DESA INTERNATIONAL

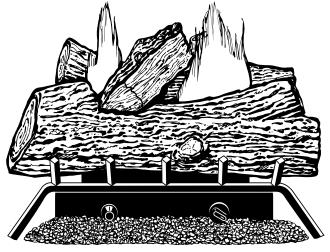
UNVENTED (VENT-FREE) PROPANE GAS LOG HEATER

Manually Control Models Also Designed Certified as Vented Decorative Appliance
This appliance may be installed in an aftermarket* manufactured (mobile) home,
where not prohibited by state or local codes.

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

OWNER'S OPERATION AND INSTALLATION MANUAL

FLAME-MAX™ Standard Split Combo Design





18" and 24" Variable Manually-Controlled Models

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 gas log set is for installation in a masonry solid fuel burning fireplace, a U.L. listed manufactured solid fuel burning fireplace or an AGA design certified vent-free firebox listed for use with these gas log models.

WARNING: This is an unvented gasfired 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 in this manual.

Save this manual for future reference.

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SAFETY INFORMATION

A WARNINGS

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.

Propane Gas: Propane 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.

Safety Information continues on next page

SAFETY INFORMATION

Continued

A WARNINGS Continued

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

- 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. Do not place propane supply tank(s) inside any structure. Locate propane supply tank(s) outdoors.
- 3. 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
- 4. This heater shall not be installed in a bedroom or bathroom.
- 5. Never install the heater
 - in a recreational vehicle
 - where curtains, furniture, clothing, or other flammable objects are less than 36 inches from the front, top, or sides of the heater
 - in high traffic areas
 - in windy or drafty areas
- 6. 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.
- 7. 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
- 8. You must operate this heater with a fireplace screen in place. Make sure fireplace screen is closed before running heater.
- 9. 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.
- 10. Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns. Ceiling fans can create drafts that alter burner flame patterns. Altered burner patterns can cause sooting.
- 11. Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.
- 12. This heater needs fresh, outside air ventilation to run properly. This heater has an oxygen depletion sensor (ODS) pilot light safety system. The ODS shuts down the heater if not enough fresh air is available. See *Air for Combustion and Ventilation*, pages 5 through 8. If heater keeps shutting off, see *Troubleshooting*, pages 24 through 27.
- 13. Do not run heater
 - where flammable liquids or vapors are used or stored
 - under dusty conditions
- 14. Do not use this heater to cook food or burn paper or other objects.
- 15. Never place any objects on the heater.
- 16. 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 shut-down. Allow surface to cool before touching.
- 17. Carefully supervise young children when they are in the room with heater.
- 18. Do not use heater if any part has been exposed to or 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.
- 19. Do not operate heater if any log is broken. Do not operate heater if a log is chipped (dimesized or larger).
- 20. Turn heater off and let cool before servicing. Only a qualified service person should service and repair heater.
- 21. Operating heater above elevations of 4,500 feet could cause pilot outage.

PRODUCT IDENTIFICATION

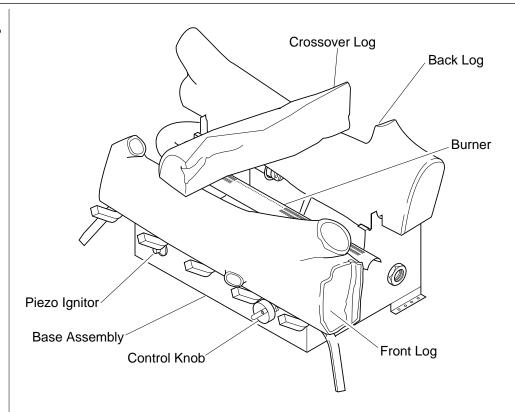


Figure 1 - Flame-Max™ Standard Split Combo

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, also known as 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

- 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.
- 3. 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. State and local codes in some areas prohibit the use of vent-free heaters. You can operate heater as a vented product by opening flue damper.

Safety Device

This heater has a pilot with an Oxygen Depletion Sensor Shutoff System (ODS). 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

A WARNING

This heater shall not be installed in a confined space 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 fuel-burning appliances.

AIR FOR COMBUSTION AND VENTILATION

PROVIDING ADEQUATE VENTILATION

The following is exerpts 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 Contruction; 2. Unconfined Space; 3. Confined Space.

The information on pages 5 through 8 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 or less with openings gasketed or sealed <u>and</u>
- b. weather stripping has been added on openable windows and doors and
- c. caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at 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 8.

If your home does not meet all of the three criteria above, proceed to page 6.

Unconfined Space

The *National Fuel Gas Code*, *ANSIZ223.1*, *1992*, *Section 5.3* defines unconfined space as having a minimum air volume of 50 cubic feet (127 cubic cm) for each 1000 Btu/Hr input rating of all appliances in the space (cubic feet equals length x width x height of space). Include adjoining rooms only if there are doorless passageways or ventilation grills between the rooms.

Confined Space

The *National Fuel Gas Code, ANSIZ223.1, 1992, Section 5.3* defines confined space as having an air volume of less than 50 cubic feet (127 cubic cm) for each 1000 Btu/Hr input rating of all appliances in the space (cubic feet equals length x width x height of space). Include adjoining rooms only if there are doorless passageways or ventilation grills between the rooms.

AIR FOR COMBUSTION AND VENTILATION

Continued

DETERMINING 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 t	he volume of	the space (le	engt	h x width	x height).	
	Length x Wine Example:	idth x Height Space size				idth) x 8 ft.	ft. (volume of space) (ceiling height) =
			to adjoining root the total vo			_	lls or openings, add the
2. Divide the space volume by 50 cubic feet to determine can support.						ine the max	ximum Btu/Hr the space
		(volum	e of space) ÷ :	50 cı	u. ft. = (ma	ximum Btu	/Hr the space can support)
		560 cu. ft. (v pace can sup		ce)	÷ 50 cu. ft	s. = 51.2 or s	51,200 (maximum
3.	Add the Btu	/Hr of all fue	el burning app	oliai	nces in the	space.	
		Vent-free h	eater				Btu/Hr
		Gas water h	neater*				Btu/Hr
		Gas furnace					Btu/Hr
	Vented gas heater						
		Gas fireplac	-				
		Other gas a	ppliances*	+			
		Total		=			Btu/Hr
	Example:	Gas water h	neater			40,000	Btu/Hr
		Vent-free h	eater	+		31,500	Btu/Hr
		Total		=		71,500	Btu/Hr
		clude direct-velude direct-velocity to the		ance	es. Direct-	vent draws	combustion air from the
4.	Compare the used.	e maximum I	Btu/Hr the sp	ace	can suppo	rt with the	actual amount of Btu/Hr
			Stu/Hr (maxiı Stu/Hr (actua				
	Example:		8tu/Hr (maxii 8tu/Hr (actua		-		
th	_	num Btu/Hr t	he space can		_		ctual Btu/Hr used is more de additional fresh air.

- 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 8.
- B. Vent room directly to the outdoors. See Ventilation Air From Outdoors, page 8.
- 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.

AIR FOR COMBUSTION AND VENTILATION Continued

A WARNING

If the area in which the heater may be operated is smaller than that defined as an unconfined space, provide adequate combustion and ventilation air by one of the methods described in the *National Fuel Gas Code, ANSI Z223.1, 1992, Section 5.3.*

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 NFPA 54/ANSI Z223.1*, *Section 5.3*, *Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

A WARNING

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.

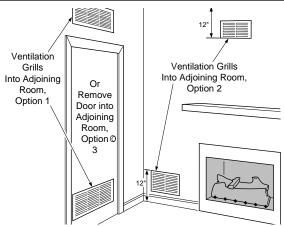


Figure 2 - Ventilation Air from Inside Building

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.

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.

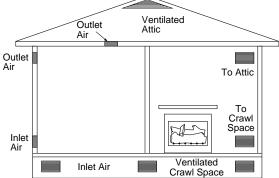


Figure 3 - Ventilation Air from Outdoors

NOTICE

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.

A 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. Inspect chimney flue for damage. If damaged, operate heater with flue damper closed.

A 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 heat-resistant sealant. Do not seal chimney flue damper.

A 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 36 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 in the air (such as tobacco smoke) exist, may discolor 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 5 through 8.

CHECK GAS TYPE

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

Continued

INSTALLATION AND CLEARANCES (Vent-Free Operation Only)

AWARNING

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 Floor				
18" and 24"	16"	42"	5"	

LOG SIZING REQUIREMENTS					
Log Minimum Firebox Size					
Size	Height	Depth	Front Width	Rear Width	
18"	17"	14"	20"	18"	
24"	17"	14"	26"	22"	

Carefully follow the instructions below. This will ensure safe installation into a masonry or U.L. listed manufactured fireplace.

Minimum Wall and Ceiling Clearances (see Figure 4)

- A. Clearances from the side of the fireplace opening to any combustible wall should not be less than 16 inches.
- B. Clearances from the top of the fireplace opening to the ceiling should not be less than 42 inches.

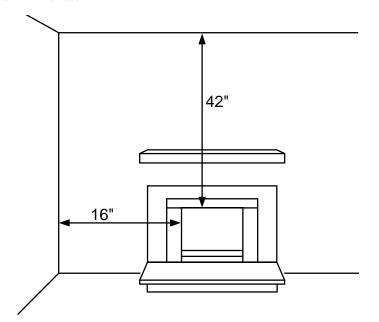


Figure 4 - Minimum Clearance to Wall and Ceiling

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, non-combustible material above fireplace opening is not needed. Go to *Installing Damper Clamp Accessory for Vented Operation*, page 14.

Minimum Non Combustible Material Clearances

If Not Using Mantel

Note: If using a mantel, go to page 12. If not using a mantel, follow the information on this page.

You must have non combustible material(s) above the fireplace opening. Non combustible materials (such as slate, marble, tile, etc.) must be at least 1/2 inch thick. With sheet metal, you must have non combustible material behind it. Non combustible material must extend at least 8" up (for all models). If non combustible material is less than 12", you must install the fireplace hood accessory (24" model only). See chart below and Figure 4 page 10 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 14.

Non-Combustible Material Distance (A)	Requirements for Safe Installation
12" or more	Non combustible material OK.
Between 8" and 12"	24" Model: Install fireplace hood accessory (GA6050 or GA6052, see <i>Accessories</i> , page 29).
	18" Model: Non combustible material OK.
Less than 8"	Non combustible 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.

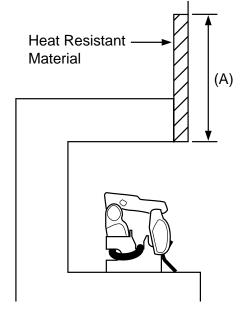


Figure 5 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace

Continued

Minimum Non Combustible Material Clearances If Using Mantel

You must have non combustible material(s) above the fireplace opening. Non combustible materials (such as slate, marble, tile, etc.) must be at least 1/2 inch thick. With sheet metal, you must have non combustible material behind it. Non combustible material must extend at least 8 inches up (for all models). If non combustible material is less than 12", you must install the fireplace hood accessory (24" model only). Even if non combustible material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See chart below and Figures 6 and 7 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 14.

Non-Combustible Material Distance (A)	Requirements for Safe Installation
12" or more	Non combustible material OK.
Between 8" and 12"	24" Model: Install fireplace hood accessory (GA6050 or GA6052, see <i>Accessories</i> , page 29).
	18" Model: Non combustible material OK.
Less than 8"	Non combustible 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.

Mantel Clearances

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

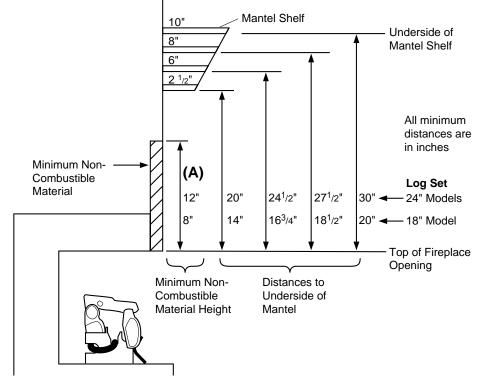


Figure 6 - Minimum Mantel Clearances Without Using Hood

If above minimum clearances are not met, you must have a hood. Follow minimum clearances shown in Figure 7 on page 13 when using hood.

Continued

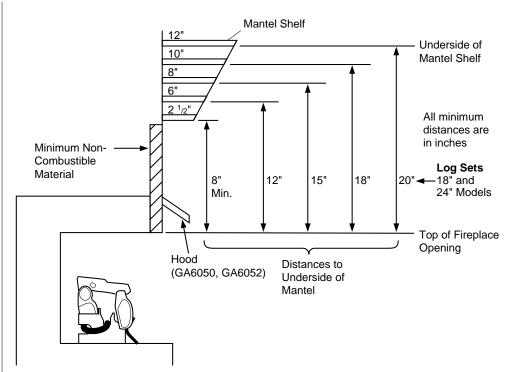


Figure 7 - Minimum Mantel Clearances When Using Hood

If your installation does not meet the above minimum clearances, you must:

- operate the logs only with the flue damper open, OR
- raise the mantel to an acceptable height, OR
- 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).

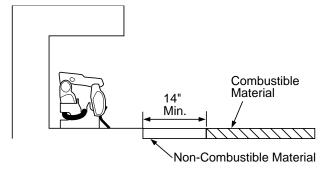


Figure 8 - Minimum Fireplace Clearances If Installed at Floor Level

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).

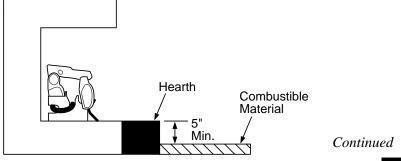


Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

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.

If your heater is a manually controlled model, you may use this heater as a vented product. There are three reasons for operating your heater in the vented mode.

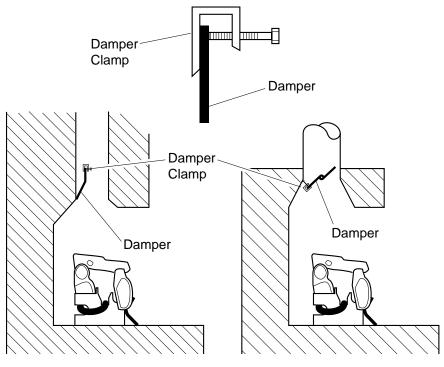
- 1. The fireplace does not meet the clearance to combustibles requirements for vent-free operation.
- 2. State or local codes do not permit vent-free operation.
- 3. You prefer vented operation.

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 29). This will insure vented operation (see Figure 10). The damper clamp will keep damper open. Installation instructions are included with clamp accessory.

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



Masonry Fireplace

Manufactured Fireplace

Figure 10 - Attaching Damper Clamp

Continued

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 non-combustible 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.

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

Installation Items Needed

- hardware package (provided with heater)
- approved flexible gas hose (not provided) (if allowed by local codes)
- sealant (resistant to LP gas, not provided)
- electric drill with 3/16" drill bit (metal or masonry as applicable)
- 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.
- 2. Locate two masonry screws in hardware package.
- 3. Position heater base assembly in fireplace.
- 4. Mark screw locations through one hole on each side of the mounting bracket (see Figure 12, page 16). If installing in a brick-bottom fireplace, mark screw locations in mortar joint of bricks.
- 5. Remove heater base from fireplace.
- 6. Drill holes at marked locations using 3/16" drill bit.
- 7. Attach base assembly to fireplace floor using two masonry screws (in hardware package).
- 8. Connect to gas supply. See Connecting To Gas Supply, page 16.

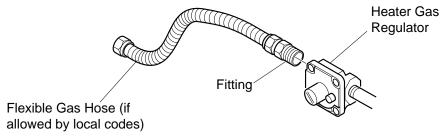


Figure 11 - Attaching Flexible Gas Hose to Heater Gas Regulator

Continued

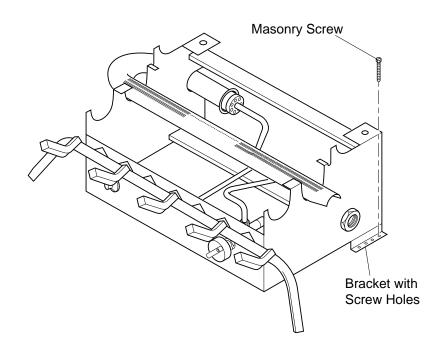


Figure 12 - Attaching Base Assembly to Fireplace Floor

CONNECTING TO GAS SUPPLY

NOTICE

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

A CAUTION

Never connect heater directly to the propane supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane supply.

Installation Items Needed

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

- external regulator (supplied by installer, see page 16)
- piping (check local codes)
- sealant (resistant to LP gas)
- manual shutoff valve *

- test gauge connection *
- sediment trap
- tee joint
- pipe wrench
- * An A.G.A. design-certified manual shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional A.G.A. design-certified manual shutoff valve from your dealer. See *Accessories*, page 29.

Continued

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. 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 13. Pointing the vent down protects it from freezing rain or sleet.

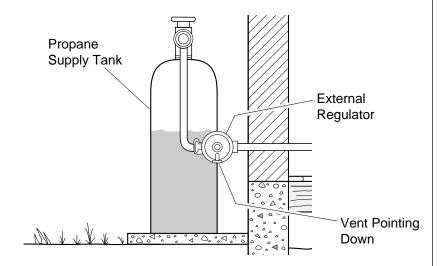


Figure 13- External Regulator With Vent Pointing Down

A WARNING

Never connect heater to private (non-utility) gas wells. This gas is commonly known as well-head 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 pressure will occur.

Installation must include a manual 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 14, page 18).

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.

A CAUTION

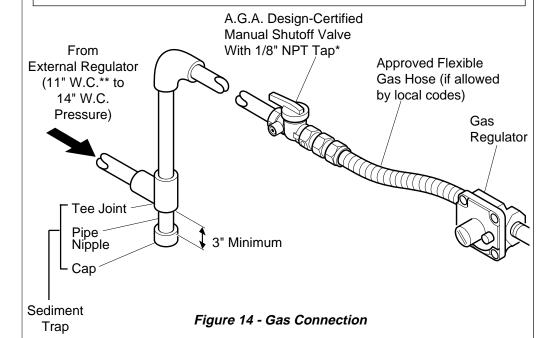
Use pipe joint sealant that is resistant to liquid petroleum (LP) gas.

Install sediment trap in supply line as shown in Figure 14, page 18. Locate sediment trap where it is within reach for cleaning. 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.

Continued

A CAUTION

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



- * Purchase the optional A.G.A. design-certified manual shutoff valve from your dealer. See *Accessories*, page 29.
- ** Minimum inlet pressure for purpose of input adjustment.

CHECKING GAS CONNECTIONS

A 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 mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks at once.

A CAUTION

Make sure external regulator has been installed between propane supply and heater. See guidelines under *Connecting to Gas Supply*, page 16.

Pressure Testing Gas Supply Piping System Test Pressures In Excess Of 1/2 PSIG

- 1. Disconnect heater and its individual manual 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 manual shutoff valve was connected.

Continued

- 3. Pressurize supply piping system by either using compressed air or opening propane 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 at once.
- 6. Re-connect heater and manual shutoff valve to gas supply. Check re-connected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG

- 1. Close manual shutoff valve (see Figure 15).
- 2. Pressurize supply piping system by either using compressed air or opening propane supply tank valve.
- 3. Check all joints from propane supply tank to manual shutoff valve (see Figure 15). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

Pressure Testing Heater Gas Connections

- 1. Open manual shutoff valve (see Figure 15).
- 2. Open propane supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- 4. Check all joints from manual shutoff valve to control valve (see Figure 16). Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Light heater (see *Operating Heater*, pages 21 through 23). Check all other internal joints for leaks.
- 7. Turn off heater (see To Turn Off Gas to Appliance, page 23).

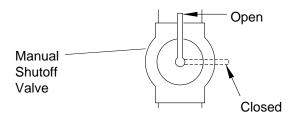


Figure 15 - Manual Shutoff Valve

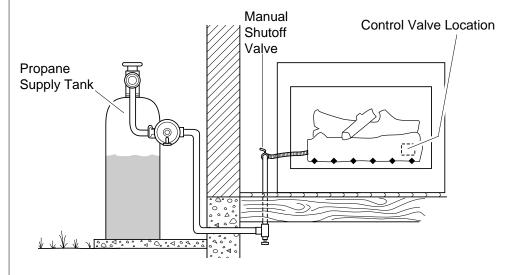


Figure 16 - Checking Gas Joints

Continued

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.

Each log is marked with a number. These numbers will help you identify the log when installing. It is very important to install these logs exactly as instructed. Do not modify logs. Only use logs supplied with heater.

- 1. Locate pegs on the bottom of back log (#1). Slide these pegs into the holes in the grate base behind the burner (see Figure 17).
- 2. Locate the notches on the back of the front log (#2). Slide these notches over the tabs of the grate base (see Figure 18).
- 3. Locate the notches in the bottom of the crossover log (#3). Place the crossover log on top of the back log and front log. Make sure the notches of the crossover log line up with rectangular knobs on top of the back and front logs (see Figure 19).
- 4. Add lava rock around base of heater.

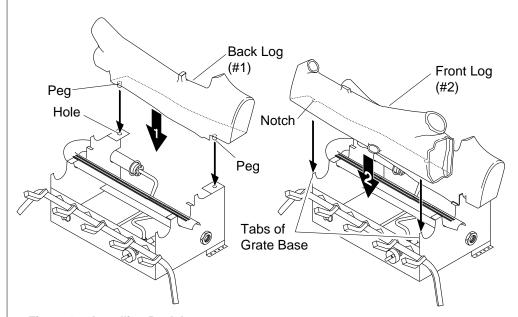


Figure 17 - Installing Back Log

Figure 18 - Installing Front Log

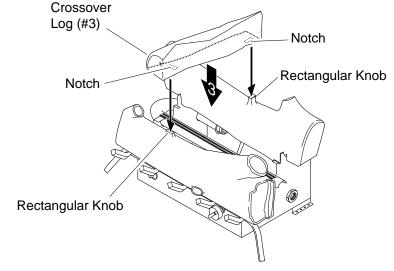


Figure 19 - Installing Crossover Log

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

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 paperburning smell. Open damper or window to vent smell. This will only last a few hours.

Note: Homeowners 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 High 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 above.
- 2. Make sure manual shutoff valve is fully open.
- 3. Press in and turn control knob clockwise to the OFF position.

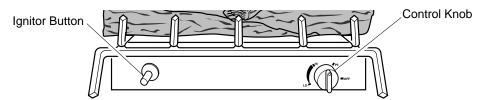


Figure 20 - Control Knob and Ignitor Button Location Continued

OPERATING HEATER

Continued

- 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 on page 21. 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 20, page 21). *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 out when released, contact a qualified service person or gas supplier for repairs.
- 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 23.

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.

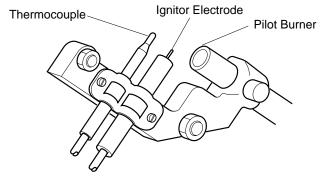


Figure 21 - Pilot

8. Slightly depress and turn control knob counterclockwise to the HIGH position. The burner should light. Set control knob to any heat level between HIGH and LO.

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.

A CAUTION

Do not try to adjust heating levels by using the manual shutoff valve.

OPERATING HEATER

Shutting Off Heater 1. Press in and turn of

TO TURN OFF GAS TO APPLIANCE

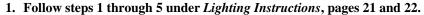


2. Turn the control knob clockwise to the PILOT position.3. Press in control knob and turn clockwise to the OFF Position.

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



- 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, pages 22 and 23.

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

Figure 22 shows a correct pilot flame pattern. Figure 23 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.

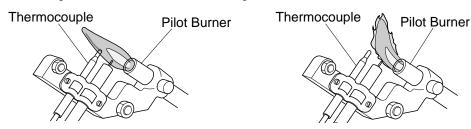


Figure 22 - Correct Pilot Flame Pattern

Figure 23 - Incorrect Pilot Flame Pattern

If pilot flame pattern is incorrect, as shown in Figure 23

- turn heater off (see To Turn Off Gas to Appliance, above)
- see Troubleshooting, pages 24 through 27

CLEANING AND MAINTENANCE

A WARNING

Turn off heater and let cool before cleaning.

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, etc.

ODS/PILOT AND BURNER

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

LOGS

- If you remove logs for cleaning, refer to *Installing Logs*, page 20, to properly replace logs.
- Replace log(s) if broken or chipped (dime-sized or larger).

TROUBLE-SHOOTING

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

A 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	Ignitor electrode not connected to ignitor cable	1. Reconnect ignitor cable
spark at ODS/pilot	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 ignitor
	7. Ignitor electrode broken	7. Replace ignitor

TROUBLE-SHOOTING

Continued

OBSERVED PROBLEM

When ignitor button is pressed, there is spark at ODS/pilot but no ignition

POSSIBLE CAUSE

Gas supply turned off or manual shutoff valve closed Control knot not in

- 2. Control knob not in PILOT position
- 3. Control knob not pressed in while in PILOT position
- 4. Air in gas lines when installed
- 5. Depleted gas supply
- 6. ODS/pilot is clogged
- 7. Gas regulator setting is not correct

- REMEDY
- Turn on gas supply or open manual shutoff valve
- 2. Turn control knob to PILOT position
- 3. Press in control knob while in PILOT position
- Continue holding down control knob. Repeat igniting operation until air is removed
- 5. Contact local propane gas company
- Clean ODS/pilot (see Cleaning and Mainte- nance, page 24) or replace ODS/pilot assembly
- 7. Replace gas regulator

ODS/pilot lights but flame goes out when control knob is released

- 1. Control knob not fully pressed in
- 2. Control knob not pressed in long enough
- 3. Safety interlock system has been triggered
- 4. Manual shutoff valve not fully open
- 5. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following:
 - A) Low gas pressureB) Dirty or partially
- 6. Thermocouple connection loose at control valve

clogged ODS/pilot

- 7. Thermocouple damaged
- 8. Control valve damaged

- 1. Press in control knob fully
- After ODS/pilot lights, keep control knob pressed in 30 seconds
- 3. Wait one minute for safety interlock system to reset. Repeat ignition operation
- 4. Fully open manual shut-off valve
- 5. A) Contact local propane gas company
 - B) Clean ODS/pilot (see *Cleaning and Maintenance*, page 24) or replace ODS/pilot assembly
- 6. Hand tighten until snug, then tighten 1/4 turn more
- 7. Replace thermocouple
- 8. Replace control valve

TROUBLE-SHOOTING

OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
Burner does not light after ODS/pilot is lit	 Inlet gas pressure is too low Burner orifice clogged Burner orifice diameter is too small 	 Contact local natural gas company Clean burner (see Cleaning and Maintenance, page 24) or replace burner orifice Replace burner orifice
Delayed ignition burner	 Manifold pressure is too low Burner orifice clogged 	 Contact local propane/ LP gas company Clean burner (see Cleaning and Mainte- nance, page 24) or replace burner orifice
Burner backfiring during combustion	 Burner orifice is clogged or damaged Damaged burner Gas regulator defective 	 Clean burner (see Cleaning and Maintenance, page 24) or replace burner orifice Replace damaged burner Replace gas regulator
Slight smoke or odor during initial opera- tion	 Not enough air Gas regulator defective Residues from manufacturing processes and logs curing 	 Check burner for dirt and debris. If found, clean burner (see Cleaning and Maintenance, page 24) Replace gas regulator Problem will stop after a few hours of operation
Heater produces a whistling noise when burner is lit	 Turning control knob to HI position when burner is cold Air in gas line Air passageways on heater blocked 	 Turn control knob to LO position and let warm up for a minute Operate burner until ai is removed from line. Have gas line checked by local natural gas company Observe minimum installation clearances (see pages 10-13) Clean burners (see
	Dirty or partially clogged burner orifice	4. Clean burners (see Cleaning and Maintenance, page 24) or replace burner orifice
Moisture/condensation noticed on windows	Not enough combustion/ventilation air	1. Refer to <i>Air for Combustion and Ventilation</i> requirements (page 5)

TROUBLE-SHOOTING

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.

While cooling excessive, contact qualified service personance from paint, hair spray, glues, cleaners, chemicals, new carpet, etc. (See IMPORTANT statement above) 2. Gas leak. See Warning statement at top of page 1. Not enough fresh air is available 2. Low line pressure 2. Contact local natural gas company 3. ODS/pilot is partially clogged 2. Contact local natural gas company 3. ODS/pilot is partially clogged 3. Clean ODS/pilot (see Cleaning and Maintenance, page 24) 3. Replace control valve defective 3. Replace control valve and burner control valve and burner 2. Gas leak. See Warning statement at top of page combustion 3. Foreign matter between control valve and burner 2. Gas leak. See Warning statement at top of statement	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
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2. Low line pressure 2. Contact local natural gas company 3. ODS/pilot is partially clogged 3. Clean ODS/pilot (see Cleaning and Maintenance, page 24) Gas odor even when control knob is in OFF position 1. Gas leak. See Warning statement at top of page Connections, page 18) 2. Control valve defective 2. Replace control valve Gas odor during combustion 1. Foreign matter between control valve and burner control valve and burner 2. Gas leak. See Warning statement at top of leaks (see Checking Gas leaks) 2. Locate and correct leaks (see Checking Gas leaks) 3. Clean ODS/pilot (see Cleaning and Maintenance, page 24) 1. Locate and correct leaks (see Checking Gas odor during control valve and burner leaks) 3. Clean ODS/pilot (see Cleaning and Maintenance, page 24) 1. Locate and correct leaks (see Checking Gas odor during control valve and burner leaks) 4. Clean ODS/pilot (see Cleaning and Maintenance, page 24) 1. Locate and correct leaks (see Checking Gas odor during control valve and burner leaks (see Checking Gas odor during control valve and burner leaks) 4. Clean ODS/pilot (see Cleaning and Maintenance, page 24) 1. Locate and correct leaks (see Checking Gas odor during control valve and burner leaks) 4. Clean ODS/pilot (see Cleaning and Maintenance, page 24) 1. Locate and correct leaks (see Checking Gas odor during control valve and burner leaks (see Checking Gas odor during control valve and burner leaks) 2. Locate and correct leaks (see Checking Gas odor during control valve and burner leaks)			
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2. Gas leak. See Warning 2. Locate and correct statement at top of leaks (see <i>Checking G</i>			Take apart gas tubing and remove foreign matter
	Comoustion	2. Gas leak. See Warning	2. Locate and correct all leaks (see <i>Checking Gas Connections</i> , page 18)

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact DESA International's Technical Service Department at 1-800-DESA LOG (1-800-337-2564).

SPECIFICATIONS

	18" Variable Manually-	24" Variable Manually-
	Controlled	Controlled
Btu (Variable)	16,000/27,000	16,000/31,500
Type Gas	Propane Only	Propane Only
Ignition	Piezo	Piezo
Pressure Manifold	8.0" W.C.	8.0" W.C.
Inlet Gas Pressure (in. of water) Maximum	14"	14"
Minimum* * For purpose of input adjus	11" tment	11"
Shipping Weight	27 lbs.	29 lbs.

SERVICE HINTS

When gas pressure is too low

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

When gas quality is bad

- pilot will not stay lit
- burners will produce flames and soot
- heater will backfire when lit

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

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 DESA International's Technical Service Department at 1-800-323-5190.

When calling DESA International, have ready

- your name
- your address
- model number 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 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 DESA International's Parts Department at 1-800-972-7879 for referral information.

When calling DESA International, have ready

- model number of your heater
- the replacement part number

ACCESSORIES

Purchase these heater accessories from your local dealer. If they can not supply these accessories, call DESA International's Parts Department at 1-800-972-7879 for referral information. You can also write to the address listed on the back page of this manual.

MANUAL SHUTOFF VALVE - GA5010

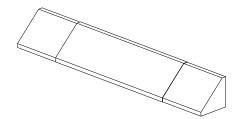
For all models. Manual shutoff valve with 1/8" NPT tap. Fits 1/2" NPT pipe.

BLACK FIREPLACE HOOD - GA6050

For all models. Helps deflect heat away from mantel or wall above fireplace. Fits openings 28" to 48" wide.

BRASS FIREPLACE HOOD - GA6052

For all models. Helps deflect heat away from mantel or wall above fireplace. Fits openings 28" to 48" wide.

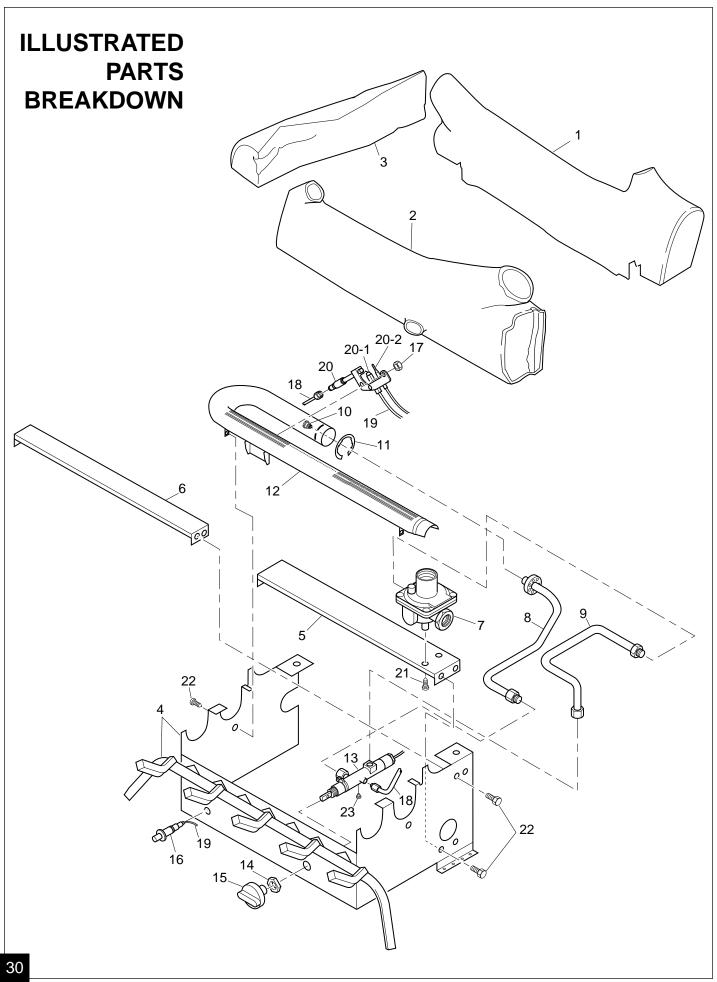


DAMPER CLAMP - GA6080

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

LAVA ROCK - GA6060

For all models. Order when additional rock is desired. (3 lb. bag)



PARTS LIST

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under *Replacement Parts* on page 32 of this manual.

KEY NO.	PART NUMBER FOR					
	VYS18P	CFYS18P	VYS24P	CFYS24P	DESCRIPTION	QTY.
1	102968-01	102968-01	102968-02	102968-02	Back Log (#1)	1
2	102969-01	102969-01	102969-02	102969-02	Front Log (#2)	1
3	102970-01	102970-01	102970-02	102970-02	Crossover Log (#3)	1
4	102774-02BR	102774-02BR	102774-01BR	102774-01BR	Painted Base Assembly	1
5	102844-01	102844-01	102844-01	102844-01	Lower Bracket	1
6	102966-01	102966-01	102966-01	102966-01	Upper Bracket	1
7	098867-10	098867-10	098867-10	098867-10	Gas Regulator	1
8	102798-01	102798-01	102798-01	102798-01	Inlet Tube	1
9	102780-03	102780-03	102780-03	102780-03	Outlet Burner Tube	1
10	099056-21	099056-21	099056-19	099056-19	Burner Orifice Injector	1
11	102843-01	102843-01	102843-01	102843-01	Burner Clip	1
12	102963-01	102963-01	102773-01	102773-01	Burner	1
13	102568-08	102568-08	102568-08	102568-08	Control Valve	1
14	098508-01	098508-01	098508-01	098508-01	Valve Retainer Nut	1
15	098354-01	098354-01	098354-01	098354-01	Control Knob	1
16	102445-01	102445-01	102445-01	102445-01	Piezo Ignitor	1
17	098249-01	098249-01	098249-01	098249-01	Nut, M5	2
18	099387-08	099387-08	099387-08	099387-08	Pilot Tube	1
19	098271-07	098271-07	098271-07	098271-01	Ignitor Cable	1
20	099059-02	099059-02	099059-02	099059-02	ODS Pilot	1
20-1	099594-01	099594-01	099594-01	099594-01	Ignitor Electrode	1
20-2	098593-01	098593-01	098593-01	098593-01	Thermocouple	1
21	M11084-38	M11084-38	M11084-38	M11084-38	Regulator Screw	2
22	098304-03	098304-03	098304-03	098304-03	Screw, PPH #8	9
23	098276-01	098276-01	098276-01	098276-01	Hex Head Plug, 1/8" NPT	1
		PAR	TS AVAILABLE	— NOT SHOWN	I	
	100563-01	100563-01	100563-01	100563-01	Warning Plate	1
	101055-02	101055-02	101055-02	101055-02	Lighting Instructions Plate	1
	100565-01	100565-01	100565-01	100565-01	Warning Plate Fastener	1
	100639-01	100639-01	100639-01	100639-01	Caution Decal	1
	101449-04	101449-04	101449-04	101449-04	Control Position Decal	1
	101137-02	101137-02	101137-02	101137-02	Hardware Kit	1
	101416-17	101416-17	101416-17	101416-17	Information Video	1
	GA6060	GA6060	GA6060	GA6060	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.

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DESA International warrants this product to be free from defects in materials and components for three (3) 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 DESA Authorized Service Center. Warranty part(s) MUST be obtained through authorized dealers of this product and/or DESA International 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.

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