

UNVENTED (VENT-FREE) GAS LOG HEATER OWNER'S OPERATION AND INSTALLATION MANUAL







We recommend that our products be installed and serviced by professionals who are certified in the U.S. by NFI (National Fireplace Institute). www.nficertified.org

MODELS VF-18N-MHD, VF-18P-MHD, VF-24N-MHD AND VF-24P-MHD



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SAFETY

A 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.

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

A 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 5 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

SAFETY Continued

WARNING: This product contains and/or generates chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

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.

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 and Propane/LP Gas: Natural and propane/LP gases are odorless. An odor-making agent is added to these gases. 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 use a blower insert, heat exchanger insert or other accessory not approved for use with this heater. WARNING: Do not allow fans to blow directly into the heater. 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 place log scraps or lava rocks on burner.

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.

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

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

- 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.
- Do not place propane/LP supply tank(s) inside any structure. Locate propane/LP supply tank(s) outdoors (propane/LP units only).
- 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. 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, repair flue before operating heater.
- Do not burn solid-fuel in a masonry or UL127 factory-built fireplace in which a vent-free room heater is installed.
- 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. Make sure there are no obstructions across openings of fireplace.
- To prevent the creation of soot, follow the instructions in <u>Cleaning and Maintenance</u>, 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) pilot light safety system. The ODS shuts down the heater if not enough fresh air is available. See <u>Air for Combustion and Ventilation</u>, page 5. If heater keeps shutting off, see <u>Troubleshooting</u>, page 21.
- 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 inspect the room heater and to replace any part of the control system and any gas control which has been under water.
- 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 or repairing. Only a qualified service person should install, service or repair heater.
- 16. This heater does not need to be connected to any external electrical source.
- To prevent performance problems, do not use propane/LP fuel tank of less than 100 lb. capacity (propane/LP units only).
- Operating heater above elevations of 4,500 feet could cause pilot outage.
- 19. Provide adequate clearances around air openings.

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

1. Remove log set assembly from carton.

UNPACKING

Note: Do not pick up assembly by logs. This could damage heater. Always handle assembly by grate.

- 2. Remove all protective packaging applied to log set for shipment.
- 3. Check heater for any shipping damage. If heater is damaged call DESA Heating, LLC at 1-866-672-6040 for replacement parts before returning to dealer.



Chassis Assembly

Figure 1 - Product Identification

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

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

Sellers of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

Vent-free gas products are prohibited for bedroom and bathroom installation in the Commonwealth of Massachusetts.

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 flames and glowing ceramic logs/ coals. 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.

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.

REMOTE IGNITION AND CONTROL

This gas log set has a battery powered electronic remote ignition and control. This system requires no matches or other source to light log set.

AIR FOR COMBUSTION AND VENTILATION

A WARNING: This fireplace shall not be installed in a room or space unless the required volume of indoor combustible air is provided by the method described in the National Fuel Gas Code, ANSI Z223.1/ NFPA 54, the International Fuel Gas Code, or applicable local codes. 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.

AIR FOR COMBUSTION AND VENTILATION Continued

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.

PROVIDING ADEQUATE VENTILATION

The following are excerpts from National Fuel Gas Code, ANSI Z223.1/NFPA 54, 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 5 through 7 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 and
- 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 <u>Ventilation Air From Outdoors</u>, page 7. If your home does not meet all of the three criteria above, proceed to <u>Determining</u> <u>Fresh-Air Flow For Heater Location</u>.

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/hr (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/hr (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.

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.

 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) = 2,560 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: 2,560 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.

| Btu/Hr |
|--------|
| Btu/Hr |
| |

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

AIR FOR COMBUSTION AND VENTILATION Continued

| Example: | | |
|----------------------|--------|---------|
| Gas water heater | 40,000 | _Btu/Hr |
| Vent-free fireplace+ | 33,000 | _Btu/Hr |
| Total= | 73,000 | Btu/Hr |
| Total= | 73,000 | _Btu/ |

- Compare the maximum Btu/Hr the space can support with the actual amount of Btu/Hr used.
 - _____Btu/Hr (max the space can support) _____Btu/Hr (actual amount Btu/Hr used)
 - Example: 51,200 Btu/Hr (maximum the space can support)

73,000 Btu/Hr (actual amount of Btu/Hr used)

The space in the 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 <u>Ventilation Air From Inside Building</u>.
- B. Vent room directly to the outdoors. See <u>Ventilation Air From Outdoors</u>.
- C. Install a lower Btu/Hr fireplace, 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.

A WARNING: If the area in which the heater may be operated does not meet the required volume for indoor combustion air, combustion and ventilation air shall be provided by one of the methods described in the National Fuel Gas Code, ANSIZ223.1/NFPA 54, the International Fuel Gas Code, or applicable local codes.

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 Z*223.1/*NFPA 54, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.



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. Follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, 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 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.

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 may create and distribute soot within the house. Inspect chimney and firebox flue for damage. If damaged, repair flue and firebox before operating heater.

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. 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" from the front, and 42" from top of heater. For side clearances see Figure 4, page 9
- 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.

WARNING: Antenna and ignition cable must maintain a spacing of 3/4". Failure to keep them separated will result in damage to the receiver. See <u>Wiring Diagram</u> on page 24.

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 <u>Air for Combustion and Ventilation</u>, page 5.

CHECK GAS TYPE

Use the correct gas type (natural or propane/ LP) for your unit. If your gas supply is not correct, do not install heater. Call dealer where you bought heater for proper type heater.

WARNING: This appliance is equipped for either natural gas or propane/LP gas but not both. Gas type is indicated on the rating plate. Field conversion is not permitted.

INSTALLATION AND CLEARANCES FOR VENT-FREE OPERATION

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

MINIMUM FIREPLACE CLEARANCE TO COMBUSTIBLE MATERIALS Side Wall 16", Ceiling 42", Floor 5", Front 36"

| LOG SIZING REQUIREMENTS | | | | |
|-------------------------|----------------------|-------|-------|----------------------------------|
| | Minimum Firebox Size | | | |
| Log | | | Front | Rear* |
| Size | Height | Depth | Width | Width |
| 18" | 20" | 14" | 35" | 22 ¹ / ₂ " |
| 24" | 20" | 14" | 35" | 22 ¹ / ₂ " |

*Measured at 14" depth

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

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 $3 \frac{1}{2}$ 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".



Figure 4 - Minimum Clearance for Combustible to Wall

Minimum Noncombustible Material Clearances If Not Using Mantel

Note: If using a mantel, proceed to <u>If Using</u> <u>Mantel</u>. If not using a mantel, follow the information below.

You must have noncombustible material(s) above fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" 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" models only). See Figure 5, page 10, for minimum clearances.

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" 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. Even if noncombustible material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See Figures 5, 6 and 7, page 10, for minimum clearances.

| Noncombustible Material Distance (A) | Requirements for Safe Installation | Heat Resistant ——— Material |
|--|--|--------------------------------|
| 12" or more | Noncombustible material OK | |
| Between 8" and 12" | Install fire place hood accessory (see <u>Accessories</u> , page 25). | |
| Less than 8 | Noncombustible material must be ex- tended to at least 8". See <u>Between 8"</u> <u>and 12"</u> , above. If you cannot extend material, you must operate heater with flue damper open. | B.Q |

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



Figure 6 - Minimum Mantel Clearances Without Using Hood



Figure 7 - Minimum Mantel Clearances When Using Hood

(A)

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MANTEL CLEARANCES

In addition to meeting noncombustible material clearances, you must also meet required clearances between fireplace openings and mantel shelf on each side of the fireplace. 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, page 10).

Determining Minimum Mantel Clearance When using a Hood

If minimum clearances in Figure 6, page 10 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, page 10 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 8 - Minimum Fireplace Clearances If Installed at Floor Level



Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

INSTALLING HEATER ASSEMBLY

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

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 and controls being damaged. Raise fireplace floor with noncombustible material. Make sure material is secure.

A CAUTION: Do not pick up heater assembly by the logs. 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.

IMPORTANT: Remote receiver module is attached to the valve by a velcro strap. This module needs to remain where installed. If removed and wires cross, this can cause the remote to fail.

Installation Items Needed

- control cover kit (provided with heater)
- approved flexible gas hose (if allowed by local codes)
- sealant (resistant to propane/LP gas, not provided)
- Apply pipe joint sealant lightly to male threads of gas fitting (not provided). Connect approved flexible gas hose to inlet side of gas control (see Figure 10). *IMPORTANT*: Hold gas fitting with wrench when connecting flexible gas hose.
- 2. Position heater assembly in fireplace.
- Connect to gas supply. See <u>Connecting</u> <u>to Gas Supply</u>.



Figure 10 - Attaching Flexible Gas Hose to Regulator

CONNECTING TO GAS SUPPLY

WARNING: This appliance requires a 1/2" NPT (National Pipe Thread) inlet connection to the shutoff valve.

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

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

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

Installation Items Needed

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

- external regulator (for propane/LP units only, supplied by installer)
- piping (check local codes)
- sealant (resistant to propane/LP gas)
- equipment shutoff valve *
- test gauge connection *
- sediment trap
- tee joint
- pipe wrench
- approved flexible gas line with gas connector (if allowed by local codes)

* A CSA 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 <u>Accessories</u>, page 25.

For propane/LP units, 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" 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 11. Pointing the vent down protects it from freezing rain or sleet.

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.



Figure 11 - External Regulator With Vent Pointing Down

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 12).

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.

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

We recommend that you install a sediment trap in supply line as shown in Figure 12. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and heater. Locate sediment trap



* Purchase the optional CSA design-certified equipment shutoff valve from your dealer. See <u>Accessories</u>, page 25.

** Minimum inlet pressure for purpose of input adjustment.

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 gas control. Hold gas control with wrench when connecting it to gas piping and/or fittings.

CHECKING GAS CONNECTIONS

WARNING: Test all gas piping and connections, internal and external to unit, 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.

CAUTION: Make sure external regulator has been installed between propane/LP supply and heater. See guidelines under <u>Connecting to Gas Supply</u>, page 12.

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

Test Pressures In Excess Of 1/2 PSIG (14" W.C.)

- 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.
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.

- Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG (14" W.C.)

- 1. Close equipment shutoff valve (see Figure 13).
- Pressurize supply piping system by either opening propane/LP supply tank valve for propane/LP gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.



Figure 13 - Equipment Shutoff Valve



Figure 14 - Checking Gas Joints for Natural Gas



Figure 15 - Checking Gas Joints for Propane/LP Gas

- Check all joints from gas meter to equipment shutoff valve for natural gas or propane/LP supply to equipment shutoff valve for propane/LP (see Figure 14 or 15). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 4. Correct all leaks at once.

PRESSURE TESTING HEATER GAS CONNECTIONS

- 1. Open equipment shutoff valve (see Figure 13).
- Open main gas valve located on or near gas meter for natural gas or open propane/LP supply tank valve.
- 3. Make sure control knob of heater is in the OFF position.
- Check all joints from equipment shutoff valve to control valve (see Figure 14 or 15). Apply noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
- 5. Correct all leaks at once.
- 6. Light heater (see <u>Operation</u>, page 15). Check all other internal joints for leaks.
- 7. Turn off heater (see <u>To Turn Off Gas to</u> <u>Appliance</u>, page 18).

ADDING EMBERS, LAVA ROCK AND DECORATIVE LOGS

The effect of glowing embers is created by placing ember material on the front burner.

- 1. Make sure the heater is OFF and has cooled if it has been running.
- Gently remove embers from the bag using gloves or tweezers. (This material is a skin irritant. Gloves or tweezers are recommended to prevent skin irritation). Separate the pieces.
- Add embers to front flat burner as shown in Figure 16. (12 pieces are supplied with 24" models and 8 pieces with 18" models.) Additional glowing effect can be achieved by fraying edges of ember material.



Figure 16 - Placement of Embers

INSTALLATION

Continued

4. Add lava rock and small decorative logs around base of heater if desired (see Figure 17). You may place lava rock and log pieces up to flat burner. DO NOT place rock or logs on front burner or on logs. Placing any material on unit other than ember material on front burner may result in production of carbon monoxide or soot.

WARNING: Do not operate unit without ember material correctly in place as shown in Figure 16, page 14. Do NOT place ember material anywhere else on the unit. Use only ember material supplied with unit. Excessive or incorrectly placed ember material may produce carbon monoxide or soot.

WARNING: Do not use rock wool or any other ember material not supplied with this unit.



Figure 17 - Placement of Lava Rock

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.

OPERATION

- 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.

OPERATION

Continued

REMOTE 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. Make sure there are no obstructions across openings of fireplace.
- 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. Orange flame will also be present. Open damper or window to vent smell. This will only last a few hours.

CAUTION: A mild gas flash within 10 seconds is normal during shutdown of this heater. Remain clear of the hearth area for the entire shutdown process to avoid possible injury.

- 1. STOP! Read the safety information, page 15.
- 2. Make sure equipment shutoff valve is fully open.
- 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, column 1. If you don't smell gas, go to the next step.
- Make sure ON/OFF switch is in "-" (ON) position.

WARNING: Burner will come on automatically within one minute after pilot burner is lighted.

Further short acoustic signals (0.2 sec., 1 Hz) indicate the ignition process until it is completed and main gas flows. If pilot is already lit, motor will turn on (max. flame height) while buttons are pressed down. If pilot does not light, see <u>Troubleshooting</u>, page 21.

- Press ▲ to turn on main burner and increase flame height. Press ▼ to decrease flame height and shut off main burner.
- 8. Short tapping of either button allows incremental change in flame height.
- 9. Press OFF button to switch off main gas and pilot gas.
- To leave pilot lit and shut off burners only, press ▼ to decrease flame height and shut off main burner.

FUNCTIONS OF REMOTE CONTROL

Battery

- After the charged battery has been correctly installed, the remote hand set is ready for operations.
- Remove the battery if the remote handset will not be used more than one year.

Changing Code

The control is radio frequency operated. A code (chosen from among 4,000 available codes) is preset for all valves, but can be changed if required (15 additional codes available). Change DIP switch position. (The DIP switch is located inside the hand held control at the top of the battery compartment.) Then press the receiver's reset button on the bottom of the receiver module until you hear a second (longer) signal. When pressing the \clubsuit button on the remote handset in the following 20 sec., the receiver learns the new code.

OPERATION Continued

Shut Off Procedure

To save battery power, press \bigvee to turn main gas to pilot gas. Press the OFF button to shut off the device including pilot flame. The device can be shut off with ON/OFF switch, thus disabling remote hand set.

Setting Display (°C/24h and °F /12h)

Press and hold OFF and ▼ until display changes from °F (and 12 hour clock) to °C (and 24 hour clock) or vice versa.

Setting The Time

- After connecting battery or by simultaneously pressing ▲ and ▼ the display will start to flash. You are in the set mode.
- From SET mode press ▲ to set the hour and ▼ to set the minute.
- Wait or press OFF to return to manual mode.

Battery Replacement

Remote handset battery needs to be changed when LED is dim. Battery life expectancy is 2 to 3 years. Replacement is recommended at the beginning of heating season. Battery needs to be changed when acoustic error message appears during ignition (see <u>Identifying Error Signals from Receiver</u>, page 24).

Changing Mode of Operation

- Press the SET button quickly to change the mode of operation in the following order: MAN, ★ TEMP, TEMP, TIMER.
- Manual flame height adjustment (MAN appears on display): Press ▲ to turn on the fire (main burner) or to increase flame height. Press ▼ to decrease flame or to go down to pilot only. The receiver acknowledges the transmission with an acoustic signal.
- The day time temperature mode (* TEMP appears on display): The sensor in the transmitter measures room temperature.



Figure 18 - Control Panel for Hand-Held Remote

The controller compares the room temperature with set temperature and sends a signal to the receiver to turn gas valve motor up or down, to adjust flame height accordingly.

- The nighttime setback temperature () TEMP appears on display): The sensor in the transmitter measures the temperature and adjusts it according to the nighttime setback temperature. There is a bigger temperature differential during this cycle.
- Timer: The timer mode (TIMER) operates much like the temperature mode above. The timer setting allows you to set specific times for on and off. (There are 2 burner on and 2 burner off cycles every 24 hours.) If the reading for the nighttime temp. is "- --", the motor will turn off the valve to standby pilot position and wait for the next burner on cycle. This display shows the setting temperature every 30 seconds.

Setting Temperature

- Select the desired mode of operation (day or night) by pressing the SET button briefly.
- Hold SET button until display flashes.
- Set temperature with the ▲ or ▼ (40°F is the minimum temperature).
- Wait or press OFF to go to temperature control mode.
- If temperature control in moon times should be off (lower battery consumption), decrease night temperature until "- - -" appears on display.

Set Timer

- Switch to timer mode by pressing the SET button briefly.
- Press the SET button until P1★ flashes.
- Set hours with and minutes with .
- Press SET briefly for the next burner cycle time.
- If all 4 times are set, pressing the OFF button or waiting will complete programming.

Shutting Off Heater

Press OFF button on remote control to switch off main gas and pilot gas.

Shutting Off Burner Only (pilot stays lit)

Press $\mathbf{\nabla}$ to decrease the flame height and shut off main burner.

OPERATION Continued

MANUAL LIGHTING PROCEDURE

WARNING: Manual lighting must be performed by a qualified service person.

The system has a "MANUAL OVERRIDE" feature that allows you to light with a match.

Lighting with a Match

- 1. STOP! Read the safety information on page 15.
- 2. Make sure equipment shutoff valve is fully open.
- Turn motor knob clockwise to to OFF position.
- Wait (5) minutes to clear any gas and then smell for gas around heater and near floor. If you smell gas, STOP! follow "B" on page 15. If you do not smell gas, go to the next step.
- Make sure ON/OFF switch is in "-" (ON) position.
- MAN-knob (valve) in MAN position, a metallic core is visible (see Figure 19).
- Push and hold down metal core fully by using a non-sharp object such as a pen. This lets the pilot gas flow.
- 8. Light pilot burner with a match, (see Figure 20).
- Continue holding down metal core for about 10 seconds. Pilot should stay lit after releasing metal core. If not, repeat step 1 thru 4.
- 10. Turn MAN knob to the ON position. This lets main gas flow.



 Turn motor knob to adjust flame. Knob has a slipping clutch that allows manual flame height adjustment as well as adjustment to pilot gas.



Figure 20 - Pilot

Lighting with Piezo Ignitor

- Disconnect ignitor cable from receiver and connect to Piezo Ignitor Tab (see Figure 19 and <u>Wiring Diagram</u> on page 24).
- STOP! Read safety information on page 15,
- 3. Make sure equipment shutoff valve is fully open.
- Wait (5) minutes to clear any gas and then smell for gas around heater and near floor. If you smell gas, STOP! follow "B" on page 15.
- 6. ON/OFF switch in "-" ON position.
- MAN knob on valve is in MAN position (see Figure 19), When in MAN position you can see a metallic core.
- 8. Push and hold down metal core fully with a pen while the pilot gas flows.
- 9. Press and release piezo ignitor button until pilot lights.
- Continue holding down metal core for about 10 seconds and then release the metal core. Pilot should stay lit. If not, repeat steps 1 through 4.
- 11. Turn MAN Knob to ON position main gas flows.
- 12. Turn motor knob to adjust flame. Knob has a slipping clutch that allows manual flame height adjustment.

TO TURN GAS OFF TO APPLIANCE

Press OFF button on remote control to switch off main gas and pilot gas or manually turn Motor knob clockwise to the "O" OFF position.

INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

PILOT FLAME PATTERN

Figure 21 shows a correct pilot flame pattern. Figure 22 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. When the thermocouple cools, the heater will shut down.

If pilot flame pattern is incorrect, as shown in Figure 22

- turn heater off (see <u>To Turn Off Gas to Appliance</u>, page 18)
- see <u>Troubleshooting</u>, page 21

Note: The pilot flame on natural gas units will have a slight curve, but flame should be blue and have no yellow or orange color.

Thermocouple -



Figure 21 - Correct Pilot Flame Pattern (Natural Gas Pilot Shown)

Thermocouple



Figure 22 - Incorrect Pilot Flame Pattern (Natural Gas Pilot Shown)

BURNER FLAME PATTERN

Figure 23 shows correct burner flame pattern.

NOTICE: Do not mistake orange flames with yellow tipping. Dirt or other fine particles are burned by heater, causing brief patches of orange flame.

If burner flame pattern is incorrect, as shown in Figure 24

- turn appliance off (see <u>To Turn Off Gas to</u> <u>Appliance</u>, page 18)
- see Troubleshooting, page 21



Figure 23 - Correct Burner Flame Pattern



Figure 24 - Incorrect Burner Flame Pattern

CLEANING AND MAINTENANCE

WARNING: Turn off heater and let cool before cleaning.

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

WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

BURNER INJECTOR HOLDER 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 3 months during operation and have heater inspected yearly by a qualified service person.

We also recommend that you keep the burner tube clean and free of dust and dirt. 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. 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.

Before cleaning, shut off unit, including pilot. Allow unit to cool for at least 30 minutes. You will need to remove the front log to access front burner.

1. Remove two screws from back of unit that attach main log assembly to base assembly (see Figure 25).

- Remove screws from left and right side of front log assembly to remove from base assembly (see Figure 25).
- 3. Inspect burner and primary air inlet holes on injector holder of each burner for dust and dirt (see Figures 25 and 26).
- 4. Blow air through the ports/slots and holes in the burner.
- 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.
- 6. Blow air into the primary air holes on the injector holder.
- In case any large clumps of dust have now been pushed into the burner repeat steps 5 and 6.



Figure 25 - Removing Front Log to Clean Front Burner



Figure 26 - Injector Holder on Front Burner Tube

WARNING: Turn off 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.

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

| OBSERVED PROBLEM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| When and are pressed at the same time, there is no spark at ODS/ pilot | Switch in OFF position (module gives long steady beep) Bad batteries (If batteries fail within 1 heating season, see cause no. 8) | Push switch on valve to "-" position Replace batteries |
| | 3. Ignitor electrode not con- nected to ignitor cable | 3. Reconnect ignitor cable |
| | 4. Ignitor cable pinched or wet | 4. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry |
| | 5. Broken ignitor cable 6. Bad piezo ignitor 7. Ignitor electrode positioned wrong or broken | Replace ignitor cable Replace piezo ignitor Replace pilot assembly |
| | 8. Bad module | 8. Replace module |
| When and are pressed, there is spark at ODS/pilot but no ignition | Gas supply turned off or equipment shutoff valve closed Bad batteries (If batteries fail within 1 heating season, see cause no. 9) | Turn on gas supply or open equipment shutoff valve Replace batteries |
| | 3. Control knob not in PILOT | 3. Turn control knob to PILOT |
| | 4. Control knob not pressed in | 4. Press in control knob while |
| | 5. Air in gas lines when in- stalled | 5. Continue holding down control knob. Repeat ignit- ing operation until air is removed |
| | 6. Depleted gas supply (pro- | 6. Contact local propane/LP |
| | 7. ODS/pilot is clogged | 7. Clean ODS/pilot (see <u>Clean-ing and Maintenance</u>, page 20) or replace ODS/pilot assembly. |
| | 8. Gas regulator setting is not | 8. Replace gas regulator |
| | 9. Bad module | 9. Replace module |
| Burner does not light after pilot is lit | 1. Inlet gas pressure is too low | 1. Contact local natural or propane/LP gas company |
| | 2. Wire disconnected from gas | 2. Reconnect leads (see <u>Wir-</u> ing Diagram, page 24) |
| | 3. Burner orifice(s) clogged | 3. Clean burner (see <u>Cleaning</u> <u>and Maintenance</u>, page 20) |
| | 4. Bad module | 4. Replace module |

Continued

| OBSERVED PROBLEM | POSSIBLE CAUSE | REMEDY |
|--|--|--|
| Delayed ignition burner | Manifold pressure is too low Burner orifice(s) clogged | Contact local natural or propane/LP gas company Clean burner (see <u>Cleaning</u> <u>and Maintenance</u>, page 20) or replace burner orifice |
| Burner backfiring during combustion | Burner orifice is clogged or damaged Damaged burner Gas regulator defective | Clean burner (see <u>Cleaning</u> <u>and Maintenance</u>, page 20) or replace burner orifice Replace damaged burner Replace gas regulator |
| Orange flame in burner during burner combustion | Not enough air Gas regulator defective | Check burner for dirt and debris. If found, clean burner (see <u>Cleaning and</u> <u>Maintenance</u>, page 20) Replace gas control |
| Slight smoke or odor during initial operation (first hour) | 1. Residues from manufac- turing processes and logs curing | 1. 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 | Turn control knob to LO position and let warm up for a minute Operate burner until air is removed from line. Have gas line checked by local natural or propane/LP gas company |
| | Air passageways on heater blocked Dirty or partially clogged burner orifice(s) | Observe minimum installation clearances (see page 9) Clean burner (see <u>Cleaning</u> <u>and Maintenance</u>, page 20) or replace burner orifice |
| White powder residue forming within burner box or on adja- cent walls or furniture | 1. When heated, vapors from furniture polish, wax, car- pet cleaners, etc. may turn into white powder residue | 1. Turn heater off when us- ing furniture polish, wax, carpet cleaners or similar products |
| Moisture/condensation no- ticed on windows | 1. Not enough combustion/ ventilation air | 1. Refer to <u>Air for Combustion</u> <u>and Ventilation</u> require- ments (page 5) |

Continued

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 |
|--|--|--|
| Remote does not function | Battery is not installed. Battery power is low Bad module | Replace batteries in re- ceiver and remote control Replace module |
| Heater produces a clicking/ ticking noise just after burner is lit or shut off | 1. Metal expanding while heating or contracting while cooling | This is normal with most heaters. If noise is exces- sive, 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>IMPOR-TANT</i> statement above) | Open window to venti- late room. Stop using odor causing products while heater is running |
| | Low fuel supply (propane/ LP only) Gas leak. See Warning statement at top of page | Refill supply tank (propane/ LP only) Locate and correct all leaks (see <u>Checking Gas Con-</u> <u>nections</u>, page 13) |
| Heater shuts off in use (ODS operates) | Not enough fresh air is available Low line pressure | Open window and/or door for ventilation Contact local natural or |
| | 3. ODS/pilot is partially clogged | 3. Clean ODS/pilot (see <u>Cleaning and Maintenance</u>, page 20) |
| | 4. Thermostat on remote is satisfied | 4. Adjust témperature |
| Gas odor even when control knob is in OFF position | 1. Gas leak. See Warning statement at top of page | 1. Locate and correct all leaks (see <u>Checking Gas Con-</u> nections, page 13) |
| | 2. Control valve or gas control defective | Replace control valve or gas control |
| 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 foreign matter Locate and correct all leaks (see <u>Checking Gas Con- nections</u>, page 13) |

Continued

IDENTIFYING ERROR SIGNALS FROM RECEIVER

| OBSERVED PROBLEM | POSSIBLE CAUSE | REMEDY |
|--|---|--------------------------------|
| Long signals (0.8 second tone, 0.2 second break) dur- ing ignition | Battery nearly down. (When signal appears the first time approximately 10 ignitions left) | Replace battery |
| 5 second continuous tone | Cable is not connected, ON/OFF switch is in OFF position | Connect cables |
| 5 short signals (8.2 second tone, 0.2 second break) | Ignition not successful, possible air in supply line | Switch to ON. Repeat procedure |

WIRING DIAGRAM



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 Heating, LLC at 1-866-672-6040. When calling DESA Heating, LLC, have ready:

- your name
- your address
- · model and serial numbers of your heater
- · how heater was malfunctioning
- · purchase date

SERVICE HINTS

When Gas Pressure Is Too Low

- · pilot will not stay lit
- burners will have delayed ignition
- · heater will not produce specified heat
- propane/LP gas supply may be low

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

Purchase these accessories from your local

dealer. If they can not supply these accessories

call DESA Heating, LLC at 1-866-672-6040 for

information. You can also write to the address

listed on the back page of this manual.

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 DESA Heating, LLC at 1-866-672-6040 for referral information. A list of authorized dealers can be found by visiting **www.desatech.com**. When calling DESA Heating, LLC, have ready:

- model and serial numbers of your heater
- · the replacement part number

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact DESA Heating, LLC at 1-866-672-6040. When calling please have your model and serial numbers of your heater ready.

You can also visit DESA Heating, LLC's web site at **www.desatech.com**.

ACCESSORIES

LAVA ROCK - GA6060

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

CLEANING KIT - CCK

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.

FIREPLACE HOOD Black - GA6050 Brass - GA6052 Antique Brass - GA6053

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

PARTS

MODELS VF-18N-MHD, VF-18P-MHD, VF-24N-MHD AND VF-24P-MHD



PARTS

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under <u>Replacement Parts</u> on page 25 of this manual.

| No. VF-18N-MHD VF-24N-MHD VF-24P-MHD DESCRIPTION QTY. 1 116853-001 116853-001 116853-001 Base 1 2 116853-02 116853-01 116853-01 Base Support 1 3 116943-02 116852-01 116850-01 116810-01 116810-01 Rear Burner 1 4 116952-01 116895-01 116811-01 116811-01 Front Orifice 1 7 111819-16 111819-17 Rear Orifice 1 1 8 116955-01 116815-01 116815-01 Grate 1 10 14527 14527 14527 14527 Burner Gasket 1 11 116807-01 116807-02 116807-01 116816-01 Right Burner Bracket 1 12 11692-0 116807-01 116864-01 Right Burner Bracket 1 13 116807-01 116807-01 116807-01 Right Burner Bracket 1 14 PP229 <t< th=""><th>KEY</th><th colspan="6">YEY PART NUMBER</th></t<> | KEY | YEY PART NUMBER | | | | | |
|---|-----------------------------|-----------------|------------|------------|------------|-----------------------------|------|
| 1 116950-01 116805-01 116805-01 Base 1 2 116853-02 116853-01 116853-01 Base Support 1 3 116943-02 11693-01 116800-01 116800-01 Rear Burner 1 4 116952-01 116800-01 116800-01 Rear Burner 1 5 116952-01 116811-01 116811-01 Pan Burner 1 6 111819-07 111819-06 111819-17 Rear Ornfice 1 7 111819-11 111819-06 111819-17 Rear Ornfice 1 8 116955-01 116815-01 116815-01 Grate 1 10 14527 14527 14527 14527 Burner Gasket 1 11 116854-01 116854-01 116854-01 116854-01 116854-01 116854-01 116854-01 11209 11209 11209 11209 11209 11209 11209 11209 11209 11209 11209 11209 11209 | NO. | VF-18N-MHD | VF-18P-MHD | VF-24N-MHD | VF-24P-MHD | DESCRIPTION | QTY. |
| 2 116853-02 116853-01 116853-01 116853-01 116853-01 116853-01 116853-01 116851-01 116801-01 116801-01 116801-01 116801-01 116801-01 116801-01 116801-01 116801-01 116801-01 116811-01 Pan Burner 1 5 116952-01 116801-01 116811-01 Pan Burner 1 1 6 111819-10 111819-10 111819-10 Front Orifice 1 7 111819-11 111819-10 111819-17 Rear Orifice 1 8 116955-01 116815-01 116815-01 Grate 1 1 10 14527 14527 14527 J4527 Burner Gasket 1 1 11 116807-01 116854-01 116854-01 116854-01 116854-01 11 1 1 1 1 2 DS Pilot 1 1 112 11209 11209 11209 11209 H220 DS Pilot 1 1 | 1 | 116950-01 | 116950-01 | 116805-01 | 116805-01 | Base | 1 |
| 3 116943-02 116810-01 116810-02 Left Burner Bracket 1 4 116952-01 116806-01 116806-01 Rear Burner 1 5 116952-01 116811-01 116811-01 Font Ortifice 1 7 111819-17 111819-19 111819-16 111819-17 Rear Ortifice 1 8 116955-01 116855-01 116851-01 116815-01 Grate 1 9 14391 14391 14391 Venturi Tube 1 1 11 116807-02 116807-01 116807-02 Valve Assembly 1 12 116843-02 11681-01 116854-01 Right Burner Bracket 1 13 116854-01 116854-01 116854-01 Pilot Bracket 1 14 PP229 PP224 DDS Pilot 1 1 11084-26 M11084-26 M11084-26 M11084-38 Screw, HWH AB 10-16 x 0.38 2 17 112829-01 112829-01 112829-01 112829-01 112829-01 112829-01 112829-01 112829-01 112829-0 | 2 | 116853-02 | 116853-02 | 116853-01 | 116853-01 | Base Support | 1 |
| 4 116951-01 116805-01 116806-01 Rear Burner 1 5 116952-01 116811-01 116811-01 Pan Burner 1 6 111819-07 111819-10 111819-10 111819-10 Pan Burner 1 7 111819-07 111819-10 111819-10 111819-10 Rear Orifice 1 8 116955-01 116855-01 116815-01 Grate 1 10 14527 14527 14527 14527 Burner Gasket 1 11 116807-02 116807-02 116816-01 Right Burner Bracket 1 12 116854-01 116854-01 116854-01 116854-01 116854-01 116854-01 13 16854-01 11209 11209 11209 Hax Nut 27 16 11209 11209 11209 Hax Nut 21 116854-01 116854-01 116854-01 116854-01 116854-01 116854-01 116854-01 117029 11209 11209 11209 | 3 | 116943-02 | 116943-01 | 116810-01 | 116810-02 | Left Burner Bracket | 1 |
| 5 116952-01 116811-01 116811-01 Pan Burner 1 6 111819-07 111819-11 111819-10 Front Orifice 1 7 111819-18 111819-17 111819-17 I11819-17 111824-01 111824-01 111824-01 111824-01 111824-01 111824-01 111824-01 111824-01 111824-01 111824-01 111824-01 111824-01 111824-01 111824-01 | 4 | 116951-01 | 116951-01 | 116806-01 | 116806-01 | Rear Burner | 1 |
| 6 111819-07 111819-10 Front Ordice 1 7 111819-18 111819-19 111819-16 111819-17 Rear Orifice 1 7 111819-18 111819-19 111819-16 111819-17 Rear Orifice 1 9 14391 14391 14391 14391 Venturi Tube 1 10 14527 14527 14527 Burner Gasket 1 11 116807-02 116816-01 Right Burner Bracket 1 12 116943-02 116854-01 116854-01 Right Burner Bracket 1 13 116854-01 116854-01 116854-01 P229 P224 P229 P224 ODS Pilot 1 14 PP229 P1209 11209 Hax Nut 2 2 7 118 M11084-26 M11084-38 M11084-38 Screw, HWH AB 10-16 x 0.38 1 19 11700-01 11209 11209 11209 Hax Nut 2 1118 <td< td=""><td>5</td><td>116952-01</td><td>116952-01</td><td>116811-01</td><td>116811-01</td><td>Pan Burner</td><td>1</td></td<> | 5 | 116952-01 | 116952-01 | 116811-01 | 116811-01 | Pan Burner | 1 |
| 7 111819-18 111819-16 111819-16 111819-17 Rear Orifice 1 8 116955-01 116855-01 116815-01 Grate 1 9 14391 14391 14391 14391 Venturi Tube 1 10 14527 14527 14527 Burner Gasket 1 11 116807-01 116807-02 116807-01 Right Burner Bracket 1 12 116943-02 11684-01 116854-01 116854-01 116854-01 116854-01 116854-01 116854-01 116854-01 117084-26 Screw, HWH AB 10-16 x 0.38 27 16 11209 11209 11209 112829-01 Air Soutter 1 18 M11084-26 M11084-26 M11084-28 Screw, HWH AB 8-18 x 0.38 1 19 117004-01 - 117004-01 Air Soutter 1 20 099918-03 099918-02 Burner Regulator 1 11 11857-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 21 111824-01 111824-01 111824-01 <td>6</td> <td>111819-07</td> <td>111819-11</td> <td>111819-06</td> <td>111819-10</td> <td>Front Orifice</td> <td>1</td> | 6 | 111819-07 | 111819-11 | 111819-06 | 111819-10 | Front Orifice | 1 |
| 8 116955-01 116815-01 116815-01 Grate 1 9 14391 14391 14391 14391 Venturi Tube 1 10 14527 14527 14527 14527 Burner Gasket 1 11 116807-01 116807-02 116807-02 Valve Assembly 1 12 116943-02 116816-01 116816-01 Right Burner Bracket 1 13 116854-01 116854-01 116854-01 116854-01 11 14 PP229 PP224 PP229 DP224 ODS Pilot 1 14 11209 11209 11209 11209 Hax Nut 2 16 11209 11229-01 112829-01 Air Shutter 1 18 M11084-38 M11084-38 M11084-38 Screw, HWH AB 8-18 x 0.38 1 19 117004-01 1117004-01 111704-1 117004-01 Nut/Sleeve, 3/8" 2 21 111828-01 111828-01 111828-01 | 7 | 111819-18 | 111819-19 | 111819-16 | 111819-17 | Rear Orifice | 1 |
| 9 14391 14391 14391 Venturi Tube 1 10 14527 14527 14527 Burner Gasket 1 11 116807-01 116807-02 116807-02 Valve Assembly 1 12 116943-02 11684-01 116816-01 116816-01 Right Burner Bracket 1 13 116854-01 116854-01 116854-01 116854-01 P224 ODS Pilot 1 14 PP229 PP224 PD29 PP224 ODS Pilot 1 15 M11084-26 M11084-26 M11084-26 Screw, HWH AB 10-16 x 0.38 27 16 11209 11209 11209 Hex Nut 2 27 17 112829-01 112829-01 112829-01 112829-01 Air Shutter 1 10 099918-03 099918-03 099918-03 099918-03 099918-03 099918-03 099918-03 099918-03 099918-03 099918-03 099918-03 099918-03 099918-03 111828-01 | 8 | 116955-01 | 116955-01 | 116815-01 | 116815-01 | Grate | 1 |
| 10 14527 14527 14527 Burner Gasket 1 11 116807-01 116807-02 116807-02 Valve Assembly 1 12 116943-02 116854-01 116816-01 Right Burner Bracket 1 13 116854-01 116854-01 116854-01 P229 P224 ODS Pilot 1 14 PP229 P224 P229 P224 ODS Pilot 1 1 15 M11084-26 M11084-26 M11084-26 M11084-27 Screw, HWH AB 10-16 x 0.38 27 16 11209 11229-01 112829-01 112829-01 Air Shutter 1 18 M11084-38 M11084-38 M11084-38 Screw, HWH AB 8-18 x 0.38 1 19 117004-01 117004-01 Pilot Shield 1 20 099918-02 099918-02 Burner Regulator 1 21 11824-01 111824-01 Nut/Sleeve, 3/8" 2 21 111824-01 111824-01 Nut/Sleeve, 3/8" 2 23 111828-01 111828-01 111828 | 9 | 14391 | 14391 | 14391 | 14391 | Venturi Tube | 1 |
| 11 116807-01 116807-02 116807-02 Valve Assembly 1 12 116943-02 116814-01 116816-01 Right Burner Bracket 1 13 116854-01 116854-01 116854-01 116854-01 116854-01 1 14 PP229 PP224 PP229 PP224 ODS Pilot 1 15 M11084-26 M11084-26 M11084-26 Screw, HWH AB 10-16 x 0.38 27 16 11209 11209 11209 H229-01 Air Shutter 1 18 M1084-38 M11084-38 M11084-38 Screw, HWH AB 8-18 x 0.38 1 20 099918-02 099918-03 099918-02 Burner Regulator 1 21 116957-01 111802-01 111824-01 Nut/Sleeve, 3/8" 2 23 111824-01 111824-01 Nut/Sleeve, 3/8" 2 1 24 111817-03 111817-03 111817-03 3/8" Flextube - 7" 2 24 111817-03 111817-03 <t< td=""><td>10</td><td>14527</td><td>14527</td><td>14527</td><td>14527</td><td>Burner Gasket</td><td>1</td></t<> | 10 | 14527 | 14527 | 14527 | 14527 | Burner Gasket | 1 |
| 12 116943-02 116943-02 116816-01 116816-01 Right Burner Bracket 1 13 116854-01 116854-01 116854-01 Pilot Bracket 1 14 PP229 PP224 PP229 PP224 ODS Pilot 1 14 PP229 PP224 PP229 DP224 ODS Pilot 1 15 M11084-26 M11084-26 M11084-26 Screw, HWH AB 10-16 x 0.38 27 16 11209 11209 11209 Hex Nut 2 1 18 M11084-38 M11084-38 M11084-38 Screw, HWH AB 8-18 x 0.38 1 19 117004-01 - 117004-01 Pilot Shield 1 20 099918-03 099918-03 099918-02 Burner Regulator 1 21 116957-01 111803-03 116957-01 - Air Shutter 1 22 111824-01 111828-01 111828-01 Nut/Sleeve, 3/8" 2 23 111817-03 111817-03 | 11 | 116807-01 | 116807-02 | 116807-01 | 116807-02 | Valve Assembly | 1 |
| 13 116854-01 116854-01 116854-01 Pilot Bracket 1 14 PP229 PP224 PP229 PP224 ODS Pilot 1 15 M11084-26 M11084-26 M11084-26 M11084-26 Screw, HWH AB 10-16 x 0.38 27 16 11209 11229-01 112829-01 112829-01 Air Shutter 1 18 M11084-38 M11084-38 M11084-38 Screw, HWH AB 8-18 x 0.38 1 19 117004-01 - 117004-01 Pilot Shield 1 20 099918-03 099918-03 099918-02 Burner Regulator 1 21 116957-01 111803-03 116957-01 - Air Shutter 1 21 111824-01 111824-01 Nut/Sleeve, 3/6" 2 2 23 111828-01 111828-01 111824-01 Nut/Sleeve, 3/16" 1 24 111817-04 - - - 3/8" Flextube - 21" 1 25 111817-03 111817-03 111817-03 3/16" Flextube - 26" 1 26 11181 | 12 | 116943-02 | 116943-02 | 116816-01 | 116816-01 | Right Burner Bracket | 1 |
| 14 PP229 PP224 PP229 PP224 ODS Pilot 1 15 M11084-26 M11084-26 M11084-26 M11084-26 Screw, HWH AB 10-16 x 0.38 27 16 11209 11209 11209 11209 Hex Nut 2 17 112829-01 112829-01 112829-01 Air Shutter 1 19 117004-01 — 117004-01 Pilot Shield 1 20 099918-03 099918-03 099918-03 099918-02 Burner Regulator 1 21 116957-01 111824-01 111824-01 Nut/Sleeve, 3/16" 1 23 111828-01 111828-01 Nut/Sleeve, 3/16" 1 1 24 111828-01 111828-01 Nut/Sleeve, 3/16" 1 1 24 111817-05 111817-05 111817-05 3/8" Flextube - 2" 1 25 111817-03 111817-03 111817-03 111817-03 111817-03 26 1117029-01 117029-01 1 | 13 | 116854-01 | 116854-01 | 116854-01 | 116854-01 | Pilot Bracket | 1 |
| 15 M11084-26 M11084-26 M11084-26 Screw, HWH AB 10-16 x 0.38 27 16 11209 11209 11209 11209 Hex Nut 2 17 112829-01 112829-01 112829-01 Air Shutter 1 18 M11084-38 M11084-38 M11084-38 Screw, HWH AB 8-18 x 0.38 1 19 117004-01 — 117004-01 117004-01 1 1 20 099918-03 099918-03 099918-02 Burner Regulator 1 21 116957-01 111803-03 116957-01 — Air Shutter 1 22 111824-01 111824-01 111824-01 Nut/Sleeve, 3/6" 2 23 111828-01 111828-01 111828-01 Nut/Sleeve, 3/16" 1 24 111817-05 111817-05 111817-05 3/8" Flextube - 26" 1 25 111817-03 111817-03 111817-03 3/16" Flextube - 26" 1 26 111817-03 111817-03 111817-03 3/16" Flextube 2 2 28 117029-01 <td>14</td> <td>PP229</td> <td>PP224</td> <td>PP229</td> <td>PP224</td> <td>ODS Pilot</td> <td>1</td> | 14 | PP229 | PP224 | PP229 | PP224 | ODS Pilot | 1 |
| 16 11209 11209 11209 Hex Nut 2 17 112829-01 112829-01 112829-01 Air Shutter 1 18 M11084-38 M11084-38 M11084-38 Screw, HWH AB 8-18 x 0.38 1 19 117004-01 — 117004-01 Pilot Shield 1 20 099918-03 099918-03 099918-03 Burner Regulator 1 21 116957-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 21 116957-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 23 111828-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 24 111817-05 111817-05 111817-05 3/8" Flextube - 7" 2 25 111817-04 — — - 3/8" Flextube - 26" 1 26 111817-03 111817-03 111817-03 3/16" Flextube 2 2 28 117029-01 117029-01 117029-01 Compression Adapter, Fitting 2 29 117030-01 117026-02 117026-02 </td <td>15</td> <td>M11084-26</td> <td>M11084-26</td> <td>M11084-26</td> <td>M11084-26</td> <td>Screw, HWH AB 10-16 x 0.38</td> <td>27</td> | 15 | M11084-26 | M11084-26 | M11084-26 | M11084-26 | Screw, HWH AB 10-16 x 0.38 | 27 |
| 17 112829-01 112829-01 112829-01 Air Shutter 1 18 M11084-38 M11084-38 M11084-38 M11084-38 Screw, HWH AB 8-18 x 0.38 1 19 117004-01 — 117004-01 117004-01 Pilot Shield 1 20 099918-03 099918-02 099918-02 099918-02 Burner Regulator 1 21 116957-01 11180-03 116957-01 — Air Shutter 1 22 111824-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 23 111826-01 111828-01 111828-01 Nut/Sleeve, 3/16" 1 24 11817-05 111817-05 111817-05 3/8" Flextube - 7" 2 25 111817-03 111817-03 111817-03 3/16" Flextube 1 26 111817-03 111817-03 111817-03 1117029-01 Female Adapter Fitting 2 28 117029-01 117029-01 117029-01 Compression Adapter, Female 2 30 117992-02 117026-03 117026-03 Rear Log Kit 1< | 16 | 11209 | 11209 | 11209 | 11209 | Hex Nut | 2 |
| 18 M11084-38 M11084-38 M11084-38 Screw, HWH AB 8-18 x 0.38 1 19 117004-01 — 117004-01 117004-01 Pilot Shield 1 20 099918-03 099918-02 099918-03 099918-02 Burner Regulator 1 21 116957-01 111803-03 116957-01 — Air Shutter 1 22 111824-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 23 111828-01 111828-01 111828-01 Nut/Sleeve, 3/6" 1 24 111817-05 111817-05 111817-05 11817-05 11817-05 11817-03 25 111817-03 111817-03 111817-03 3/8" Flextube - 21" 1 26 111817-03 111817-03 111817-03 3/16" Flextube 2 28 117029-01 117029-01 117029-01 Female Adapter Fitting 2 29 117030-01 117020-01 117026-02 Front Log Kit 1 31 117992-02 117026-02 117026-02 Front Log Kit 1 | 17 | 112829-01 | 112829-01 | 112829-01 | 112829-01 | Air Shutter | 1 |
| 19 117004-01 — 117004-01 117004-01 Pilot Shield 1 20 099918-03 099918-02 099918-03 099918-02 Burner Regulator 1 21 116957-01 111803-03 116957-01 — Air Shutter 1 22 111824-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 23 111828-01 111828-01 111828-01 Nut/Sleeve, 3/8" 2 24 111817-05 111817-05 111817-05 3/8" Flextube - 7" 2 25 111817-03 111817-03 111817-03 3/8" Flextube - 26" 1 26 111817-03 111817-03 111817-03 3/16" Flextube 2 28 117029-01 117029-01 117029-01 Flextube 2 2 29 117030-01 117030-01 117030-01 117026-03 Rear Log Kit 1 31 117992-02 11792-01 117026-02 Front Log Kit 1 31 116673-02 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 | 18 | M11084-38 | M11084-38 | M11084-38 | M11084-38 | Screw, HWH AB 8-18 x 0.38 | 1 |
| 20 099918-03 099918-02 099918-03 099918-02 Burner Regulator 1 21 116957-01 111803-03 116957-01 — Air Shutter 1 22 111824-01 111824-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 23 111828-01 111828-01 111828-01 Nut/Sleeve, 3/16" 1 24 111817-05 111817-05 111817-05 3/8" Flextube - 7" 2 25 111817-04 111817-03 111817-09 3/8" Flextube - 26" 1 26 111817-03 111817-03 111817-03 3/16" Flextube 1 27 14396 14396 14396 14396 14396 2 28 117029-01 117029-01 117029-01 117020-01 2 2 29 117030-01 117026-03 Rear Log Kit 1 31 117992-02 117026-03 117026-02 Front Log Kit 1 32 117495-01 117495-01 | 19 | 117004-01 | — | 117004-01 | 117004-01 | Pilot Shield | 1 |
| 21 116957-01 111803-03 116957-01 — Air Shutter 1 22 111824-01 111824-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 23 111828-01 111828-01 111828-01 Nut/Sleeve, 3/16" 1 24 111817-05 111817-05 111817-05 111817-05 3/8" Flextube - 7" 2 25 111817-04 111817-05 111817-09 111817-09 3/8" Flextube - 26" 1 26 111817-03 111817-03 111817-03 3/16" Flextube - 26" 1 27 14396 14396 14396 14396 Maged 2 28 117029-01 117029-01 117029-01 Female Adapter Fitting 2 29 117030-01 117026-02 117026-03 Rear Log Kit 1 31 117992-01 117026-02 117026-02 Front Log Kit 1 31 117992-01 117026-02 117026-02 Front Log Kit 1 32 117495-01 117495-01 117495-01 Caution Decal Bracket 1 <t< td=""><td>20</td><td>099918-03</td><td>099918-02</td><td>099918-03</td><td>099918-02</td><td>Burner Regulator</td><td>1</td></t<> | 20 | 099918-03 | 099918-02 | 099918-03 | 099918-02 | Burner Regulator | 1 |
| 22 111824-01 111824-01 111824-01 Nut/Sleeve, 3/8" 2 23 111828-01 111828-01 111828-01 Nut/Sleeve, 3/16" 1 24 111817-05 111817-05 111817-05 111817-05 111817-05 3/8" Flextube - 7" 2 25 111817-04 111817-05 111817-09 111817-09 3/8" Flextube - 26" 1 26 111817-03 111817-03 111817-03 111817-03 3/16" Flextube - 26" 1 27 14396 14396 14396 14396 Male Adapter Fitting 2 28 117029-01 117029-01 117029-01 Female Adapter Fitting 2 30 117992-02 117026-03 Rear Log Kit 1 31 117992-01 117026-02 Front Log Kit 1 33 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 100563-01 100563-01 </td <td>21</td> <td>116957-01</td> <td>111803-03</td> <td>116957-01</td> <td>—</td> <td>Air Shutter</td> <td>1</td> | 21 | 116957-01 | 111803-03 | 116957-01 | — | Air Shutter | 1 |
| 23 111828-01 111828-01 111828-01 111828-01 Nut/Sleeve, 3/16" 1 24 111817-05 111817-05 111817-05 111817-05 111817-05 3/8" Flextube - 7" 2 25 111817-04 111817-05 111817-09 111817-09 3/8" Flextube - 21" 1 26 111817-03 111817-03 111817-03 111817-03 3/16" Flextube - 26" 1 27 14396 14396 14396 14396 Male Adapter Fitting 2 28 117029-01 117029-01 117029-01 Female Adapter Fitting 2 29 117030-01 117030-01 117026-03 Rear Log Kit 1 31 117992-02 117026-02 117026-02 Front Log Kit 1 31 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 112796-01 100563-01 100563-01 100563-01 Velcro Strap | 22 | 111824-01 | 111824-01 | 111824-01 | 111824-01 | Nut/Sleeve, 3/8" | 2 |
| 24 111817-05 111817-05 111817-05 111817-05 3/8" Flextube - 7" 2 25 111817-04 111817-04 — — 3/8" Flextube - 21" 1 26 111817-03 111817-03 111817-03 111817-03 3/16" Flextube - 26" 1 26 111817-03 111817-03 111817-03 3/16" Flextube - 26" 1 27 14396 14396 14396 14396 Male Adapter Fitting 2 28 117029-01 117029-01 117029-01 Female Adapter Fitting 2 29 117030-01 117030-01 117026-03 Rear Log Kit 1 31 117992-02 117026-02 117026-02 Front Log Kit 1 31 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 34 100563-01 100563-01 100563-01 Velcro Strap 1 112796-01 1 | 23 | 111828-01 | 111828-01 | 111828-01 | 111828-01 | Nut/Sleeve, 3/16" | 1 |
| 25 111817-04 111817-04 — — 3/8" Flextube - 21" 1 26 111817-03 111817-03 111817-03 111817-03 3/6" Flextube - 26" 1 26 111817-03 111817-03 111817-03 111817-03 3/16" Flextube - 26" 1 27 14396 14396 14396 14396 Male Adapter Fitting 2 28 117029-01 117029-01 117029-01 Female Adapter Fitting 2 29 117030-01 117030-01 117026-03 Rear Log Kit 1 31 117992-02 117026-03 117026-02 Front Log Kit 1 31 117992-01 117026-02 117026-02 Front Log Kit 1 32 117495-01 117495-01 117495-01 Caution Decal Bracket 1 33 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 4 117307-01 117307-01 117307-01 Velcro Strap 1 112796-01 <td< td=""><td>24</td><td>111817-05</td><td>111817-05</td><td>111817-05</td><td>111817-05</td><td>3/8" Flextube - 7"</td><td>2</td></td<> | 24 | 111817-05 | 111817-05 | 111817-05 | 111817-05 | 3/8" Flextube - 7" | 2 |
| - - 111817-09 111817-09 3/8" Flextube - 26" 1 26 111817-03 111817-03 111817-03 111817-03 3/16" Flextube 1 27 14396 14396 14396 14396 Male Adapter Fitting 2 28 117029-01 117029-01 117029-01 Female Adapter Fitting 2 29 117030-01 117030-01 117029-01 Compression Adapter, Female 2 30 117992-02 11792-01 117026-03 Rear Log Kit 1 31 117992-01 117026-02 Front Log Kit 1 31 117495-01 117495-01 Caution Decal Bracket 1 33 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 102563-01 100563-01 100563-01 100563-01 Velcro Strap 1 112796-01 112796-01 112796-01 112796-01 Lighting In | 25 | 111817-04 | 111817-04 | — | — | 3/8" Flextube - 21" | 1 |
| 26 111817-03 111817-03 111817-03 3/16" Flextube 1 27 14396 14396 14396 14396 Male Adapter Fitting 2 28 117029-01 117029-01 117029-01 Female Adapter Fitting 2 29 117030-01 117030-01 117030-01 Compression Adapter, Female 2 30 117992-02 117992-02 117026-03 Rear Log Kit 1 31 117992-01 117026-02 Front Log Kit 1 32 117495-01 117495-01 Caution Decal Bracket 1 33 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 50 100563-01 100563-01 100563-01 Velcro Strap 1 112796-01 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 100563-03 100639-03 100639-03 100639-03 Caution Decal | | — | — | 111817-09 | 111817-09 | 3/8" Flextube - 26" | 1 |
| 27 14396 14396 14396 14396 Male Adapter Fitting 2 28 117029-01 117029-01 117029-01 117029-01 Female Adapter Fitting 2 29 117030-01 117030-01 117030-01 117030-01 Compression Adapter, Female 2 30 117992-02 11792-02 117026-03 Rear Log Kit 1 31 117992-01 117026-02 117026-02 Front Log Kit 1 32 117495-01 117495-01 117495-01 Caution Decal Bracket 1 33 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 PARTS AVAILABLE – NOT SHOWN Velcos Strap 100563-01 100563-01 100563-01 Velcro Strap 1 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 100563-03 100639-03 100639-03 Caution Decal | 26 | 111817-03 | 111817-03 | 111817-03 | 111817-03 | 3/16" Flextube | 1 |
| 28 117029-01 117029-01 117029-01 Female Adapter Fitting 2 29 117030-01 117030-01 117030-01 117030-01 Compression Adapter, Female 2 30 117992-02 117992-02 117026-03 Rear Log Kit 1 31 117992-01 117026-02 117026-02 Front Log Kit 1 32 117495-01 117495-01 117495-01 Caution Decal Bracket 1 33 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 100563-01 100563-01 100563-01 100563-01 Velcro Strap 1 112796-01 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 110639-03 100639-03 100639-03 100639-03 Caution Decal 1 111288-02 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01 1170 | 27 | 14396 | 14396 | 14396 | 14396 | Male Adapter Fitting | 2 |
| 29 117030-01 117030-01 117030-01 117030-01 Compression Adapter, Female 2 30 117992-02 117992-02 117026-03 Rear Log Kit 1 31 117992-01 117026-02 117026-02 Front Log Kit 1 32 117495-01 117026-02 117026-02 Front Log Kit 1 33 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 PARTS AVAILABLE — NOT SHOWN Velcro Strap 100563-01 100563-01 100563-01 Lighting Instructions Plate 1 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 100639-03 100639-03 100639-03 Caution Decal 1 117071-01 117071-01 117071-01 Lighting Instructions Plate 1 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01< | 28 | 117029-01 | 117029-01 | 117029-01 | 117029-01 | Female Adapter Fitting | 2 |
| 30 117992-02 11792-02 117026-03 117026-03 Rear Log Kit 1 31 117992-01 117026-02 117026-02 Front Log Kit 1 32 117495-01 117026-02 117026-02 Front Log Kit 1 33 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 PARTS AVAILABLE — NOT SHOWN 100563-01 100563-01 100563-01 Velcro Strap 1 102796-01 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 100639-03 100639-03 100639-03 100639-03 Caution Decal 1 11288-02 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01 117071-01 117071-01 117071-01 Control Cover Kit 1 117050-01 117501-01 117501-01 5 Piece Scrap Log Kit 1 1175 | 29 | 117030-01 | 117030-01 | 117030-01 | 117030-01 | Compression Adapter, Female | 2 |
| 31 117992-01 117026-02 117026-02 Front Log Kit 1 32 117495-01 117495-01 117495-01 117495-01 Caution Decal Bracket 1 33 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 Velcro Strap 1 PARTS AVAILABLE NOT SHOWN 100563-01 100563-01 100563-01 Velcro Strap 1 112796-01 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 100639-03 100639-03 100639-03 100639-03 Caution Decal 1 111288-02 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01 117071-01 117071-01 117071-01 Control Cover Kit 1 117501-01 117501-01 117501-01 5 Piece Scrap Log Kit 1 1170505 04 047055 04 147055 Cava Rock 1 | 30 | 117992-02 | 117992-02 | 117026-03 | 117026-03 | Rear Log Kit | 1 |
| 32 117495-01 117495-01 117495-01 117495-01 Caution Decal Bracket 1 33 116673-02 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 117307-01 Velcro Strap 1 PARTS AVAILABLE — NOT SHOWN 100563-01 100563-01 100563-01 100563-01 100563-01 100563-01 112796-01 112796-01 112796-01 112796-01 112796-01 112796-01 112796-01 11288-02 | 31 | 117992-01 | 117992-01 | 117026-02 | 117026-02 | Front Log Kit | 1 |
| 33 116673-02 116673-02 116673-02 116673-02 Hand-Held Remote Control 1 34 117307-01 117307-01 117307-01 117307-01 Velcro Strap 1 PARTS AVAILABLE NOT SHOWN 100563-01 100563-01 100563-01 100563-01 100563-01 100563-01 100563-01 100563-01 112796-01 111288-02 11288-02 Gas | 32 | 117495-01 | 117495-01 | 117495-01 | 117495-01 | Caution Decal Bracket | 1 |
| 34 117307-01 117307-01 117307-01 Velcro Strap 1 PARTS AVAILABLE NOT SHOWN 100563-01 100563-01 100563-01 100563-01 100563-01 100563-01 1 112796-01 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 100639-03 100639-03 100639-03 100639-03 Caution Decal 1 111288-02 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01 117071-01 117071-01 117071-01 Control Cover Kit 1 117501-01 117501-01 117501-01 5 Piece Scrap Log Kit 1 GA6060 GA6060 GA6060 GA6060 Lava Rock 1 | 33 | 116673-02 | 116673-02 | 116673-02 | 116673-02 | Hand-Held Remote Control | 1 |
| PARTS AVAILABLE NOT SHOWN 100563-01 100563-01 100563-01 Warning Plate 1 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 100639-03 100639-03 100639-03 Caution Decal 1 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01 117071-01 117071-01 Control Cover Kit 1 117501-01 117501-01 117501-01 S Piece Scrap Log Kit 1 GA6060 GA6060 GA6060 Lava Rock 1 | 34 | 117307-01 | 117307-01 | 117307-01 | 117307-01 | Velcro Strap | 1 |
| 100563-01 100563-01 100563-01 Warning Plate 1 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 100639-03 100639-03 100639-03 Caution Decal 1 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01 117071-01 117071-01 Control Cover Kit 1 117501-01 117501-01 117501-01 5 Piece Scrap Log Kit 1 GA6060 GA6060 GA6060 GA6060 Lava Rock 1 | PARTS AVAILABLE — NOT SHOWN | | | | | | |
| 112796-01 112796-01 112796-01 112796-01 Lighting Instructions Plate 1 100639-03 100639-03 100639-03 100639-03 Caution Decal 1 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01 117071-01 117071-01 Control Cover Kit 1 117501-01 117501-01 117501-01 5 Piece Scrap Log Kit 1 GA6060 GA6060 GA6060 Lava Rock 1 | | 100563-01 | 100563-01 | 100563-01 | 100563-01 | Warning Plate | 1 |
| 100639-03 100639-03 100639-03 100639-03 Caution Decal 1 111288-02 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01 117071-01 117071-01 117071-01 Control Cover Kit 1 117501-01 117501-01 117501-01 5 Piece Scrap Log Kit 1 GA6060 GA6060 GA6060 GA6060 Lava Rock 1 | | 112796-01 | 112796-01 | 112796-01 | 112796-01 | Lighting Instructions Plate | 1 |
| 111288-02 111288-02 111288-02 111288-02 Gas Line Flex with Shut Off 1 117071-01 117071-01 117071-01 107071-01 107071-01 107071-01 117071-01 | | 100639-03 | 100639-03 | 100639-03 | 100639-03 | Caution Decal | 1 |
| 117071-01 117071-01 117071-01 117071-01 Control Cover Kit 1 117501-01 117501-01 117501-01 5 Piece Scrap Log Kit 1 GA6060 GA6060 GA6060 GA6060 Lava Rock 1 117075-02 117071-01 117071-01 117501-01 5 Piece Scrap Log Kit 1 | | 111288-02 | 111288-02 | 111288-02 | 111288-02 | Gas Line Flex with Shut Off | 1 |
| 117501-01 117501-01 117501-01 5 Piece Scrap Log Kit 1 GA6060 GA6060 GA6060 GA6060 Lava Rock 1 117505-02 117505-04 117501-01 5 Piece Scrap Log Kit 1 | | 117071-01 | 117071-01 | 117071-01 | 117071-01 | Control Cover Kit | 1 |
| GA6060 GA6060 GA6060 GA6060 Lava Rock 1 443095 02 443095 04 443095 04 443095 04 6500 GA6060 Lava Rock 1 | | 117501-01 | 117501-01 | 117501-01 | 117501-01 | 5 Piece Scrap Log Kit | 1 |
| | | GA6060 | GA6060 | GA6060 | GA6060 | Lava Rock | 1 |
| | | 117685-02 | 117685-02 | 117685-01 | 117685-01 | Ember Material | 1 |

** Not a field replaceable part

WARRANTY

KEEP THIS WARRANTY

Model (located on product or identification tag) ____

Serial No. (located on product or identification tag)

Date Purchased

Keep receipt for warranty verification.

DESA HEATING, LLC LIMITED WARRANTIES

New Products

Standard Warranty: DESA Heating, LLC warrants this new product and any parts thereof to be free from defects in material and workmanship for a period of four (4) years from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with DESA Heating, LLC's warnings and instructions.

For products purchased for commercial, industrial or rental usage, this warranty is limited to 90 days from the date of first purchase.

Factory Reconditioned Products

Limited Warranty: DESA Heating, LLC warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for 30 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with DESA Heating, LLC's warnings and instructions.

Terms Common to All Warranties

The following terms apply to all of the above warranties:

Always specify model number and serial number when contacting the manufacturer. To make a claim under this warranty the bill of sale or other proof of purchase must be presented.

This warranty is extended only to the original retail purchaser when purchased from an authorized dealer, and only when installed by a qualified installer in accordance with all local codes and instructions furnished with this product.

This warranty covers the cost of part(s) required to restore this product to proper operating condition and an allowance for labor when provided by a DESA Heating, LLC Authorized Service Center or a provider approved by DESA Heating, LLC. Warranty parts must be obtained through authorized dealers of this product and/or DESA Heating, LLC who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.

Travel, handling, transportation, diagnostic, material, labor and incidental costs associated with warranty repairs, unless expressly covered by this warranty, are not reimbursable under this warranty and are the responsibility of the owner.

Excluded from this warranty are products or parts that fail or become damaged due to misuse, accidents, improper installation, lack of proper maintenance, tampering, or alteration(s).

This is DESA Heating, LLC's exclusive warranty, and to the full extent allowed by law; this express warranty excludes any and all other warranties, express or implied, written or verbal 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 new products and 30 days on factory reconditioned products from the date of first purchase. DESA Heating, LLC makes no other warranties regarding this product.

DESA Heating, LLC's liability is limited to the purchase price of the product, and DESA Heating, LLC shall not be liable for any other damages whatsoever under any circumstances including indirect, incidental, or consequential damages.

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

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

For information about this warranty contact:



NOT A UPC



DESA Heating, LLC 2701 Industrial Drive Bowling Green, KY 42101 www.desatech.com 1-866-672-6040

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