

heatilator®

The first name in fireplaces

Hearth & Home Technologies Inc.
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Division, HON INDUSTRIES
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INSTALLATION & OPERATING INSTRUCTIONS

ODYSSEY ODY42

RADIANT FIREPLACE

WITH FACTORY INSTALLED GAS LOG SET



ODY42

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 assistance or additional information, consult a qualified installer, service agency or the gas supplier.

Note: An arrow (➔) found in the text signifies change in content.

CAUTION:

Do not expose the fireplace to the elements (such as rain, etc.).

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WARNING!

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.

Safety Precautions

- Please read these installation instructions completely before beginning installation procedures. Failure to follow them could cause a fireplace malfunction resulting in serious injury and/or property damage.
- Always check your local building codes prior to installation. The installation must comply with all local, regional, state and national codes and regulations.
- An adequate supply of replacement combustion air from outside the house must be available to the fire for the fireplace to operate properly. To achieve this, the use of the optional outside air kit is highly recommended.

In the event the home is unusually tight, the optional outside air kit may not provide all the air required to support combustion. Hearth Technologies Inc. is not responsible for any smoking or related problems that may result from the lack of adequate combustion air. It is the responsibility of the builder/contractor to ensure that adequate combustion air has been provided for the fireplace.

The Odyssey Series fireplace is for installation in a room having a volume of at least 3,750 cubic feet.
- The Odyssey Series fireplace with factory installed gas log set must be installed with the Hearth & Home Technologies SL300 Series chimney system.

The chimney system must always terminate outside the building. Be sure to follow all chimney specifications given in these installation instructions.
- NEVER** leave children unattended when there is a fire burning in the fireplace.
- This fireplace is factory built to burn natural or propane gas. A gas conversion kit (to convert from natural gas to propane or propane to natural gas) is not available for the Odyssey Series fireplace. The Odyssey must be purchased from the factory as either natural gas or propane. An optional wood conversion kit (ODYCKW) is available.
- NEVER** use starter logs, gasoline, gasoline type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids in this fireplace. Keep any flammable liquids a safe distance from the fireplace.
- The flue damper must be open at all times when the fireplace is in use.
- While servicing this fireplace, always shut off any electricity or gas to the fireplace. This will prevent possible electrical shock or burns. Also, make sure the fireplace is completely cooled before servicing.
- Due to high temperatures, the fireplace should be located out of traffic areas and away from furniture and draperies.
- Solid fuels cannot be burned in a fireplace where the decorative gas appliance is installed.
- In order to install Heatilator® fireplace models ODY42 and ODY42L in the state of Massachusetts, the Commonwealth of Massachusetts requires the following:
 - The damper must be removed.
 - This fireplace is not to be installed for use in a bedroom or bathroom.

DESIGN AND INSTALLATION CONSIDERATION

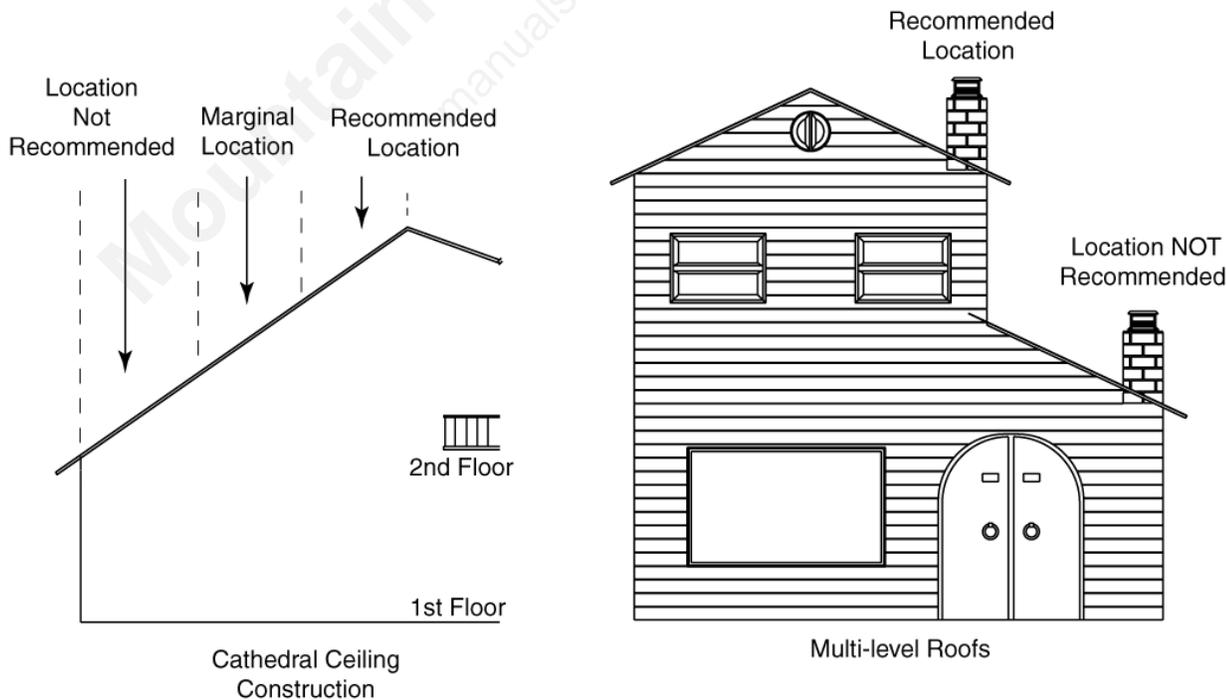
When selecting a location for your B-Vent appliance, it is important to evaluate a number of considerations. Modern construction techniques can create conditions that may not allow your vent to draft properly. This may result in spillage from your B-Vent appliance, as well as cause other combustion appliances to operate incorrectly.

Tightly sealed construction is important for energy efficiency. Unfortunately, a great deal of effort has been directed to tightening up sidewall construction, while considerably less attention has been paid to tightening upper portions of the warm air envelope (insulated ceilings). This has increased the "Stack Effect", a condition that increases the negative pressure generated by the structure. This negative pressure will directly affect the drafting performance of a B-Vent appliance vent. To minimize the negative pressure generated by stack effect, make certain that all duct work installed in the attic spaces is sealed airtight. Minimize the number of recessed light fixtures installed in the insulated ceiling and use sealed recessed light fixtures. Finally, make certain the whole house fans and attic access panels are tightly sealed. These are important design considerations that must be observed during the design and construction stage of the home.

If you desire to put an appliance in your basement, we recommend that you consider a direct vent gas appliance. Basements always have a significant negative air pressure that causes the B-Vent system to be more susceptible to spillage and cold flue back drafting. Since direct vent gas appliances are sealed, they are not affected by the negative pressure that exists in basements.

Finally, a B-Vent appliance performs best when the vent (roof termination) is located on the upper half of the roof, especially when cathedral ceilings are present. Vents that are located on the lower half of the roof realize what is known as "lazy flue" and will not draft as well as a vent that is located in the upper portion of the roof. The reason for this is that the stack effect generated by the overall height of the living spaces inside the house will exceed the draft generated by the vent system. If you desire to place an appliance in a location where the termination cap would be located on the lower half of a roof; such as on an outside wall at the base of a cathedral ceiling, we recommend that you consider using a direct vent gas appliance. This will ensure an appliance that operates correctly.

These properties do not affect just your B-Vent appliance. They can cause any woodburning fireplace as well as any conventionally vented (B-Vent) gas appliance to operate improperly. Careful planning at this stage of your project will ensure satisfaction with the operation of your appliance once it is completed.



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A. LISTINGS AND CODE APPROVALS

The Odyssey Series fireplace with factory installed gas log set has been tested and listed in the U.S. in accordance with **UL127** (Factory Built Fireplace), **ANSI Z21.50-1998**, and **ANSI Z21.60-1996** (Gas Log Set); in Canada, the current **ULC S610**, **CAN/CGA 2.22-M98** and **CGA 2.26-M96**, and has been listed by Underwriters Laboratories Inc. for installation and operation in the United States and Canada as described in these installation and operating instructions. All components are UL, AGA, CGA or CSA safety certified.

The Odyssey Series fireplace with factory installed gas log set has been tested and listed for use with the optional components given on page 5. These optional components may be purchased separately and installed at a later date.

However, installation of an outside air kit and junction box will require significant reconstruction, and should be installed at the time of the initial fireplace installation.

Check with your local building code agency prior to installing this fireplace to ensure compliance with local codes, including the need for permits and follow-up inspections. In the absence of local codes, comply with the **National Fuel Gas Code, ANSI Z223.1-Latest Edition** in the U.S.; in Canada, the **CAN/CGA B149 Installation Codes**. If any assistance is required during installation, please contact your local dealer or the Heatilator Technical Services Department, Hearth & Home Technologies Inc., 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641, 1-800-927-6841.

HEATILATOR® is a registered trademark of Hearth & Home Technologies Inc., a Division of HON Industries.

WARNING!

This Heatilator fireplace and its components are designed to be installed and operated as a system. Any alteration to or substitution for items in this system, unless allowed by these installation instructions, will void the Underwriters Laboratories listing and may void the product warranty. It may also create a hazardous installation. Read through these instructions thoroughly before starting your installation and follow them carefully throughout your project.

B. DESCRIPTION OF THE FIREPLACE SYSTEM

The HEATILATOR® fireplace system consists of the following:

1. Fireplace with Factory Installed Gas Log Set
2. Hearth Extension
3. Chimney System
4. Chimney Termination Cap

Optional components include:

1. Glass Doors
2. Outside Air System
3. Trim Kit
4. Remote Control
5. Junction Box
6. Chimney Air Kit

Odyssey Nomenclature:

ODY42	Fireplace Order Code Number
ODY42	Odyssey Series 42" Fireplace Standing Pilot, Natural Gas
ODY42L	Odyssey Series 42" Fireplace Standing Pilot, Propane Gas

Note: Illustrations throughout these instructions reflect "typical installations" and are for design purposes only. Actual installation may vary slightly due to individual design preferences. However, minimum and maximum clearances must be maintained at all times.

The illustrations and diagrams used throughout these installation instructions are not drawn to scale.

Tools and building supplies normally required for installation:

<u>Tools:</u>	<u>Building Supplies:</u>
Saw	Wall-finishing materials
Pliers	Framing material
Hammer	Fireplace surround
Phillips screwdriver	Caulking material
Tape measure	
Plumb line	
Level	
Electric drill/bits	
Framing square	

We strongly recommend that you DO NOT install B-Vent Gas Appliances in strong negative air locations, such as a basement or a public facility. Living rooms with cathedral ceilings could be susceptible to a negative air situation, but such installations can be overcome through raising the termination, depending on specific installations. This appliance uses room air for normal operation and could have problems establishing a positive draft in a negative air location. In lieu, we recommend a Direct Vent Gas Appliance.

C. FIREPLACE SYSTEM COMPONENTS

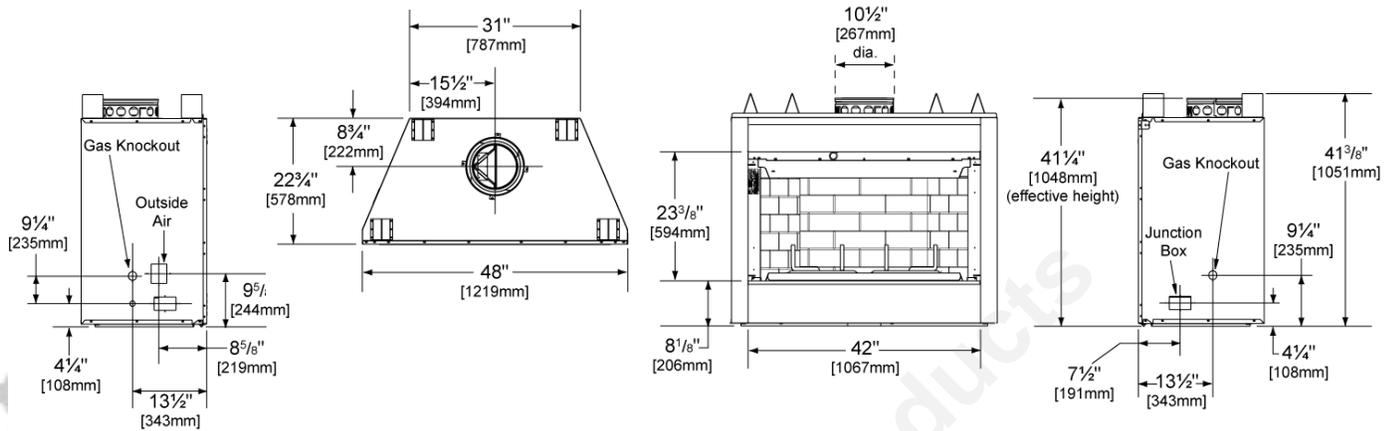
The table below, together with the pictures on the following pages show only those components which may be safely used with this fireplace.

WARNING!

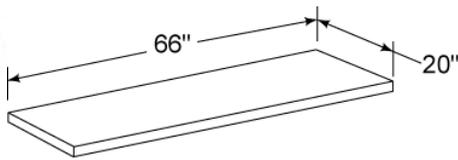
This appliance is tested and listed for use only with the optional accessories listed in these instructions. Use of optional accessories not specifically tested for this appliance could void the warranty and/or result in a safety hazard.

Catalog #	Description
ODY42	Odyssey Fireplace, with Gas Log Set and Hearth Protection Strips
ODYCKW	Gas Log Set to Woodburning Fireplace Conversion Kit
HX4	Hearth Extension
DM1742	Original Bi-fold Glass Doors - Black Finish
DM1742B	Original Bi-fold Glass Doors - Polished Brass Finish
DM1742S	Original Bi-fold Glass Doors - Stainless Steel Finish
GR19	Integral Grate (not included with fireplace) - Included with ODYCKW
AK22	Outside Air Kit
ID4	Insulated Duct/Outside Air
UD4	Uninsulated Duct/Outside Air
CAK4A	Chimney Air Kit
SL306	Chimney Section (6-inch)
SL312	Chimney Section (12-inch)
SL318	Chimney Section (18-inch)
SL324	Chimney Section (24-inch)
SL336	Chimney Section (36-inch)
SL348	Chimney Section (48-inch)
SL3	Chimney Stabilizer
SL315	Chimney Offset/Return - 15°
SL330	Chimney Offset/Return - 30°
FS338	Firestop - Straight
FS339	Firestop - 15°
FS340	Firestop - 30°
AS8	SL300 Straight Attic Insulation Shield, 24"
JB877	Chimney Joint Band
CB876	Chimney Bracket
RF370	Roof Flashing - Flat to 6/12 Pitch
RF371	Roof Flashing - 6/12 to 12/12 Pitch
TR342	Telescoping Chimney Termination Cap - Round
TR344	Chimney Termination Cap - Round (Storm collar included)
ST375	Chimney Termination Cap - Square
TS345	Chimney Termination Cap - Square
TS345P	Chimney Termination Cap - Square (Painted)
CT35	Chase Top
JK9	Junction Box Kit
RC-SMART-HTL	Remote Control
RC-BATT-HTL	Battery Operated Remote Control (Standing Pilot)
SMART-STAT-HTL	Remote Control with Thermostat Control
SMART-BATT-HTL	Battery Operated Remote Control with Thermostat Control

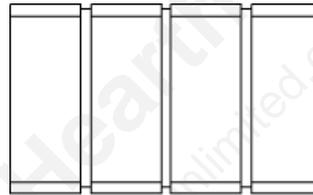
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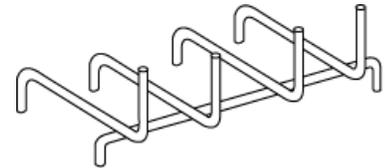
Dimensions



HX4 - HEARTH EXTENSION



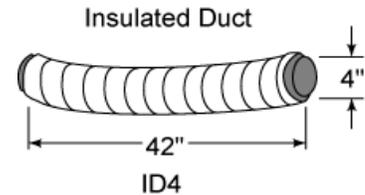
**DM1742 Series
GLASS DOORS**



**GR19 - GRATE
(supplied with ODYCKW)**

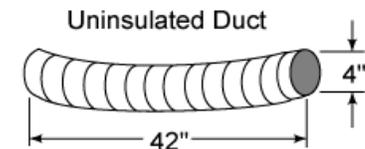


AK22 - OUTSIDE AIR KIT



Insulated Duct

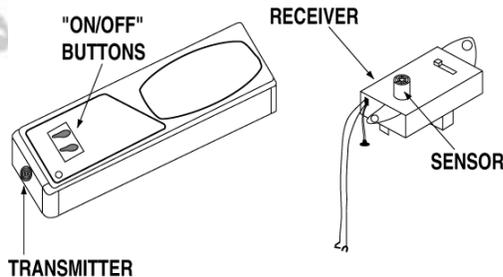
ID4



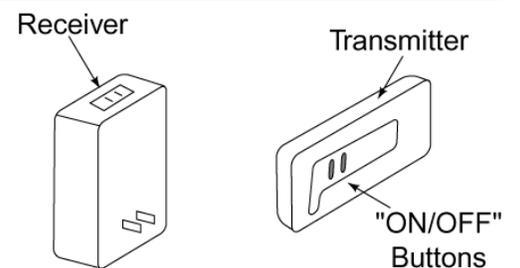
Uninsulated Duct

UD4

REMOTE CONTROLS

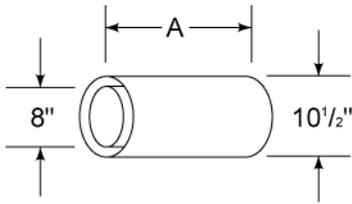


RC-BATT-HTL



**RC-SMART-HTL
SMART-STAT-HTL
SMART-BATT-HTL**

CHIMNEY SECTIONS

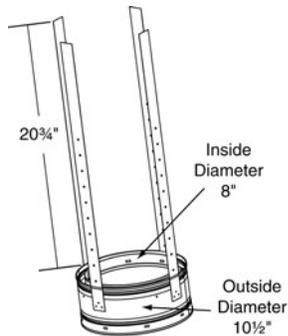


CAT. #	A	B
SL306	6"	4-3/4"
SL312	12"	10-3/4"
SL318	18"	16-3/4"
SL324	24"	22-3/4"
SL336	36"	34-3/4"
SL348	48"	46-3/4"

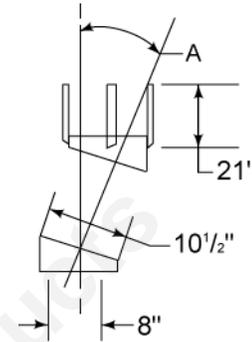
A = Actual Length

B = Effective length (length of chimney part after it has been snapped to another)

CHIMNEY STABILIZER

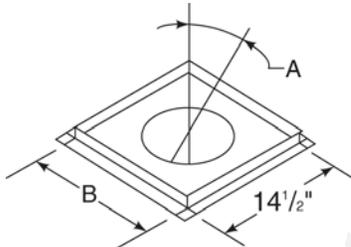


OFFSETS/RETURNS



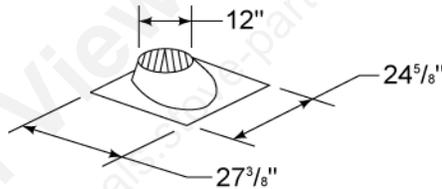
CAT. #	A
SL315	15°
SL330	30°

FIRESTOP SPACERS



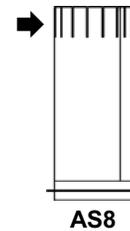
CAT. #	A	B
FS338	0°	14-1/2"
FS339	15°	18-3/8"
FS340	30°	23"

ROOF FLASHING

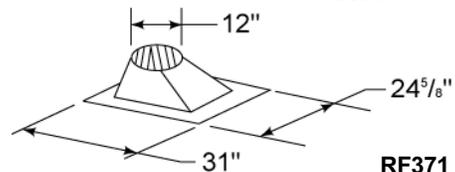


RF370
Flat to 6/12 Pitch

STRAIGHT ATTIC INSULATION SHIELD

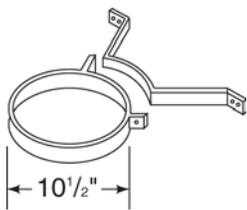


AS8



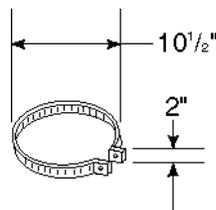
RF371
6/12 to 12/12 Pitch

CHIMNEY BRACKET



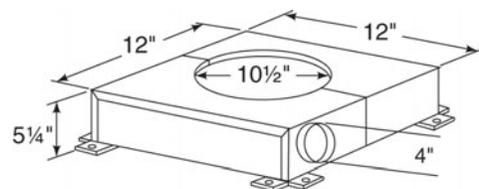
CB876

JOINT BAND



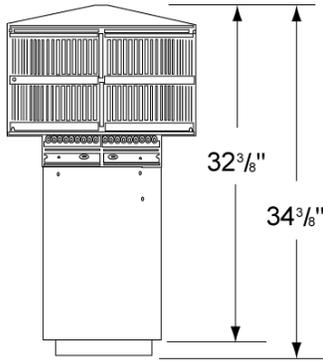
JB877

CHIMNEY AIR KIT

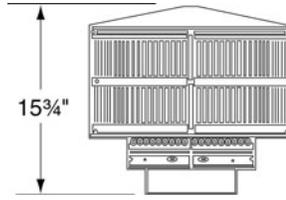


CAK4A

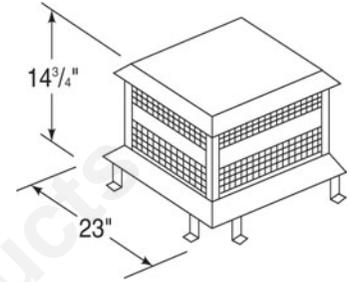
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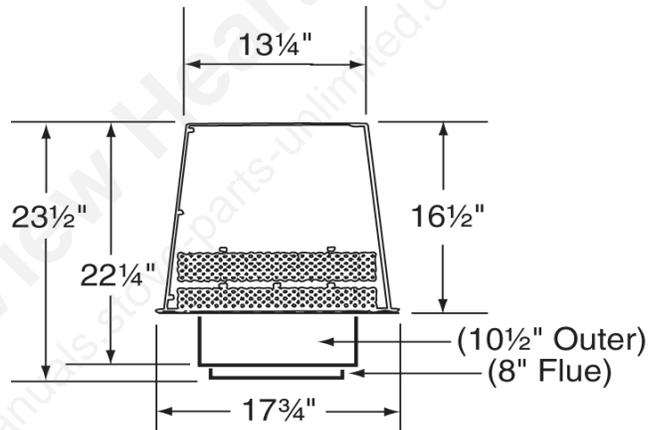
**TR342
ROUND TELESCOPING
TERMINATION CAP**



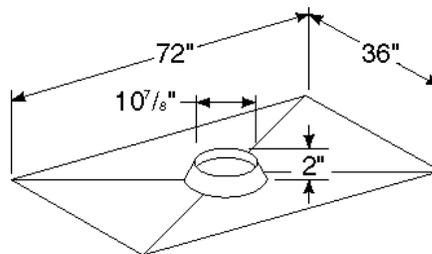
**TR344
ROUND
TERMINATION CAP
WITH STORM
COLLAR**



**ST375
SQUARE
TERMINATION CAP**



**TS345/345P
SQUARE TERMINATION CAP**



**CT35
CHASE TOP**

D. PRE-INSTALLATION PREPARATION

1. Fireplace Locations and Space Requirements

Several options are available to you when choosing a location for your fireplace. This fireplace may be used as a room divider, installed along a wall, across a corner or use an exterior chase. The room must have a minimum volume of 3,750 cubic feet. See Figure 1.

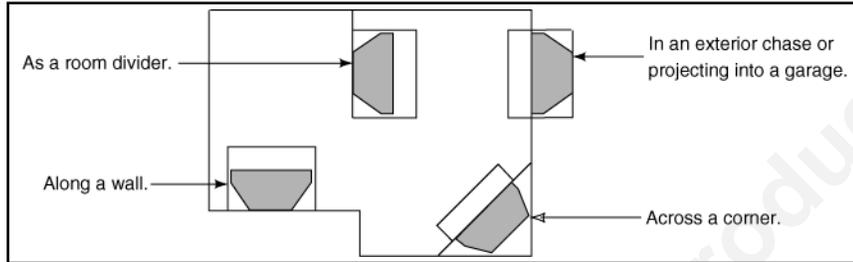


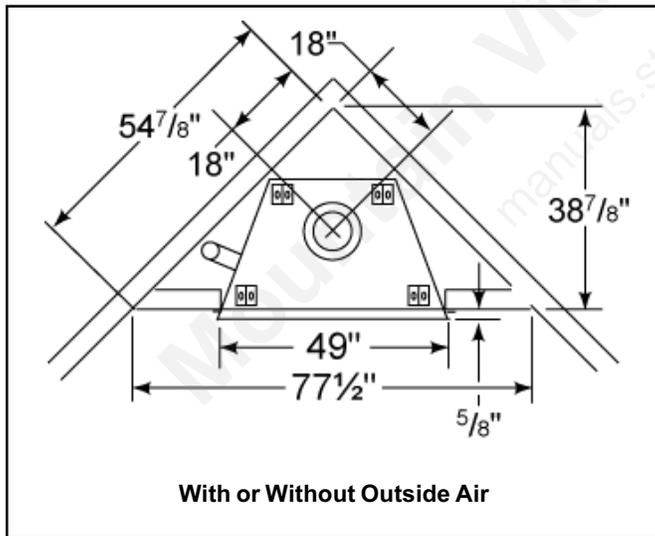
Figure 1
Fireplace Locations

Figures 2 and 3 show two typical installations assuming an outside air kit is being used. Therefore, an allowance must be made for 90° bends. Less space is required when ducting goes directly outside without forming elbows.

CLEARANCES!

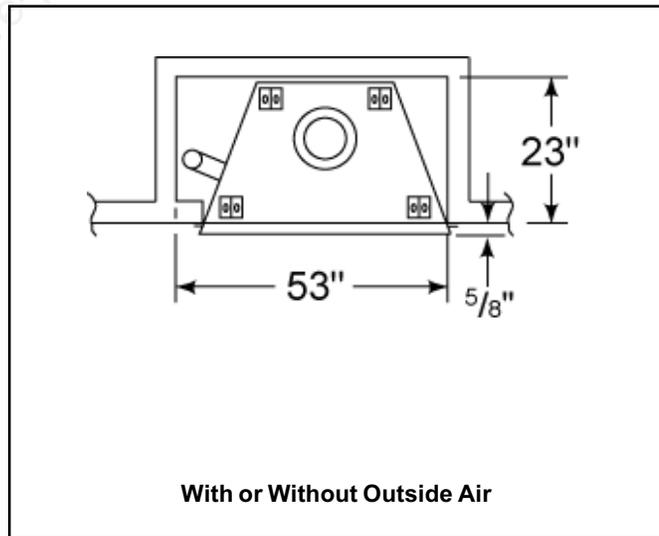
A minimum $\frac{3}{4}$ " air clearance must be maintained at the back and sides of the fireplace assembly except at the nailing flange where the clearance is $\frac{1}{2}$ ".

Chimney sections at any level require a 2" minimum air space clearance between the framing and chimney section.



With or Without Outside Air

Figure 2
Corner Installation



With or Without Outside Air

Figure 3
Installation Along a Wall or an Exterior Chase

WARNING!

Do not draw outside air from garage spaces. Exhaust products of gasoline engines are hazardous.

Do not install outside air ducts such that the air may be drawn from attic spaces, basements or above the roofing where other heating appliances or fans and chimneys exhaust or utilize air. These precautions will reduce the possibility for smoking or flow reversal.

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WARNING!

To prevent contact with sagging or loose insulation, the fireplace must not be installed against vapor barriers or exposed insulation. Localized overheating could occur and a fire could result.

2. Frame the Fireplace

Figure 4 shows a typical framing (using 2 x 4 lumber) of the fireplace, assuming combustible materials are used. All required clearances to combustibles around the fireplace must be adhered to. Any framing across the top of the fireplace must be above the level of the top standoffs. A 3/4" air clearance must be maintained at the back and sides of the fireplace assembly. Chimney sections at any level require a two-inch minimum air space clearance between the framing and chimney section.

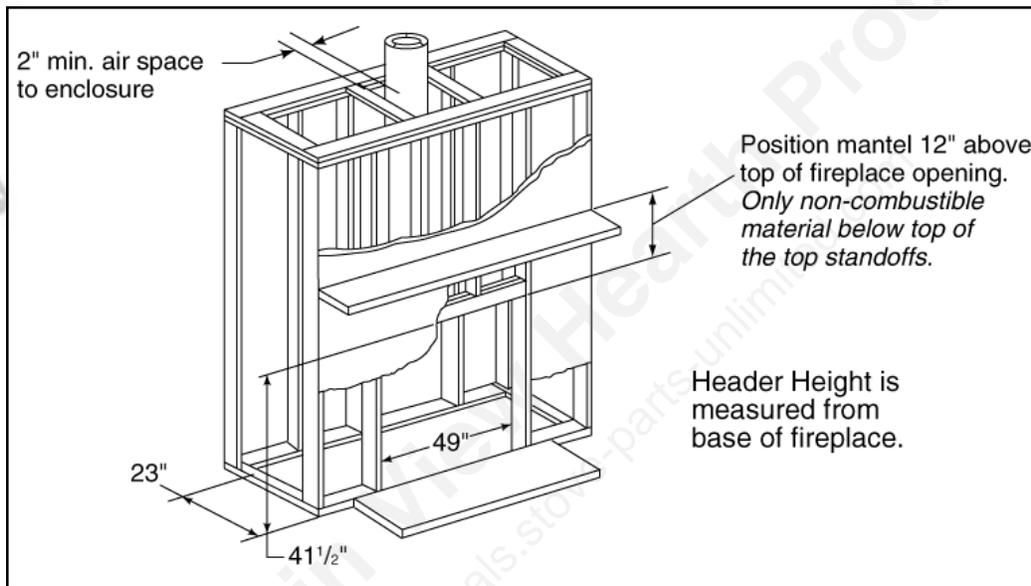


Figure 4
Framing the Fireplace

CLEARANCES!

A minimum 3/4" air clearance must be maintained at the back and sides of the fireplace assembly except at the nailing flange where the clearance is 1/2".

Chimney sections at any level require a 2" minimum air space clearance between the framing and chimney section.

Combustible Materials. Material made of or surfaced with wood, compressed paper, plant fibers, plastics, or any material capable of igniting and burning, whether flame proofed or not, plastered or unplastered.

Noncombustible Materials. Material which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or combination thereof.

Noncombustible Sealant Material. Sealants that will not ignite and burn; General Electric RTV103 Black) or equivalent, Rutland, Inc. Fireplace Mortar #63 or equivalent.

After completing the framing and applying the facing material (dry wall) over the framing, a noncombustible sealant, one-half inch wide maximum, must be used to close off any gaps at the top and sides between the fireplace and facing to prevent cold air leaks.

Only noncombustible materials may be used to cover the black metal fireplace front.

WARNING!

Do not apply combustible finishing materials over any part of the black face of this fireplace or a structure fire may result. The black metal fireplace front may only be covered with noncombustible materials such as ceramic tile, brick or stone. Do not cover or block any cooling air slots. Do not cover any portion of the opening to the fireplace that would prevent the installation of an authorized glass door.

ODYSSEY SERIES FIREPLACE WITH GAS LOG SET

3. Hearth Extensions

It is recommended that a hearth extension be installed with all fireplaces. In the event the fireplace is converted to burn solid (wood) fuel, a hearth extension must be installed with all fireplaces to protect the combustible floor in front of the fireplace from both radiant heat and sparks. A hearth extension is required while burning solid fuel.

The construction of, and materials used for a factory built hearth extension are shown in Figure 5. A hearth extension of this construction may be covered with any noncombustible decorative material and may have a maximum thickness of 6". Seal gaps between the hearth extension and the front of the fireplace with a noncombustible sealant.

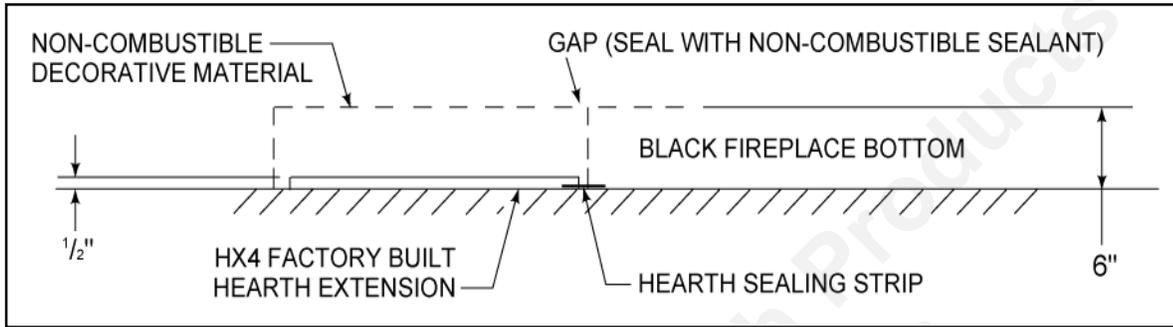


Figure 5
Factory Built Hearth Extension

Field constructed hearth extensions should be constructed in accordance with the minimum dimensions provided in Figure 6.

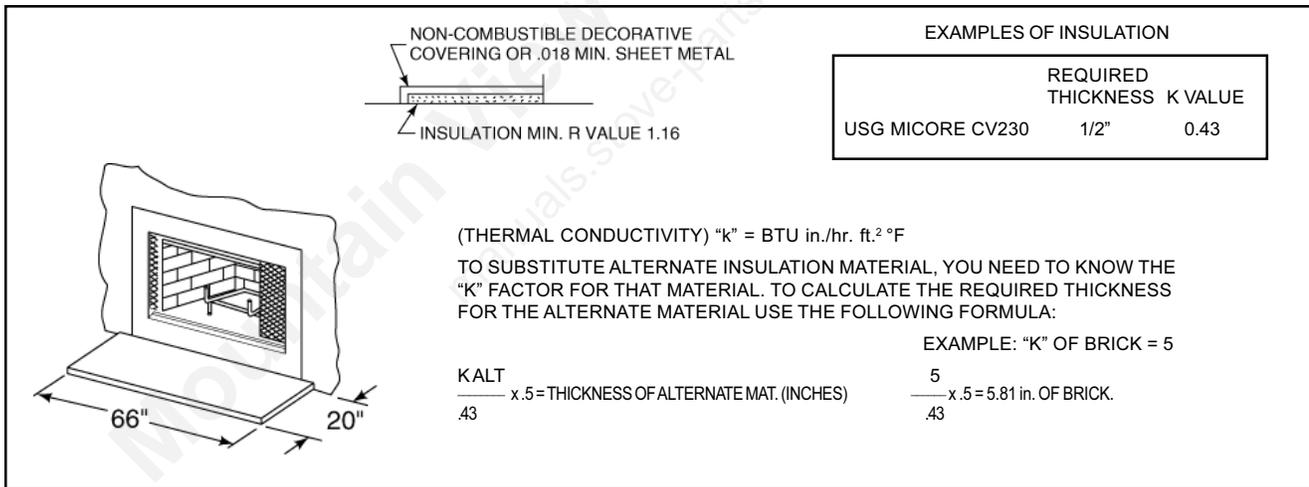


Figure 6 - Hearth Extension

WARNING!

Hearth extensions are to be installed only as illustrated to prevent high temperatures from occurring on concealed combustible materials. Hearth sealing strips prevent burning or hot particles from inadvertently falling directly on combustible surfaces in the event the building should settle and disturb the original construction.

The first name in fireplaces

4. Sidewalls/Surrounds

Adjacent combustible side walls must be located a minimum of 12" from the fireplace opening. See Figure 7. If you are using a decorative surround constructed of combustible material, it must be located within the shaded area defined in Figure 7. Short stub walls are also acceptable if they are contained within the shaded area. You must maintain adequate clearances for servicing and proper operation.

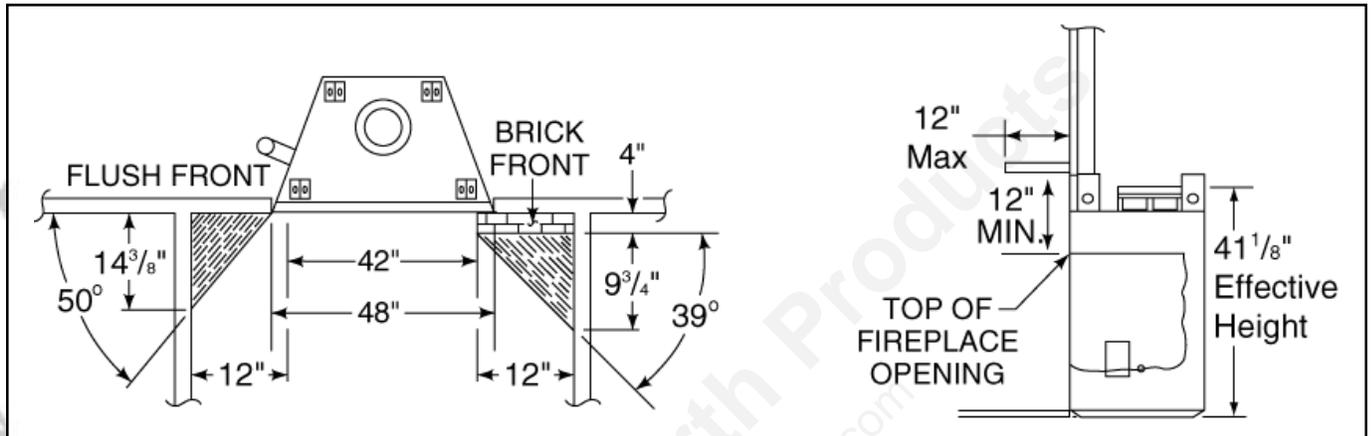


Figure 7
Sidewalls/Surrounds

5. Mantel

A combustible mantel may be positioned no lower than 12" above the top of the fireplace opening. The combustible mantel may have a maximum depth of 12". Combustible trim pieces that project no more than 1-1/2" from the face of the fireplace can be placed no closer than 6" from the top of the fireplace opening. However, they must not cover the black metal front of the fireplace. This mantel clearance is in accordance with **Section 7-3.3.3 of ANSI/NFPA 211**. Combustible trim pieces can also be located in the shaded areas shown in Figure 7.

E. CHIMNEY REQUIREMENTS

When planning your fireplace location, the chimney construction and necessary clearances must be considered. The fireplace system and chimney components have been tested to provide the following flexibility in construction. The following figures are the minimum distances from the base of the fireplace.

- | | |
|---|----------|
| 1. Minimum overall straight height | 16.5 ft. |
| 2. Minimum height with offset/return | 16.5 ft. |
| 3. Maximum height | 90 ft. |
| 4. Maximum chimney length between an offset and return | 20 ft. |
| 5. Maximum distance between chimney stabilizers | 35 ft. |
| 6. Double offset/return minimum height | 20 ft. |
| 7. Maximum unsupported chimney length between the offset and return | 6 ft. |
| 8. Maximum straight unsupported chimney height above the fireplace | 35 ft. |

1. Using Offsets and Returns

- a. To bypass any overhead obstructions, the chimney may be offset using a 15° offset/return (SL315) or a 30° offset/return (SL330). Perform the following steps to determine the correct chimney component combination for your particular installation.
- b. An offset and return may be attached together or a chimney section(s) may be used between an offset and return. However, the distance between two elbows must never exceed 12 feet in total length.
 - 1) Measure how far the chimney needs to be shifted to enable it to avoid the overhead obstacle. See Figure 8, dimension "A".
 - 2) After determining the offset dimension, refer to Table 1 (page 13) and find the "A" dimension closest to **but not less than** the distance of shift needed for your installation.

- 3) The "B" dimensions that coincide with the "A" dimensions represent the required vertical clearance that is needed to complete the offset and return.
- 4) Read across the chart and find the number of chimney sections required and the model number of those particular chimney parts.
- 5) Whenever the chimney penetrates a floor/ceiling, a firestop spacer must be installed.

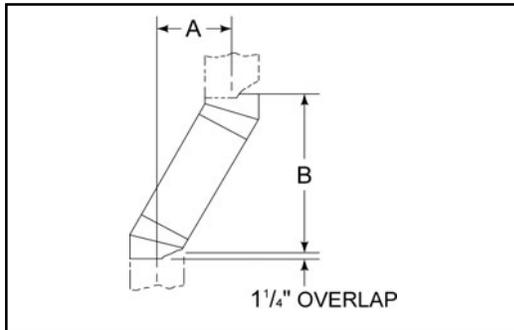


Figure 8 - Chimney Offset/Return

- 6) The effective height of the fireplace assembly is 33". Effective height of fireplace assembly is measured from base of the fireplace to top of starter collar. See Figure 7.

Example: Your "A" dimension from Figure 8 is 14-1/2". Using Table 1, the dimension closest to but not less than 14-1/2" is 14-5/8" using the 30° offset/return. It is then determined from the table that you would need 33" (dimension "B") between the offset and return. The chimney components that best fit your application are two SL312's.

WARNING!

Do not combine offsets to create an offset greater than 30° from vertical. This may create a fire hazard since the natural draft may be restricted.

Table 1 Offset Chart*

15°		30°		SL306	SL312	SL318	SL324	SL336	SL348
A	B	A	B						
1-5/8"	13-3/8"	3-7/8"	14-1/2"	-	-	-	-	-	-
2-1/8"	17-3/4"	6-1/4"	18-5/8"	1	-	-	-	-	-
-	-	8-5/8"	23"	2	-	-	-	-	-
4-1/2"	23-5/8"	9-1/4"	23-3/4"	-	1	-	-	-	-
-	-	11-5/8"	27-7/8"	1	1	-	-	-	-
6"	29-3/8"	12-1/4"	29"	-	-	1	-	-	-
7-1/4"	34"	14-5/8"	33"	-	2	-	-	-	-
-	-	15-1/4"	34-1/8"	-	-	-	1	-	-
-	-	17-5/8"	38-1/4"	1	-	-	1	-	-
-	-	20-5/8"	43-1/2"	-	-	2	-	-	-
10-5/8"	46-3/4"	21-1/4"	44-5/8"	-	-	-	-	1	-
11-7/8"	51-3/8"	23-5/8"	49"	1	-	-	-	1	-
-	-	26-5/8"	53-7/8"	-	-	-	2	-	-
13-3/4"	58-3/8"	27-1/4"	55-3/4"	-	-	-	-	-	1
15"	63"	29-5/8"	59-1/8"	1	-	-	-	-	1
16-1/2"	68-3/4"	32-5/8"	64-1/4"	-	1	-	-	-	1
18"	74-5/8"	35-5/8"	69-1/2"	-	-	1	-	-	1
-	-	38-5/8"	74-5/8"	-	-	-	1	-	1
-	-	41"	78-3/4"	1	-	-	1	-	1
22-3/4"	91-7/8"	44-5/8"	85-1/8"	-	-	-	-	1	1
24"	96-1/2"	47"	89-1/8"	1	-	-	-	1	1
25-7/8"	103-1/2"	50-5/8"	95-1/2"	-	-	-	-	-	2

* Proper assembly of air cooled chimney parts result in an overlap at chimney joints of 1-1/4". Effective length is built into this chart.

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2. Chimney Height Requirements (Above the Roof Line)

- a. Major building codes specify a minimum chimney height above the roof top. These specifications are summarized in what is known as the “Ten Foot Rule.” This rule states:

If the horizontal distance from the side of the chimney to the peak of the roof is 10 feet or less, the top of the chimney must be at least 2 feet above the peak of the roof, but never less than 3 feet in overall height above the highest point where it passes through the roof. See Figure 9.

If the horizontal distance from the side of the chimney to the peak of the roof is more than 10 feet, a chimney height reference point is established on the surface of the roof a distance of 10 feet from the side of the chimney in a horizontal plane. The top of the chimney must be at least 2 feet above this reference point, but never less than 3 feet in height above the highest point where it passes through the roof.

- b. These chimney heights are necessary in the interest of safety but do not ensure smoke-free operation. Trees, buildings, adjoining roof lines, adverse wind conditions, etc. may create a need for a taller chimney should smoking occur.

3. Determine the Number of Chimney Sections Required

To determine the chimney components needed to complete your particular installation, follow the below steps:

- a. Determine the total vertical height of the fireplace installation. This dimension is measured from the base of the fireplace assembly hearth stone to the point where the smoke exits the termination cap.
- b. Subtract the height of the fireplace assembly from the overall height of the fireplace installation.
- c. Refer to the chart below to determine what components must be selected to complete the fireplace installation.
- d. Determine the number of firestop spacers, stabilizers, roof flashing, etc. required to complete the fireplace installation.

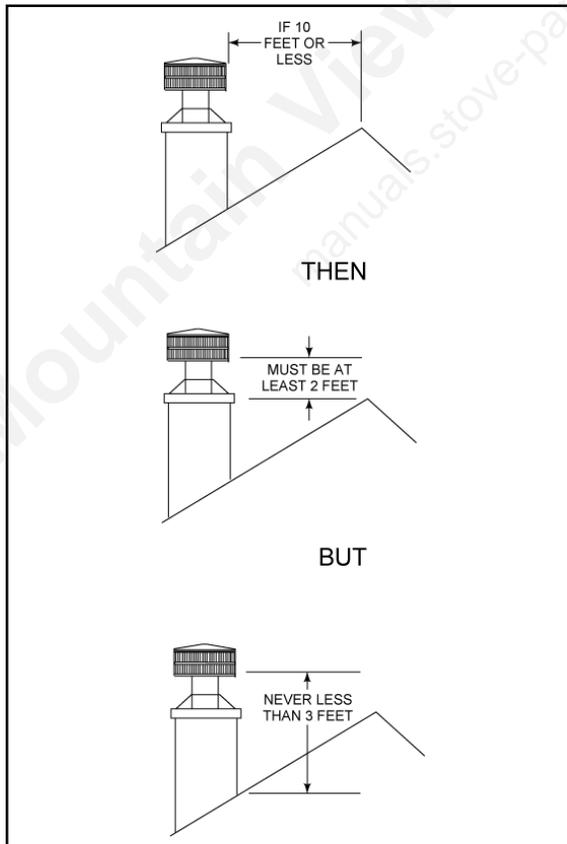


Figure 9 - Chimney Height

Table 2

Height of Chimney Components	
Chimney Stabilizer	
SL3	4-3/4"
Firestop Spacers	
FS338	0
FS339	0
FS340	0
Offsets/Returns	
SL315	13-3/8"
SL330	14-1/2"
Roof Flashing	
RF370	0
RF371	0
Chimney Sections*	
SL306	4-3/4"
SL312	10-3/4"
SL318	16-3/4"
SL324	22-3/4"
SL336	34-3/4"
SL348	46-3/4"

* Dimensions reflect effective height.

F. STEP-BY-STEP INSTALLATION OF FIREPLACE SYSTEM

WARNING!

Before starting, do the following:

1. Wear gloves and safety glasses for protection.
2. Keep hand tools in good condition. Sharpen cutting edges and make sure tool handles are secure.
3. Always maintain the minimum air space required to the enclosure to prevent fire.

1. Position the Fireplace

This fireplace may be placed on either a combustible or noncombustible continuous surface. Follow the instructions for framing on pages 9-12. **Be sure to provide the minimum 3/4" air clearance at the sides and back of the fireplace assembly.**

2. Place the Protective Metal Hearth Strips

Included with your fireplace you will find two metal hearth strips measuring approximately 4" x 26". These strips are used to provide added protection where the fireplace and hearth extension meet.

Slide the metal strips two inches under the front edge of the fireplace. The individual pieces must overlap each other by one inch in the middle of the fireplace to provide continuous coverage of the floor. See Figure 10. These metal strips should extend from the front and sides of the fireplace opening by 2".

3. Level the Fireplace

Level the fireplace side-to-side and front-to-back. Shim with noncombustible material, such as sheet metal, as necessary.

Important: To ensure proper fit of the glass doors, check the fireplace opening to ensure it is square. Measure diagonal distances of the opening to make sure they are equal. If they do not equal, continue to shim the fireplace until those diagonals correspond.

Secure the fireplace by utilizing the nailing flanges located on either side of the fireplace to the vertical framing.

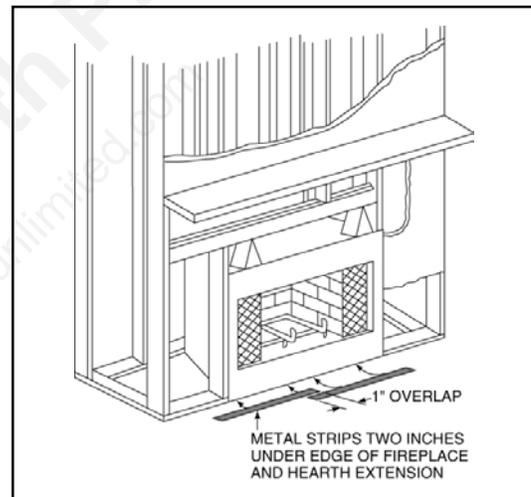


Figure 10
Positioning the Metal Strips

WARNING!

Carefully follow the instructions for assembly of the pipe and other parts needed to install this fireplace system. Failure to do so may result in a fire, especially if combustibles are too close to the fireplace or chimney and air spaces are blocked preventing the free movement of cooling air.

4. Assembling Chimney Sections

Attach either a straight chimney section or an offset to the top of the fireplace depending on your installation requirement. See Figure 11. Chimney sections are locked together by pushing downward until the top section meets the top head on the lower section. See Figure 12. When using offsets and returns, we recommend the offset and return sections be secured in place with screws to ensure proper orientation.

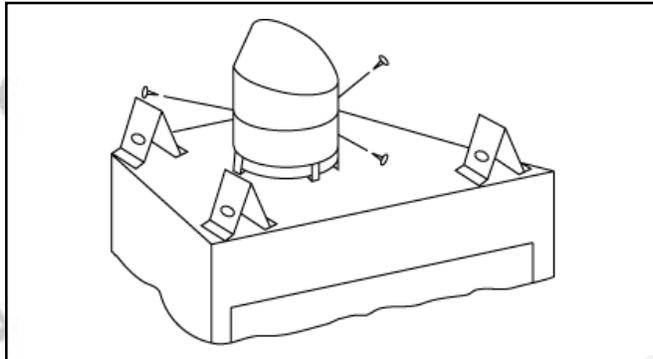


Figure 11
Offset Secured to Fireplace

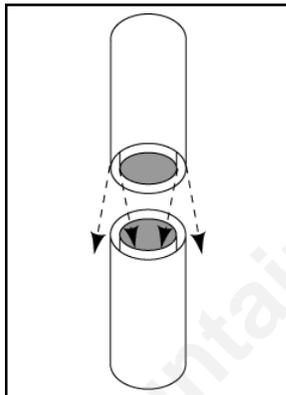


Figure 12
Connecting Chimney Sections

Note: The inner flue is placed to the **inside** of the flue section below it. The outer casing is placed **outside** the outer casing of the chimney section below it. See Figure 12.

5. Prepare the Ceiling for Firestop Spacers

Mark and cut out an opening in the ceiling for the particular firestop spacer being utilized (14-1/2" x 14-1/2" for an FS338, 14-1/2" x 18-3/4" for an FS339, or 14-1/2" x 23" for an FS340). Frame the opening with the same dimension lumber used in the ceiling joists.

6. Install the Firestop Spacers

Install the firestop spacer FS338 (Straight), FS339 (if a 15° offset is located in the ceiling joist area) or FS340 (if a 30° offset is located in the ceiling joist area). Nail the four sides of the firestop spacer to the joists using a minimum of three nails per side.

CAUTION:

Inner flue and outer liner sections cannot be disassembled once locked together. Plan ahead to ensure the proper installation height is achieved with the selected chimney components.

These firestop spacers are designed to provide the minimum two inch air space required around the chimney. In all situations, the firestop spacers are to be nailed to the ceiling joists from the bottom or fireplace side, **EXCEPT** when the space above is an insulated ceiling or attic space. In this situation, the firestop spacer must be nailed from the top side to prevent loose insulation from falling into the required two inch air space around the chimney. See Figure 13.

Firestop spacers must be used whenever the chimney penetrates a ceiling/floor area.

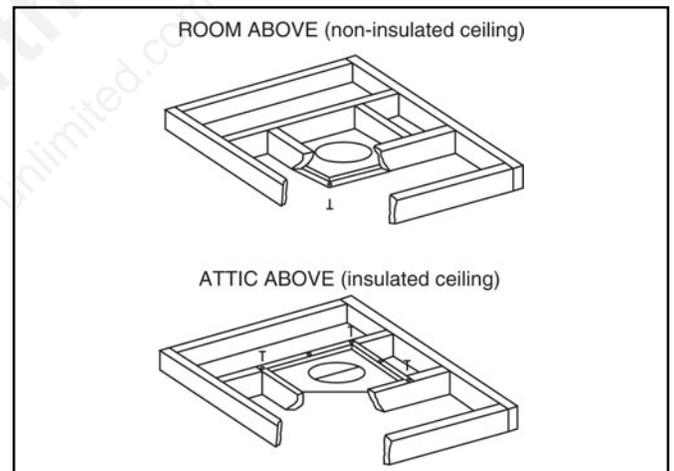


Figure 13
Installing the Firestop Spacer

7. Install an AS8 Attic Insulation Shield

An insulation shield should be installed when there is a possibility of insulation coming into contact with the factory built chimney system.

- Bend the tabs at the top of the attic insulation shield inward. This will help keep the chimney section centered in the shield.
- Position the shield over the vertical chimney section where it penetrates a firestop spacer. The FS338 will support the AS8. See Figure 14, page 17.
- Slide the shield down until it rests on the firestop spacer. The firestop spacer will support the insulation shield. See Figure 14.

When the factory built chimney penetrates an insulated ceiling at either 15 or 30 degrees from vertical, an insulation dam should be constructed from plywood or sheet metal. A minimum 2" air space must be provided between the insulation dam and the factory built chimney system.

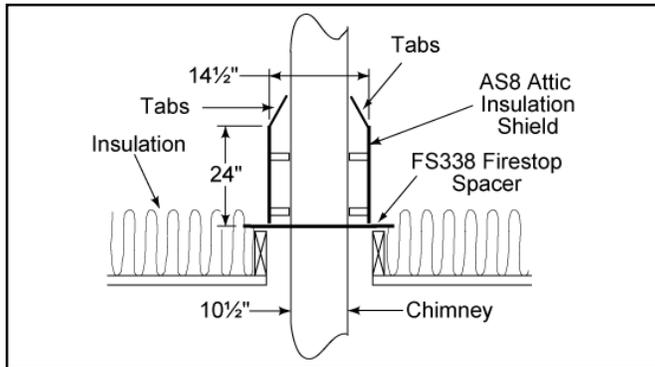


Figure 14
Installing an Attic Insulation Shield

WARNING!

When chimney sections exceeding six feet in length are installed between an offset and return, structural support must be provided to reduce off-center loading and prevent chimney sections from separating at the chimney joints.

10. Mark the Exit Point of the Roof

Locate the point where the chimney will exit the roof by plumbing down to the center of the chimney. Drive a nail up through the roof to mark the center. See Figure 16.

11. Cut out the Hole in the Roof

Measure to either side of the nail and mark the 14-1/2" x 14-1/2" opening required. This is measured on the horizontal; actual length may be larger depending on the pitch of the roof. Cut out and frame the opening. See Chapter 25 of the Uniform Building Code for roof framing details. Be sure to maintain a 2" minimum air space between the chimney section and the roof.

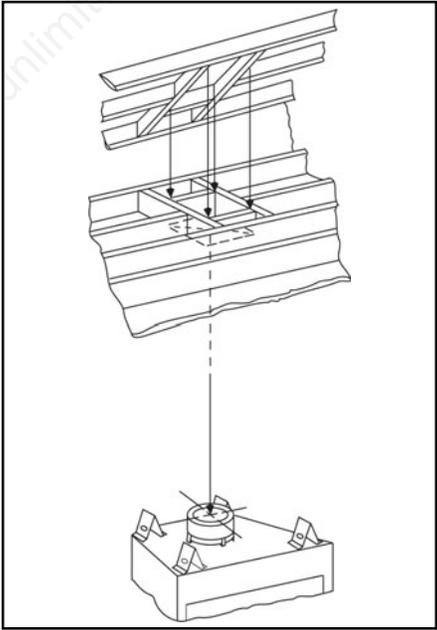


Figure 16
Ceiling and Attic Construction

12. Assemble the Chimney Sections

Continue to add chimney sections through the roof opening, maintaining at least a 2" air space.

WARNING! RISK OF FIRE.

Do not fill the space between the chimney section and the insulation shield with insulation.

8. Double-check the Chimney Assembly

Continue assembling the chimney sections up through the firestop spacers as needed. While doing so, be aware of the height and unsupported chimney length limitations that are given on page 12 under "Chimney Requirements".

Check each section by pulling up slightly from the top to ensure proper engagement before installing the succeeding sections. If they have been connected correctly, they will not disengage when tested.

9. Secure the Chimney System

When offsets and returns are joined to straight pipe sections, they must be locked into position with the screws provided, using the predrilled holes. To prevent gravity from pulling the chimney sections apart the returns and the chimney stabilizers have straps for securing these parts to joists or rafters. See Figure 15.

Note: Be sure to provide support for the pipe during construction and check to be sure inadvertent loading has not dislodged the chimney section from the fireplace or at any chimney joint.

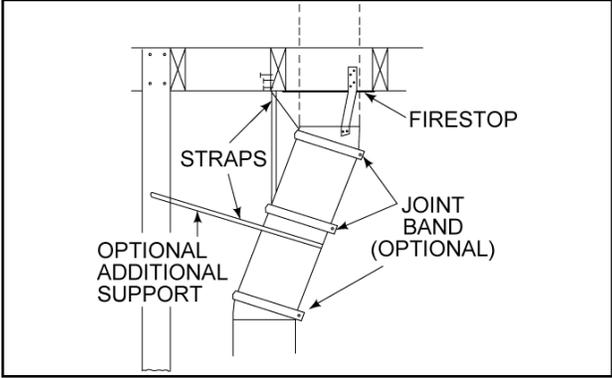


Figure 15
Offset/Return with Stabilizer

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13. Install the Roof Flashing

If a roof flashing is to be used, install the roof flashing appropriate to the roof pitch and install a round termination cap following the instructions shipped with the cap.

For chase installations you can use a round termination cap (TR344), a round telescoping termination cap (TR342), or a square termination cap (ST375, TS345, TS345P). A chase installation must use a chase top. Chase tops are available from your Heatilator distributor. See page 19 for building a chase.

14. Install the Chimney Air Kit

When installing a CAK4A chimney air kit, follow the instructions provided with this accessory. Use of a CAK4A is required in Canada.

15. Install an Outside Combustion Air Kit

The outside air damper assembly is factory installed on the left hand side of the fireplace assembly. While its use is optional, it is highly recommended to minimize the effects of negative pressure within the structure. Figure 17 illustrates two of many possible methods that can be used to supply outside air to the fireplace system. To complete the outside air system, install the outside air kit according to the installation instructions supplied with the components. To operate the air kit damper, move the handle left to open, right to close.

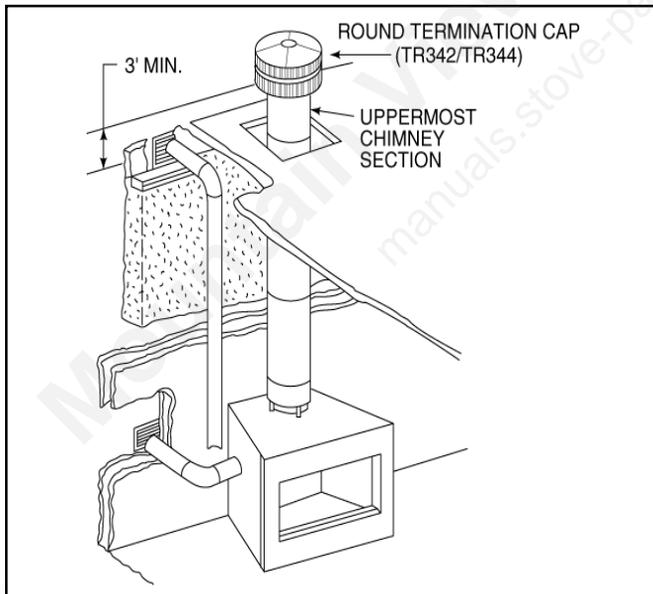


Figure 17 - Outside Air Location

16. Complete the Fireplace Enclosure

Complete the fireplace enclosure, allowing space for outside air ducts and gas piping if desired. Electrical wiring should not come in contact with the fireplace. **A minimum clearance of 3/4" must be maintained between the fireplace sides and the enclosure as well as the fireplace back and the enclosure.** See Section D for framing details.

Note: The outside air kit can terminate at any level with the exception that it must terminate at least three feet below the chimney termination cap as shown in Figure 17.

CAUTION:

When using a gas log set, the fireplace damper must be set in the fully open position. This ensures a proper venting of combustion products.

17. Install the Firescreen

Attach the firescreen to the fireplace side, using the two hairpin clips from the enclosed fastener package. Use pliers to insert the clip through the last strand of screen wire and into the hole at the midpoint of the fireplace side.

18. Install the Glass Doors

If desired, or required by local building codes, install the glass doors using the instructions supplied with the particular set of doors you have chosen.

19. Position the Hearth Extension

Position and secure the hearth extension over the protective metal strips that have been placed partially under the front of the fireplace. See Figure 18. These strips should be protruding approximately two inches from under the front of the fireplace. Seal the crack between the hearth extension and fireplace with a noncombustible sealant.

20. Applying Finishing Materials on the Hearth Extension

Apply the noncombustible finishing material of your choice to the hearth extension. **Do not install combustible materials over the black face of the fireplace. This poses a safety hazard and may start a fire.** You may only use noncombustible material over the black face of the fireplace. Refer to Page 10 for combustible material information.

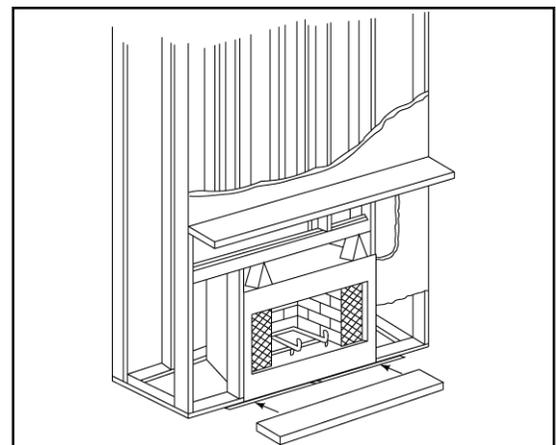


Figure 18
Positioning the Hearth Extension

G. CONSTRUCTING A CHASE

A chase is a vertical boxlike enclosure built around the chimney and fireplace. A chase may be constructed for the fireplace and chimney or for the chimney only. It is most commonly constructed on an outside wall.

In cold climates, it is recommended that the chase floor be insulated using batt type insulation between the floor joists.

Three examples of chase applications are shown in Figure 19.

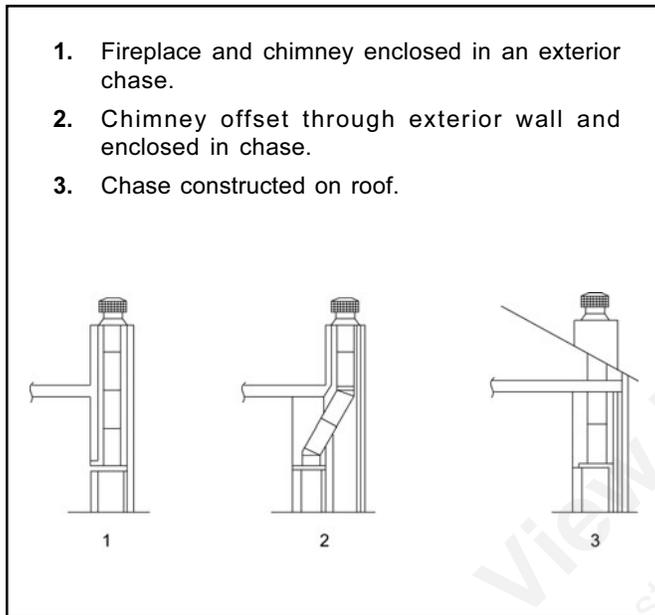


Figure 19
Chase Constructions

1. Materials for the Chase

The chase is constructed using framing materials much the same as the walls in your home. A variety of materials may be used including brick, stone, veneer brick or standard siding materials.

In constructing the chase, several factors must be considered:

- a. Maintain a 3/4" minimum air space around the fireplace.
- b. Maintain a 2" air space around the chimney.
- c. The chase top must be constructed of a noncombustible material.
- d. In cold climates a firestop spacer should be installed in an insulated false ceiling at the 8-foot level above the fireplace assembly. This prevents heat loss through the fireplace.
- e. In cold climates, the walls of the chase should be insulated to the level of the false ceiling as shown in Figure 20. This will help prevent heat loss from the home around and through the fireplace.

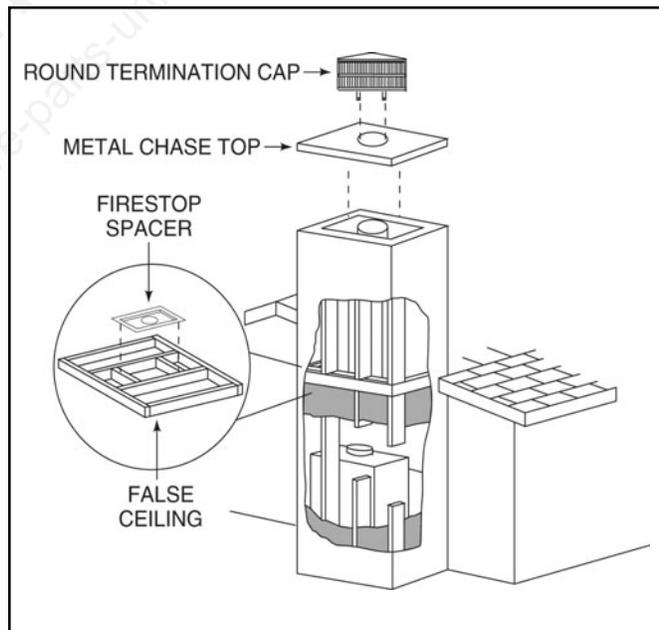


Figure 20
Chase Assembly

2. Installing a Termination Cap on a Chase Enclosed Chimney

Construct a chase of desired materials maintaining a minimum 2" air space around the chimney.

WARNING!

Detailed instructions for installation of the chase top, storm collar and termination cap are packaged with these parts. To avoid danger of fire, all instructions must be strictly followed, including the provision of air space clearance between chimney system and enclosure. To protect against the effects of corrosion on those parts exposed to the weather, we recommend that the chase top and termination cap be painted with a rust-resistant paint.

WARNING!

Never install a single wall slip section or smoke-pipe in a chase structure. The higher temperature of this single wall pipe may radiate sufficient heat to combustible chase materials to cause a fire.

Install the chimney sections up through the chase enclosure. When using a round termination cap (TR344), the uppermost top flashing section of pipe must extend above the top of the chase collar to allow installation of the storm collar and termination cap.

For installations utilizing a telescoping round termination cap (TR342), the uppermost chimney section must be below the top of the chase top, but not more than 14½" below the top of the chase top flashing collar. See Figure 21.

For installations utilizing a square termination cap (ST375), the last chimney section must not be more than 4¾" below the chase top.

When installing a TS345 square termination, the uppermost chimney section must be no less than 3" below the top of the chase top or more than 2" above the top of the chase top.

Attach the chase top (CT35) to the top of the chase.

Install the termination cap, using the instructions provided with it.

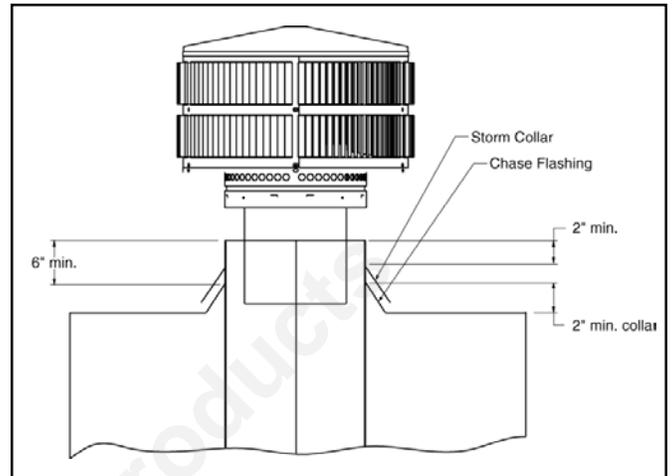


Figure 21
Installing a Termination Cap

WARNING!

Do not operate this fireplace with the flue damper in the closed position. Combustion products must vent up the chimney system to prevent carbon monoxide poisoning, and to prevent hot combustion gases from contacting and overheating combustible surfaces. Failure to operate this fireplace with the damper in the open position may result in asphyxiation or a structure fire.

H. UTILITIES

1. High Altitude Installation

For U.S. installation, fireplaces are tested and approved for elevations from 0-2000 feet. When installing this fireplace at an elevation above 2000 feet, National Fuel Gas Codes require a decrease of the input rating by changing the existing burner orifice to a smaller size. Input should be reduced 4% for each 1000 feet above sea level. Check with the local gas utility for proper orifice size identification. The correct orifice is available from your Heatilator distributor.

For Canada, fireplaces are certified for elevations from 0-4500 feet. When installing this fireplace at an elevation between 0-4500 feet in Canada, the input rating does not need to be reduced. When installing this fireplace at an elevation above 4500 feet in Canada, check with local authorities.

2. Gas Line Connection

Remove the control access cover as shown in Figures 22 and 23.

The appliance is provided with a stainless steel flexible connector and a listed (and Commonwealth of Massachusetts approved) T-handle manual shutoff valve. The incoming gas line should be piped into the valve compartment and connected to the 1/2" FIP connection provided on the manual shutoff valve. See Figure 24 to connect the gas line. **Optional:** Seal around the gas line to prevent cold air leakage.

A gas access hole is provided on the right hand side of the fireplace. It is recommended that the piping be brought in from the right side. However, if it becomes necessary to plumb from the left, a gas knockout is provided. **It is also required that a manual shutoff valve for the fireplace be installed in an accessible area, no more than 6 feet from the fireplace. This manual shutoff valve is required in the event the appliance is ever converted to a solid fuel fired fireplace.**

All connections must be tightened and checked for leaks with a soap and water solution or leak detector.

Bleed the gas line to extract any air that may have been trapped inside the pipe and replace the control access cover.



Figure 22 - Control Access Cover

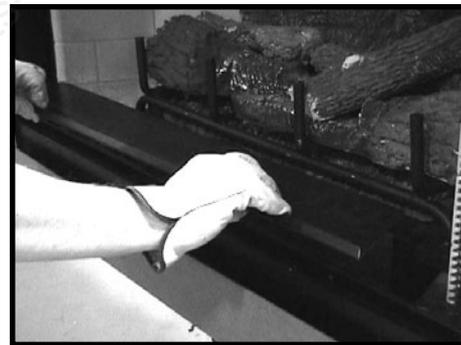


Figure 23 - Control Access Cover

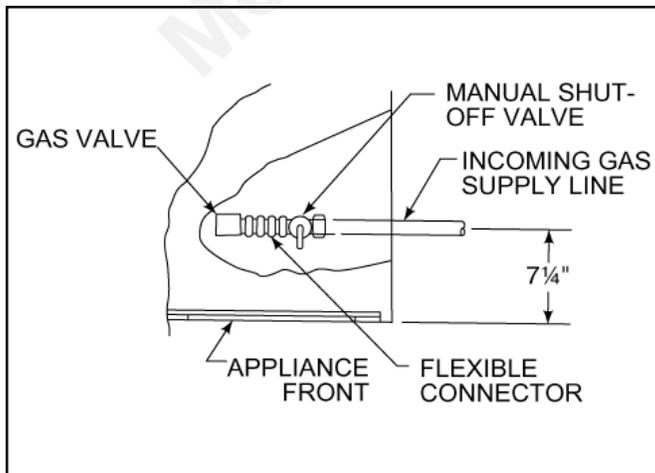


Figure 24 - Gas Line

Note: Have the gas supply line installed in accordance with building codes by a qualified installer approved and/or licensed as required by the locality. In the Commonwealth of Massachusetts, installation must be performed by a licensed plumber or gas fitter.

Note: The appliance and its individual manual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa). The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

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3. Gas Pressure

Pressure taps are included on the front face of the gas control valve. Pressure taps are immediately upstream of the gas supply connection and accessible for test gauge connection.

Tables 3 and 4 show optimum gas pressure information. Consult your local gas company for assistance in determining the proper orifice for your altitude or refer to **ANSI Z223.1-latest edition, Appendix F**.

4. Gas Conversions

A natural or propane gas conversion kit is not available for the Odyssey Series fireplace.

WARNING!
This valve has been preset at the factory. Altering settings may result in fire hazard or bodily injury.

Table 3

ODYSSEY 42"	
Inlet Gas Supply Pressure (N.G.)	4.5 (min.) - 7.0 (max.) in. w.c.
Optimal Manifold Pressure (N.G.)	3.5 in. w.c.
Inlet Gas Supply Pressure (L.P.)	11.0 (min.) - 14.0 (max.) in. w.c.
Optimum Manifold Pressure (L.P.)	10 in. w.c.

Table 4

ODYSSEY 42"		
	High	Low
Input Rate (N.G.)	75,000 BTU/hr.	50,000 BTU/hr.
Input Rate (L.P.)	75,000 BTU/hr.	62,000 BTU/hr.
Orifice Size (N.G.)	.177 in.	
Orifice Size (L.P.)	.070 (front burner) .078 (rear burner)	

5. Junction Box Installation

- a. Remove the junction box assembly from the valve compartment.
- b. If the box is being wired from the **OUTSIDE** of the appliance;
 - 1) Loosen two screws on the Romex connector, feed the necessary length of wire through the connector and tighten the screws.
 - 2) Make all necessary wire connections to the receptacle and assemble the receptacle and cover to the junction box.
 - 3) Attach the junction box assembly to the outside of the appliance with the two screws provided.
- c. If the box is being wired from the **INSIDE** of the appliance;
 - 1) Pull the electrical wires from outside the appliance through this opening into the valve compartment.
 - 2) Loosen the two screws on the Romex connector, feed the necessary length of wire through the connector and tighten the screws.
 - 3) Make all necessary wire connections to the receptacle and assemble the receptacle and cover to the junction box.
 - 4) Attach the junction box assembly to the inside of the appliance with the two screws provided.
- d. If the box is not to be wired at the time of appliance installation, assemble the receptacle and cover to the box and install on the inside of the appliance.

WARNING!

The standing pilot appliance does NOT require a 110V AC supply for operation. Connecting the appliance/wall switch to a 110V AC supply will cause the appliance to malfunction and destroy the valve and thermopile.

Note: This appliance must be electrically wired and grounded in accordance with local codes or, in the absence of local codes, with **National Electric Code ANSI/NFPA 70-latest edition** or the **Canadian Electric Code, CSA C22.1**.

6. Standing Pilot Ignition

- a. **Appliance Requirements.** A wiring diagram is shown in Figure 25.
- b. **Optional Accessories Requirements.** Wiring for optional accessories should be done now to avoid reconstruction. To install junction box, please refer to the installation instructions supplied with the junction box kit.

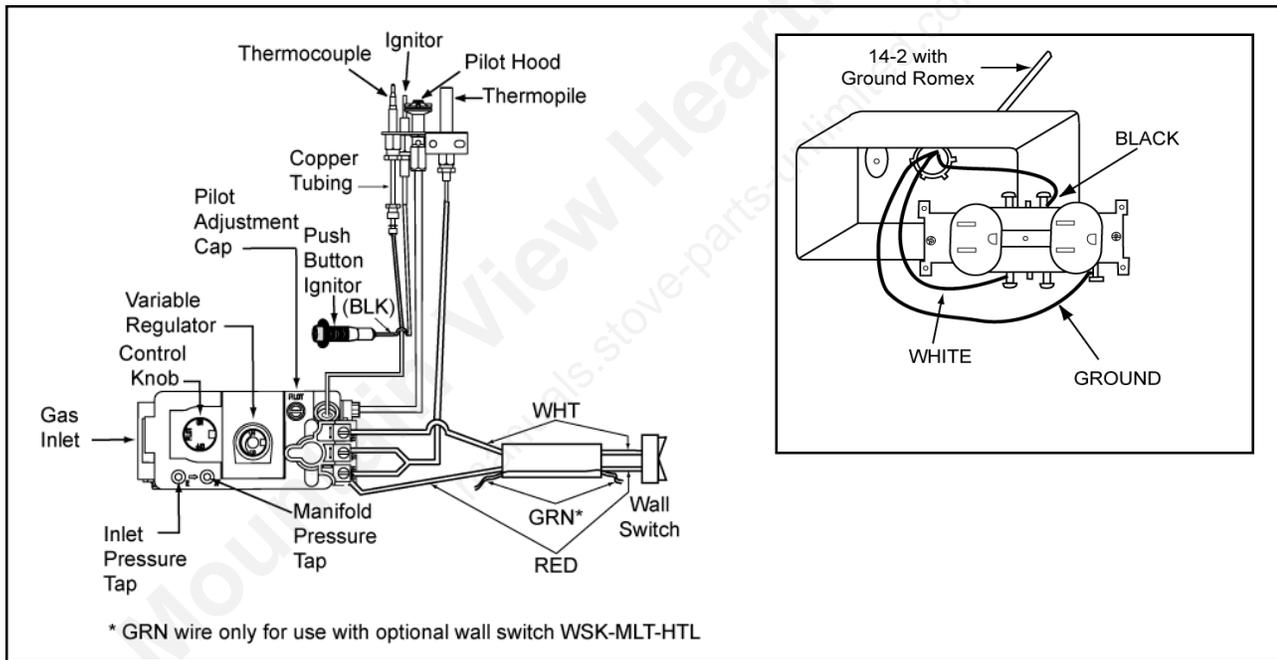


Figure 25
Standing Pilot Ignition Wiring Diagram

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I. APPLIANCE PREPARATION

1. Log Set

Unwrap the top right log shipped inside the valve compartment and position over pins in proper location. See Figure 35. The log set should look similar to that in Figure 26.

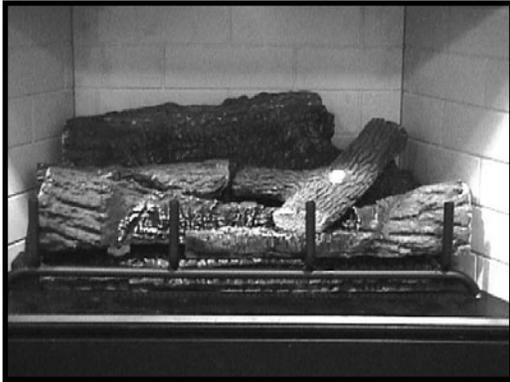


Figure 26 - ODY42 Log Set

2. Place the Lava Rock and Vermiculite

Place lava rock on top of control access panel, in front of, under and around burner. See Figure 27. When placing the vermiculite, sprinkle it evenly over the area covered by the lava rock. See Figure 28. It is not necessary to use all of the lava rock. Save the remainder for future use.



Figure 27 - Placing Lava Rock



Figure 28 - Placing Vermiculite

3. Place the Rock Wool

Place approximately 1/2" diameter pieces of rock wool under the front logs, on the bottom hearth log. Place the rock wool the full length of the burner. Do not pack the wool tightly against the burner. This appliance is supplied with two bags of rock wool. It is not necessary to use all of the wool. Save the remaining amount for future use. See Figure 29.

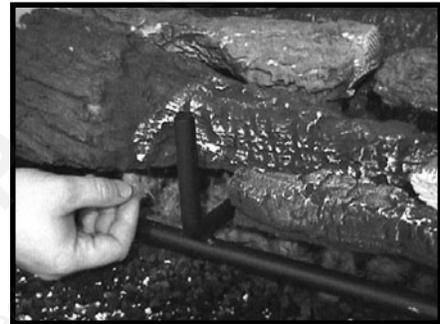


Figure 29 - Placing the Rock Wool

4. Place the Fire Glow

Fire glow (Fire 98) is a flame colorant material that also adds to the realism of the gas fireplace flame. After placing the rock wool in the appliance, sprinkle some of the fire glow (Fire 98) on top of the hearth log and rock wool. As with the lava rock, vermiculite and rock wool, it is not necessary to use the entire bag. Save the remaining for future use. See Figure 30.



Figure 30 - Placing the Fire Glow

J. OPERATING INSTRUCTIONS

Lighting Instructions for Standing Pilot

FOR YOUR SAFETY READ BEFORE LIGHTING THE STANDING PILOT.

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

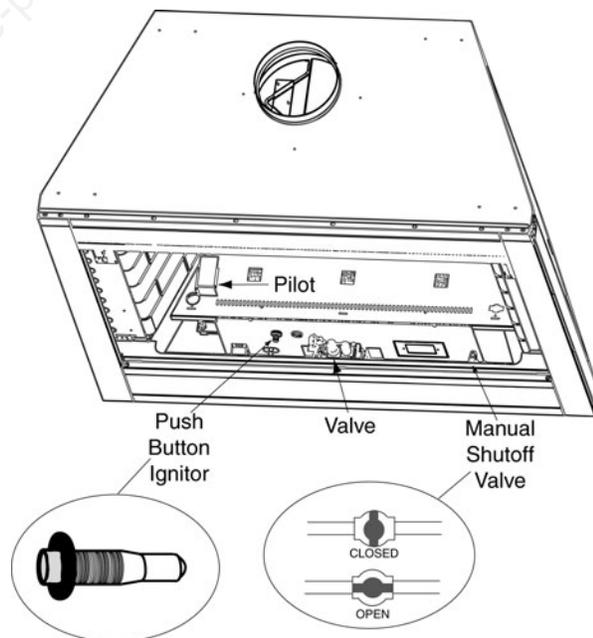
- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the supplier's instructions.

- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn 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. Forced 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

STOP! READ THE SAFETY INFORMATION ABOVE ON THIS LABEL!

1. Turn wall switch to the "OFF" position or set thermostat to lowest setting.
2. Open the control access panel.
3. Turn manual shutoff valve to "CLOSED". Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
4. Turn manual shutoff valve to "OPEN".
5. Turn pilot knob clockwise to "OFF". Knob may have to be depressed to pass the "PILOT" position.
6. Locate pilot assembly inside appliance.
Locate red ignitor button.
Turn pilot knob to "PILOT" and push in.
9. Continue to hold in pilot knob and push the red ignitor button 12-15 times until small blue pilot flame appears.
10. Continue to hold in pilot knob for approximately one minute. Pilot should remain lit. If pilot goes out, wait 5 minutes and repeat Steps 4-9.
11. To light the main burner, release and turn knob counterclockwise to "ON". If the appliance is connected to a wall switch, turn it to "ON". Do not light by hand.
12. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.



TO TURN OFF THE GAS TO THE APPLIANCE

1. Turn off the wall switch.
2. Open the control access panel.
3. Turn manual shutoff valve to CLOSED position. Do not force.
4. Close control access panel.

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K. SEASONAL CHECK LIST

WARNING!

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the appliance.

CAUTION:

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating this appliance. Clothing or other flammable material should not be placed on or near the appliance.

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

1. Glass Doors

Most efficient fireplace operation using glass doors is with the doors open. Only Hearth & Home Technologies glass doors may be used on the ODY42 Series fireplace. See Figure 31 for proper operation of glass doors.

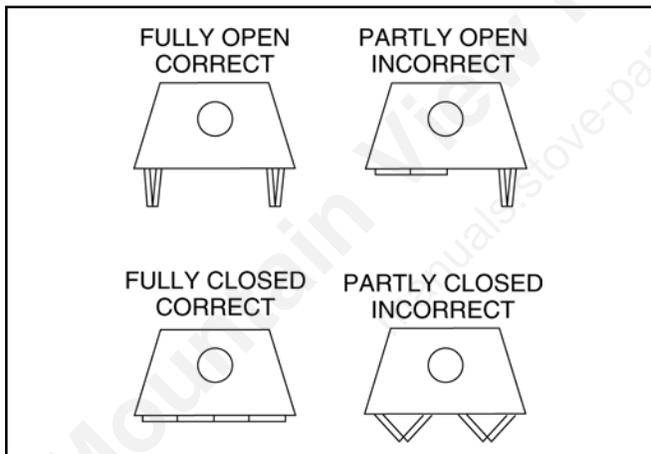


Figure 31
Recommended Operating Positions of Doors

2. Negative Air Pressure Within the Structure

This fireplace will operate correctly only if adequate ventilation is provided to allow proper draft to the fireplace system. Hearth & Home Technologies assumes no responsibility for the improper performance of the fireplace system caused by inadequate draft due to environmental conditions, down drafts, tight sealing construction of the structure, or mechanical exhausting devices which create a negative air pressure within the structure where the fireplace is located.

3. Outside Air

A damper control handle allows individual control of the outside air inlets if your fireplace is equipped with this option. Use of outside air for combustion is highly recommended to conserve heated air within the structure and to provide make up air to keep the fireplace venting properly.

4. Before operating this appliance, have a qualified technician:

- Review proper placement of logs, rock wool and vermiculite.
- Check wiring.
- Check air shutter adjustment.
- Ensure there are no gas leaks.
- Ensure the glass is sealed and in proper position.
- Ensure the flow of combustion and ventilation air is not obstructed.

WARNING!

Fireplaces equipped with doors should be operated only with doors fully open or fully closed. If doors are left partially open, gas and flame may be drawn out of the fireplace opening, creating the risk of fire, smoke, or carbon monoxide.

WARNING!

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

ODYSSEY SERIES FIREPLACE WITH GAS LOG SET

5. Standing Pilot Operation

Hearth & Home Technologies recommends you leave the pilot on year round.

Lighting the Fireplace During Regular Use: Turn the wall switch to "ON".

Shutdown During Regular Use: Turn the wall switch to "OFF".

If you decide to shut down the appliance for a long period of time:

- a. Turn all wall switches to "OFF".
- b. Turn pilot knob on valve to "OFF".
- c. Turn the manual shutoff valve to "CLOSED".
- d. To relight the standing pilot and appliance, see page 25.

6. Fuel

Do not burn wood or other material in this fireplace with the gas logs installed. The ODYCKW Conversion Kit is available to convert this fireplace to burn solid fuel (wood).

WARNING!

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.

L. START-UP ISSUES

Cause	Possible Solution
1. Condensation on glass.	This is a result of gas combustion and temperature variations. As the fireplace warms, this condensation should disappear.
2. Blue flames.	This is a result of normal operation and the flames will begin to yellow as the fireplace is allowed to burn.
3. Odor from fireplace.	When first operated, this fireplace may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing.
4. Film on the glass.	This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 4-6 hours of the initial burning to remove deposits left by oils from the manufacturing process. A nonabrasive cleaner such as Brasso may be necessary.

WARNING!

Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid or similar liquids in this appliance. Keep any flammable liquids a safe distance from the appliance.

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M. MAINTENANCE INSTRUCTIONS

1. Clean the Burner and Control Compartment

Keep the burner and control compartment clean by brushing and vacuuming at least once a year. Always turn off the wall switch (or remote control) and gas valve before cleaning.

2. Chimney Inspection

Visually inspect the chimney internally for obstructions and construction damage. Flue pipe joints and seams must be continuous and mechanically tight.

3. Check the Flame Patterns

- a. Check the flame pattern of the burner periodically, making sure the flames are steady, not lifting or floating. The flame color should be blue with yellow tips. See Figure 32. The thermopile and thermocouple tips should be covered with flame. See Figure 33.
- b. If the vent configuration is installed incorrectly, the vent may cause the flames inside the appliance to lift or "ghost" - a dangerous situation. Inspect the flames after installation to ensure proper performance. See Figure 32. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off gas to the appliance and contact the dealer.

Note: The look of the flames and embers may differ based on the type of fuel and venting assembly that is used.

- c. To prevent the possibility of soot buildup, we have provided your fireplace with an adjustable air shutter (two burners/two air shutters on the propane version). Your air shutter is provided in the "OPEN" position for natural gas and for propane. In the event soot is accumulating in your fireplace, the air shutter should be checked to make sure it is fully open. This can be done by opening the control access panel, locating the adjustable air shutter and opening as far as necessary to eliminate as much soot as possible. See Figure 34.



Figure 32 - Flame Patterns

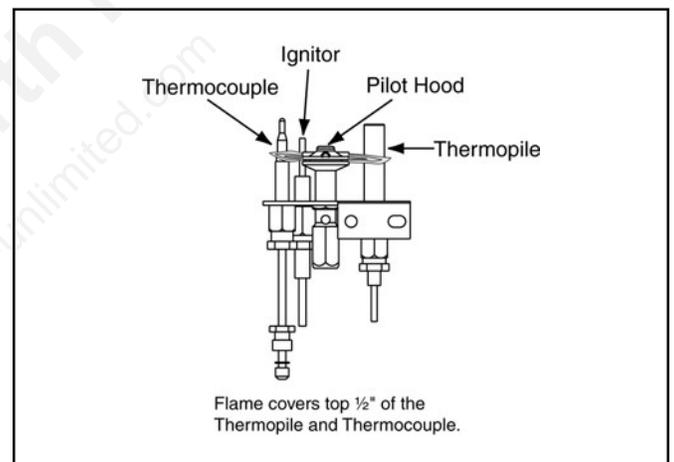


Figure 33 - Standing Pilot

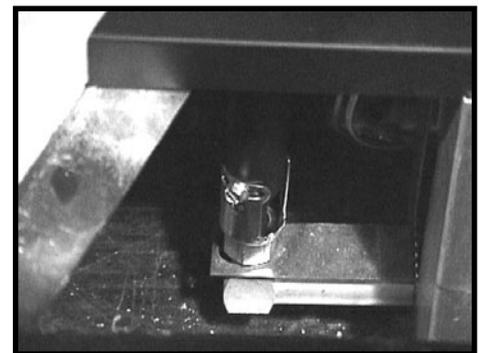


Figure 34 - Air Shutter

N. LOG REMOVAL/REPLACEMENT

1. Open the control access panel as shown in Figures 22 and 23 on page 21.
2. Remove the top right log. See Figure 35.
3. For removal of the grate/log assembly remove two screws (one per side) from the hearth pan. See Figure 36.
4. Lift up on the assembly to remove it from the fireplace and set it aside, being careful not to damage any of the logs. See Figure 37.
5. Reverse the order to reinstall the logs.



Figure 35
Removing the Top Right Log



Figure 36
Unscrewing the Log/Grate Assembly
from the Hearth Pan



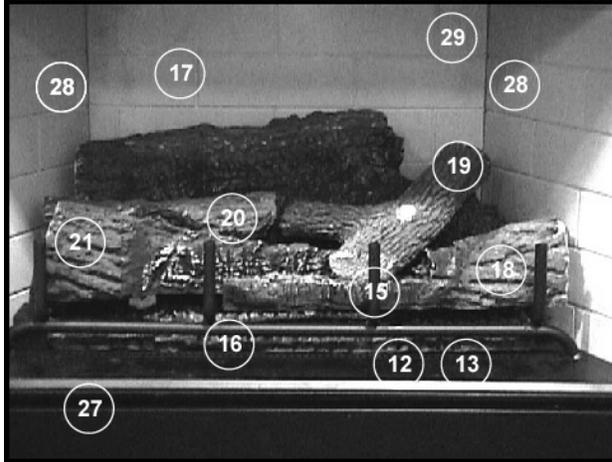
Figure 37
Log Removal

Visit our Website at www.heatilator.com for a dealer/distributor near you!

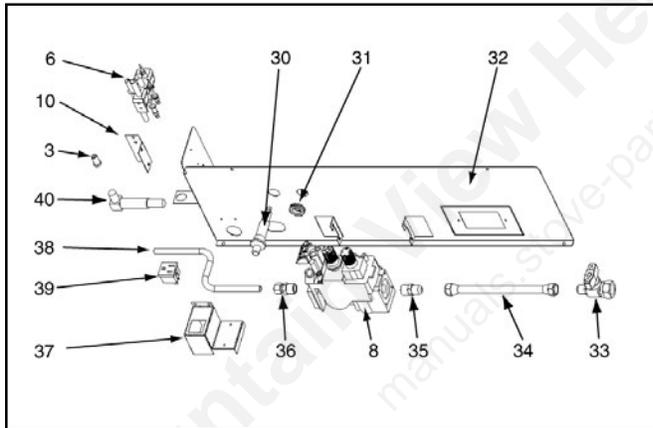
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O. REPLACEMENT PARTS

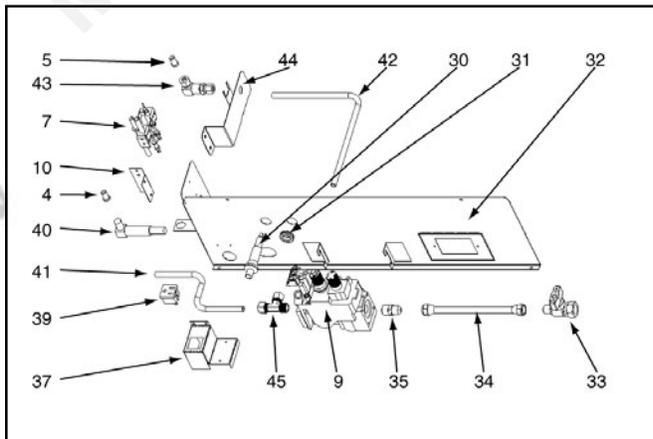
Replacement parts are available from your distributor/dealer.



ODY42 Burner/Grate/Log Assembly



N.G. Version



L.P. Version

ITEM	PART #	DESCRIPTION	QTY.
1	31809	Valve Assembly - N.G.	1
2	31810	Valve Assembly - L.P.	1
3	31813	Orifice - N.G.	1
4	18678	Orifice - L.P. - Front	1
5	24005	Orifice - L.P. - Rear	1
6	25174	Pilot Assembly - N.G.	1
7	25175	Pilot Assembly - L.P.	1
8	29484	Valve - N.G.	1
9	29485	Valve - L.P.	1
10	31227	Pilot Bracket	1
11	31230	Pilot Shield (not shown)	1
12	30699	Valve Cover	1
13	31807	Hearth Pan	1
14	31820	Hearth Assembly	1
15	31907	Grate/Log/Burner Assembly	1
16	32460	Hearth Log	1
17	32461	Back Log	1
18	32462	Right Front Log	1
19	32463	Right Top Log	1
20	31801	Left Middle Log	1
21	31478	Left Front Log	1
22	32458	Mineral Wool, Lava Rock, Vermiculite, and Fire Glow	1
23	14333	Mineral Wool	1
24	28746	Vermiculite	1
25	28911	Lava Rock	1
26	FIRE98	Fire Glow	1
27	30332	Hearth Filler	1
28	28393	Side Refractory	1
29	28394	Back Refractory	1
30	13416	Push Button Ignitor	1
31	25741	Grommet	1
32	31808	Valve Plate	1
33	15697	On/Off Valve Assembly	1
34	15696	SS Flex Gas Line 10"	1
35	17069	Male Connector Brass - Flex	1
36	13425	Male Connector Brass - Tube	1
37	31908	Junction Box	1
38	31815	Gas Tube - N.G.	1
39	26313	Outlet w/Ground	1
40	21352	90° Bulk Head Elbow	1
41	30296	Front Gas Tube - L.P.	1
42	30666	Rear Gas Tube - L.P.	1
43	26457	Bulkhead - L.P.	1
44	30667	Rear Bulkhead Bracket	1
45	25059	Brass T	1

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GAS APPLIANCE (FIREPLACE)

LIMITED LIFETIME WARRANTY

HEARTH & HOME TECHNOLOGIES INC. ("HHT") extends the following warranty for HEATILATOR® gas appliances installed in the United States of America or Canada (the "Appliance"). Dealers and employees of HHT have no authority to make any warranty or authorize any remedies in addition to or inconsistent with the terms of this warranty.

Limited Lifetime Warranty

HHT warrants the Appliance for component failure due to a manufacturing defect of any of the following components: combustion chamber, burner pan, and logs. The Limited Lifetime Warranty specified above is subject to the conditions, exclusions and limitations listed below, is for the period the Appliance is owned by the original homeowner only, and is nontransferable.

1 Year Limited Warranty

HHT warrants the Appliance to be free from failure of any of the following components for a period of one year after installation: valve, flexible gas line connector, glass panel, fan, direct vent chimney components, factory paint, gasket, piezo ignitor, thermopile, thermocouple, junction box, pilot assembly, shutoff valve, high limit switch, refractory liners, transformer, and control box. If the Heatilator Appliance is found to be defective in either material or workmanship within one year of the date of original installation, HHT will provide replacement parts at no charge and pay reasonable labor and freight costs, and is for the period of one year following the date of original installation of the Appliance.

Conditions, Exclusions, & Limitations of Liability

- A. Both the Limited Lifetime and 1 Year Limited Warranties supplied by HHT apply only while the Appliance is in its location of original installation. HHT's obligation under this warranty does not extend to damages resulting from (1) installation, operation or maintenance of the Appliance not in accordance with the Installation Instructions, Operating Instructions, and the Listing Agent Identification Label furnished with the Appliance; (2) installation which does not comply with local building codes; (3) shipping, improper handling, improper operation, abuse, misuse, accident or unworkmanlike repairs; (4) environmental conditions, inadequate ventilation or drafting caused by tight sealing construction of the structure, air handling devices such as exhaust fans or forced air furnaces, or other causes; (5) use of fuels other than those specified in the Operating Instructions; (6) installation or use of components not supplied with the Appliance or any other components not expressly authorized and approved by HHT; and/or (7) modification of the Appliance not expressly authorized and approved by HHT in writing. This warranty is limited to only the component parts manufactured or supplied by HHT.
- B. HHT's liability under both the Limited Lifetime Warranty and the 1 Year Limited Warranty is limited to the replacement and repair of defective components or workmanship during the applicable period. HHT may fully discharge all of its obligations under such warranties by repairing the defective component(s) or at HHT's discretion, providing replacement parts at no charge and paying reasonable labor and freight costs.
- C. **EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE WARRANTY SPECIFIED ABOVE.**
- D. Some states do not allow exclusions or limitations of incidental or consequential damages, so those limitations may not apply to you. This warranty gives you specific rights; you may also have other rights which vary from state to state.

How to Obtain Service

To obtain service under this warranty you must:

1. Send written notice of the claimed condition to Heatilator Technical Service Department, Hearth & Home Technologies, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641-1563. You may also register your claim online at www.heatilator.com/contact.asp.
2. Provide proof of purchase, model number, serial number, and manufacturing date code to HHT.
3. Provide HHT reasonable opportunity to investigate the claim, including reasonable opportunity to inspect the Appliance prior to any repair or replacement work and before the Appliance or any component of the Appliance has been removed from the place of original installation.
4. Obtain HHT's consent to any warranty work before the work is done.

ADDITIONAL INFORMATION:

If you would like information on current HEATILATOR products or want to locate a dealer in your area, call 1-800-927-6841.

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