FIREPLACES FOR BUILDERS UNVENTED (VENT-FREE) NATURAL GAS LOG HEATER ALSO DESIGN-CERTIFIED AS A VENTED DECORATIVE APPLIANCE

OWNER'S OPERATION AND INSTALLATION MANUAL

Heat Majic™ Models FVF18N, FVF24N, and FVF30N



18", 24" and 30" Variable Manually-Controlled Models



Patent Pending

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

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

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

— Installation and service must be performed by a qualified installer, service agency, or the gas supplier. WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

WARNING: This appliance is for installation only in a solid-fuel burning masonry or UL127 factory-built fireplace, or in an approved ventless firebox. It is design certified for these installations in accordance with ANSI Z21.11.2. Exception: Do not install this appliance in a factorybuilt fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

WARNING: This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to *Air for Combustion and Ventilation* section on page 4 of this manual.

This appliance may be installed in an aftermarket*, permanently located, manufactured (mobile) home, where not prohibited by local codes.

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

* Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer

Save this manual for future reference.

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.

A DANGER: Carbon monoxide poisoning may lead to death!

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 at once!** Have heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

Natural Gas: Natural gas is 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 safe and proper operation of this heater.

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

WARNING: Do not allow fans to blow directly into the stove. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting. WARNING: Do not use a blower insert, heat exchanger 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 on the heater.

Heater base assembly becomes very hot when running heater. Keep children and adults away from hot surface to avoid burns or clothing ignition. Heater will remain hot for a time after shutdown. Allow surface to cool before touching.

Carefully supervise young children when they are in the room with heater.

Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

- 1. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.
- 2. 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

- 3. This heater shall not be installed in a bedroom or bathroom unless installed as a vented appliance (see *Installing Damper Clamp Accessory for Vented Operation*, page 10).
- 4. Never install the heater
 - 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
- 5. Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. Inspect chimney flue for damage. If damaged, operate heater with flue damper closed.
- 6. If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Also if fireplace opening has vents at the bottom, you must open the vents before operating heater.
- This log 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 heater burning manufacturing residues.
- 8. To prevent the creation of soot, follow the instructions in *Cleaning and Maintenance*, page 20.
- 9. 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.
- 10. This heater needs fresh, outside 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 4 through 6. If heater keeps shutting off, see *Troubleshooting*, pages 17 through 19.

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SAFETY INFORMATION Continued

- 11. Do not run heater
 - where flammable liquids or vapors are used or stored
 - under dusty conditions
- 12. Do not use this heater to cook food or burn paper or other objects.
- 13. Do not use heater if any part has been exposed to or under water. Immediately call a qualified service technician to in-

spect the room heater and to replace any part of the control system and any gas control which has been under water.

- 14. Do not operate heater if any log is broken. Do not operate heater if a log is chipped (dime-sized or larger).
- 15. Turn heater off and let cool before servicing. Only a qualified service person should service and repair heater.
- Operating heater above elevations of 4,500 feet could pilot outage.
- 17. Provide adequate clearances around air openings.

PRODUCT IDENTIFICATION

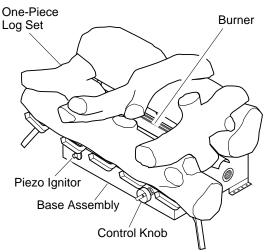


Figure 1 - Heat Majic™ Log Set

LOCAL CODES

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

*Available from:

American National Standards Institute, Inc. 1430 Broadway New York, NY 10018

National Fire Protection Association, Inc. Batterymarch Park Quincy, MA 02269

UNPACKING

A CAUTION: Do not remove the data plates from the grate assembly. The data plates contain important product information.

- 1. Remove logs and heater base assembly from carton. *Note:* Do not pick up heater base assembly by the burner. This could damage heater. Always handle base assembly by grate.
- 2. Remove all protective packaging applied to logs and heater for shipment.
- Check all items for any shipping damage. If damaged, promptly inform dealer where you bought heater.

PRODUCT FEATURES

OPERATION

This heater is clean burning. It requires no outside venting. There is no heat loss out a vent or up a chimney. Heat is generated by realistic, dancing yellow flames. This heater is designed for vent-free operation with flue damper closed. It has been tested and approved to ANSI Z21.11.2 standard for unvented heaters. State and local codes in some areas prohibit the use of vent-free heaters. This heater may also be operated as a vented decorative (ANSI Z21.60) product by opening the flue damper.

SAFETY PILOT

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS/pilot is a required feature for vent-free room heaters. The ODS/pilot shuts off the heater if there is not enough fresh air.

PIEZO IGNITION SYSTEM

This heater has a piezo ignitor. This system requires no matches, batteries, or other sources to light heater.

AIR FOR COMBUSTION AND VENTILATION

WARNING: This heater shall 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.

Today's homes are built more energy efficient than ever. New materials, increased insulation, and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, fireplaces, clothes dryers, and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will insure proper venting of vented fuelburning appliances.

PROVIDING ADEQUATE VENTILATION

The following are excerpts from National Fuel Gas Code, ANSI Z223.1/ NFPA 54, 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 4 through 6 will help you classify your space and provide adequate ventilation.

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 perm (6 x 10⁻¹¹ kg per pa-sec-m²) or less with openings gasketed or sealed <u>and</u>
- b. weather stripping has been added on openable windows and 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 6.

If your home does not meet all of the three criteria above, proceed to *Determining Fresh-Air Flow For Heater Location*, page 5.

Confined and Unconfined Space

The National Fuel Gas Code ANSI Z223.1/ NFPA 54 defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour (4.8 m³ per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed*, through openings not furnished with doors, are considered a part of the unconfined space.

* Adjoining rooms are communicating only if there are doorless passageways or ventilation grills between them.

AIR FOR COMBUSTION AND VENTILATION

Continued

DETERMINING FRESH-AIR FLOW FOR HEATER LOCATION

Determining if You Have a Confined or Unconfined Space

Use this work sheet 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 doorless passageways or ventilation grills between the rooms.

1. Determine the volume of the space (length x width x height).

Length x Width x Height = _____cu. ft. (volume of space)

Example: Space size 20 ft. (length) x 16 ft. (width) x 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. Multiply the space volume by 20 to determine the maximum Btu/Hr the space can support.

_____ (volume of space) x 20 = (maximum Btu/Hr the space can support)

Example: 2560 cu. ft. (volume of space) x 20 = 51,200 (maximum Btu/Hr the space can support)

3. Add the Btu/Hr of all fuel burning appliances in the space.

Vent-free heater		_Btu/Hr				
Gas water heater*		_Btu/Hr	Example:			
Gas furnace		_Btu/Hr	Gas water heater		40,000	Btu/Hr
Vented gas heater		_Btu/Hr	Vent-free heater	+	31,500	Btu/Hr
Gas fireplace logs		_Btu/Hr	Total	=	71,500	
Other gas appliances*	+	_Btu/Hr			,	
Total	=	_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)

Example: 51,200 Btu/Hr (maximum the space can support)

71,500 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:

- A. 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 Inside Building*, page 6.
- B. Vent room directly to the outdoors. See Ventilation Air From Outdoors, page 6.
- 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, Section 5.3* or applicable local codes.

AIR FOR COMBUSTION AND VENTILATION Continued

VENTILATION AIR

Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on 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, ANSI Z223.1/NFPA 54, Section 5.3, 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 ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" 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, ANSI Z223.1/ NFPA 54, Section 5.3, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

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.

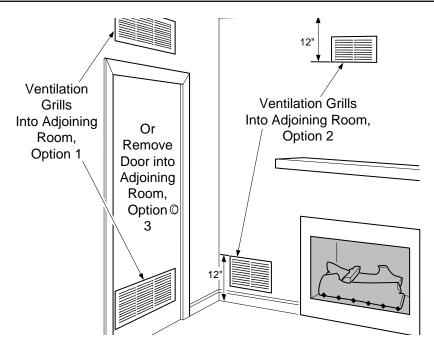


Figure 2 - Ventilation Air from Inside Building

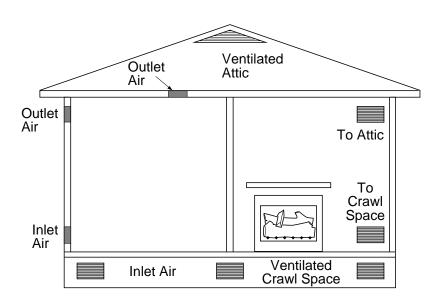


Figure 3 - Ventilation Air from Outdoors

INSTALLATION

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. In the event of a power outage, you can use this heater as your primary heat source.

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

NOTICE: State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.

WARNING: Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue and firebox may create and distribute soot within the house. Inspect chimney flue for damage. If damaged, operate heater with flue damper closed.

WARNING: Seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace. If not, drafting may cause pilot outage or sooting. Use a heatresistant sealant. Do not seal chimney flue damper. WARNING: Never install the heater

- in a bedroom or bathroom unless installed as a vented appliance (see page 10)
- 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, but not limited to, tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls or cause odors.

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 4 through 6.

CHECK GAS TYPE

Use only natural gas. If your gas supply is not natural gas, do not install heater. Call dealer where you bought heater for proper type heater.

INSTALLATION AND CLEARANCES (Vent-Free Operation Only)

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

MINIMUM FIREPLACE CLEARANCE TO COMBUSTIBLE MATERIALS

Log Size	Side Wall	Ceiling
18", 24",	16"	42"
and 30"		

LOG SIZING REQUIREMENTS					
Log	Minimum Firebox Size				
Size	Height	Depth	Front Width	Rear* Width	
18" 24" 30"	17" 17" 17"	14" 14" 14"	24" 28" 34"	20" 21" 24"	

*Measured at 14" depth

Carefully follow the instructions below. This will ensure safe installation into a masonry, factory built UL127-listed manufactured fireplace, or listed vent-free firebox.

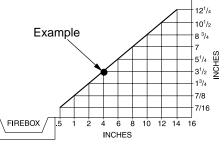
Minimum Clearances For Side Combustible Material, Side Wall, and Ceiling

A. Clearances from the side of the fireplace cabinet to any combustible material and wall should follow diagram in Figure 4.

Example: The face of a mantel, bookshelf, etc. is made of combustible material and protrudes $3^{1/2}$ " from the wall. This combustible material must be 4" from the side of the fireplace cabinet (see Figure 4).

Note: When installing your gas logs into a manufactured firebox, follow firebox manufacturer's instructions for minimum clearances to combustible materials.

B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42 inches.



^{*}Minimum 16 inches from Side Wall

Figure 4 - Minimum Clearance for Combustible to Wall Continued

INSTALLATION

Continued

NOTICE: Manual control heaters may be used as a vented product. If so, you must always run heater with chimney flue damper open. If running heater with damper open, noncombustible material above fireplace opening is not needed. Go to *Installing Damper Clamp Accessory for Vented Operation*, page 10.

Minimum Noncombustible Material Clearances

If Not Using Mantel

Note: If using a mantel, proceed to *If Using a Mantel*. If not using a mantel, follow the information below.

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2 inch thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8" up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24" and 30" models only). See Figure 5 for minimum clearances.

IMPORTANT: If you cannot meet these minimum clearances, you must operate heater with chimney flue damper open. Go to *Installing Damper Clamp Accessory for Vented Operation*, page 10.

If Using Mantel

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2 inch thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 8 inches up (for all models). If noncombustible material is less than 12", you must install the fireplace hood accessory (24" and 30" models only). Even if noncombustible material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See Figure 5 and Figures 6 and 7 on page 9 for minimum clearances.

IMPORTANT: If you cannot meet these minimum clearances, you must operate heater with chimney flue damper open. Go to *Installing Damper Clamp Accessory for Vented Operation*, page 10.

Noncombustible Material Distance (A)	Requirements for Safe Installation		
12" or more	Noncombustible material OK.		
Between 8" and 12"	24" or 30" Models: Install fireplace hood accessory (GA6050, GA6052, or GA6053, see <i>Accessories,</i> page 21).		
	18" Model: Noncombustible material OK.		
Less than 8"	Noncombustible material must be extended to at least 8". See <i>Between 8" and 12"</i> , above. If you cannot extend material, you must operate heater with flue damper open.		
Heat Resis Material	stant (A)		

Figure 5 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace

INSTALLATION

MANTEL CLEARANCES

In addition to meeting noncombustible material clearances, you must also meet required clearances between fireplace opening and mantel shelf. If you do not meet the clearances listed below, you will need a hood.

Determining Minimum Mantel Clearance

If you meet minimum clearance between mantel shelf and top of fireplace opening, a hood is not required (see Figure 6).

Determining Minimum Mantel Clearance When Using a Hood

If minimum clearances in Figure 6 are not met, you must have a hood. When using a hood there are still certain minimum mantel clearances required. Follow minimum clearances shown in Figure 7 when using hood.

NOTICE: Surface temperatures of adjacent walls and mantels become hot during operation. Walls and mantels above the firebox may become hot to the touch. If installed properly, these temperatures meet the requirement of the national product standard. Follow all minimum clearances shown in this manual.

NOTICE: If your installation does not meet the minimum clearances shown, you must do one of the following:

- operate the logs only with the flue damper open
- raise the mantel to an acceptable height
- remove the mantel

FLOOR CLEARANCES

- A. If installing appliance on the floor level, you must maintain the minimum distance of 14" to combustibles (see Figure 8).
- B. If combustible materials are less than 14" to the fireplace, you must install appliance at least 5" above the combustible flooring (see Figure 9).

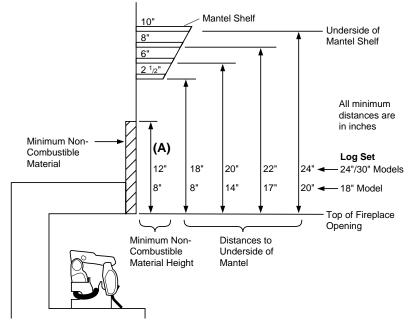
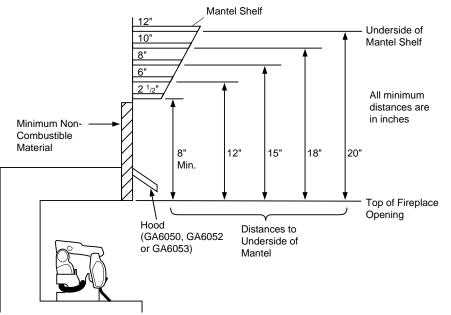
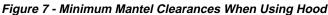
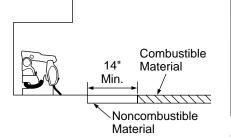
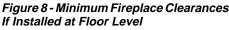


Figure 6 - Minimum Mantel Clearances Without Using Hood









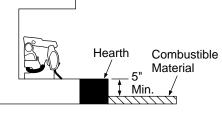


Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

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INSTALLATION

Continued

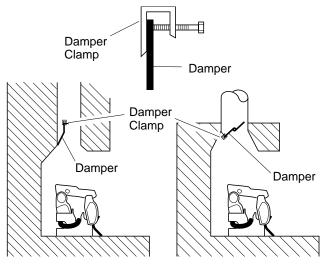
INSTALLING DAMPER CLAMP ACCESSORY FOR VENTED OPERATION

Note: When used as a vented heater, appliance must be installed only in a solid-fuel burning fireplace with a working flue and constructed of non combustible material.

You may use this heater as a vented product. There are three reasons for operating your heater in the vented mode:

- 1. The fireplace does not meet the clearance to combustibles requirements for vent-free operation
- 2. State or local codes do not permit ventfree operation
- 3. You prefer vented operation

If reasons number 1 or 2 above apply to you, you must permanently open chimney flue damper. You must install the damper clamp accessory (to order, see *Accessories*, page 21). This will insure vented operation (see Figure 10). The damper clamp will keep damper open. Installation instructions are included with clamp accessory.



Masonry Fireplace

Manufactured Fireplace

Figure 10 - Attaching Damper Clamp

See chart below for minimum permanent flue opening you must provide. Attach damper clamp so the minimum permanent flue opening will be maintained at all times.

Chimney	Minimum Permanent
Height (ft.)	Flue Opening (sq. ins.)
6' to 15' 15' to 30'	39 sq. inches 29 sq. inches

Area of Various Standard Round Flues			
Diameter (ins.) Area (sq. ins.)			
5"	20 sq. inches		
6"	29 sq. inches		
7"	39 sq. inches		
8"	51 sq. inches		

INSTALLING HEATER BASE ASSEMBLY

A WARNING: You must secure this heater to fireplace floor. If not, heater will move when you adjust controls. Moving heater may cause a gas leak.

WARNING: If installing in a sunken fireplace, special care is needed. You must raise the fireplace floor to allow access to heater control panel. This will insure adequate air flow and guard against sooting. Raise fireplace floor with noncombustible material. Make sure material is secure.

A CAUTION: Do not pick up heater base assembly by the burner. This could damage heater. Only handle base assembly by grates.

A CAUTION: Do not remove the data plates attached to the heater base assembly. The data plates contain important warranty and safety information.

IMPORTANT: Make sure the heater burner is level. If heater is not level, heater will not work properly.

INSTALLATION Continued

Installation Items Needed

- hardware package (provided with heater)
- approved flexible gas hose (not provided) (if allowed by local codes)
- sealant (resistant to propane/LP gas, not provided)
- electric drill with 3/16" drill bit (metal or masonry as applicable)
- flathead screwdriver
- 1. Apply pipe joint sealant lightly to male threads of the fitting to be threaded into gas regulator. Connect approved flexible gas hose to gas regulator of heater (see Figure 11).

IMPORTANT: Hold gas regulator with wrench when connecting flexible gas hose.

- Locate two masonry screws in hardware package.
- 3. Place heater base in fireplace.
- 4. Place logs in their proper position on heater base.
- 5. Center heater base and logs front-toback and side-to-side in fireplace.
- 6. Carefully remove logs without moving heater base.
- 7. Mark screw locations through one hole on each side of the mounting bracket (see Figure 12). If installing in a brickbottom fireplace, mark screw locations in mortar joint of bricks.
- 8. Remove heater base from fireplace.
- 9. Drill holes at marked locations using 3/16" drill bit.
- 10. Attach base assembly to fireplace floor using two masonry screws (in hardware package).
- 11. Connect to gas supply. See *Connecting To Gas Supply*, page 12.
- 12. Replace logs on heater base.

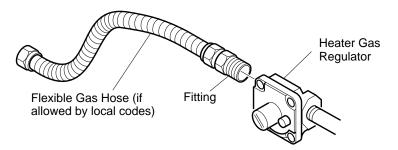


Figure 11 - Attaching Flexible Gas Hose to Heater Gas Regulator

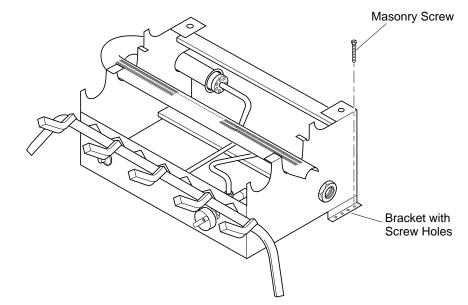


Figure 12 - Attaching Base Assembly to Fireplace Floor

INSTALLATION

Continued

CONNECTING TO GAS SUPPLY

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

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

* ACSA design-certified equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional CSA design-certified equipment shutoff valve from your dealer. See *Accessories*, page 21.

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

A 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 1/2" diameter or greater to allow proper gas volume to heater. If pipe is too small, undue loss of volume will occur. Installation must include an equipment shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook up. NPT tap must be upstream from heater (see Figure 13).

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.

Check your building codes for any special requirements for locating equipment shutoff valve to fireplaces.

Apply pipe joint sealant lightly to male NPT threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.

A CAUTION: Use pipe joint seal-

ant that is resistant to liquid pe-

We recommend that you install a sediment trap in supply line as shown in Figure 13. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and heater. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

CAUTION: Avoid damage to regulator. Hold gas regulator with wrench when connecting it to gas piping and/or fittings.

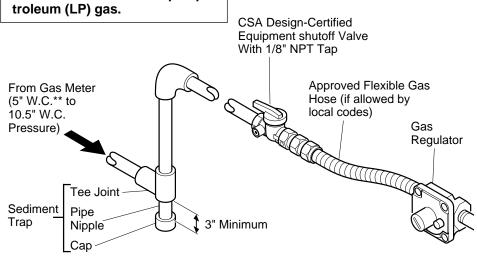


Figure 13 - Gas Connection

* Minimum inlet pressure for purpose of input adjustment.

INSTALLATION

Continued

CHECKING GAS CONNECTIONS

WARNING: Test all gas piping and connections for leaks after installing or servicing. Correct all leaks at once.

WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak. Correct all leaks at once.

Pressure Testing Gas Supply Piping System

Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

- 1. Disconnect appliance 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 main gas valve located on or near gas meter.
- 4. Check all joints of gas supply piping system. Apply a noncorrosive leak detection fluid to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 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 14).
- 2. Pressurize supply piping system by either using compressed air or opening main gas valve located on or near gas meter.
- Check all joints from gas meter to equipment shutoff valve (see Figure 15). Apply a noncorrosive leak detection fluid to gas joints. Bubbles forming show a leak.

Open

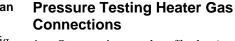
Closed

4. Correct all leaks at once.

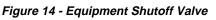
Equipment

Shutoff

Valve



- 1. Open equipment shutoff valve (see Figure 14).
- 2. Open main gas valve located on or near gas meter.
- 3. Make sure control knob of heater is in the OFF position.
- 4. Check all joints from equipment shutoff valve to control valve (see Figure 15). Apply a noncorrosive leak detection fluid to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Light heater (see *Operating Heater*, pages 15 and 16). Check all other internal joints for leaks.
- 7. Turn off heater (see *To Turn Off Gas to Appliance*, page 16).



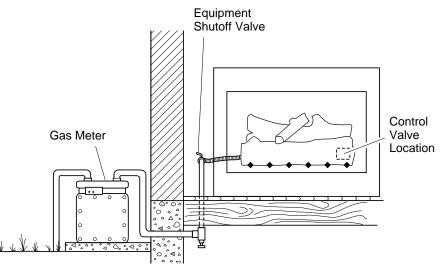


Figure 15 - Checking Gas Joints

INSTALLATION

Continued

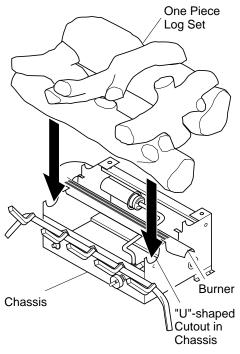
INSTALLING LOGS

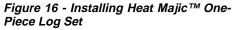
WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

A 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.

It is very important to install the logs exactly as instructed. Do not modify logs. Only use logs supplied with heater.

- 1. Place one-piece log set on grate to fit as illustrated in Figure 16. Make sure bottom of front log is in front of "U"shaped cutout in center of chassis (see Figure 16). Log will fit securely on chassis. *IMPORTANT*: Make sure log does not cover any burner parts.
- 2. Place lava rock on fireplace floor around base of heater.





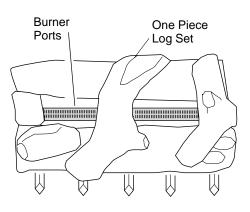


Figure 17 - Installing Heat Majic™ One-Piece Log Set (Top View)

14

OPERATING HEATER

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

WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician or gas supplier. Force or attempted repair may result in a 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.

LIGHTING INSTRUCTIONS

A WARNING:

- If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat buildup inside fireplace will cause glass to burst. Also if fireplace opening has vents at the bottom, you must open the vents before operating heater.
- You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.

NOTICE: During initial operation of new heater, burning logs will give off a paper-burning smell. Open damper or window to vent smell. This will only last a few hours.

Note: Home owners generally prefer to operate their heater with the chimney damper closed. This will put all the heat into the room. However, there may be times you will desire the full flames of the HI heat setting but will find the heat output excessive. You can open the chimney damper (if you have one) fully or partially to release some of the heat.

WARNING: Damper handle will be hot if heater has been running.

- 1. STOP! Read the safety information, column 1.
- 2. Make sure equipment shutoff valve is fully open.
- 3. Press in and turn control knob clockwise to the OFF position.

- 4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information in column 1. If you don't smell gas, go to the next step.
- 5. Slightly depress and turn control knob counterclockwise to the PILOT position. Keep control knob pressed in for five (5) seconds (see Figure 18).

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 or more. This will allow air to bleed from the gas system.

6. With control knob pressed in, press and release ignitor button. This will light pilot. The pilot is attached to the burner. If needed, keep pressing ignitor button until pilot lights.

> *Note:* If pilot does not light, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure* on page 16.

7. 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.

- If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.
- 8. Slightly depress and turn control knob counterclockwise y to to the HIGH position. The burner should light. Set control knob to any heat level between HIGH and LO.

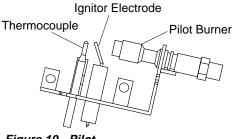


Figure 19 - Pilot (*Note:* Appearance of pilot assembly may vary by model.) *Continued*

Ignitor Button

Figure 18 - Control Knob and Ignitor Button Location



OPERATING HEATER Continued

VARIABLE CONTROL OPERATION

The variable control valve can be set to any heat setting and flame height desired, by simply turning the control knob until that setting is attained. Even the lowest setting provides realistic, dancing yellow flames. Selecting higher settings produces greater heat output. This results in increased heating comfort.

WARNING: Do not operate heater between PILOT and HIGH positions.

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

TO TURN OFF GAS TO APPLIANCE

Shutting Off Heater

- 1. Press in and turn control knob clockwise to the HIGH position.
- 2. Turn the control knob clockwise to the PILOT position.
- 3. Press in control knob and turn clockwise to the OFF Position.

Shutting Off Burners Only (pilot stays lit)

- 1. Turn the control knob clockwise to the HIGH position.
- 2. Press in and turn control knob clockwise to the PILOT position.

MANUAL LIGHTING PROCEDURE

- 1. Follow steps 1 through 5 under *Lighting Instructions*, page 15.
- 2. Depress control knob and light pilot with match.
- 3. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob. Now follow step 8, page 15.

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

Figure 20 shows a correct pilot flame pattern. Figure 21 shows an incorrect pilot flame pattern. (*Note*: Appearance of pilot assembly may vary by model.) 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 pilot flame pattern is incorrect, as shown in Figure 21

- turn heater off (see *To Turn Off Gas to Appliance*, column 1)
- see Troubleshooting, pages 17 through 19

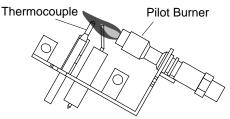


Figure 20 - Correct Pilot Flame Pattern

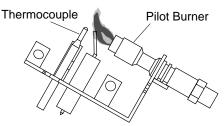


Figure 21 - Incorrect Pilot Flame Pattern

BURNER PRIMARY AIR HOLES

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

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. Remove blockage. Blocked burner flame holes will create soot.

TROUBLESHOOTING

Note: For additional help, visit DESA International's Technical Service web site at **www.desatech.com**.

Note: All troubleshooting items are listed in order of operation.

WARNING: Turn off and unplug heater 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	POSSIBLE CAUSE	REMEDY
When ignitor button is pressed, there is no spark at ODS/pilot	1. Ignitor electrode not connected to igni- tor cable	1. Reconnect ignitor cable
I I	2. Ignitor cable pinched or wet	2. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry
	3. Piezo ignitor nut is loose	3. Tighten nut holding piezo ignitor to base panel of log set. Nut is located behind base panel.
	4. Broken ignitor cable	4. Replace ignitor cable
	5. Bad piezo ignitor	5. Replace piezo ignitor
	6. Ignitor electrode positioned wrong	6. Replace pilot assembly
	7. Ignitor electrode broken	7. Replace pilot assembly
When ignitor button is pressed, there is spark at ODS/pilot but no ignition	1. Gas supply turned off or equipment shutoff valve closed	1. Turn on gas supply or open equipment shutoff valve
	2. Control knob not in PILOT position	2. Turn control knob to PILOT position
	3. Control knob not pressed in while in	3. Press in control knob while in PILOT
	PILOT position	position
	4. Air in gas lines when installed	4. Continue holding down control knob. Repeat igniting operation until air is
	5. ODS/pilot is clogged	removed 5. Clean ODS/pilot (see <i>Cleaning and</i> <i>Maintenance</i> , page 20) or replace ODS/ pilot assembly
	6. Gas regulator setting is not correct	6. Replace gas regulator
ODS/pilot lights but flame goes out when	1. Control knob not fully pressed in	1. Press in control knob fully
control knob is released	2. Control knob not pressed in long enough	2. After ODS/pilot lights, keep control knob pressed in 30 seconds
	3. Safety interlock system has been	3. Wait one minute for safety interlock sys-
	triggered	tem to reset. Repeat ignition operation
	4. Equipment shutoff valve not fully open	4. Fully open equipment shutoff valve
	5. Pilot flame not touching thermocouple,	5. A) Contact local natural gas company
	which allows thermocouple to cool, causing pilot flame to go out. This prob- lem could be caused by one or both of	B) Clean ODS/pilot (see <i>Cleaning and Maintenance</i> , page 20) or replace ODS/
	the following: A) Low gas pressure	pilot assembly
	B) Dirty or partially clogged ODS/pilot	6 Hand tighton until any than tighter 1/4
	6. Thermocouple connection loose at con- trol valve	6. Hand tighten until snug, then tighten 1/4 turn more
	7. Thermocouple damaged	7. Replace thermocouple

www.desatech.com

TROUBLESHOOTING

Continued

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner does not light after ODS/pilot is lit	 Inlet gas pressure is too low Burner orifice clogged 	 Contact local natural gas company Clean burner (see <i>Cleaning and Maintenance</i>, page 20) or replace burner orifice
	3. Burner orifice diameter is too small	3. Replace burner orifice
Delayed ignition burner	1. Manifold pressure is too low	1. Contact local natural gas company
	2. Burner orifice clogged	2. Clean burner (see <i>Cleaning and Mainte-</i> <i>nance</i> , page 20) or replace burner orifice
Burner backfiring during combustion	1. Burner orifice is clogged or damaged	1. Clean burner (see <i>Cleaning and Mainte-</i> <i>nance</i> , page 20) or replace burner orifice
	2. Damaged burner	2. Replace damaged burner
	3. Gas regulator defective	3. Replace gas regulator
Slight smoke or odor during initial operation	1. Not enough air	1. Check burner for dirt and debris. If found, clean burner (see <i>Cleaning and Maintenance</i> , page 20)
	2. Gas regulator defective	2. Replace gas regulator
	3. Residues from manufacturing processes	3. Problem will stop after a few hours of
	and logs curing	operation
Heater produces a whistling noise when	1. Turning control knob to HI position	1. Turn control knob to LO position and
burner is lit	when burner is cold 2. Air in gas line	let warm up for a minute2. Operate burner until air is removed from
	2. An in gas inte	2. Operate burner until an is removed from line. Have gas line checked by local natural gas company
	3. Air passageways on heater blocked	 Observe minimum installation clear- ances (see pages 7 through 9)
	4. Dirty or partially clogged burner orifice	 Clean burners (see <i>Cleaning and Maintenance</i>, page 20) or replace burner orifice
Moisture/condensation noticed on windows	1. Not enough combustion/ventilation air	1. Refer to <i>Air for Combustion and Venti-</i> <i>lation</i> requirements (pages 4 through 6)
Dark residue on logs or inside of fireplace	1. Improper log placement	1. Properly locate logs (see <i>Installing Logs</i> , page 14)
	2. Drafts or other air currents affecting	 Eliminate source of drafts around heater
	flame pattern 3. Air holes at burner inlet blocked	3. Clean out air holes at burner inlet. Peri- odically repeat as needed
	4. Burner flame holes blocked	4. Remove blockage
White powder residue forming within burner box or on adjacent walls or furniture	1. When heated, vapors from furniture pol- ish, wax, carpet cleaners, etc. may turn into white powder residue	1. Turn heater off when using furniture polish, wax, carpet cleaners, or similar products

TROUBLESHOOTING

Continued

A 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. These odors will disappear over time.

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Heater produces a clicking/ticking noise just after burner is lit or shut off	1. Metal expanding while heating or con- tracting while cooling	 This is common with most heaters. If noise is excessive, contact qualified ser- vice person
Heater produces unwanted odors	1. Heater burning vapors from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (see <i>IMPORTANT</i> statement above)	1. Open window and ventilate room. Stop using odor causing products while heater is running
	 Gas leak. See Warning statement at top of page 	2. Locate and correct all leaks (see <i>Check-ing Gas Connections</i> , page 13)
Heater shuts off in use (ODS operates)	 Not enough fresh air is available Low line pressure ODS/pilot is partially clogged 	 Open window and/or door for ventilation Contact local natural gas company Clean ODS/pilot (see <i>Cleaning and Maintenance</i>, page 20)
Gas odor even when control knob is in OFF position	 Gas leak. See Warning statement at top of page Control valve defective 	 Locate and correct all leaks (see <i>Check-ing Gas Connections</i>, page 13) Replace control valve
Gas odor during combustion	 Foreign matter between control valve and burner Gas leak. See Warning statement at top of page 	 Take apart gas tubing and remove for- eign matter Locate and correct all leaks (see <i>Check- ing Gas Connections</i>, page 13)

CLEANING AND MAINTENANCE

WARNING: Turn off heater and let cool before cleaning.

A CAUTION: You must keep control areas, burners, 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, pet hair, bedding material, etc.

CLEANING BURNER INJECTOR HOLDER AND PILOT AIR INLET HOLE

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, lint, and pet hair. Clean these air inlet holes prior to each heating season. Blocked air holes will create soot. We recommend that you clean the unit every three months during operation and have heater inspected yearly by a qualified service person.

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. Your local computer store, hardware store, or home center may carry compressed air in a can. 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 22).
- 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.
- 6. In case any large clumps of dust have now been pushed into the burner repeat steps 3 and 4.

Clean the pilot assembly also. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about two inches from where the pilot flame comes out of the pilot assembly (see Figure 23). 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.

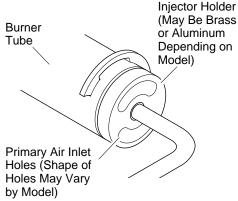
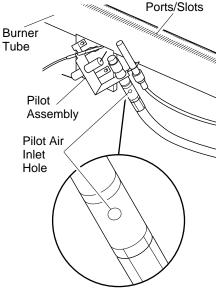


Figure 22 - Injector Holder On Outlet Burner Tube



LOGS

- If you remove logs for cleaning, refer to *Installing Logs*, page 14 to properly replace logs.
- Replace log(s) if broken or chipped (dime-sized or larger).

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. Remove blockage. Blocked burner flame holes will create soot.

SERVICE HINTS

When Gas Pressure Is Too Low

- pilot will not stay lit
- burners will have delayed ignition
- heater will not produce specified heat

You may feel your gas pressure is too low. If so, contact your local natural gas supplier.

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact Fireplace Manufacturers Incorporated's Technical Service Department at 1-866-672-6040.

You can also visit DESA International's Technical Service web site at **www.desatech.com.**

Figure 23 - Pilot Inlet Air Hole

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 part(s), call Fireplace Manufacturers Incorporated's Technical Service Department at 1-866-672-6040. When calling Fireplace Manufacturers Incorporated, have ready

- your name and address
- · model and serial numbers of your heater
- how heater was malfunctioning
- type of gas used (propane or natural gas)
- · purchase date

Usually, we will ask you to return the part to the factory.

PARTS NOT UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement part(s), call Fireplace Manufacturers Incorporated at 1-866-672-6040 for referral information. When calling Fireplace Manufacturers Incorporated, have ready

- model number of your heater
- the replacement part number

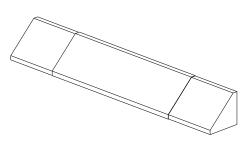
SPECIFICATIONS

Variable Manually Controlled 16,000/27,000 Btu (Variable) Type Gas Natural Gas Only Ignition Piezo Piezo Pressure Manifold 3.5" W.C. Inlet Gas Pressure (in. of water) Maximum 10.5" 5" Minimum* Shipping Weight 36 lbs. *For input adjustment

Heat Majic[™] 18"

ACCESSORIES

Purchase these heater accessories from your local dealer. If they can not supply these accessories, call Fireplace Manufacturers Incorporated at 1-866-672-6040 for referral information. You can also write to the address listed on the back page of this manual.



FIREPLACE HOODS Black - GA6050 Brass - GA6052

For all models. Helps deflect heat away from mantel or wall above fireplace. Fits openings 28" to 49" wide.

DAMPER CLAMP - 02017 (Not Shown)

For manually controlled models. Permanently opens chimney flue damper for vented operation.

LAVA ROCK - 02016 (Not Shown)

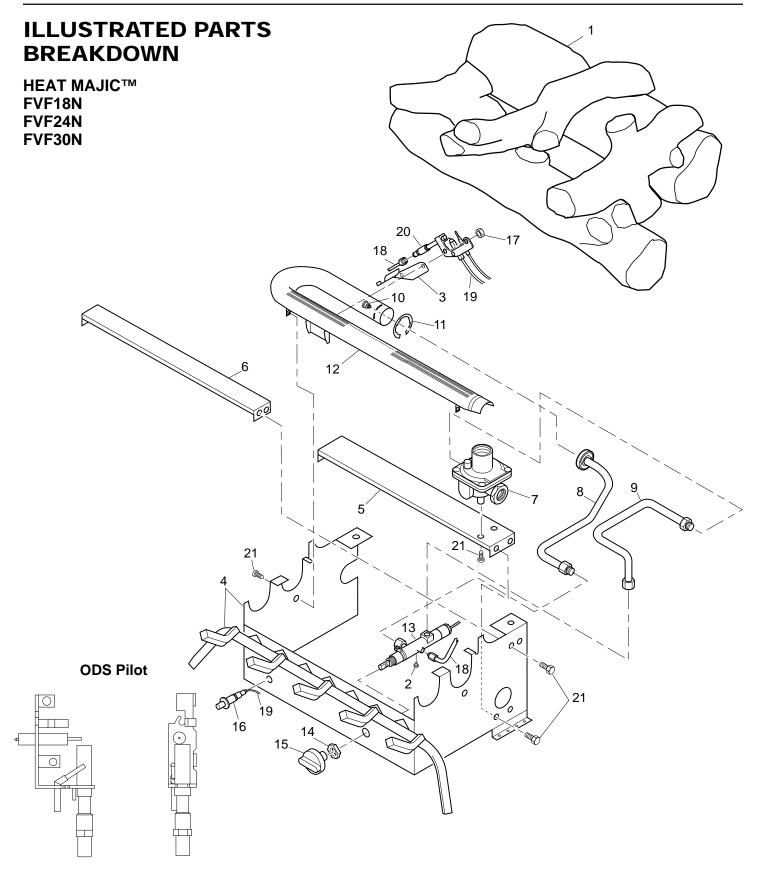
For all models. Order when additional rock is desired. (1.8 lb. bag)

CLEANING KIT - GCK (Not Shown)

For all models. Your vent-free gas appliance requires regular cleaning and maintenance to prevent performance problems. This kit gives you the tools and instructions to make it easy to clean all critical areas of your appliance.

Heat Majic™ 24"/30" Variable Manually Controlled

16,000/31,500 Natural Gas Only Piezo 3.5" W.C. 10.5"



PARTS LIST

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 21 of this manual.

KEY	PART NUM	IBER FOR			
NO.	FVF18N	FVF24N	FVF30N	DESCRIPTION	QTY.
1	105186-01	105186-02	105186-03	One Piece Log Set	1
2	098276-01	098276-01	098276-01	Hex Head Plug, 1/8" NPT	1
3	099553-01	099553-01	099553-01	Pilot Shield	1
4	102775-02CK	102775-01CK	102775-01CK	Painted Base Assembly	1
5	102844-01	102844-01	102844-01	Lower Bracket	1
6	102966-01	102966-01	102966-01	Upper Bracket	1
7	098867-11	098867-11	098867-11	Gas Regulator	1
8	102780-01	102780-01	102780-01	Outlet Burner Tube	1
9	102798-01	102798-01	102798-01	Inlet Tube	1
10	099056-20	099056-18	099056-18	Burner Orifice Injector	1
11	102843-01	102843-01	102843-01	Burner Clip	1
12	102963-01	102773-01	102773-01	Burner	1
13	102568-07	102568-07	102568-07	Control Valve	1
14	098508-01	098508-01	098508-01	Valve Retainer Nut	1
15	098354-01	098354-01	098354-01	Control Knob	1
16	102445-01	102445-01	102445-01	Piezo Ignitor	1
17	098249-01	098249-01	098249-01	Nut, M5	2
18	099387-08	099387-08	099387-08	Pilot Tube	1
19	098271-07	098271-07	098271-07	Ignitor Cable	1
20	103042-01	103042-01	103042-01	ODS Pilot	1
21	M11084-38	M11084-38	M11084-38	Screw, Hex Head (#8-18 x .38)	11
		PARTS A	VAILABLE — NO	T SHOWN	
	100563-01	100563-01	100563-01	Warning Plate	1
	101055-02	101055-02	101055-02	Lighting Instructions Plate	1
	100565-01	100565-01	100565-01	Warning Plate Fastener	1
	100639-01	100639-01	100639-01	Caution Decal	1
	101449-04	101449-04	101449-04	Control Position Decal	1
	101137-02	101137-02	101137-02	Hardware Kit	1
	02016	02016	02016	Lava Rock	1

WARRANTY INFORMATION

KEEP THIS WARRANTY

Model	
Serial No	
Date Purchased	

Always specify model and serial numbers when communicating with the factory.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

LIMITED WARRANTY VENT-FREE GAS LOG HEATERS

Fireplace Manufacturers Incorporated warrants this product to be free from defects in materials and components for four (4) years from the date of first purchase, provided that the product has been properly installed, operated and maintained in accordance with all applicable instructions. To make a claim under this warranty the Bill of Sale or cancelled check must be presented.

This warranty is extended only to the original retail purchaser. This warranty covers the cost of part(s) required to restore this heater to proper operating condition and an allowance for labor when provided by a Fireplace Manufacturers Incorporated Authorized Service Center. Warranty part(s) MUST be obtained through authorized dealers of this product and/or Fireplace Manufacturers Incorporated who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. The heater MUST be installed by a qualified installer in accordance with all local codes and instructions furnished with the unit.

This warranty does not apply to parts that are not in original condition because of normal wear and tear, or parts that fail or become damaged as a result of misuse, accidents, lack of proper maintenance or defects caused by improper installation. Travel, diagnostic cost, labor, transportation and any and all such other costs related to repairing a defective heater will be the responsibility of the owner.

TO THE FULL EXTENT ALLOWED BY THE LAW OF THE JURISDICTION THAT GOVERNS THE SALE OF THE PRODUCT; THIS EXPRESS WARRANTY EXCLUDES ANY AND ALL OTHER EXPRESSED WARRANTIES AND LIMITS THE DURATION OF ANY AND ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO FOUR (4) YEARS ON ALL COMPONENTS AND FROM THE DATE OF FIRST PURCHASE; AND FIREPLACE MANUFACTURERS INCORPORATED'S LIABILITY IS HEREBY LIMITED TO THE PURCHASE PRICE OF THE PRODUCT AND FIREPLACE MANUFACTURERS INCORPORATED SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES WHATSOEVER INCLUDING INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow a limitation on how long an implied warranty lasts or an exclusion or limitation of incidental or consequential damages, so the above limitation on implied warranties, or exclusion or limitation on damages may not apply to you.

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

For information about this warranty write:



www.desatech.com



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