Cleaning and
		Maintenance, page 20).
Gas odor exists even	1. Gas leak. See Warning	1. Locate and correct all leaks
when control knob is in OFF	Statement at top of page	(see "Checking Gas Connections",
position.	21.	page 14).
	2. Control valve is defective.	2. Contact customer service.
Moisture/condensation	1. Not enough combustion/	1. Refer to "Air for Combustion and
noticed on windows.	ventilation air.	Ventilation" requirements page 7.

REPLACEMENT PARTS

NOTE: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

PARTS UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement parts, call Customer Service toll free at (814)643-1775 for referral information.

When calling Customer Service or your dealer, have ready:

- Your name
- Your address
- Model and serial number of your heater
- How heater was malfunctioning
- Type of gas used (Propane/LP or Natural gas/NG)
- Purchase date
- Usually, we will ask you to return the defective part to the factory

PARTS NOT UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement part(s) call Customer Service toll free at (814)643-1775 for referral information.

When calling Customer Service have ready:

- Model number of your heater
- The replacement part number

World-Marketing of American, Inc. P.O. Box 192, Rt. 22 West MillCreek, PA 17060

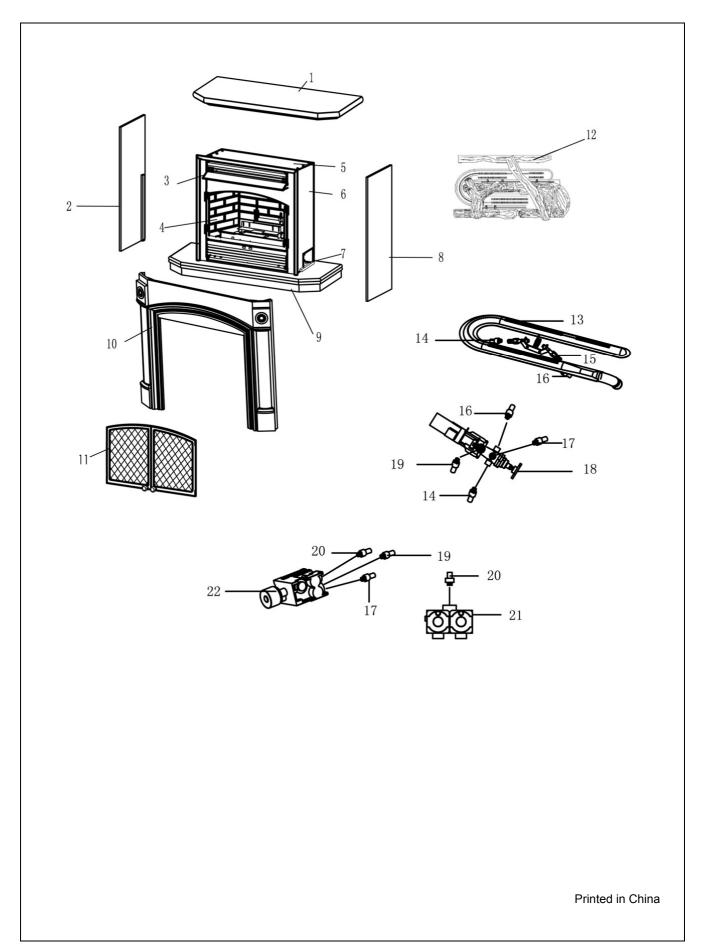
KOZY-WORLD PHONE NUMBER :(814)643-1775

http://www.worldmkting.com

PARTS LIST

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under Replacement Parts on page 24 of this manual.

Key No.	Part Number	Description	QTY
1	FB-01AM	Top Panel	1
2	FB-04AM	Side Panel	1
3	FHL008-02	Hood	1
4	FBB201	Fire Box	1
5	FHL001-01D	Top Panel	1
6	FHL001-02D	Body Wrap Panel	1
7	FHL001-03D	Bottom Panel	1
8	FB-05AM	Side Panel	1
9	FB-03AM	Base	1
10	FB-02AM	Upper Panel	1
11	FBB104	Screen	1
12	FBB500	Logs	1
13	FBD400T600	Burner Assembly	1
14	FBD400T850	ODS Outlet Tube	1
15	NDD0308 x 400	ODS	1
16	FBD400T840	ODS Outlet Tube	1
17	FBD400T830	ODS Inlet Tube	1
18	YDF06	Gas Selector Valve Assembly	1
19	FBD400T810	Outlet Tube	1
20	FBD400T820	Inlet Tube	1
21	RV83FI-4/9	Regulator	1
22	SIT545-200	T-Stat Valve	1



Kozy-World[®]

VENT-FREE GAS FIREPLACE GFD4360

WARNING: This appliance is equipped for (Natural and Propane) gas. Field conversion is not permitted other than between natural or propane gases.





A CAUTION – FOR YOUR SAFETY

A WARNING: IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY. OR LOSS OF LIFE.

Do not store or use gasoline or other flammable vapors and liquids in 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 ٠ 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.

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. Refer to Air for Combustion and Ventilation section on page 7 of this manual.

INSTALLER: DO NOT DISCARD THIS MANUAL – LEAVE FOR HOMEOWNER'S FUTURE REFERENCE.

This appliance may be installed in an aftermarket, permanently located manufactured (mobile) home, where not prohibited by local codes. This appliance is for use with the type of gas indicated on the rating plate only. This appliance is not convertible for use with other gases.



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A WARNING: READ THE INSTALLATION & OPERATION INSTRUCTIONS BEFORE USING THIS APPLIANCE.

IMPORTANT: Read instructions and warnings carefully before starting installation. Failure to follow these instructions may result in a possible fire hazard and will void the warranty.

PRODUCT SPECIFICATIONS

MODEL NO.	GFD4360				
Input Rating	32,000 BTU/Hr	32,000 BTU/Hr			
Gas Type	Natural	LP/Propane			
Ignition	Electronic Piezo	Electronic Piezo			
Manifold Pressure	4 in. W.C.	9 in. W.C.			
Inlet Gas Pressure					
Maximum	10.5 in.	14 in.			
Minimum	5 in.	11 in.			
Dimensions, inches (H x W x D)					
Heater	45.59in. x 50 in. x 16.87 in.				
Carton	59 1/5in. ×54 3/4in. ×22 1/4in.				
Weight, Ibs	s				
Stove	171 205				
Shipping					

IMPORTANT SAFETY INFORMATION

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this heater. Improper use of this heater can cause serious injury or death from burns, fire, explosion, electrical shock, and carbon monoxide poisoning.

Only a qualified installer, service agent, or local gas supplier may install and service this product.

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

A WARNING: This appliance is for use with only the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

CARBON MONOXIDE POISONING: Early signs of carbon monoxide poisoning resemble the flu with headaches, dizziness, or nausea. If you have these signs, the heater may not be working properly. Get fresh air immediately! Have heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease, people who are anemic, those under the influence of alcohol, and those living at high altitudes.

NATURAL AND PROPANE/LP GAS: Natural and Propane/LP gases are odorless. An odor-making agent is added to the gas. The odor helps you detect a gas leak. However, the odor added to the gas can fade. Gas may be present even though no odor exists. Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to operating this heater safely.

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

A WARNING: Do not allow fans to blow directly into fireplace. Avoid any drafts that alter burner flame patterns.

WARNING: Do not use a blower insert, heat exchange insert or other accessory not approved for use with this heater.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies. Do not place clothing or other flammable material on or near the appliance. Never place any objects in the heater. Heater becomes very hot when running heater. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Fireplace will remain hot for a time after shutdown. Allow surfaces to cool before touching. Carefully supervise young children when they are in the room with the heater.

You must operate this heater with the heater screen in place. Keep the heater area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

- 1. Do not place Propane/LP supply tank(s) inside any structure. Place Propane/LP supply tank(s) outdoors.
- 2. This heater needs fresh air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if not enough fresh air is available. See *Air for Combustion and Ventilation*, pages 7 through 9. If heater keeps shutting off, see *Troubleshooting*, pages 21 through 23.
- 3. Keep all air openings in front and bottom of heater clear and free of debris. This will ensure enough air for proper combustion.
- 4. If heater shuts off. Do not relight until you provide fresh, outside air. If heater keeps shutting off, have it serviced.
- 5. Do not run heater:
 - Where flammable liquids or vapors are used or stored.
 - Under dusty conditions.
- 6. Before using furniture polish, wax, carpet cleaner, or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls or furniture.

- 7. Always run heater with control knob at PILOT/IGN, LOW or HIGH locked positions. Never set control knob between locked positions. Poor combustion and higher levels of carbon monoxide may result.
- 8. Do not use heater if any part has been under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 9. Turn off and unplug heater and let cool before servicing. Only a qualified service person should service and repair heater.
- 10. Operating heater above elevations of 4,500 feet could cause pilot outage.
- 11. To prevent performance problems, do not use propane/LP fuel tank of less than 100 lbs. capacity.
- 12. This heater should not be installed in a bedroom or bathroom.
- 13. Do not use this heater as a wood-burning heater. Use only the logs provided with the heater.
- 14. To prevent the creation of soot, follow the instructions in Cleaning and Maintenance (page 20).
- 15. Do not add extra logs or ornaments such as pine cones, vermiculite, or rock wool. Using these added items can cause sooting. Do not add lava rock around base. Rock and debris could fall into the control area of heater. After servicing, always replace screen before operating heater.
- 16. This heater is designed to be smokeless. If logs ever appear to smoke, turn off heater and call a qualified service person. Note: During initial operation, slight smoking could occur due to log curing and the heater burning manufacturing residues.

QUALIFIED INSTALLING AGENCY

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed only by a qualified agency. The term "qualified agency" means any individual, firm, corporation, or company that either in person or through a representative is engaged in and is responsible for:

- a) Installing, testing, or replacing gas piping or
- b) Connecting, installing, testing, repairing, or servicing equipment; that is experienced in such work; that is familiar with all precautions required; and that has complied with all the requirement of the authority having jurisdiction.

PRODUCT FEATURES

SAFETY PILOT

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. ODS/pilot shuts off the heater if there is not enough fresh air.

PIEZO IGNITION SYSTEM

This heater is equipped with an electronic piezo control system. This system requires AAA batteries (provided).

THERMOSTAT HEAT CONTROL

The control automatically cycles the burner on and off to maintain a desired room temperature. See page 17.

DUAL FUEL CAPABLE

Your heater is equipped to operate on either Propane or Natural gas. The heater is shipped from the factory ready for connecting to Propane. The heater can easily be changed to Natural gas by having your qualified installer follow the instructions on page 12 & 13 and the markings on the heater.

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the

Commonwealth of Massachusetts. Sellers of unvented propane or natural gas-fired supplemental room

heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

In the State of Massachusetts, unvented propane or natural gas-fired space heaters shall be prohibited in bedrooms and bathrooms.

In the State of Massachusetts the gas cock must be a T-handle type. The State of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

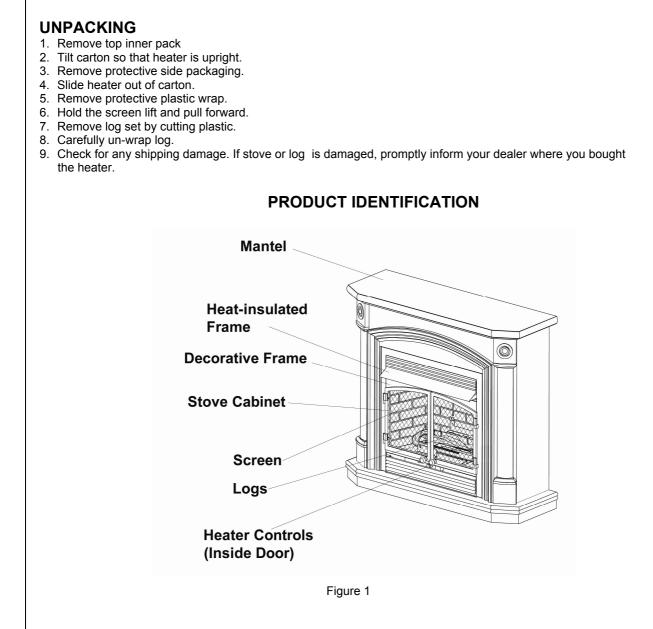
LOCAL CODES

Install and use heater with care. Follow all codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code*, ANSI Z223.1, also known as NFPA 54*.

*Available from:

American National Standards Institute, Inc. 1430 Broadway New York, NY 10018 National Fire Protection Association, Inc. 1 Battery march Park Quincy, MA 02269-9101

This heater is designed for vent-free operation. State and local codes in some areas prohibit the use of vent-free heaters.



WATER VAPOR: A BY-PRODUCT OF UNVENTED ROOM HEATERS

Water vapor is a by-product of gas combustion. An unvented room heater produces approximately one (1) ounce (30ml) of water for every 1,000 BTUs (.3kWs) of gas input per hour. An unvented room heater is recommended as a supplemental heater (a room) rather than a primary heat source (an entire house). In most supplemental heat applications, the water vapor does not create a problem. In most applications, the water vapor enhances the low humidity atmosphere experienced during cold weather. The following steps will help insure that water vapor does not become a problem:

- 1. Be sure the heater is the proper size for the application, including adequate combustion air and circulation air.
- 2. If there is high humidity, the dehumidifier may be used to help lower the water vapor content of the air.
- 3. Do not use an unvented room heater as the primary heat source.

AIR FOR COMBUSTION AND VENTILATION

WARNING: This heater should not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

PRODUCING ADEQUATE VENTILATION

The following are excerpts from National Fuel Gas Code, NFPA 54/ANSI Z223.1, Section 5.3, Air for Combustion and Ventilation. All spaces in homes fall into one of the three following ventilation classifications:

- 1. Unusually Tight Construction
- 2. Unconfined Space
- 3. Confined Space

The information on pages 7 through 9 will help you classify your space and provide adequate ventilation.

Confined and Unconfined Space

The National Fuel Gas Code, ANSI Z223.1 defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour (4.8 cubic meters per kw) of the aggregate input rating of all appliances installed in that space and an unconfining space as a space whose volume is not less than 50 cubic feet per 1,000 BTU per hour (4.8 cubic meters 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.

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

• Adjoining rooms are connecting only if there are door less passageways or ventilation grills between them

Unusually Tight Construction

The air that leaks around doors and windows may provide enough fresh air for combustion and ventilation. However, in buildings of unusually tight construction, you must provide additional fresh air.

Unusually tight construction is defined as construction where:

a) walls and ceilings exposed to the outside atmosphere have a continuous water vapor retarder with a rating of one $\frac{-11}{2}$

- perm (6x10 kg per pa-sec-m) or less with openings gasketed or sealed and
- b) Weather stripping has been added on windows that can be opened and on doors <u>and</u>
- 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 penetrations for plumbing, electrical, and gas lines, and at other openings.

If your home meets all of the three criteria above, you must provide additional fresh air. See "Ventilation Air from Outdoors" (page 9). If your home does not meet all of the three criteria above, proceed to "Determining Fresh-Air Flow for Heater Location:

DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

Determining if You Have a Confined or Unconfined Space

Use this worksheet to determine if you have a confined or unconfined space. **Space:** Includes the room in which you will install heater plus any adjoining rooms with door less passageways or ventilation grills between the rooms.

1. Determine the volume of the space Length × Width × Height = cu. ft. (volume of space)

Example: Space size 20 ft. (length) × 16 ft. (width) × 8 ft. (ceiling height) =2560 cu. ft. (volume of space) If additional ventilation to adjoining room is supplied with grills or openings, add the volume of these rooms to the total volume of the space.

2. Divide the space volume by 50 cubic feet to determine the maximum BTU/hr the space can support. (Volume of space) ÷ 50 cu. ft. = (Maximum BTU/hr the space can support)

Example: 2560 cu. ft. (volume of space) ÷ 50 cu. ft. = 51.2 or 51,200 (maximum BTU/hr the space can support)

Add the BTU/hr of all fuel	burning appliand	ces in the	space.		
Vent-free heater	-	BTU/hr			
Gas water heater*		BTU/hr			
Gas furnace		BTU/hr			
Vented gas heater		BTU/hr	Example:		
Gas heater logs		BTU/hr	Gas water heater		30,000 BTU/hr
Other gas appliances*+		BTU/hr	Vent-free heater	+	26,000 BTU/hr
Total =		BTU/hr	Total	=	56,000 BTU/hr

*Do not include direct-vent gas appliances. Direct-vent draws combustion air from the outdoors and vents to the outdoors.

4. Compare the maximum BTU/hr the space can support with the actual amount of BTU/hr used. BTU/hr (maximum the space can support)

BTU/hr (actual amount of BTU/hr used).

3.

Example: 51,200 BTU/hr (maximum the space can support)

56,000 BTU/hr (actual amount of BTU/hr used)

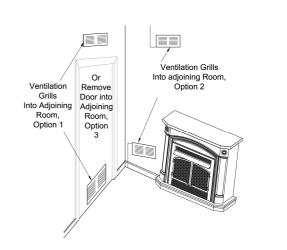
The space in the above example is a confined space because the actual BTU/hr used is more than the maximum BTU/hr the space can support. You must provide additional fresh air. Your options are as follows:

- Rework worksheet, adding the space of an adjoining room. If the extra space provides an unconfined space, remove door to adjoining room or add ventilation grills between rooms. See "Ventilation Air from Outdoors," page 9.
- b) Vent room directly to the outdoors. See "Ventilation Air from Outdoors", Page 9.
- c) Install a lower BTU/hr heater if lower BTU/hr size makes room unconfined. If the actual BTU/hr used is less than the maximum BTU/hr the space can support, the space is an unconfined space. You will need no additional fresh air ventilation.

WARNING: If the area in which the heater may be operated is smaller than that defined as an 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/NFPA 54*, Air for Combustion and Ventilation, or applicable local codes.

Ventilation Air from Inside Building

This fresh air would come from adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12 inches of the wall connecting the two spaces (see options 1 and 2, Figure 2). You can also remove door into adjoining room (see option 3, Figure 2). Follow the National Fuel Gas Code NFPA 54/ANSI Z223.1. *Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

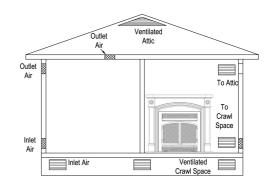


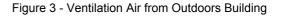


Ventilation Air from Outdoors

Provide extra fresh air by using ventilation grills or duct. You must provide two permanent openings: one within 12 inches of the ceiling and one within 12 inches of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the National Fuel Gas Code NFPA 54/ ANSI Z223.1. Air for Combustion and Ventilation for required size of ventilation grills or ducts.

A IMPORTANT: Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent. Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.





INSTALLATION

A NOTICE: This heater is intended for use as supplemental heat. Use this heater along with your primary heating

system. Do not install this heater as your primary heat source. If you have a central heating system, you may run

system's circulating blower while using heater. This will help circulate the heat throughout the house.

WARNING: A qualified technician must install heater. Follow all local codes.

WARNING: Never install the heater

- in a bedroom or bathroom
- in a recreational vehicle
- Where curtains, furniture, clothing, or other flammable objects are less than 42 inches from the front, top or sides
 of the heater.
- in high traffic areas
- in windy or drafty areas

A CAUTION: This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls.

WARNING: Maintain the minimum clearances. If you can, provide greater clearances from floor, ceiling and adjoining side and back walls.

IMPORTANT: Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form from too much moisture. See *Air for Combustion and Ventilation*, pages 7 through 9.

CHECK GAS TYPE

Use only the type of gas indicated on the plate. If your gas supply cannot meet that requirement, do not install heater.

CLEARANCES TO COMBUSTIBLES

Carefully follow the instructions below. This heater is a wall mount unit designed to mount directly on a wall.

IMPORTANT: You must maintain minimum wall and ceiling clearances during installation. The minimum clearances are shown in Figure 4. Measure from outermost point of heater.

Minimum Wall and Ceiling Clearances (see Figure 4)

- A. Clearances from outermost point of heater to any combustible side wall should not be less than 12 inches.
- B. Clearances from the heater to the ceiling should not be less than 48 inches.

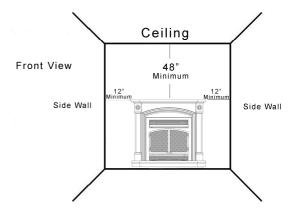


Figure 4 – Minimum Clearance to Wall and Ceiling

CONNECTING TO GAS SUPPLY

A WARNING: A qualified technician must connect heater to gas supply. Follow all local codes.

A WARNING: This appliance requires a 3/8 in. NPT inlet connection to pressure regulator (see Figure 5).

CAUTION: Never connect heater directly to the gas supply. This heater requires an external regulator (not supplied). The external regulator between the gas supply and heater must be installed.

INSTALLATION ITEMS NEEDED

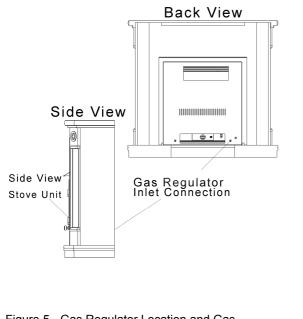
Before installing heater, make sure you have the items listed below.

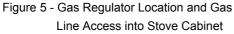
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve*
- test gauge connection**
- sediment trap
- tee joint
- pipe wrench
- Flexible Gas hose (check local code)

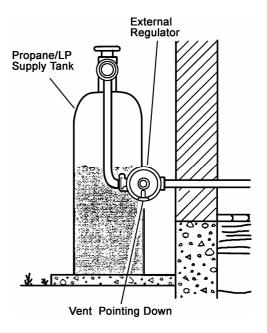
A CSA design-certified equipment shutoff valve with 1/8 in. NPT tap is an acceptable alternative to test gauge connection. Purchase the optional CSA design certified equipment shutoff valve from your dealer.

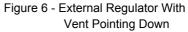
WARNING: Never connect heater to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

The installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11 and 14 inches of water column for propane and between 5 and 10.5 inches of water column for natural gas. If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 6. Pointing the vent down protects it from freezing rain or sleet.









CAUTION: Use only new black iron or steel pipe. Internally tinned copper tubing may be used in certain areas. Check your local codes. Use pipe of ½ inch diameter or greater to allow proper volume gas to heater. If pipe is too small, loss of pressure will occur. Installation must include an equipment shutoff valve, union, and plugged 1/8-inch NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see Figure 7).

IMPORTANT: Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance. Apply pipe joint sealant lightly to male threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.

CAUTION: Use pipe joint sealant that is resistant to gas (PROPANE or NG). We recommend that you install a sediment trap in a supply line as shown in Figure 7. Locate sediment trap where it is within reach for cleaning and not likely to freeze. Install in the piping system between fuel supply and heater. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed incorrectly, heater may not run properly.

CAUTION: Avoid damage to regulator. Hold gas regulator with wrench when connecting into gas piping and/or fittings. NG Models: 5 in. to 10.5 in. W.C. Gas supplier provide external regulator for natural gas.

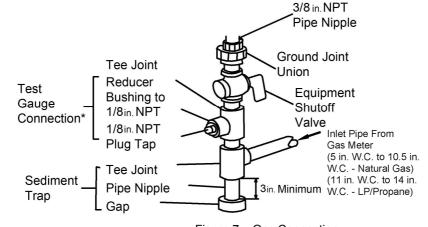


Figure 7 – Gas Connection

*Purchase the optional CSA design-certified equipment shut off valve from your dealer. See "Accessories". ** Minimum inlet pressure for purpose of input adjustment.

CAUTION: Two gas line installations at the same time are forbidden. You are not allowed to open the cover while the machine is running.

Heater is pre-set at factory for propane gas, no changes are required for connecting to propane. Only a qualified installer or service technician can perform gas selection and connecting to gas supply.

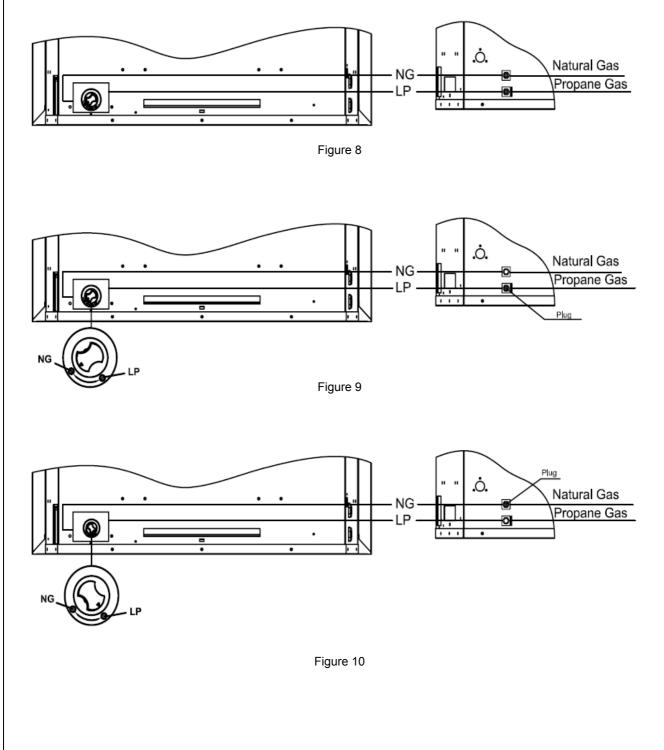
A CAUTION: To avoid gas leakage at the inlet of regulator, a qualified installer or service technician must use hex plug with sealant.

For changing from propane to natural gas supply

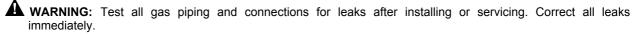
- 1. Remove bottom screw from cover plate, see Figure 8, and rotate to expose gas selection valve.
- 2. For NATURAL GAS, press in knob using a flat screw driver with a blade the width of a quarter and turn knob clockwise until the knob locks into the NG position (see Figure 9). Selection valve must be locked into the NG position. Do not operate heater between locked positions!
- 3. Rotate and close cover over gas selection valve and reinstall screw.
- 4. Remove hex plug (with wrench provided) from natural gas inlet of regulator and install into LP inlet of regulator, use thread sealant to assure there are no leaks.

For changing from natural gas supply to propane supply

- 1. Remove bottom screw from cover plate, see figure 8, and rotate to expose gas selection valve.
- 2. For PROPANE GAS, press in knob using a flat screw driver with a blade the width of a quarter and turn knob counterclockwise
 until the knob locks into the LP position (see Figure 10). Selection valve must be locked into either the LP position or the NG position.
- 3. Rotate and close cover over gas selection valve and reinstall screw.
- 4. Remove hex plug from LP gas inlet of regulator and install into NG inlet of regulator, use thread sealant to assure there are no leaks.



CHECKING GAS CONNECTIONS





WARNING: Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks immediately.

A CAUTION: Make sure external regulator has been installed between gas supply and heater. See guidelines under "Connecting to Gas Supply" (page 11).

Pressure Testing Gas Supply Piping System Test Pressures In Excess Of 1/2 PSIG (3.5kPa)

- 1. Disconnect heater with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures in excess of 1 / 2 psig will damage heater regulator.
- 2. Cap off open end of gas pipe where equipment shutoff valve was connected.
- 3. Pressurize supply piping system by either using compressed air or opening gas supply tank valve.
- 4. Check all joints of gas supply piping system. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks immediately.
- 6. Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

- 1. Close equipment shutoff valve (see Figure 11).
- 2. Pressure supply piping system by either using compressed air or opening gas supply tank valve.
- 3. Check all joints from gas meter to equipment shutoff valve (see Figure 12). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 4. Correct all leaks immediately.

Pressure Testing Heater Gas Connections

- 1. Open equipment shutoff valve (see Figure 11).
- 2. Open gas supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- 4. Check all joints from equipment shutoff valve to control valve (Figure 12). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Light heater (see Operation, page 16). Check all other Internal joints for leaks.
- 6. Turn off heater (see To Turn off Gas to Appliance, Page 18).

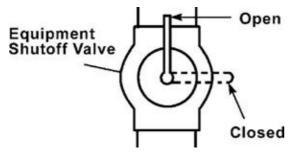


Figure 11 - Equipment Shutoff Valve

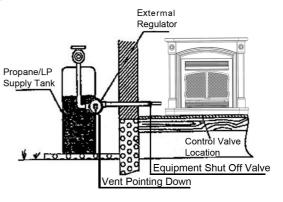


Figure 12- Checking Gas Joints

INSTALLING LOGS

A WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

CAUTION: After installation and periodically thereafter, check to ensure that no flame comes in contact with any log. With the heater set to high, check to see if flames contact any log. If so, reposition logs according to the log installation instructions in this manual. Flames contacting logs will create soot.



All logs



STEP 2: Install log 2 onto the two slots in left plate. And install log 3 onto the two slots in right plate.



STEP 4: Insert the recessed holes bottom of log 5 onto the pins on log 2 and 4. Insert the recessed holes bottom of log 6 onto the pins on log 1 and 3.



Figure 13-Installing Log Set

IMPORTANT: Make sure log does not cover any burner ports (see Figure 13). It is very important. To install the logs exactly as instructed. Do not modify logs. Only use logs supplied wall heater.



STEP 1: Install log 1 onto the two slots in middle plate.



STEP 3: Install log 1 onto the two slots in front plate.

OPERATION

FOR YOUR SAFETY READ BEFORE LIGHTING

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

A NOTICE: During initial operation of new heater, burning logs will give off a paper burning smell. Orange flame will also be present. Open a window to vent smell. This will last only few hours.

A CAUTION: Do not try to adjust heating levels by using the equipment shutoff valve.

- A. This appliance has a pilot which must be lit by the electronic ignitor. 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 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
- C. Use only your hand to push control. Never use tools. If the appliance does not operate, don't try to repair it. Call a qualified service technician or gas supplier. Forced or attempted repair may result in fire or explosion.
- 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.

Note: Please wait one minute after shutting off fireplace to allow the control valve to reset before starting again.

LIGHTING INSTRUCTIONS

Unscrew ignitor cap and install a AAA battery with the + pointing out. Replace cap.

- 1. **STOP!** Read the safety information on page 16.
- 2. Warning: You must operate this heater with the screen in place. Make sure screen is installed before running heater.
- 3. Turn control knob clockwise to the OFF position, see Figure 14.
- 4. Wait five (5) minutes to clear out any gas. Then smell for gas around heater and near floor. If you smell gas, **STOP!** Follow "B" in the safety information on Warnings plate. If you don't smell gas, go to the next step.
- 5. Turn control knob counterclockwise to the PILOT position. Keep control knob pressed in for five (5) seconds. Note: You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds. This will allow air to bleed from the gas system. If control knob does not pop up when released, contact a qualified service person or gas supplier for repairs.
- 6. With control knob pressed in, push down and release ignitor button. This will light pilot. The pilot is attached to the rear of the front burner. If needed, keep pressing ignitor button until pilot lights. **Note:** If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match.
- Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Note: If pilot goes out, repeat steps 3 through 7. This heater has a safety interlock system. Wait one (1) minute before lighting pilot again.
- 8. Warning Make sure while the input gas type is NG, pilot burner NG ignites; while the input type is LP, pilot burner LP ignites. Note: If you find anything abnormal in this step, repeat steps 2 through 8.
- 9. Turn control knob counterclockwise to the desired heating level. The main burner should light. Set control knob to any heat level between HI and LO (5 –1).

THERMOSTATIC CONTROL OPERATION

The thermostatic control used on this model differs from standard thermostats. Standard thermostats simply turn the burner on and off. The thermostat used on this heater senses the room temperature. At times the room may exceed the set temperature. If so, the burner will shut off. The burner will cycle back on when room temperature drops below the set temperature. The control knob can be set to any comfort level.

Note: The thermostat sensing bulb measures the temperature (depending on housing construction, the thermostatic control used on this model differs from standard thermostats. Standard thermostats simply turn the burner on and off. The thermostat used on this heater senses the room temperature. At times the room may exceed the set temperature. If so, the burner will shut off. The burner will cycle back on when room temperature drops below the set temperature. The control knob can be set to any comfort level between HIGH (5) and LOW (1).

TO TURN OFF GAS TO APPLIANCE

Shut off heater

Turn Control Knob clockwise
to the OFF position. Do not force.

MANUAL LIGHTING PROCEDURE (Match light)

- 1. Remove screen by lifting and pulling forward.
- 2. Follow steps 1 through 5 under Lighting Instructions.
- 3. With Control Knob in PILOT position, strike match, and hold near pilot. Press in Control Knob; pilot should light.
- 4. Keep Control Knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release Control Knob.
- 5. Make sure the heater screen is in place before operating heater.

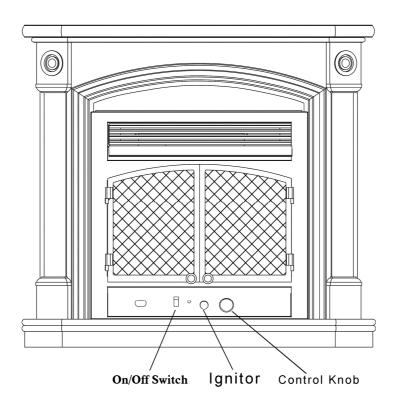


Figure 14 - ON/OFF Switch location

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

- 1. Turn control knob to pilot position
- 2. Inspect pilot flame and refer to Figure 15 and 16.
- Figure 15shows a correct pilot flame pattern.
- Figure 16 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the heater will shut down.
- If the pilot flame is incorrect, as shown in Figure 16. Turn heater off (see To Turn off Gas to Appliance, page 18) See troubleshooting, page 21-23.

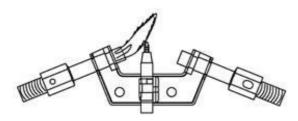


Figure 15 -Correct Pilot Flame Pattern

BURNER FLAME PATTERN

Figure 17 shows a correct burner flame pattern. Figure 18 shows an incorrect burner flame pattern. If pilot flame pattern is incorrect, as shown in Figure 18:

Turn heater off (see "To Turn off Gas to Appliance," page 18).

See Troubleshooting, pages 21 through 23.



Figure 17- Correct Flame Pattern with Control Knob Set to High Flame (5)

More Than 8" Above Top of log



Figure 16 -Incorrect Pilot Flame Pattern

Figure 18 - Incorrect Flame Pattern with Control Knob Set to High Flame (5)

BURNER PRIMARY AIR HOLES

Air is drawn into the burner through the holes in the fitting at the entrance to the burner. These holes may become blocked with dust or lint. Periodically inspect these holes for any blockage and clean as necessary. Blocked air holes will create soot.

CLEANING AND MAINTENANCE

A WARNING: Failure to keep primary air openings of burners clean may result in sooting and property damage.

A CAUTION: You must keep control areas, burner, and circulating air passageways of heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service person. Heater may need more frequent cleaning due to excessive lint from carpeting, bedding material, pet hair, etc.

The primary air inlet holes allow the proper amount of air to mix with the gas. This provides a clean burning flame. Keep these holes clear of dust, dirt and lint. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every 500 hours of operation or every three months.

MAIN BURNER

Periodically inspect all burner flame holes with the heater running. All slotted burner flame holes should be open with yellow flame present. All round burner flame holes should be open with a small blue flame Present. Some burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off heater and let cool, either remove blockage or replace burner. Blocked burner flame holes will create soot.

CLEANING BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

We recommend that you clean the unit every three months or after 2500 hours of operation. We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts we recommend using compressed air no greater than 30 PSI. You can use a vacuum cleaner in the blow position. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

- 1. Shut off the unit, including the pilot. Allow the unit to cool for at least thirty minutes.
- 2. Inspect burner, pilot and primary air inlet holes on injector holder for dust and dirt (see Figure 19).
- 3. Blow air through the ports/slots and holes in the burner.
- 4. Check the injector holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint, or pet hair with a soft cloth or vacuum cleaner nozzle.
- 5. Blow air into the primary air holes on the injector holder.
- In case any large clumps of dust have now been pushed into the burner. Repeat steps 3 and 4. Clean the pilot assembly also.

CLEANING ODS/PILOT

Use a vacuum cleaner, pressurized air, or a small, soft bristled brush to clean.

A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is as mall pilot air inlet hole about two inches from where the pilot flame comes out of the pilot assembly (see Figure 20). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available

CABINET

Air Passageways

• Use a vacuum cleaner or pressurized air to clean.

- Exterior
 - Use a soft cloth dampened with a mild soap and water mixture.
 - Wipe the cabinet to remove dust.

LOGS

- If you remove logs for cleaning, refer to Installing Logs to properly replace logs.
- Replace log(s) if broken or chipped (dime-size or larger).

BLOWER (OPTIONAL ACCESSORY)

Refer to model FIB100 manual.

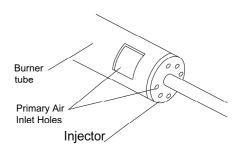


Figure 19 Inject or holder on outlet burner tube

Pilot Assembly

NG pilot Air Inlet Hol

LP pilot Air Inlet Hole

Figure 20

TROUBLESHOOTING

WARNING: If you smell gas

- Shut off gas supply.
- 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.

IMPORTANT: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors.

WARNING: Make sure that power is turned off before proceeding.

WARNING: Turn off and let cool before servicing. Only a qualified service person should service and repair heater.

A CAUTION: Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

OBSERVED PROBLEM	PROBABLE CAUSE	REMEDY
	1. Ignitor electrode is positioned wrong.	1. Replace electrode.
When ignitor button	2. Ignitor electrode is broken.	2. Replace electrode.
is pressed in, there	3. Ignitor electrode is not connected to	3. Reconnect ignitor cable.
is no spark at ODS/pilot	ignitor cable.	
	4. Ignitor cable is pinched or wet.	4. Free ignitor cable if pinched
		by any metal or tubing. Keep ignitor
		cable dry.
	5. Damaged ignitor cable.	5. Replace ignitor cable.
	6. Bad piezo ignitor.	6. Replace piezo ignitor.
	7. Low battery.	7. Replace battery.
	1. Gas supply is turned off or equipment	1. Turn on gas supply or open
When ignitor button is	shutoff valve is closed.	equipment shutoff valve.
pressed in, there is a spark	2. Control knob not fully pressed in while	2. Fully press in control knob while
at ODS/pilot but no pilot	pressing ignitor button.	pressing ignitor button.
flame present.	3. Air in gas lines (new installation or	3. Continue holding down control knob
	recent gas interruption).	for 30 seconds to remove air. Repeat
		igniting operation until air is removed.
	4. ODS/pilot is clogged.	4. Clean ODS/pilot (see Cleaning and
		Maintenance Page 20) or replace
		ODS/pilot assembly.
	5. Incorrect inlet gas pressure or inlet	5. Check inlet gas pressure or replace
	regulator is damaged.	inlet gas regulator.
	6. Depleted gas supply.	6. Contact local propane/LP Gas
		Company.

PROBABLE CAUSE	REMEDY
1. Control knob is not fully pressed	1. Press in control knob fully.
	2. After ODS/pilot lights, keep control
	knob pressed in 30 seconds.
	 Fully open equipment shutoff valve.
	 Hands tighten until snug, and then
-	tighten ¼ turn more.
	5. Replace thermocouple.
6. Control valve damaged.	6. Contact Customer Service.
1. Burner orifice is clogged.	1. Burner orifice (see Cleaning and
	maintenance Page 20) or replace
	burner orifice.
2. Burner orifice diameter is too small.	2. Contact Customer Service.
3. Inlet gas pressure is too low.	3. Contact your gas supplier.
1. Manifold pressure is too low.	1. Contact your gas supplier.
2. Burner orifice is clogged.	2. Clean burner (see cleaning and
	maintenance Page 20) or Contact
	Customer Service.
1 Burner orifice is clogged or	1. Clean burner orifice (see cleaning
	and maintenance Page 20) replace.
_	 Contact Dealer or Customer Service.
-	 Replace gas regulator.
3. Gas regulator is damaged.	5. Replace gas regulator.
1. Not enough air.	1. Check burner for dirt and debris. If
	found, clean burner (see Cleaning and
	Maintenance Page 20).
2. Gas regulator is defective.	2. Replace gas regulator.
3. Inlet gas pressure is too low.	3. Contact your gas supplier.
1. Foreign matter between	1. Take apart gas tubing and remove
control valve and burner.	foreign matter.
2. Gas leak. (See Warning	2. Locate and correct all leaks (see
Statement at top of page 21).	"Checking Gas Connections", page 14
	 Control knob is not fully pressed in. Control knob is not pressed in long enough. Equipment shutoff valve is not fully open. Thermocouple connection is loose. Thermocouple damaged Control valve damaged. Burner orifice is clogged. Burner orifice diameter is too small. Inlet gas pressure is too low. Burner orifice is clogged. Burner is damaged. Gas regulator is damaged. Not enough air. Gas regulator is defective. Inlet gas pressure is too low. Foreign matter between control valve and burner. Gas leak. (See Warning

OBSERVED PROBLEM	PROBABLE CAUSE	REMEDY
Slight smoke or odor during	1. Residues from manufacturing	1. Problem will stop after a few hours of
initial operation	process.	operation.
Heater produces a whistling	1. Turning control knob to high (5)	1. Turn control knob to low (1) position
noise when burner is lit.	position when burner is cold.	and let warm up for a minute.
	2. Air in gas line.	2. Operate burner until air is removed
		from line. Have gas line checked by
		local propane/LP Gas Company.
	3. Air passageways on heater are	3. Observe minimum installation
	blocked.	clearances (Figure 4, page 10)
	4. Dirty or partially clogged burner	5. Clean burner (see Cleaning
	orifice.	and Maintenance Page 20) or replace
		burner orifice.
Heater produces a	1. Metal is expanding while heating	1. This is common with most heaters. If
clicking/ticking	or contracting while cooling.	noise is excessive, contact qualified
noise just after burner is	5 5	service technician.
lit or shut off.		
White powder residue	1. When heated, the vapors from	1. Turn heater off when using furniture
forming within burner box or	furniture polish, wax, carpet cleaners	
on adjacent walls or furniture	etc., turn into white powder residue.	products.
Heater produces	1. Heater is burning vapors from	1. Ventilate room. Stop using odor causing
unwanted odors.	paint, hair spray, glues, etc. (See	products while heater is running.
	IMPORTANT statement page 21).	
	2. Gas leak. See Warning	2. Locate and correct all leaks (see
	Statement at the top of page 21.	Checking Gas Connections, page 14).
	3. Low fuel supply.	3. Refill supply tank (Propane/ LP models).
Heater shuts off in use (ODS	1. Not enough fresh air is available.	1. Open window and/or door for
operates).		ventilation.
	2. Low line pressure.	2. Contact local gas supplier.
	3. ODS/pilot is partially clogged.	3. Clean ODS/pilot (see Cleaning and
		Maintenance, page 20).
Gas odor exists even	1. Gas leak. See Warning	1. Locate and correct all leaks
when control knob is in OFF	Statement at top of page	(see "Checking Gas Connections",
position.	21.	page 14).
	2. Control valve is defective.	2. Contact customer service.
Moisture/condensation	1. Not enough combustion/	1. Refer to "Air for Combustion and
noticed on windows.	ventilation air.	Ventilation" requirements page 7.

REPLACEMENT PARTS

NOTE: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

PARTS UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement parts, call Customer Service toll free at (814)643-1775 for referral information.

When calling Customer Service or your dealer, have ready:

- Your name
- Your address
- Model and serial number of your heater
- How heater was malfunctioning
- Type of gas used (Propane/LP or Natural gas/NG)
- Purchase date
- Usually, we will ask you to return the defective part to the factory

PARTS NOT UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement part(s) call Customer Service toll free at (814)643-1775 for referral information.

When calling Customer Service have ready:

- Model number of your heater
- The replacement part number

World-Marketing of American, Inc. P.O. Box 192, Rt. 22 West MillCreek, PA 17060

KOZY-WORLD PHONE NUMBER :(814)643-1775

http://www.worldmkting.com

PARTS LIST

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under Replacement Parts on page 24 of this manual.

Key No.	Part Number	Description	QTY
1	FB-01AM	Top Panel	1
2	FB-04AM	Side Panel	1
3	FHL008-02	Hood	1
4	FBB201	Fire Box	1
5	FHL001-01D	Top Panel	1
6	FHL001-02D	Body Wrap Panel	1
7	FHL001-03D	Bottom Panel	1
8	FB-05AM	Side Panel	1
9	FB-03AM	Base	1
10	FB-02AM	Upper Panel	1
11	FBB104	Screen	1
12	FBB500	Logs	1
13	FBD400T600	Burner Assembly	1
14	FBD400T850	ODS Outlet Tube	1
15	NDD0308 x 400	ODS	1
16	FBD400T840	ODS Outlet Tube	1
17	FBD400T830	ODS Inlet Tube	1
18	YDF06	Gas Selector Valve Assembly	1
19	FBD400T810	Outlet Tube	1
20	FBD400T820	Inlet Tube	1
21	RV83FI-4/9	Regulator	1
22	SIT545-200	T-Stat Valve	1

