

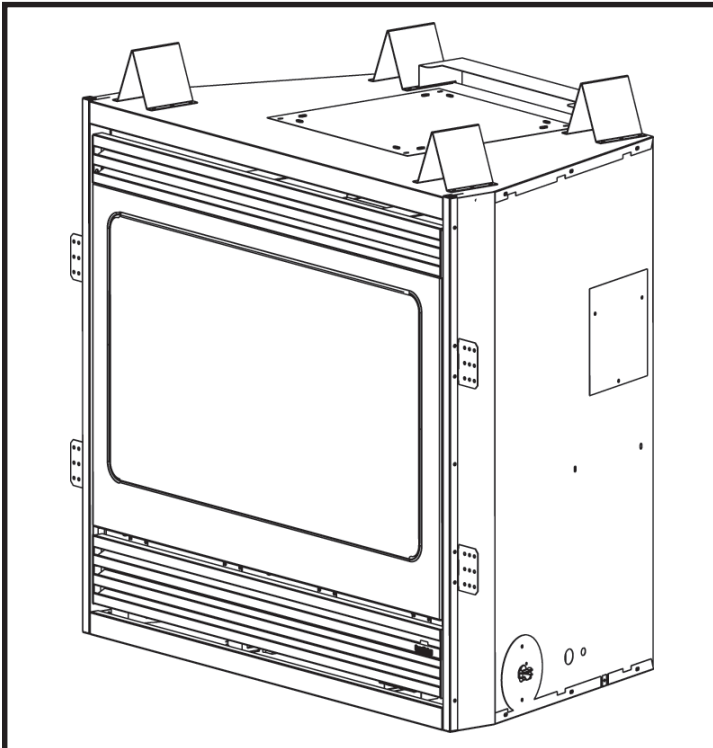


heatilator[®]
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Hearth & Home Technologies Inc.
1915 W. Saunders Street
Mt. Pleasant, Iowa 52641
www.heatilator.com

INSTALLATION & OPERATING INSTRUCTIONS

MAXUS DIRECT VENT HEATER LISTED GAS APPLIANCE



MAX60 (Shown with the FFMAX1 Face)
For Residential Use - Meets all HUD requirements for
manufactured housing installations.

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.

CAUTION:

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

FOR MANUFACTURED (MOBILE) HOMES:

This appliance may be installed as an OEM installation in a manufactured (mobile) home and must be installed in accordance with the manufacturer's instructions and the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280* or *Standard for Installation in Mobile Homes, CAN/CSA Z240 MH*. For assistance during installation contact your local dealer or contact the Heatilator Technical Services Department, Hearth & Home Technologies Inc., 1915 W. Saunders St., Mt. Pleasant, IA 52641. 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 listed on the rating plate. This appliance is not convertible for use with other gases, unless a certified conversion kit is used.

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.

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE TABLE OF CONTENTS

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

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

1. Please read these installation instructions completely before beginning installation procedures. Failure to follow them could cause an appliance malfunction resulting in serious injury and/or property damage.
2. Always check your local building codes prior to installation. This installation must comply with all local, regional, state and national codes and regulations.
3. Installation and repair should be done by a qualified service person. This appliance should also be inspected annually by a qualified service person. More frequent inspections/cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that the control compartment, burners and circulating air passageways of the appliance be kept clean.
4. This is a vented decorative gas appliance. Do not burn wood or other material in this appliance.
5. **NEVER** leave children unattended when there is a fire burning in the appliance.
6. This appliance may only use the approved venting systems shown in these installation instructions. Venting **must not be connected** to chimney flue servicing a solid fuel burning appliance or a gas fuel burning appliance.
7. **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.
8. While servicing this appliance, always shut off all electricity and gas to the appliance. This will prevent possible electrical shock or burns. Also, make sure the appliance is completely cooled before servicing.
9. 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.
10. Be sure to provide adequate clearances around the air openings into the combustion chamber and adequate accessibility clearances for servicing and proper operation.

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A. LISTINGS AND CODE APPROVALS

1. U.S. and Canadian Certification

The Maxus Series Gas Appliance has been tested in accordance with the **ANSI standard Z21.88-1998, CSA 2.33-M98**, and has been listed by UL for installation and operation as described in these installation and operating instructions. All components are AGA, CGA, CSA or UL safety certified.

2. Local Codes

This installation must conform with local codes or, in the absence of local codes, with the **National Fuel Gas Code, ANSI Z223.1-latest edition** in the U.S.A., and the **CAN/CGA B149-latest edition** in Canada.

The Maxus Series gas appliance has been tested and listed for use in manufactured housing (mobile homes). These installation instructions conform with the **Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280**, or when such a standard is not applicable, the Standard for **Manufactured Home Installations, ANSI A225.1**.

This appliance is approved for installation in bedrooms and manufactured housing (mobile homes) in the United States and Canada.

3. Glass Specifications/Certifications

Heatilator gas appliances manufactured with tempered glass may be installed in hazardous locations such as bathtub enclosures as defined by the CPSC. The tempered glass has been tested and certified to the requirements of **ANSI Z97.1-1984 and CPSC 16 CFR 1202. (Safety Glazing Certification Council SGCC# 1595 and 1597. Architectural Testing, Inc. Reports 02-31919.01 and 02-31917.01.)**

This statement is in compliance with **SPCS 16 CFR Section 1201.5 "Certification and labeling requirements"** which refers to **15 USC 2063** stating, "...Such certificate shall accompany the product or shall otherwise be furnished to any distributor or retailer to whom the product is delivered."

Some local building codes require the use of tempered glass with permanent marking in such locations. Glass meeting this requirement is available from the factory. Please contact your dealer or distributor to order.

4. Efficiency

The efficiency rating of the appliance is a product thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

If any assistance is required during installation please contact your local dealer or contact the Heatilator Technical Services Department, Hearth & Home Technologies Inc., 1915 W. Saunders St., Mt. Pleasant, IA 52641, 1-800-927-6841.

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.


Note: Illustrations throughout these instructions reflect typical installations and are for design purposes only. Actual installations 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 instructions are not drawn to scale.

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Rating Plate Located in the Heater

(Example only)

HEATILATOR A Div. of Hearth Tech. Inc. 1915 W. Saunders Street Mt. Pleasant, IA 52641		SERIAL NO. DE SERIE	GA000001	 71R1 CERTIFIED FOR CANADA CERTIFIE POUR LE CANADA
ANSI Z 21.88-1998 CSA 2.33-1998 VENTED GAS FIREPLACE HEATER FOR USE AT HIGH ALTITUDES. UL 307B APPROVED FOR MOBILE HOME USE.				
MODEL		MFG. DATE		
MODELE		DATE DE FAB.		
GAS TYPE/TYPE DE GAZ		NATURAL/NATUREL	PROPANE	
ALTITUDE	0-4500 FT/PI		0-4500 FT/PI	
MAX. INPUT/DEBIT	40,000 BTUH		37,000 BTUH	
MIN. INPUT/DEBIT		27,600 BTUH		25,900 BTUH
OUTPUT		29,200 BTUH		27,010 BTUH
STEADY STATE				
THERMAL EFFICIENCY		73%		73%
MANIFOLD PRESSURE		3.5 IN. W.C.		10.0 IN. W.C.
PRESSION TUBULURE		C. D'EAU		C. D'EAU
MIN. INLET PRESS.	4.5 IN. W.C.		11.0 IN. W.C.	
FOR THE PURPOSE OF		C. D'EAU		C. D'EAU
INPUT ADJUSTMENT				
PRESS. MIN. D'ALIMENTATION	.125/3.18 DIA.			.073/1.85 DIA. IN./mm
ORIFICESIZE				
DIAM. INJECTERU				
LESS THAN/MOINS DE 3 AMPERES., 60 Hz.				
THIS VENTED GAS FIREPLACE HEATER IS NOT FOR USE WITH AIR FILTERS				
DO NOT REMOVE OR COVER THIS LABEL.				
VENTED GAS FIREPLACE HEATER - NOT FOR USE WITH SOLID FUEL. RADIATEUR MURAL A EVACUATION DIRECT PAR GRAVITE - NE DOIT PAS ETRE UTILISE AVEC UN COMBUSTIBLE SOLID.				

WARNING!

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

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B. APPLIANCE SPECIFICATIONS

Maxus Nomenclature

Catalog #	Description
MAX60	38 in. wide/36 in. glass/natural gas/standing pilot
MAX60L	38 in. wide/36 in. glass/propane/standing pilot
MAX60F	38 in. wide/36 in. glass/natural gas/standing pilot/fan kit
MAX60LF	38 in. wide/36 in. glass/propane/standing pilot/fan kit
MAX60E	38 in. wide/36 in. glass/natural gas/electronic ignition
MAX60LE	38 in. wide/36 in. glass/propane/electronic ignition
MAX60EF	38 in. wide/36 in. glass/natural gas/electronic ignition/fan kit
MAX60LEF	38 in. wide/36 in. glass/propane/electronic ignition/fan kit
FFMAX1	Black grille, black hood, bright brass trim around flat top opening
FFMAX2	Black filligree front, black hood, bright brass trim around arched top opening
FFMAX2G	Gold filligree front, gold hood, no extra trim and arched top opening

Components	Description
DRC-RADIUS	Cap Shield
COOL-ADDM	Cap Shield - pack of six
DVP-TV	Vertical Termination Cap
DVP45	45-deg Elbow
DVP90	90-deg Elbow (for Heatilator appliances only)
DVP90ST	90-deg Starter Elbow (should be the first 90-deg elbow used)
RF6M	Roof Flashing (vertical termination for 0/12 to 6/12 pitch) - pack of four
RF12M	Steep Pitch Roof Flashing (for 7/12 to 12/12 pitch) - pack of six
DVP4	4 in. length Vent Pipe
DVP6	6 in. length Vent Pipe
DVP12	12 in. length Vent Pipe
DVP24	24 in. length Vent Pipe
DVP36	36 in. length Vent Pipe
DVP48	48 in. length Vent Pipe
DVP6A	3-6 in. Slip Section Vent Pipe (to be used with another piece of pipe)
DVP12A	3-12 in. Slip Section Vent Pipe (to be used with another piece of pipe)
DVP12MI	12 in. Vent Pipe - non-unitized (can be cut to length)
DVP24MI	24 in. Vent Pipe - non-unitized (can be cut to length)
DVP-HVS	Vent Support
DVP-WS	Wall Shield to ensure horizontal clearances
DVP-FS	Firestop Spacer
DVP-TRAP1	Horizontal Termination Cap with 1-3/4 in. telescoping flue and wall shield with heat shield
DVP-TRAP2	Horizontal Termination Cap with 4 in. telescoping flue and wall shield with heat shield
DVP-TB1	Basement Horizontal Termination Cap
DVP-TRAPK1	Top Vent Horizontal Kit with DVP-TRAP1 Termination Cap, wall shield with heat shield, and starter elbow
DVP-TRAPK2	Top Vent Horizontal Kit with DVP-TRAP2 Termination Cap, wall shield with heat shield, and starter elbow
DVP-HSM	Extended Heat Shield
BEK	Brick Extension Kit
DVP-AS	Attic Insulation Shield

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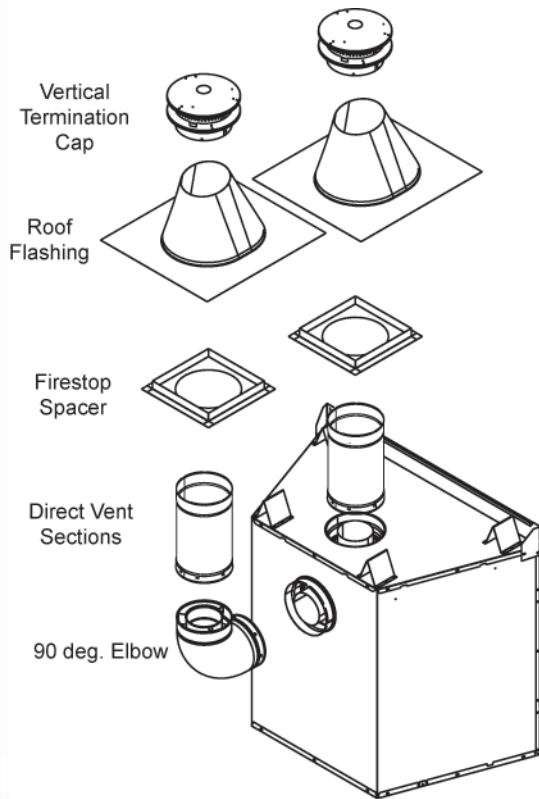
Note: Minimum and maximum clearances must be maintained at all times. Illustrations throughout these instructions reflect typical installations and are for design purposes only. Actual installation may vary slightly due to individual design preferences.

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

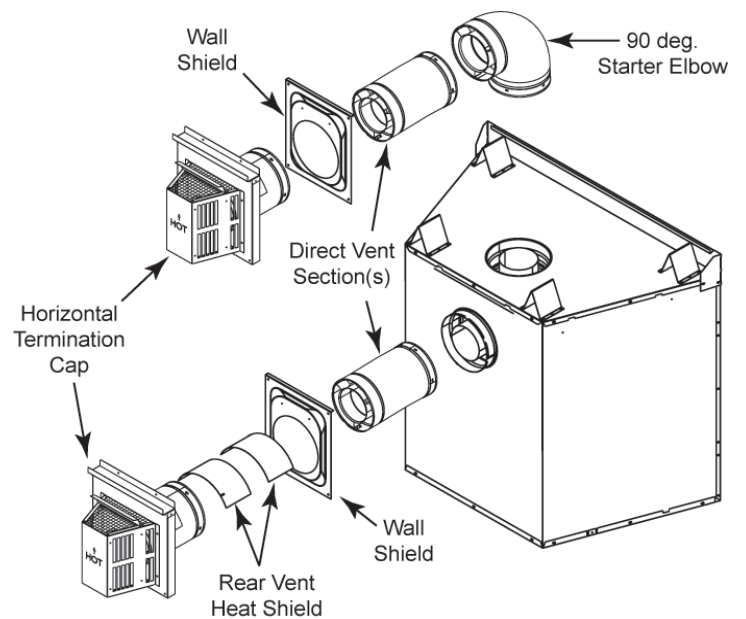
Tools and building supplies normally required for installation:

- | | |
|-----------------------------------|--------------------------|
| Saw | Wall-finishing materials |
| Pliers | Surround |
| Hammer | Framing material |
| Phillips screwdriver | Caulking material |
| Tape measure | Gloves |
| Plumb line | Framing square |
| Level | Electric drill and bits |
| Safety glasses | |
| Non-corrosive leak-check solution | |

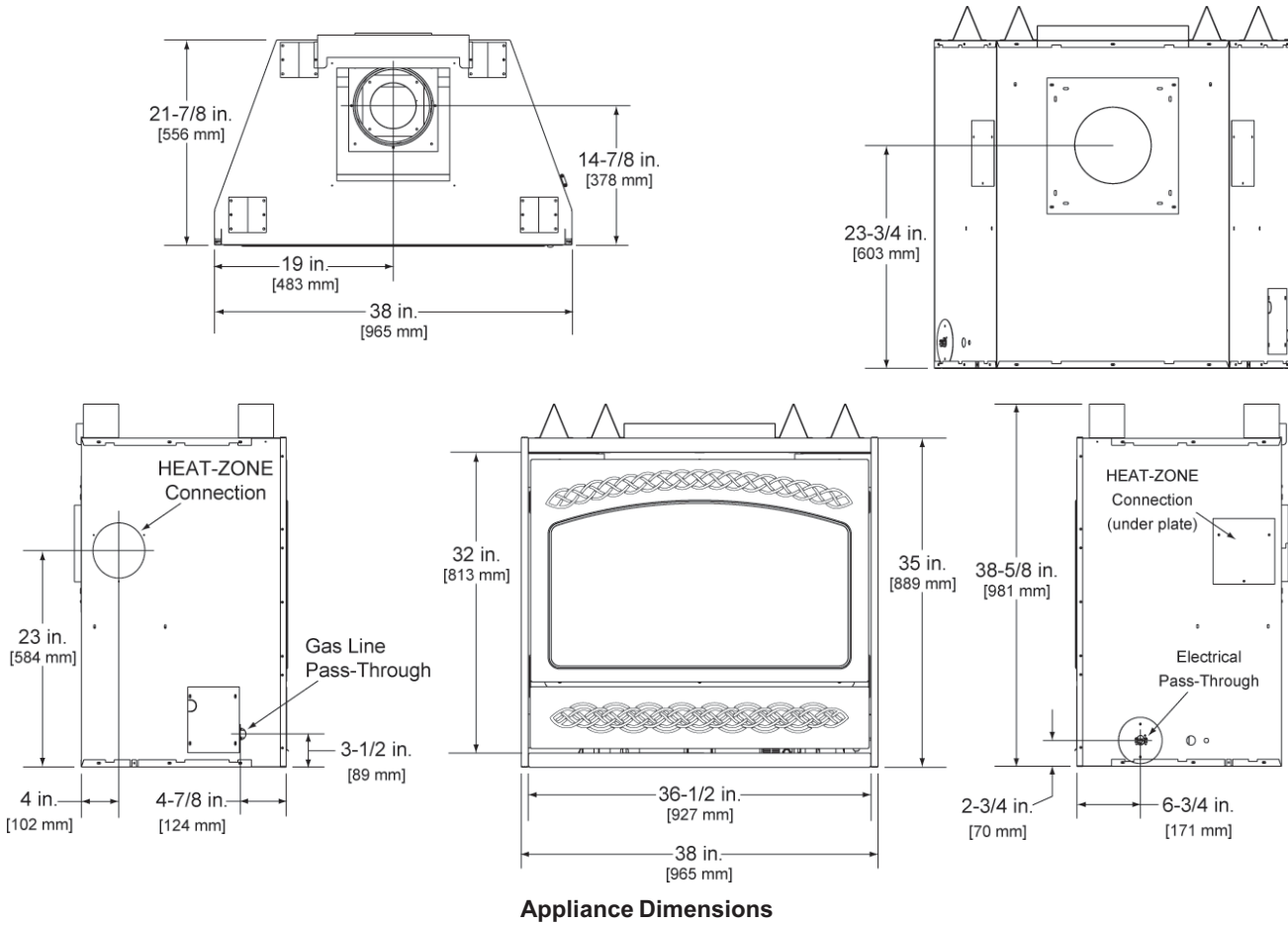
Typical Vertical Installations (Rear and Top Vent Shown)



Typical Horizontal Installations (Rear and Top Vent Shown)



C. LOCATIONS AND CLEARANCES



WARNING!
Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

1. Clearances to Combustible Materials

Figure 1 illustrates appliance clearances to combustible materials.

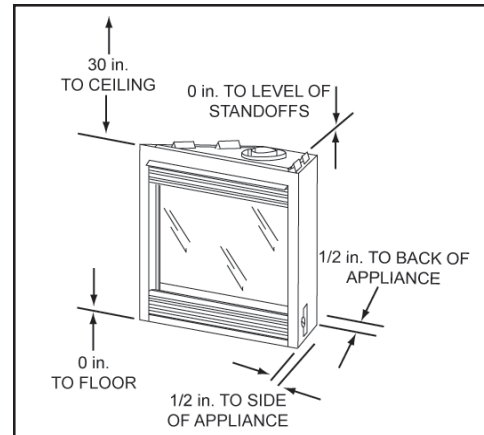


Figure 1
Appliance Clearances to Combustible Materials

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2. Locations and Space Requirements

Figure 2 illustrates different ways the appliance may be located in a room and the space required. This appliance may be installed directly on the floor or raised on a hearth. Adjacent combustible side walls must be located a minimum of 12 in. from the appliance. If you are using a decorative surround constructed of combustible material, it must be located within the shaded area defined in Figure 2. Short stub walls are acceptable if they are contained within the shaded area.

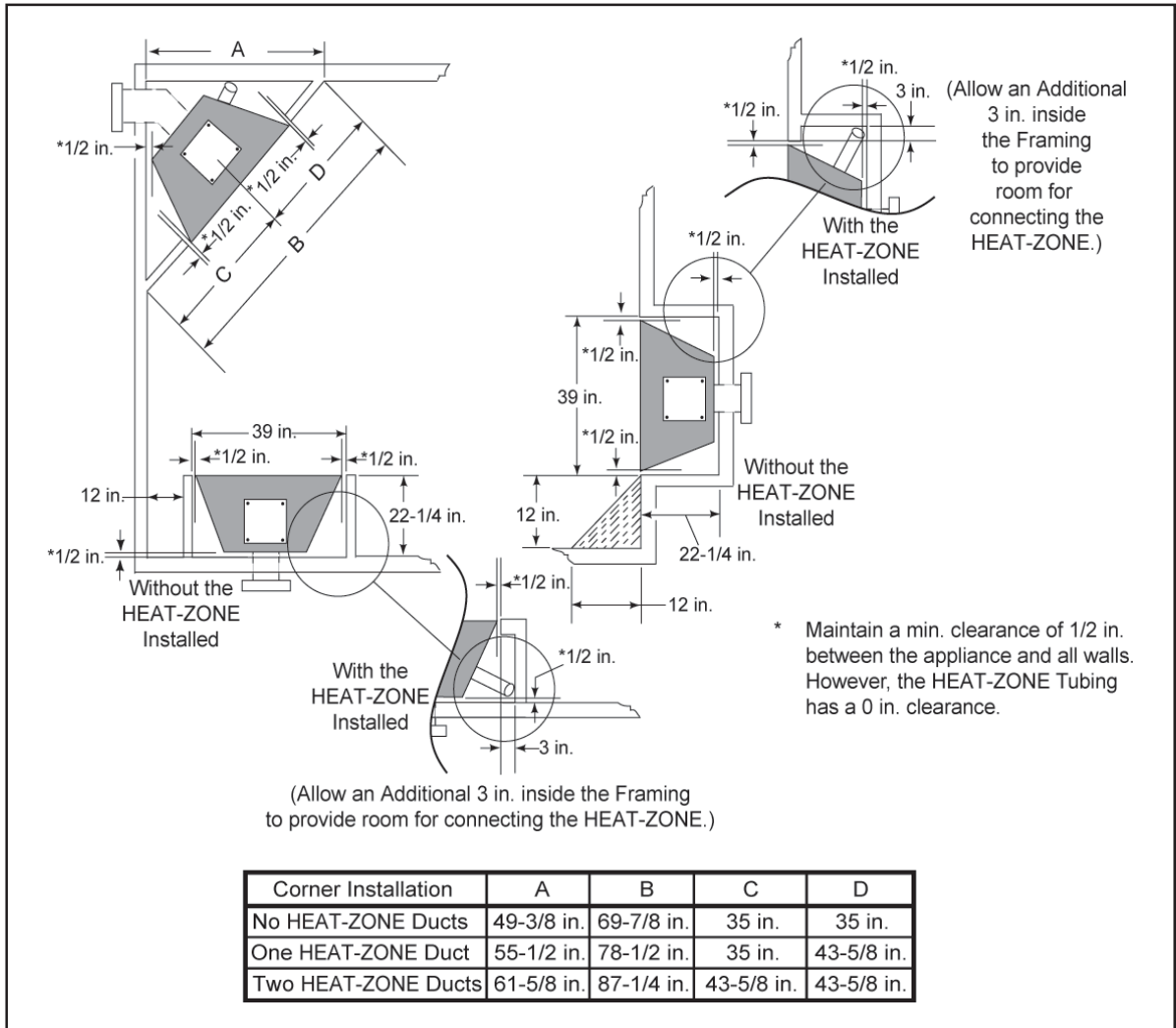


Figure 2 - Appliance Locations

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D. FRAMING/SETTING THE APPLIANCE

1. Frame the Appliance

Figure 3 shows typical framing and mantel heights of this appliance using combustible materials. All required clearances to combustibles must be adhered to.

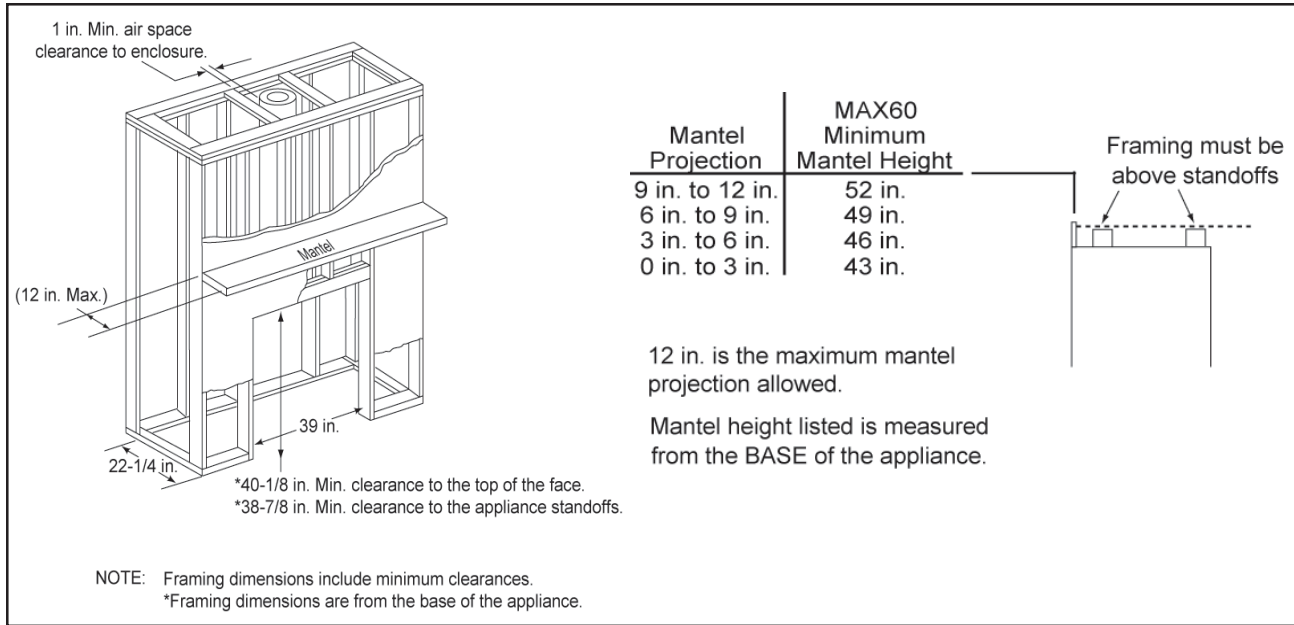


Figure 3 - Framing

CAUTION:
Wear gloves and safety glasses for protection.

CAUTION:
Provide adequate clearances around the air openings into the appliance and adequate accessibility clearances for servicing and proper operation.

2. Setting the Appliance

a. Positioning the Appliance

This appliance may be placed on a smooth combustible or noncombustible continuous, flat surface. When the appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance. Slide the appliance into position and level the appliance from side-to-side and front-to-back. Shim with noncombustible material as necessary.

b. Secure the Appliance

Bend out the nailing flanges on each side of the appliance and nail to framing. The nailing flanges have been positioned 5/8 in. back from the front of the appliance to allow the addition of drywall.

WARNING!
This appliance may only use the approved venting systems shown in these installation instructions. It must not be connected to a chimney flue servicing a separate solid fuel or gas fuel burning appliance.

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

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E. VENTING

1. Remove the Vent Covers and Place the Collars

This appliance may be vented off the rear or off the top. Depending on your specific installation, a vent cover will need to be removed from either the top or rear of the appliance and inner and outer collars attached.

Looking at the rear or top of your appliance (depending on which venting style you are going to use), there is a square plate, and other parts (see Figure 4) held to the firebox with four screws. Remove this plate (insulation is attached to the top one). Below this piece is another plate attached to the inner shell of the firebox. Remove this plate as well. A third plate and gasket are attached to the firebox beneath the previous plate with four screws. Remove this last plate.

2. The Following Venting Components are Shipped Attached to the Top of the Appliance

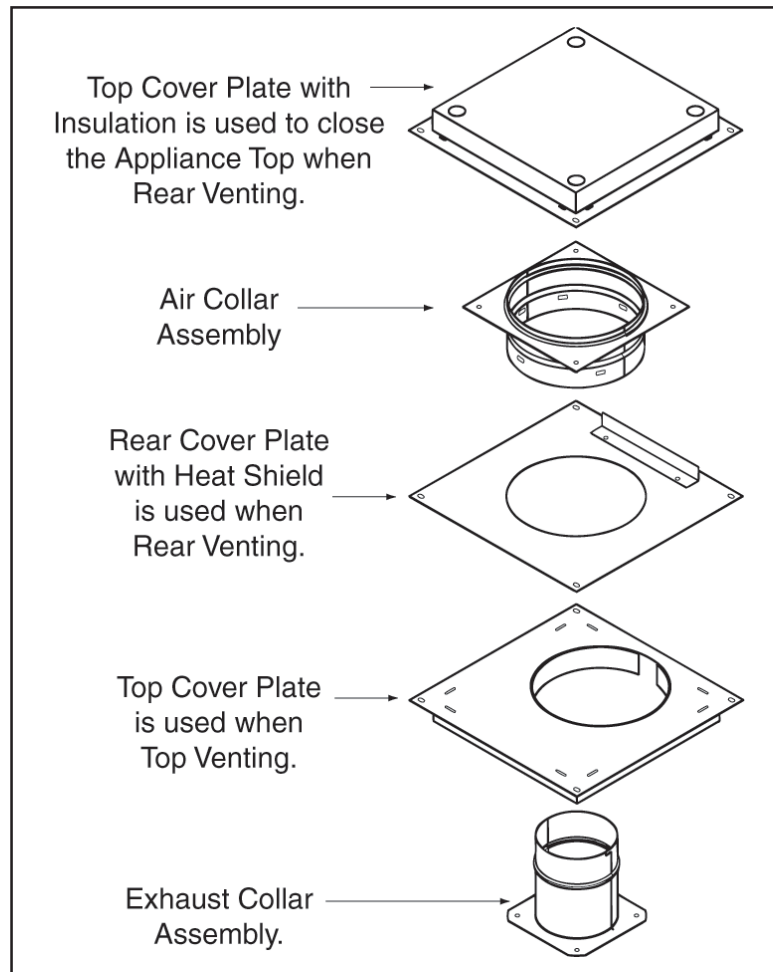


Figure 4
Venting Components
(in order of disassembly)

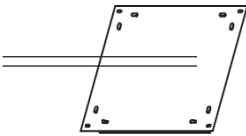
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3. Rear Venting

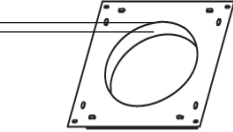
- a. Attach the collars supplied. See Figure 5.
- b. When attaching the 14 in. square plate with an 8 in. hole, there is a heat shield attached. This must be up and face out (away from the appliance).

WARNING!

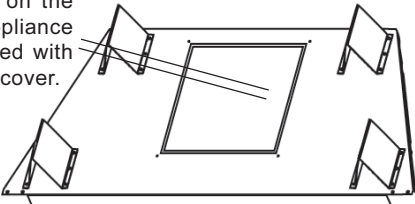
When rear venting, seal the unused top opening with the solid cover with the insulation (install with the insulation down).



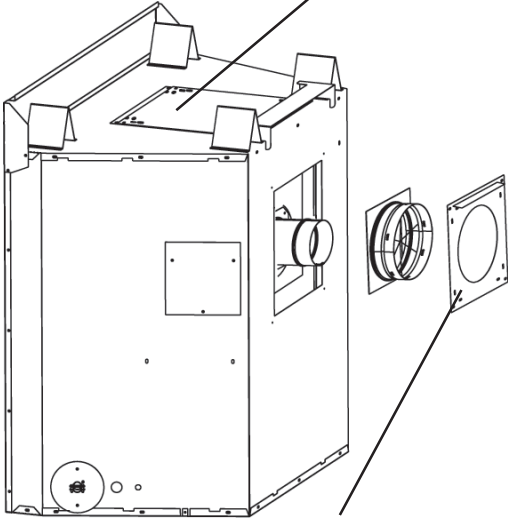
When top venting, use the plate with an 8 in. opening and insulation (install with the insulation down).



The opening on the top of the appliance must be sealed cover with an insulated cover.



The top opening must be enclosed with the insulated cover.



When installing this plate, the heat shield must face upwards and out (away from the appliance).

Figure 5

WARNING!

If not sealed, a fire hazard will be created and the appliance will not operate properly.

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4. Top Venting

Use the 5 in. diameter collar assembly (with the attached gasket) and the four screws removed earlier to attach the collar assembly where the last plate was removed. Take care not to strip the screws. Attach the 8 in. diameter collar assembly with four screws, to where the second plate was removed on the inner shell. Make sure the gasketing on the plate seals the firebox inner shell. The third and final piece to install has insulation attached to it and an 8 in. diameter hole. This piece should fit around the 8 in. collar assembly with the insulation going inside the outer shell of the firebox. Attach with screws. See Figure 6.

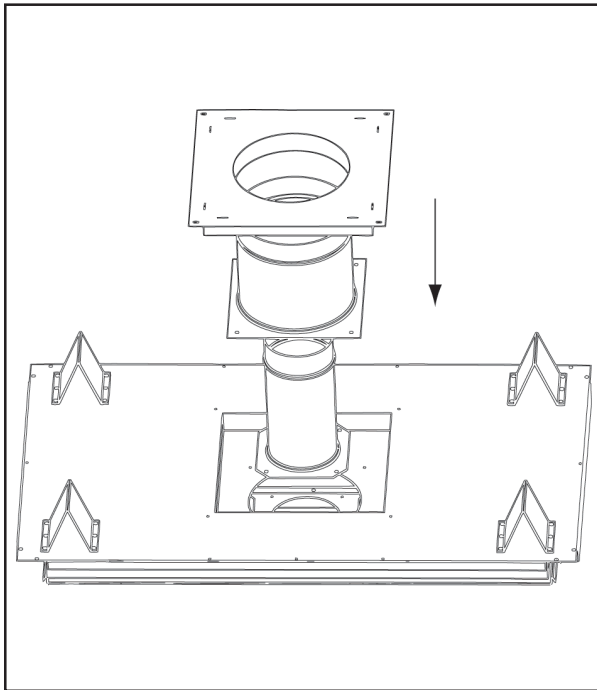


Figure 6
Placement of Inner and Outer collars

5. Horizontal Termination

a. Clearances

See Figures 7 and 8 for clearance information.

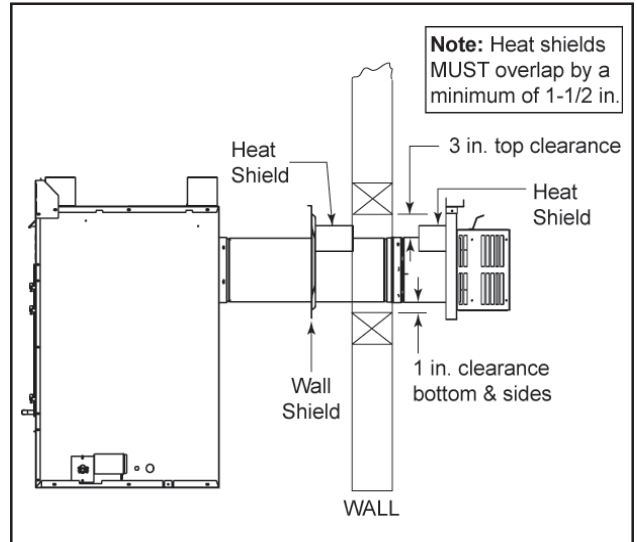


Figure 7
Venting Clearances to
Combustible Materials - Rear Venting

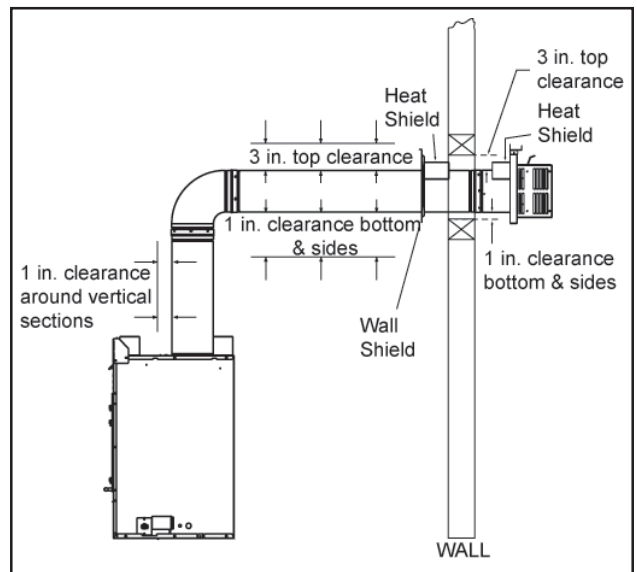


Figure 8
Venting Clearances to
Combustible Materials - Top Venting

WARNING!
Always maintain minimum air space clearances or greater around the vent system. See Figures 7 and 8. Do not pack air spaces with insulation or other material.

b. Vent Lengths for Top Venting (for rear venting, see page 14)

Various venting configurations are shown in Figures 9-12 from which maximum vent lengths can be determined.

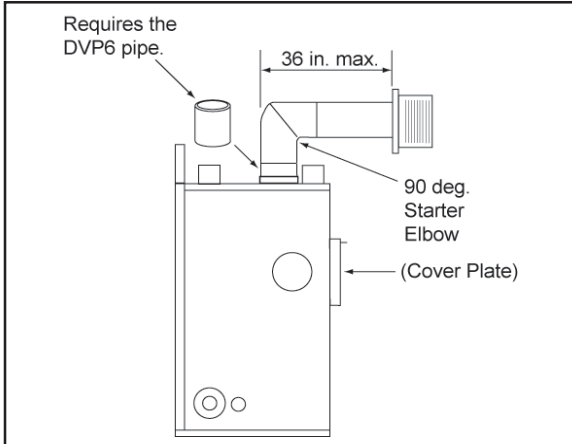


Figure 9
Vent Lengths with One Elbow
(Minimum Vertical)

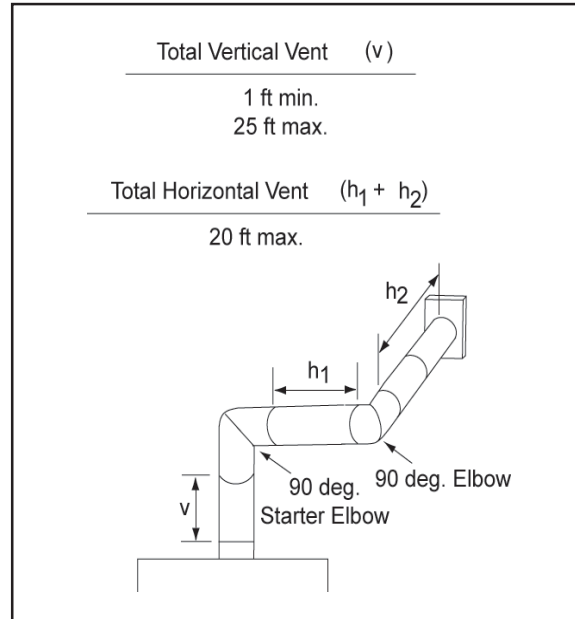


Figure 11
Vent Lengths with Two Elbows

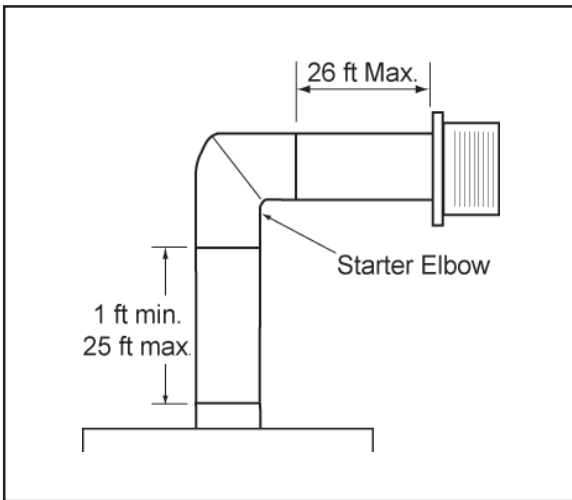


Figure 10
Vent Lengths with One Elbow
(1 ft vertical or more, 25 ft maximum)

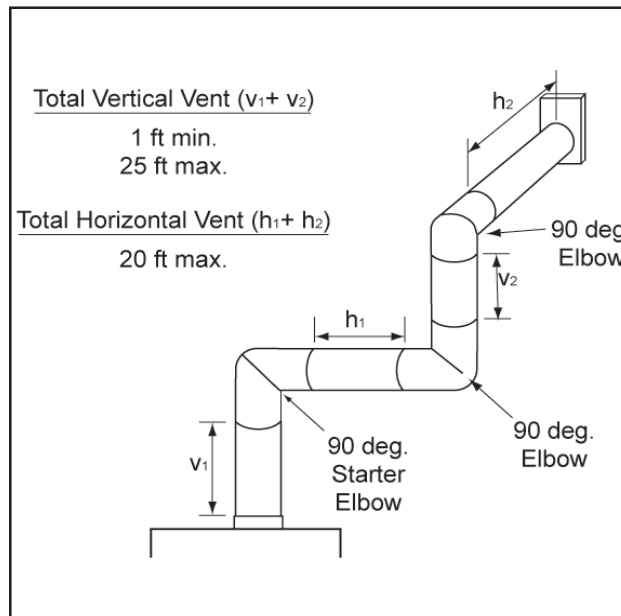


Figure 12
Vent Lengths with Three Elbows

CAUTION:
Provisions shall be made to provide adequate combustion and ventilation air.

WARNING - RISK OF FIRE!
The horizontal run of vent must have a 1/4 in. rise for every 1 ft of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may create a fire hazard.

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c. Vent Lengths for Rear Vent

1) No Elbows

The maximum horizontal run, with no vertical sections of vent, is 24 in. from the back of the appliance to the base of the cap. See Figure 13.

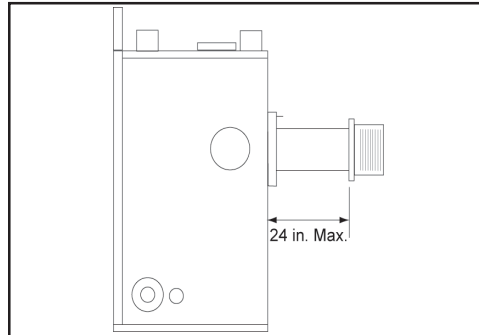


Figure 13
No Elbows

2) A 45 degree Elbow

For corner installations with horizontal venting, a maximum of one 45 degree elbow may be used. The maximum horizontal run following the elbow is 24 in. to the base of the cap and will include a 45 degree elbow and a termination cap. See Figure 14.

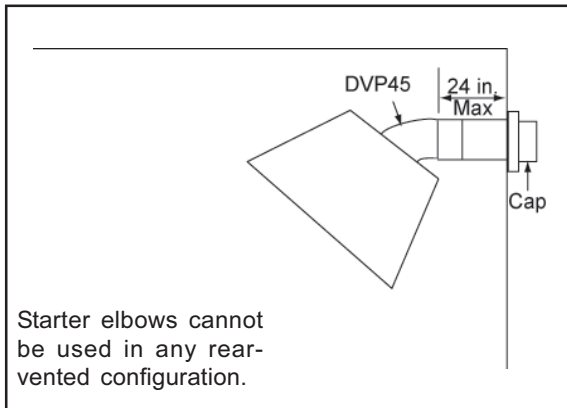


Figure 14
One 45 degree Elbow

3) Two Elbows

Elbows used on rear vented venting configurations should be either a 90 degree elbow or a 45 degree elbow. **A starter elbow cannot be used in any rear-vented configuration.** Figure 15 shows various venting configurations using two elbows to terminate horizontally.

$h_1 = 1$ ft		$h_1 = 2$ ft		$h_1 = 3$ ft	
h_2	v	h_2	v	h_2	v
1 ft	4 ft	1 ft	2 ft	1 ft	4 ft
2 ft	6 ft	2 ft	4 ft	2 ft	5 ft
3 ft	9 ft	3 ft	6 ft	3 ft	6 ft
4 ft	11 ft	4 ft	8 ft	4 ft	8 ft
20 ft max.	11 ft max.	20 ft max.	8 ft max.	20 ft	8 ft

Figure 15 - Two Elbows

4) Three Elbows

Elbows used on rear vented configurations should be either a 90 degree elbow or a 45-degree elbow. **A starter elbow cannot be used in any rear-vented configuration.**

Figure 16 shows various venting configurations using three elbows to terminate horizontally.

h	v (min)	h_1+h_2
0 ft	1 ft	5 ft
0 ft	2 ft	7 ft
0 ft	3 ft	7 ft
0 ft	4 ft	8 ft max.
1 ft	1 ft	3 ft
1 ft	2 ft	4 ft
1 ft	3 ft	4 ft
1 ft	4 ft	6 ft
2 ft	1 ft	2 ft
2 ft	2 ft	3 ft
2 ft	3 ft	3 ft
2 ft	4 ft	4 ft

Figure 16 - Three Elbows

d. Assembling Vent Sections

Attach a straight section, a 45 degree elbow or a 90 degree elbow, depending on your specific installation.

WARNING - RISK OF FIRE!
Always maintain minimum clearances or greater around the vent system. Do not pack air spaces with insulation or other material.

Note: Horizontal runs will require the use of one vent support (or metal plumber's strap) for every 5 ft of vent.

Figures 17-18 show how to install a typical vent system. Use only pipe listed for use with this appliance. See page 5 for a description of listed components.

If the wall being penetrated is of noncombustible materials, a 9 in. diameter hole is acceptable.

e. Installing the Interior Wall Shield

Whenever a combustible wall is penetrated, the hole must be framed with an interior wall shield as shown in Figures 19-21. This shield maintains minimum clearances and restricts cold air infiltration.

The termination cap height must meet all local and national codes and not be easily blocked or obstructed.

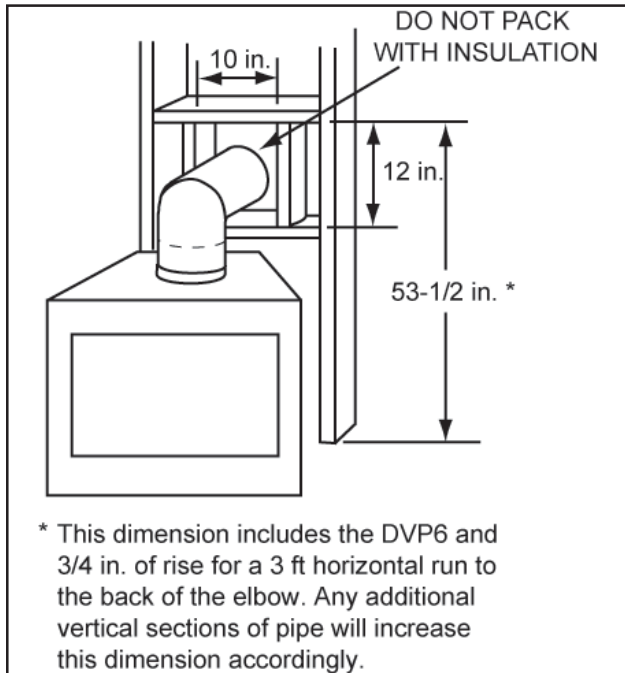


Figure 17
Exterior Wall Hole
(Top Venting)

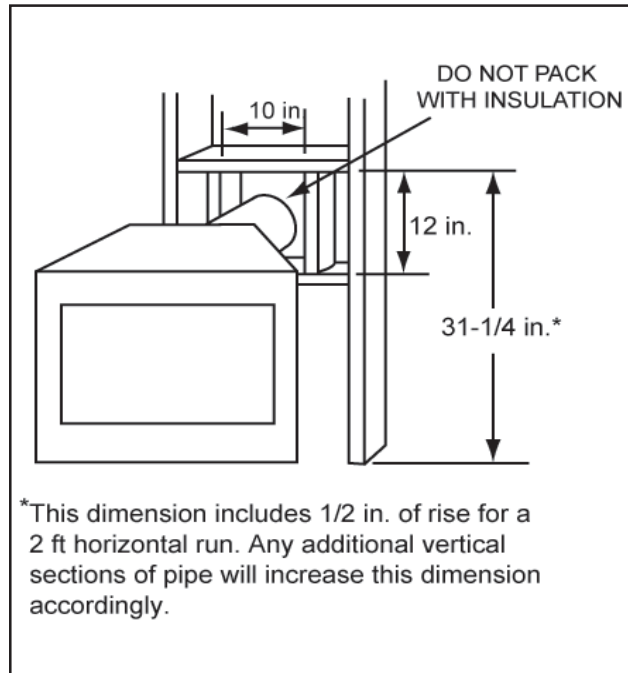


Figure 18
Exterior Wall Hole
(Rear Venting)

Note: Exterior wall thickness must be a minimum of 4 in. to a maximum of 23-1/2 in.

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Secure the shield to the framing as shown in Figure 19.

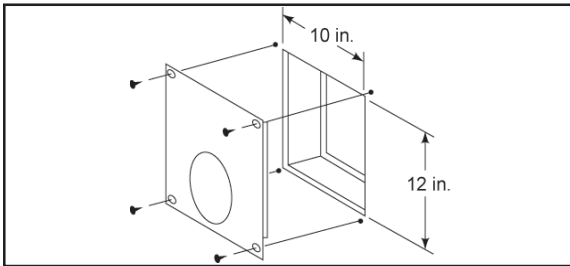


Figure 19
Interior Wall Shield

The termination cap should overlap the vent sections by at least 1-1/2 in. See Figure 20.

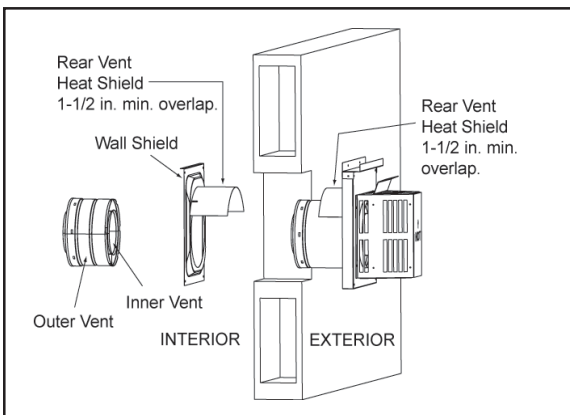


Figure 20 - Venting Through the Wall

WARNING - RISK OF FIRE!
Always maintain minimum air space clearances or greater around the appliance and vent system.

f. Installing the Rear-Vent Heat Shield

For rear vented appliances, a heat shield **MUST** be placed 1 in. above the top of the vent between the wall shield and the termination cap. There are two sections of the heat shield. One section attaches to the wall shield with two screws. The remaining section is attached to the cap in the same manner. The sections of the heat shield will overlap to match the wall thickness (depth). If the wall thickness does not allow the required 1-1/2 in. heat shield overlap (for rear vented appliances), a DVP-HSM Extended Heat Shield must be used. The extended heat shield will need to be cut to the thickness of the wall and attached to the wall shield. See Figure 21.

The small leg on the shield should rest on the top of the vent to properly space it from the pipe section (this heat shield is not necessary on top vented appliances). See Figure 20.

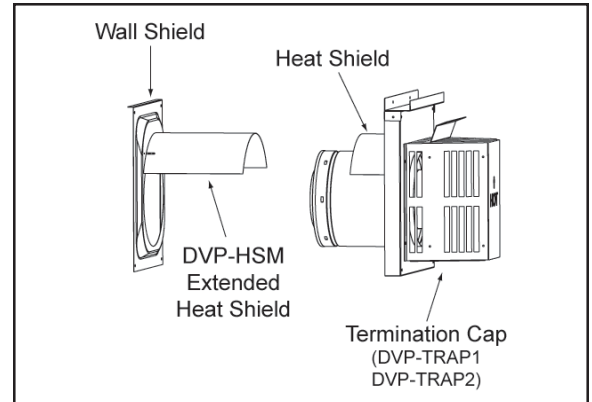


Figure 21
Vent Wall Shield and Termination Cap

g. Termination

Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base.

Install the cap as shown in Figures 20 and 21. Cap pipe sections should overlap the vent pipe by 1-1/2 in. Caulk outside edges of cap.

Local codes may require the installation of a cap shield (DRC-RADIUS or COOL-ADD) which prevents anything or anyone from touching the hot cap.

Figures 22-25 illustrate cap locations and clearances as prescribed by current **ANSI Z223.1** and **CAN/CGA-B149 Installation Codes**.

WARNING - RISK OF FIRE!
Be sure there are no present (nor future) obstructions to the termination cap such as trees, bushes, snow drifts, etc.

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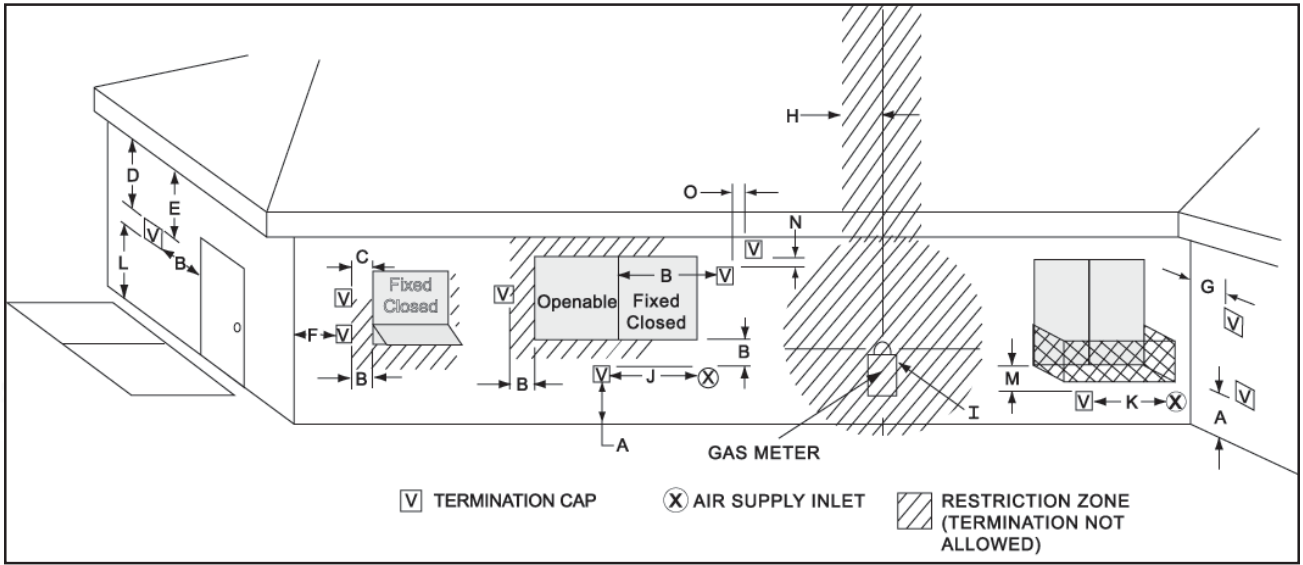


Figure 22
Termination Cap Locations

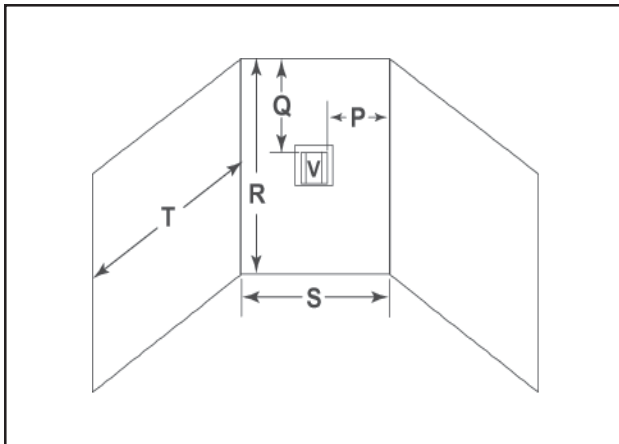


Figure 23 - Alcove Clearances

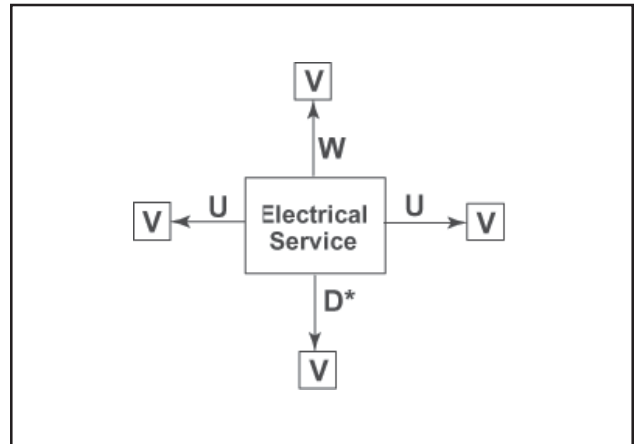


Figure 24 - Electrical Service Clearances

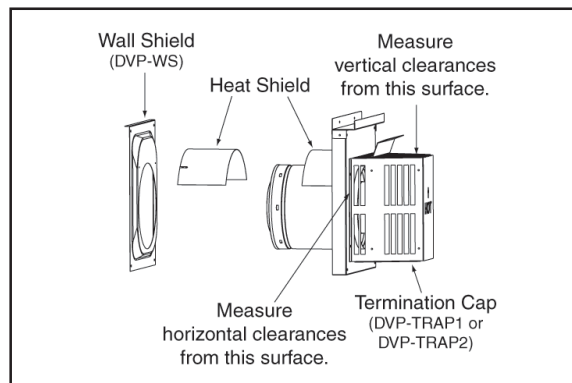


Figure 25 - Cap Clearances

MAXUS DIRECT VENT HEATER

Dimension Descriptions

- A** Clearance above the ground, a veranda, porch, deck or balcony - 12 in. (30 cm) minimum. *
- B** Clearance to window or door that may be opened – 10,000 BTUs or less, 6 in. (15 cm) minimum; 10,000-50,000 BTUs, 9 in. (23 cm) minimum; over 50,000 BTUs, 12 in. (30 cm) minimum. *
- C** Clearance to permanently closed window – 12 in. (30 cm) minimum - recommended to prevent condensation on window.
- D** Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 2 ft (60 cm) from the centerline of the termination – 18 in. (46 cm) minimum. **
- E** Vertical clearance to unventilated soffit - 12 in. (30 cm) minimum. **
- F** Clearance to outside corner - 6 in. (15 cm) minimum.
- G** Clearance to inside corner - 6 in. (15 cm) minimum.
- H** Not to be installed above a meter/regulator assembly within 3 ft (90 cm) horizontally* from the center line of the regulator (Canada only)
- I** Clearance to service regulator vent outlet – 3 ft (.91 m) U.S. minimum and 6 ft (1.8 m) Canada minimum. *
- J** Clearance to non-mechanical air supply inlet into building or the combustion air inlet to any other appliance – 9 in. (23 cm) U.S. minimum and 12 in. (30 cm) Canada minimum. *
- K** Clearance to mechanical air supply inlet - 3 ft (.91 m) U.S. minimum and 6 ft (1.8 m) Canada minimum. *
- L** Clearance above a paved sidewalk or paved driveway located on public property - 7 ft (2.1 m) minimum.
A vent may not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.
- M** Clearance under veranda, porch, deck or balcony - 12 in. (30 cm) minimum. * Recommended 30 in. (76 cm) for vinyl or plastic. Only permitted if veranda, porch, deck or balcony is fully open on a minimum of 2 sides beneath the floor. *
- N** Vertical clearance between two horizontal termination caps – 12 in. (30 cm) minimum.
- O** Horizontal clearance between two horizontal termination caps – 12 in. (30 cm) minimum.
- P** 6 in. - Non-vinyl sidewalls
12 in. – Vinyl sidewalls
- Q** 18 in. – Non-vinyl soffit and overhang
42 in. – Vinyl soffit and overhang
- R** 8 ft.

	S_{MIN}	T_{MAX}
1 cap	3 ft	2 x S actual
2 caps	6 ft	1 x S actual
3 caps	9 ft	2/3 x S actual
4 caps	12 ft	1/2 x S actual
$S_{MIN} = \# \text{ termination caps} \times 3$		$T_{MAX} = (2/\# \text{ termination caps}) \times S \text{ (actual)}$

U 6 in. min. – Clearance from sides of electrical service.

W 12 in. min. – Clearance above electrical service.

* As specified in **CGA B149 Installation Codes**

Note: Local codes or regulations may require different clearances.

** Clearance required to vinyl soffit material – 30 in. (76 cm) minimum.

Note: Location of the vent termination must not interfere with access to the electrical service.

WARNING!

In the U.S.: Vent system termination is NOT permitted in screened porches. You must follow side wall, overhang and ground clearances as stated in the instructions.

In Canada: Vent system termination is NOT permitted in screened porches. Vent system termination is permitted in porch areas with two or more sides open. You must follow all side wall, overhang and ground clearances as stated in the instructions.

Hearth & Home Technologies assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.

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6. Vertical Termination

a. Top and Rear Vent Clearances

See Figure 26 for clearance information.

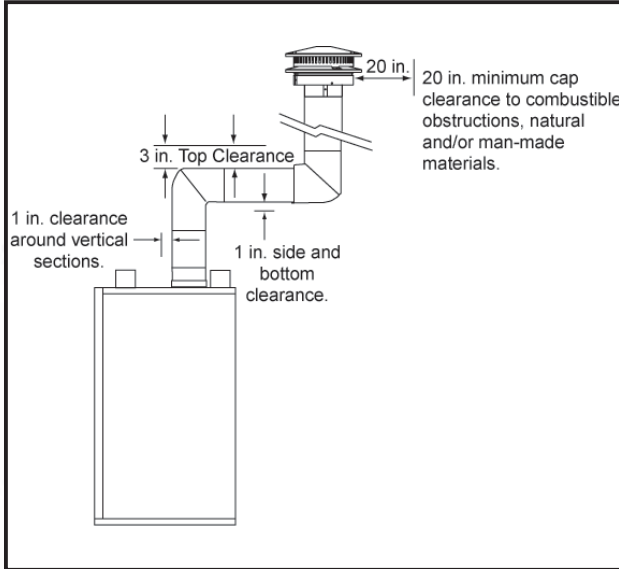


Figure 26
Vertical Termination Clearances
(Top Vent Shown)

b. Top Vent Lengths

Various venting configurations are shown in Figures 27-28 from which maximum vent runs can be determined.

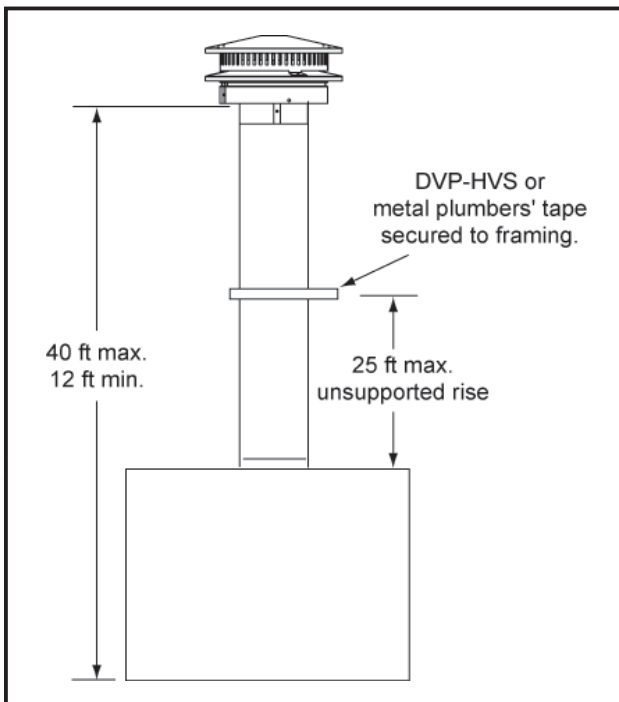


Figure 27 - Vertical Termination Vent Lengths

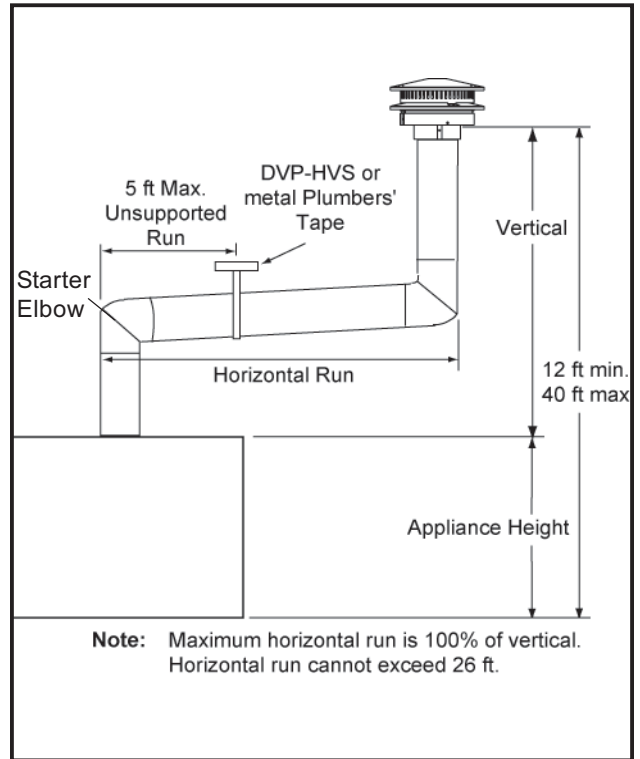


Figure 28
Vertical Termination Vent Lengths

CAUTION:

Provisions shall be made to provide adequate combustion and ventilation air.

WARNING - RISK OF FIRE!

Always maintain minimum clearances or greater around the vent system. Do not pack air spaces with insulation or other material.

WARNING!

The horizontal run of vent must have a 1/4 in. rise for every 1 ft of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may create a fire hazard.

c. Rear Vent Lengths

Attach either a straight section, a 90 degree elbow, or a 45 degree elbow (depending upon your specific installation) to the appliance. See Figure 29. **DO NOT USE** a starter elbow when venting out the rear of the appliance. A maximum of three elbows is allowed in the vent system. Use only pipe listed with this appliance.

See the Cinch Pipe assembly instructions for specific instructions on each type of venting.

d. Firestop Spacer/Vent Installation

Frame an opening and install a firestop spacer whenever the vent penetrates a ceiling/floor area, as shown in Figure 30. Frame the opening with the same sized lumber as used in the ceiling/floor joists. Unless the flue is offset, the hole should be directly above the appliance. **DO NOT** pack insulation around the vent.

WARNING - RISK OF FIRE!
Always maintain minimum clearances or greater around the vent system. Do not pack air spaces with insulation or other material.

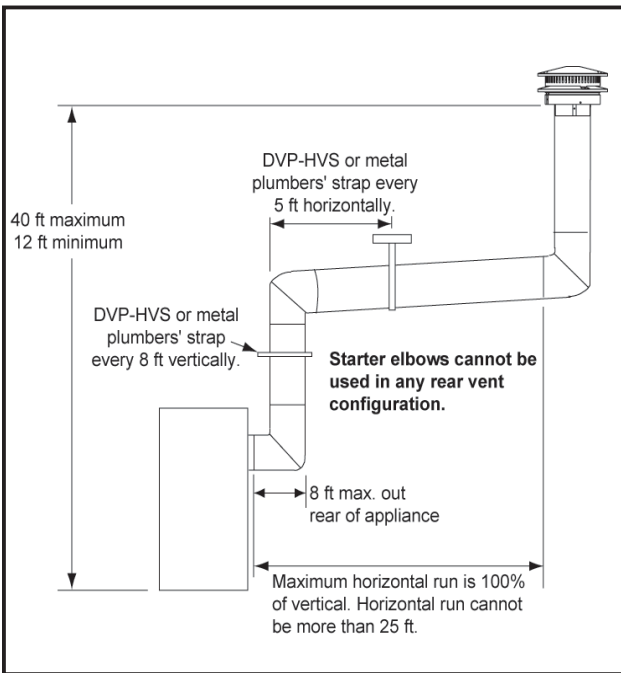


Figure 29
Length Allowances for Vertical Termination Only

Note: Horizontal runs will require the use of one vent support (or metal plumber's strap) for every 5 ft of vent.

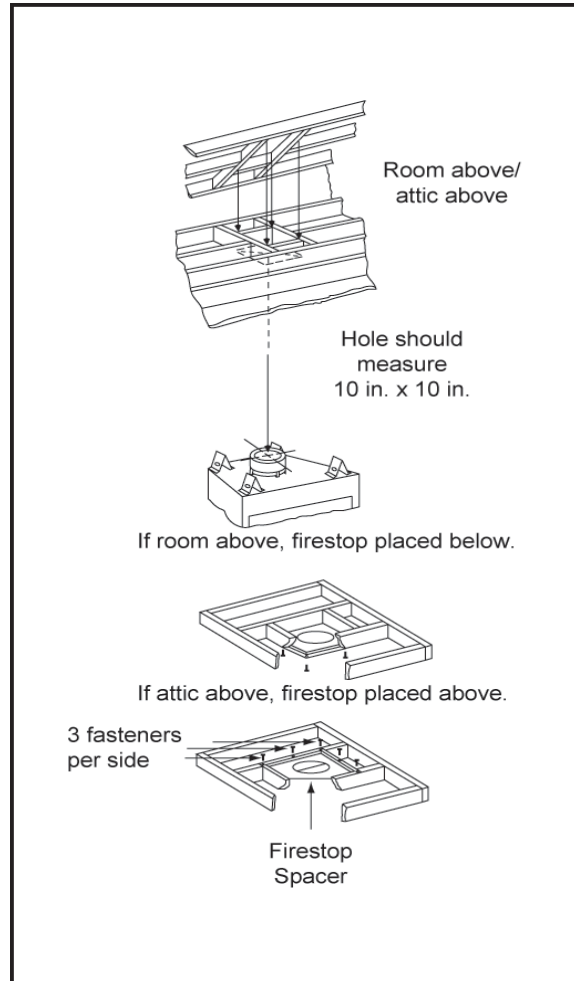


Figure 30
Installing the Firestop Spacer

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e. Chase/Termination Installation

Figure 31 and Table 1 specify minimum vent heights for various pitched roofs.

These vent heights are necessary for safety and do not ensure draft-free operation. Trees, buildings, adjoining roof lines, adverse conditions, etc. may create a need for a taller vent should down drafting occur.

Figure 32 shows minimum clearances to termination caps in a chase.

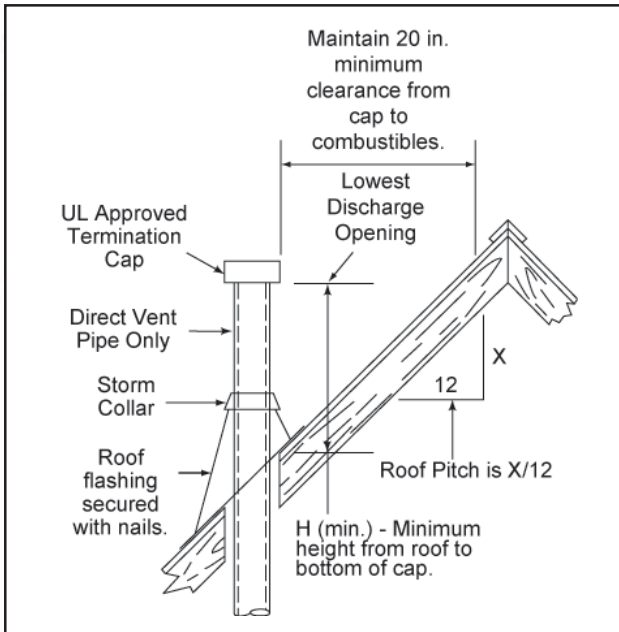


Figure 31
Vent Height for Vertical Termination

Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0
6/12 to 7/12	1.25
Over 7/12 to 8/12	1.5
Over 8/12 to 9/12	2.0
Over 9/12 to 10/12	2.5
Over 10/12 to 11/12	3.25
Over 11/12 to 12/12	4.0
Over 12/12 to 14/12	5.0
Over 14/12 to 16/12	6.0
Over 16/12 to 18/12	7.0
Over 18/12 to 20/12	7.5
Over 20/12 to 21/12	8.0

Table 1
Vent Height

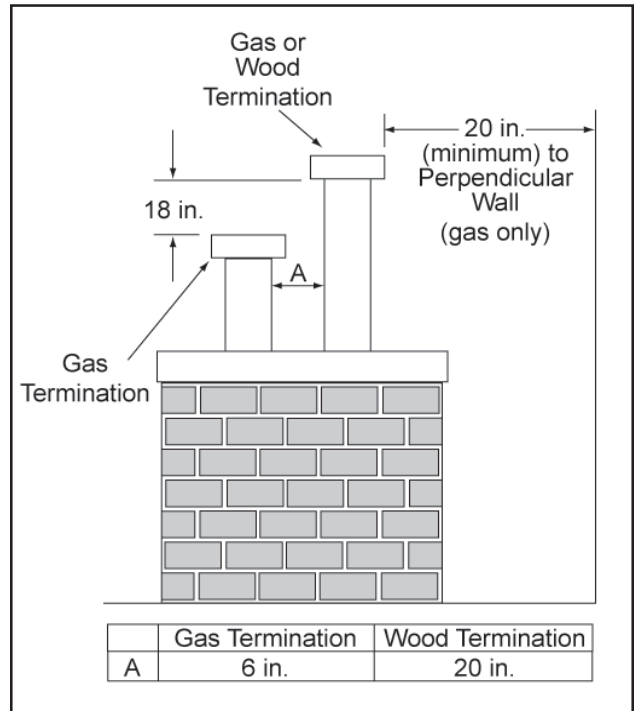


Figure 32 - Multiple Vertical Termination

Note: To ensure proper operation, verify all venting and the termination are unobstructed.

F. UTILITIES

1. High Altitude Installation

For U.S. installation, appliances are tested and approved for elevations from 0-2000 ft. When installing this appliance at an elevation above 2000 ft, 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 ft 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, appliances are certified for elevations from 0-4500 ft. When installing this appliance at an elevation between 0-4500 ft in Canada, the input rating does not need to be reduced. When installing this appliance at an elevation above 4500 ft in Canada, check with local authorities.

2. Connect the Gas Line

Open the control access panel as shown in Figure 33. 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 in. FIP connection provided on the manual shutoff valve. See Figure 34 to connect the gas line. **Optional:** Seal around the gas line to prevent cold air leakage.

All connections must be tightened and checked for leaks with a commercially available, non-corrosive leak check solution. Be sure to rinse off the solution when done leak testing.

Bleed the gas line to extract any air that may have been trapped inside the pipe.

Upon completing the gas line connection, a small amount of air will be in the lines. When first lighting the pilot light, it will take a few minutes for the lines to purge themselves of this air. Once the purging is complete, the pilot and burner will light and operate.

Subsequent lighting of the appliance will not require such purging.

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.

CAUTION:
(Standing Pilot Ignition) During the initial purging and subsequent lighting, NEVER allow the gas valve control knob to remain depressed in the "pilot" position without pushing the red ignitor button at least once every second.

Note: This appliance and its 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 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).

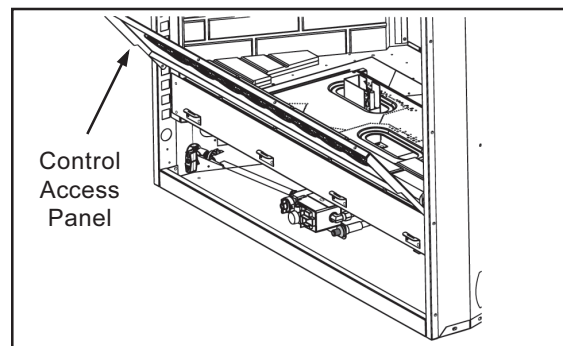


Figure 33
Control Access Panel

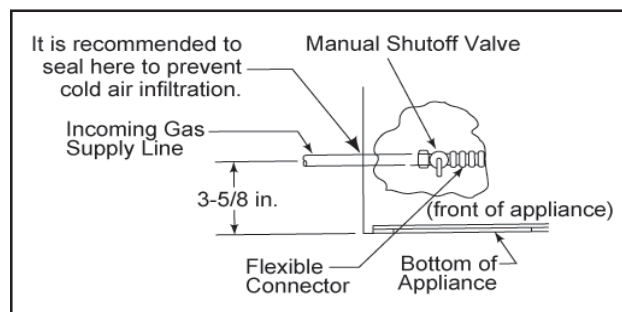


Figure 34
Gas Line

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

3. Gas Pressure

An inlet pressure tap and an outlet pressure tap are available on the faces of the standing pilot and the electronic ignition gas valves. Table 2 shows 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. Fuel Conversions

Natural or propane gas conversions necessary to meet the application need to be made by a qualified technician using Hearth & Home Technologies specified and approved parts.

In the event your appliance must be converted to use propane, you must use a CKMAX6P Conversion Kit. To be converted to use natural gas, you must use a CKMAX6N Conversion Kit.

MAXUS 60	
Inlet Gas Supply Pressure (NG)	4.5 (min.) - 7.0 (max.) in. w.c.
Optimal Manifold Pressure (NG)	3.5 in. w.c.
Inlet Gas Supply Pressure (LP)	11.0 (min.) - 14.0 (max.) in. w.c.
Optimal Manifold Pressure (LP)	10 in. w.c.

Table 2
Gas Information for Electronic and Standing Pilot Appliances

MAXUS 60	
Input Rate (NG)	40,000 BTU/hr.
Input Rate (LP)	37,000 BTU/hr.
Orifice Size (NG)	.125 in.
Orifice Size (LP)	.073 in.

Table 3
Gas Information for Standing Pilot

5. Wiring

a. Electronic Ignition

- 1) This electronic ignition appliance requires a 110VAC supply to operate. It is suggested that a switched 110V junction box with two switched outlets be installed to power the optional remote control and/or fan.
- 2) This heater listed appliance may be connected to a thermostat. If connecting a 24V thermostat (not supplied), disconnect the black wire from the transformer at the ignition control. Connect the thermostat wires between the ignition control and the black wire (from transformer). See Figures 35 and 36.

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**.

CAUTION:
Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify Proper operation after servicing.

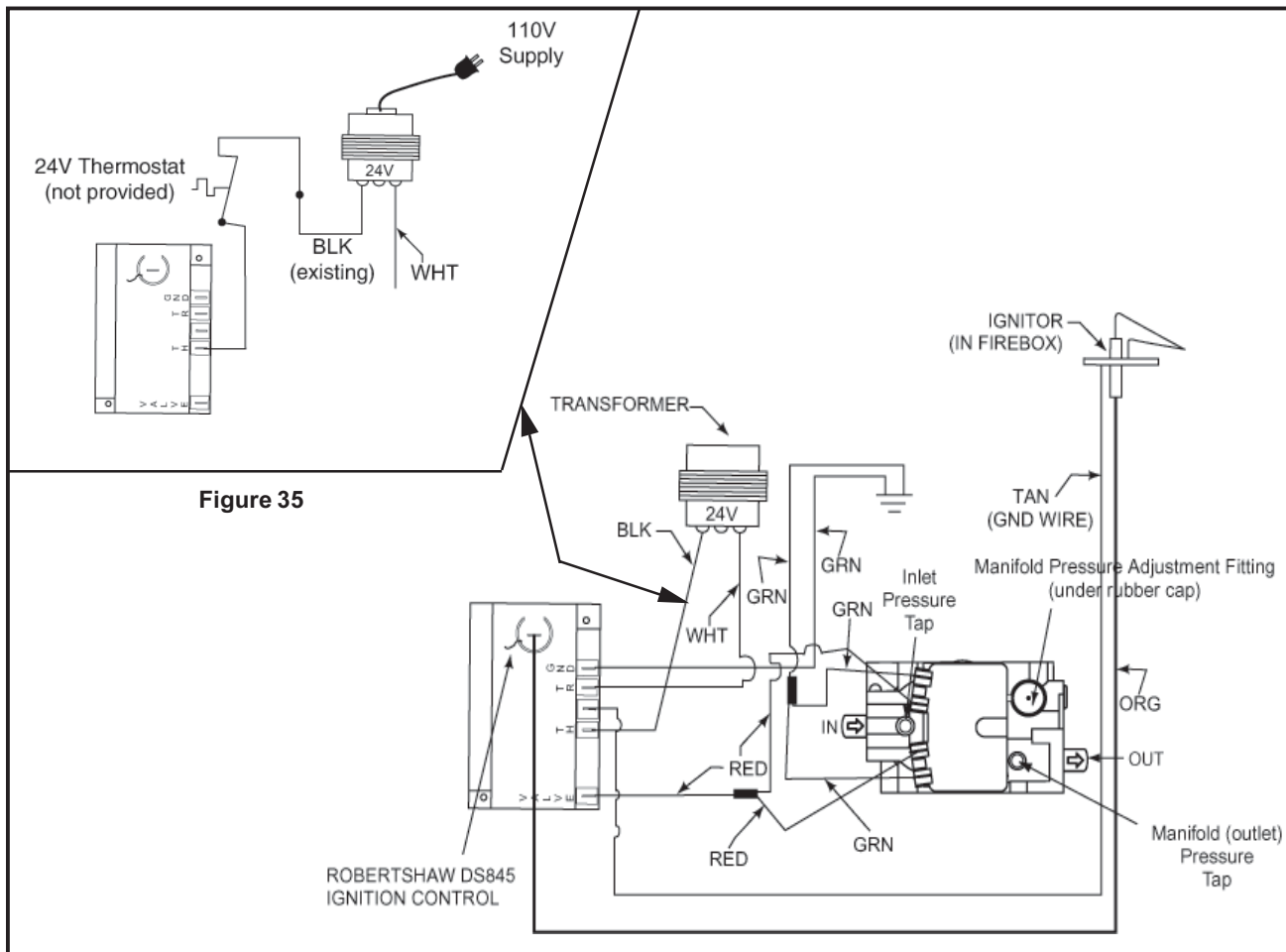


Figure 36
Electronic Ignition Wiring Diagram

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The first name in fireplaces

b. Standing Pilot Ignition

- 1) This standing pilot appliance does **not** require a 110VAC supply to operate. It is suggested that a 110V junction box be installed with a switched outlet for the optional fan and an always-powered outlet for the optional remote control.
- 2) Only heater listed appliances may be connected to a thermostat (not supplied). Use a thermostat that is compatible with a millivolt gas valve. See Figure 37.

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**.

WARNING!

This standing pilot appliance **DOES NOT** require a 110VAC supply for operation. Connecting the appliance/wall switch to 110VAC supply will cause the appliance to malfunction and destroy the valve and thermopile.

CAUTION:

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

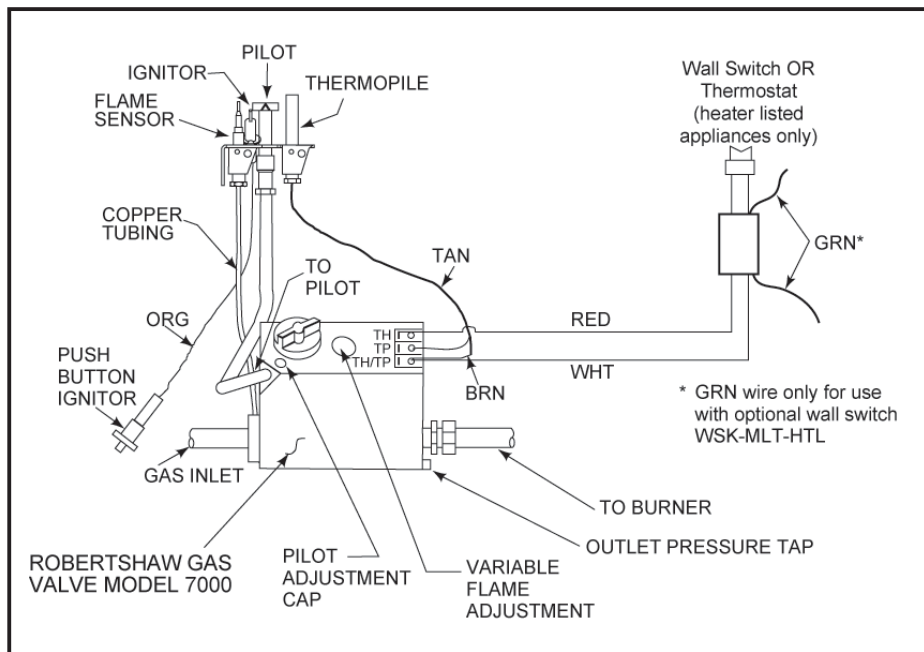


Figure 37 - Standing Pilot Ignition Wiring Diagram

c. Junction Box Wiring

We recommend you operate the two outlets on separate circuits. This allows independent operation of the appliance and fan. Independent operation is obtained by using minimum 14-3 with ground romex and separating the two outlets by breaking out the tab as shown. See Figure 38.

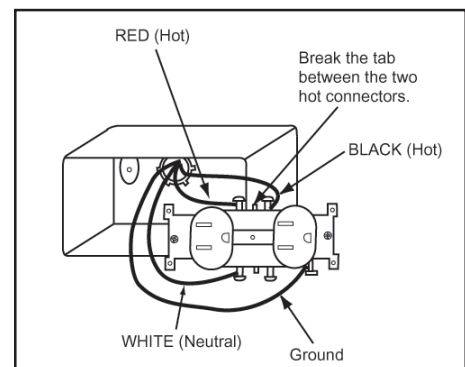


Figure 38

6. Install the Junction Box

- 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.

G. FINISHING

1. Combustible Finishing Material

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 (this includes drywall).

2. Noncombustible Finishing Material

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, or have a UL Fire rating of Zero (0).

3. High Temperature Sealant Material

Sealants that will withstand high temperatures: General Electric RTV103 (Black) or equivalent; Rutland, Inc. Appliance Mortar #63 or equivalent.

A high temperature sealant, 1/8 in. wide minimum, must be used to close off gaps between the appliance and facing to prevent cold air leaks. See Figure 39.

4. Combustible Mantel

A combustible mantel may be installed. Please refer to Figure 3.

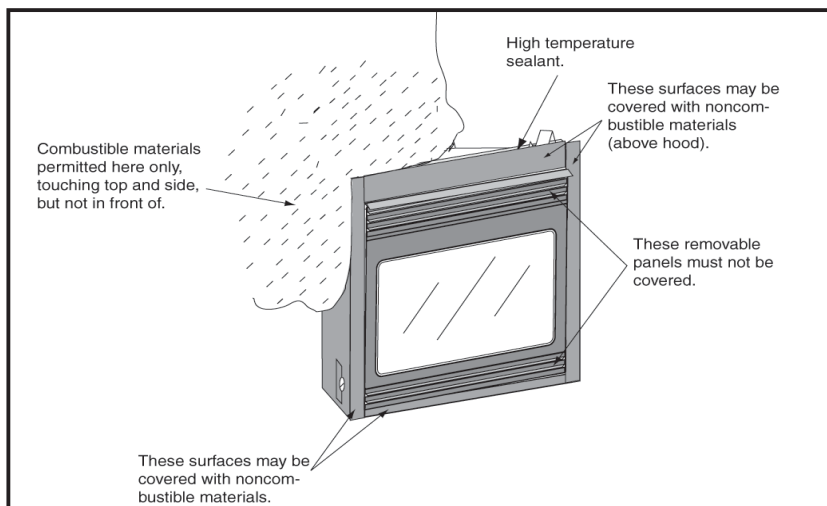


Figure 39 - Finishing Materials

WARNING!
Grilles on this appliance cannot, in any way, be covered as it may create a fire hazard.

The first name in fireplaces

H. APPLIANCE PREPARATION

WARNING - RISK OF CARBON MONOXIDE!
Never operate this appliance with the glass removed or not sealed.

WARNING - RISK OF CARBON MONOXIDE!
Do not hit or strike glass. Do not operate this appliance if the glass is broken or cracked. Replacement of the glass should be done by a licensed or qualified service person.

1. Remove the Face Assembly

Lift the face assembly upward and pull away.

2. Remove the Glass

See Figure 53, page 35.

3. Inspect the Log Set

The log set is shipped in one piece and should look similar to that in Figure 40.

4. Place the Rock Wool

Place a small amount of 1/2 in. diameter pieces (dime-size) of rock wool on the burner pan so that the rock wool touches, but does not cover, the holes in the burner pan. See Figure 41. This will provide the "glowing embers" look. It is not necessary to use the entire bag. Save the remainder for future use.

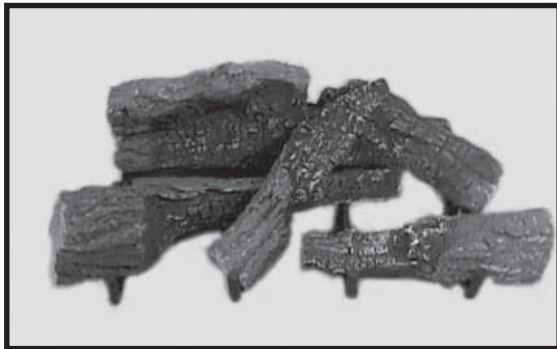


Figure 40 - MAX60 Gas Log Set



Figure 41 - Placing the Rock Wool

5. Place the Lava Rock

This appliance is shipped with a refractory floor. You may remove this floor and replace it with lava rock.

To remove the refractory floor, lift and slide it towards you, bringing it out of the appliance. Install the lava rock rail. There are hooks on the ends of the lava rock rail. These hooks are to be inserted into the slots located in the front of the appliance opening below the front corners of the side refractories. Insert the hooks into the slots. After insertion, slide the rail towards the rear until it goes around the corner. Then the front can be lowered. Please refer to Figures 42 and 43.

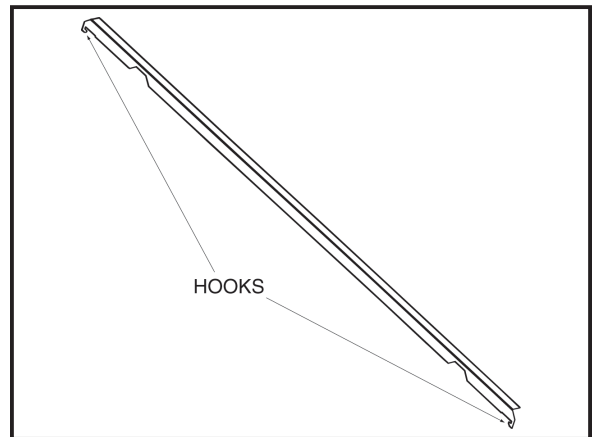


Figure 42 - The Lava Rock Rail
(Shipped with the appliance in the valve compartment.)

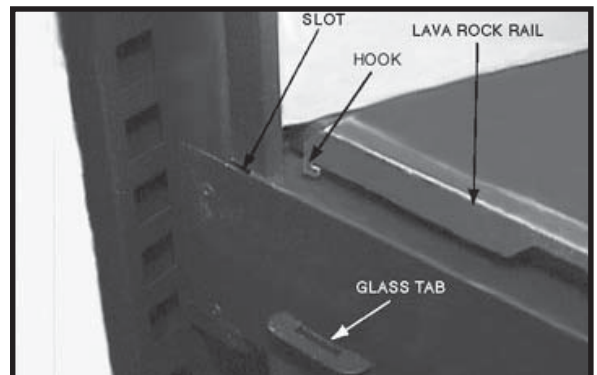


Figure 43 - Installing the Lava Rock Rail

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If using lava rock, this rail must be installed to keep the lava rock from interfering with the glass gasket or retainers. Disperse the lava rock and spread it on the hearth pan being careful not to cover the burner pan. The lava rock will simulate the look of burnt coals. The lava rock does not change the flame and does not have to be used. It is not necessary to use the entire bag. Save the remaining rock for future use. See Figure 44.



Figure 44 - Placing the Lava Rock

6. Place the Vermiculite

Sprinkle the vermiculite over the lava rock to simulate an ash-like appearance to the "coals". As with the lava rock, stay clear of the burner pan and it is not necessary to use the entire bag. Save the remaining vermiculite for future use See Figure 45.



Figure 45 - Placing the Vermiculite

7. Place the Fire Glow

Fire Glow (Fire 98) is a flame colorant material that also adds to the realism of the gas appliance flame. After placing the rock wool in the appliance, sprinkle some of the Fire Glow (Fire 98) on top of the burner. As with the lava rock, vermiculite and rock wool, it is not necessary to use the entire bag. Save the remaining Fire Glow for future use. See Figure 46.

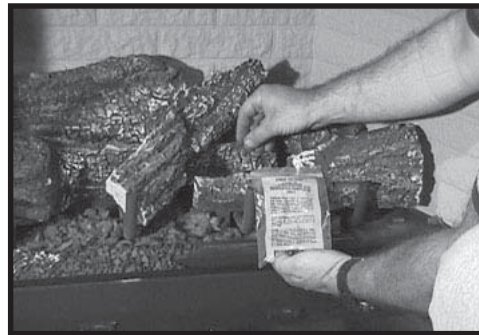


Figure 46
Placing the Fire Glow

8. Replace the Glass

After cleaning the glass, carefully place the glass frame assembly onto the appliance by positioning the tabs at the bottom of the frame into the slots. Pull the latch releases forward and hook over the glass frame. See Figure 53, page 35.

WARNING!
Never operate this appliance with the door and/or glass removed or not sealed.

WARNING!
Do not operate appliance with the glass removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

9. Replace the Front Face

Carefully lift the front face into position and slide down, engaging the side tabs into the slots on the appliance face.

CAUTION:
The logs can get very hot - handle only when they are cool.

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I. DETERMINING THE IGNITION TYPE

To determine whether your appliance is an electronic ignition or a standing pilot ignition, open the control access panel to examine the wiring system. If your system has a red ignitor button (as shown in Figure 47), you own a standing pilot ignition appliance. If no red ignitor button is present, you have an electronic ignition appliance.

You may also check the rating label located on the inside of the control access panel to determine ignition type.

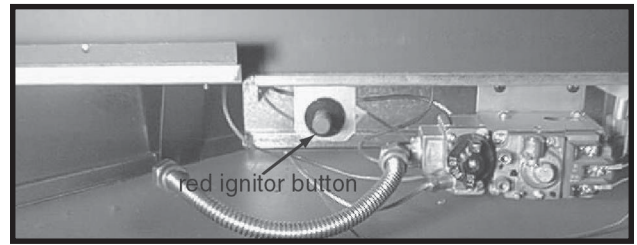


Figure 47
Typical Standing Pilot Ignition

J. LIGHTING INSTRUCTIONS

1. Electronic Ignition

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING!

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

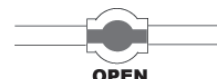
- A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.
- B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and 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 open the shutoff valve. Never use tools. If the shutoff valve will not move by hand, don't try to repair it - call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- D. Do not use the 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

1. STOP! Read the safety information above on this label.
2. Turn wall switch to the "OFF" position.
3. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light burner by hand.
4. Wait five minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go on to the next step.
5. To turn on burner, turn on the wall switch.
6. 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 GAS TO APPLIANCE

1. Turn off the wall switch or set the thermostat to the lowest setting.
2. Turn the manual shutoff valve to the "OFF" position.
3. Close the control access panel.



2. Standing Pilot Ignition

**FOR YOUR SAFETY
READ BEFORE LIGHTING**

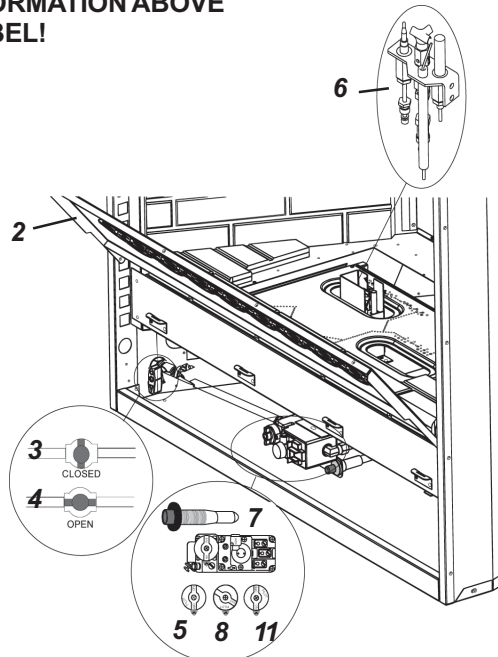
WARNING! If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This gas appliance has a manual ignition device that lights the pilot. 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 the gas control knob to light the pilot. 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. Force or attempted repair may result in a fire or explosion.
- D. Do not use the 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 gas line 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 gas line 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 the appliance.
7. Locate red ignitor button.
8. 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. Release and turn the knob counterclockwise to "ON". To light main burner, turn wall switch 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 GAS TO APPLIANCE

1. Turn off the wall switch or set the thermostat to the lowest setting.
2. Open the control access panel.
3. Turn the gas line to the "CLOSED" position. Do not force.
4. Close the control access panel.

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K. SEASONAL CHECKLIST

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 this appliance must be replaced prior to operating this appliance.
Clothing or other flammable material should not be placed on or near the appliance.

Note: 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.

Before Operating This Appliance Have a Qualified Technician:

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

WARNING!

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

1. Electronic Ignition Operation

- a. **Lighting the Appliance During Regular Use**
Turn the wall switch to “ON”.
- b. **Shutdown During Regular Use**
Turn the wall switch to “OFF”.
- c. **If you decide to shut down the appliance for a long period of time:**
 - 1) Turn all wall switches to “OFF”.
 - 2) Turn the gas line to “CLOSED”.
 - 3) To relight the appliance, see page 30.

3. Fuel Conversion Instructions

- a. Do not burn wood or other material in the appliance.
- b. Natural or propane gas conversions necessary to meet the application need to be made by a qualified technician using Hearth & Home Technologies specified and approved parts.
- c. In the event your appliance must be converted to use propane, you must use a CKMAX6P Conversion Kit. To convert to use natural gas, you must use a CKMAX6N Conversion Kit.

2. Standing Pilot Operation

- a. Hearth & Home Technologies recommends you leave the pilot on year round.
- b. **Lighting the Appliance during Regular Use**
Turn the wall switch to “ON”.
- c. **Shutdown During Regular Use**
Turn the wall switch to “OFF”.
- d. **If you decide to shut down the appliance for a long period of time:**
 - 1) Turn all wall switches to “OFF”.
 - 2) Turn pilot knob on valve to “OFF”.
 - 3) Turn the gas line to “CLOSED”.
 - 4) To relight the pilot and appliance, see page 31.

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

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

The appliance and venting system should be inspected before use and at least annually by a qualified field service person, to ensure that the flow of combustion and ventilation air is not obstructed.

3. Check the Flame Patterns

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 48.

The thermopile and thermocouple (standing pilot) tips should be covered with flame. See Figure 49. If the appliance has an electronic ignition, the ignitor rod should be covered with the burner flame. See Figures 50 and 51.

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 48. If the vent configuration is correct, yet the flames are lifting or ghosting, shut off gas to the appliance and contact the dealer.

To prevent the possibility of soot buildup, we have provided your appliance with an adjustable air shutter.

Your air shutter is provided in the "CLOSED" position for natural gas and in the "OPEN" position for propane. It takes 16 full turns (360 deg) to move the air shutter from fully open to fully closed. In the event soot is accumulating in your appliance, the air shutter should be opened farther. This can be done by opening the control access panel, finding the air shutter handle located on the bottom of the firebox. When the air shutter handle is turned all of the way DOWN (clockwise), the air shutter is fully closed. When the air shutter handle is turned all of the way UP (counterclockwise), the air shutter is fully open. See Figure 52.

Note: If the air shutter is open all the way and the flames remain sooty, shut off gas to the appliance and contact a qualified gas service technician.

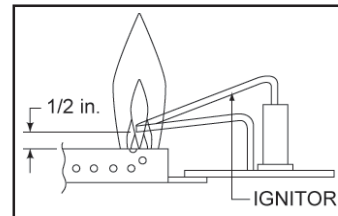


Figure 50

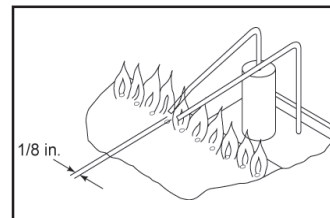


Figure 51

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

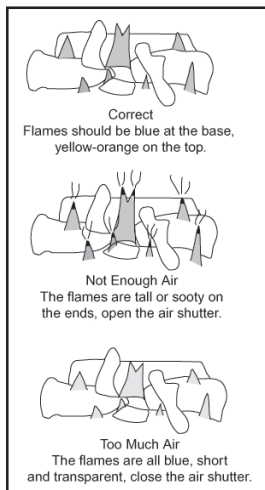


Figure 48
Flame Patterns

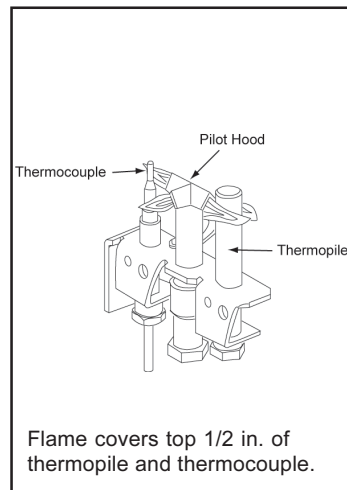


Figure 49
Standing Pilot

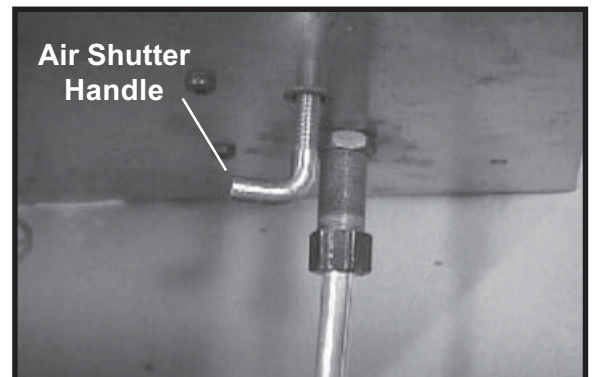


Figure 52
Air Shutter Fixed Wing Bolt Location

4. Clean the Glass

The glass panel and its gasket must be inspected at least once a year. See Figure 53 for glass panel removal instructions.

- a. Carefully inspect the fixed glass door gasket to make certain it is sealing properly. Check for worn spots and/or where the gasket may have come loose from the frame. Replace the gasket if it is worn or has come loose from the frame.
- b. Clean the glass (only when cool!) with a nonabrasive cleaner such as Brasso®.
- c. Never operate this appliance without the glass properly secured in place or if the glass is broken.
- d. In the event of glass breakage, carefully remove the glass frame. This will allow the removal of all glass fragments and sheet metal edge protection strips. Vacuum all remaining glass pieces with a shop vac. **Do not vacuum if the pieces are hot!** Replace the glass only with a Heatilator glass panel assembly ordered through your local distributor. Never use substitute material. Only ceramic glass may be used on this appliance.

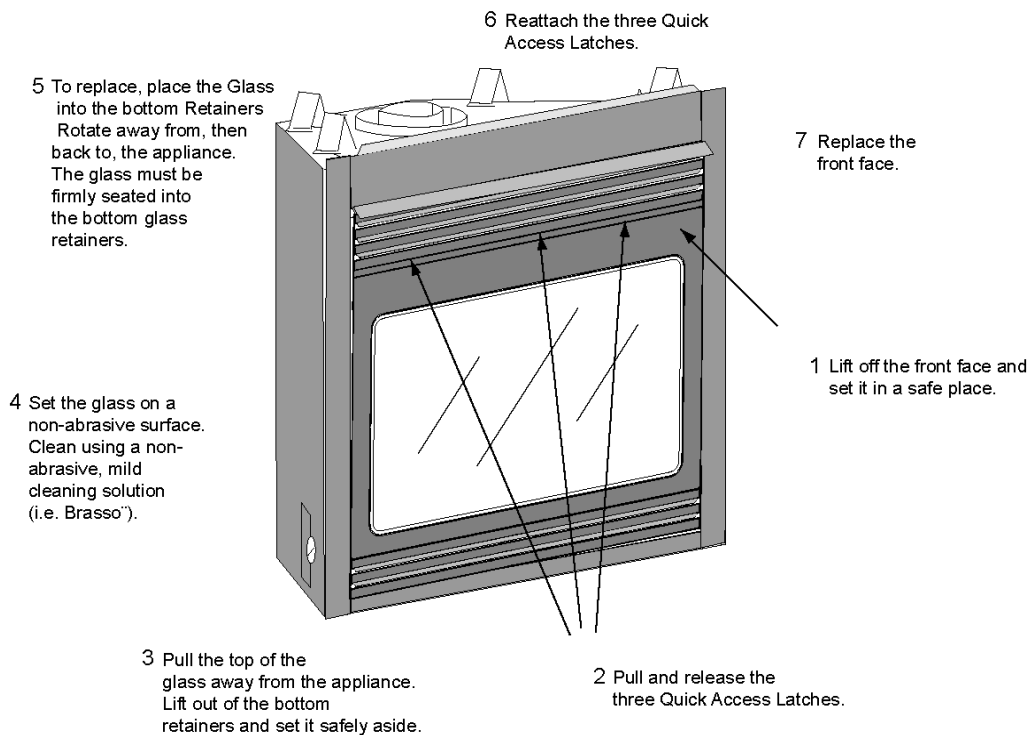


Figure 53 - Glass Cleaning

5. Log Removal/Replacement



Figure 54 - Log Removal

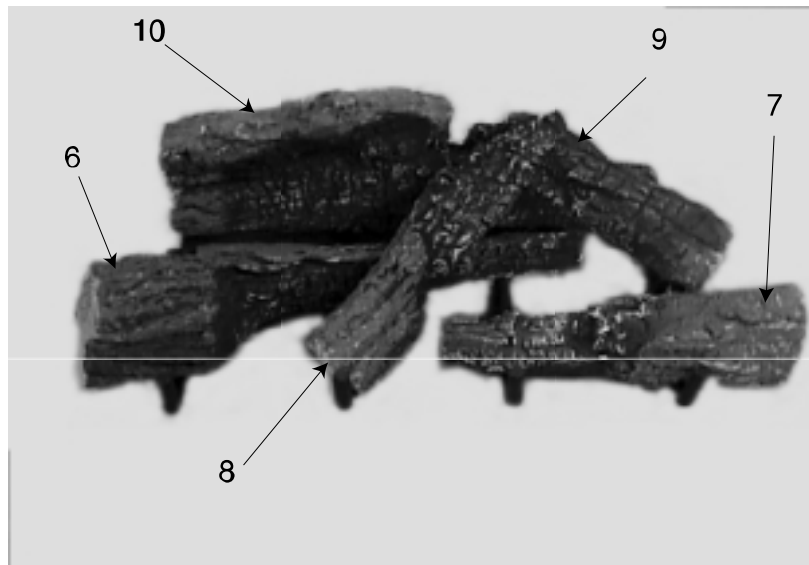
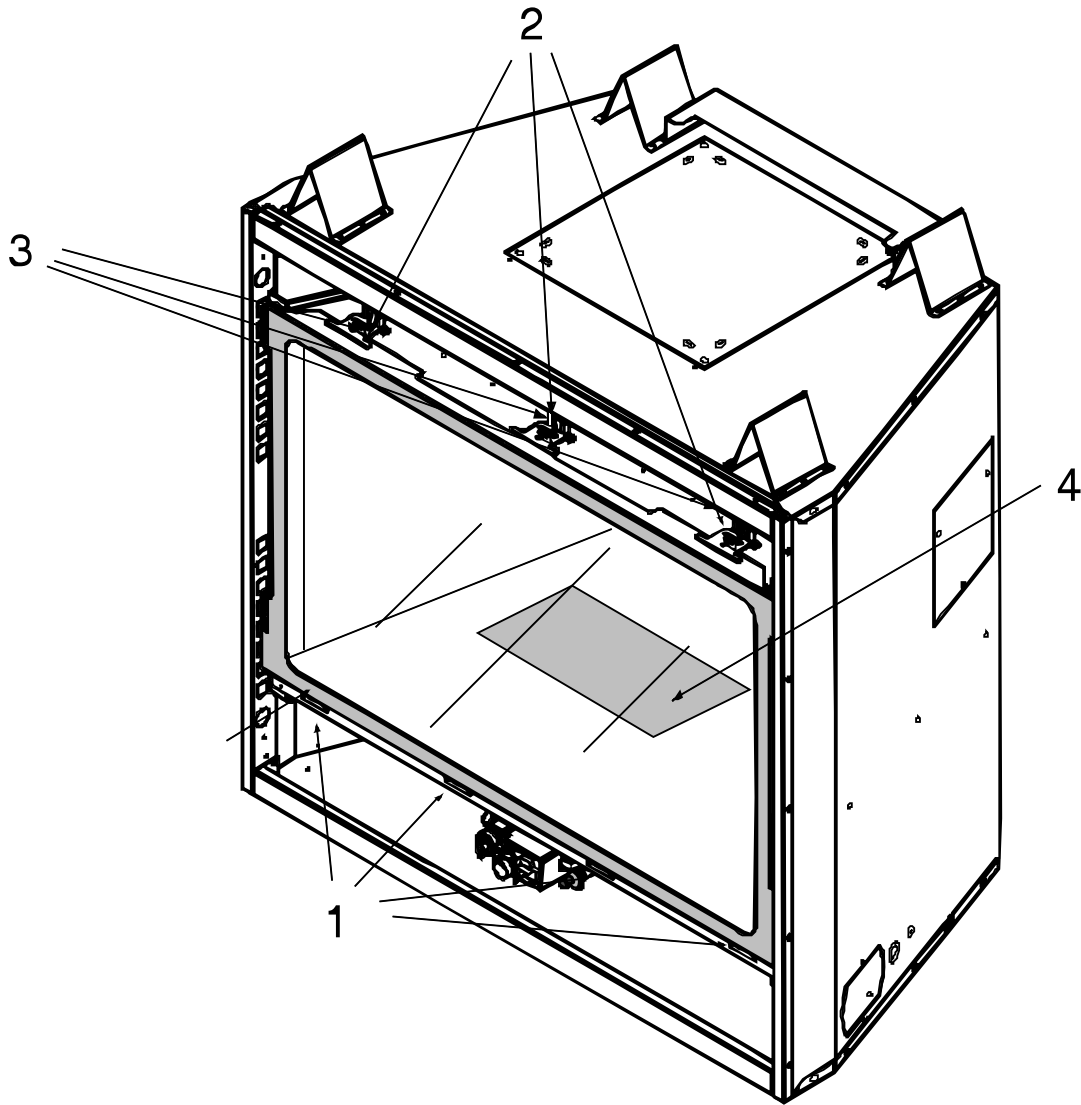
a. Removal

If removal of the logs becomes necessary, remove the two screws (one at each end of the grate). Grasp the grate and lift the logs up off the burner and pull the entire assembly out of the appliance. See Figure 54.

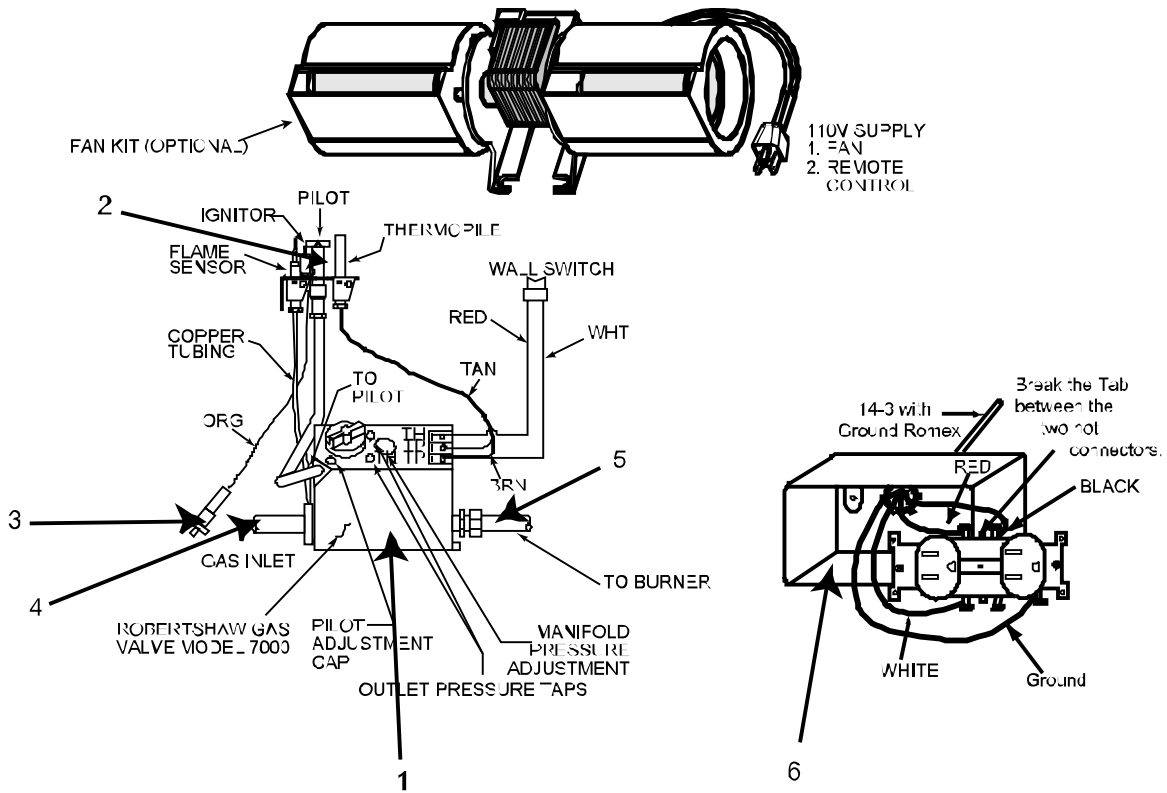
b. Replacement

To replace the logs, grasp the grate as shown. Lower the log set onto the burner pan. Situate the logs by placing the tabs (from which the two screws were previously removed) over the matching holes in the hearth floor. Reinstall the two screws (one on each side of the grate) to secure in place.

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#	Description of Part	MAX 60	MAX60L	Qty.	R
	Air Baffle, Rear	31047	31047	1	Y
	Air Deflector	28705	28705	1	Y
	BC12 Thermal Plate	31360	31360	1	Y
	Burner Front Air Rail	30478	30478	1	Y
	Exhaust Collar Assembly	31365	31365	1	N
	Exhaust Cover Plate	25840	25840	1	N
	Face, 6" Top Front	32062	32062	1	Y
	Fire Glow	Fire98	Fire98	1	Y
	Flue Gasket	26849	26849	1	Y
	Glass Door Assembly w/Gasket	29283	29283	1	Y
	Glass Door Frame Assembly	31049	31049	1	Y
1	Glass Door Retainer Clip	27600	27600	2	Y
4	Hearth Pan	30459	30459	1	Y
	Intake Collar Assembly	30455	30455	1	N
	Intake Cover Plate	25844	25844	1	N
2	Latch Assembly	27895	27895	3	Y
3	Latch Bracket	28229	28229	3	Y
	Lava Rock	28911	28911	1	Y
	Log Assembly	30460	30460	1	Y
10	Log, Back	31482	31482	1	Y
6	Log, Front Left	31478	31478	1	Y
7	Log, Front Right	31479	31479	1	Y
9	Log, Rear Right	31481	31481	1	Y
8	Log, Top	31480	31480	1	Y
	Mineral Wool	14333B	14333B	1	Y
	Refractory Cover	31361	31361	1	Y
	Refractory Support	31484	31484	1	Y
	Refractory, Back	30525	30525	1	Y
	Refractory, Hearth	31056	31056	1	Y
	Refractory, Left Side	31055	31055	1	Y
	Refractory, Right Side	31054	31054	1	Y
	Refractory, Top	31053	31053	1	Y
	Rock Rail	31518	31518	1	Y
	Velcro - Hook	17439A	17439A	1	Y
	Velcro - Loop	17440A	17440A	1	Y
	Vermiculite	28746	28746	1	Y
	Wool, Rock, Vermiculite & Fire Glow	30840	30840	1	Y





Service Parts

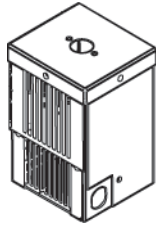
MAXUS

Service Parts List

Beginning Manufacturing Date: N/A
Ending Manufacturing Date: Active

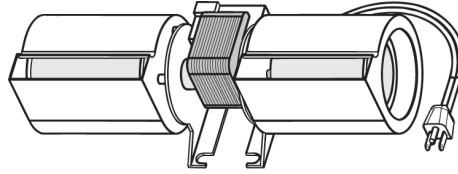
#	Description of Part	MAX 60	MAX60L	Qty.	R
	Bulkhead	35403	35403	1	Y
	Bulkhead Service Pack	4001-041	4001-041	1	Y
	Burner Pan Assembly	31476	30461	1	Y
	Connector, Male, Brass - Flex	17069	17069	1	Y
4	Flex Gas Line	15696B	15696B	1	Y
5	Gas Tube, Standing Pilot	30517	30517	1	Y
	Glass Gasket	28091	28091	10'	Y
	Hearth Assembly	31773	31773	1	Y
	Hood, Gold	30473	30473	1	Y
3	Ignitor, Push Button	13416	13416	1	Y
	Installation Instructions	30484	30484	1	Y
	Insulation Replacement Kit	35237	35237	1	Y
6	Junction Box Kit	22130	22130	1	N
	ON/OFF Valve Assembly	15697	15697	1	Y
	Orifice, Burner - NG/.125, Ip/.073	24691	24220	1	Y
	Orifice, Pilot - NG/.021, LP/.0115	29476	29477	1	Y
2	Pilot Assembly	29478	29479	1	Y
	Pilot Shield	30536	30536	1	Y
	Refractory Assembly	31774	31774	1	Y
	Shutter Box Door	28114	28114	1	Y
1	Valve	24033	24034	1	Y
	Valve Assembly	30487	30488	1	Y
	Valve Bracket	19303	19303	1	Y
	Wire Assembly, Wall Switch	28602	28602	1	N

O. OPTIONAL COMPONENTS

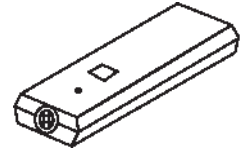


BC10
Fan Motor Rheostat

- BC11**
Automatic Variable Blower Control
- BC12**
Variable Fan Control with Thermostat

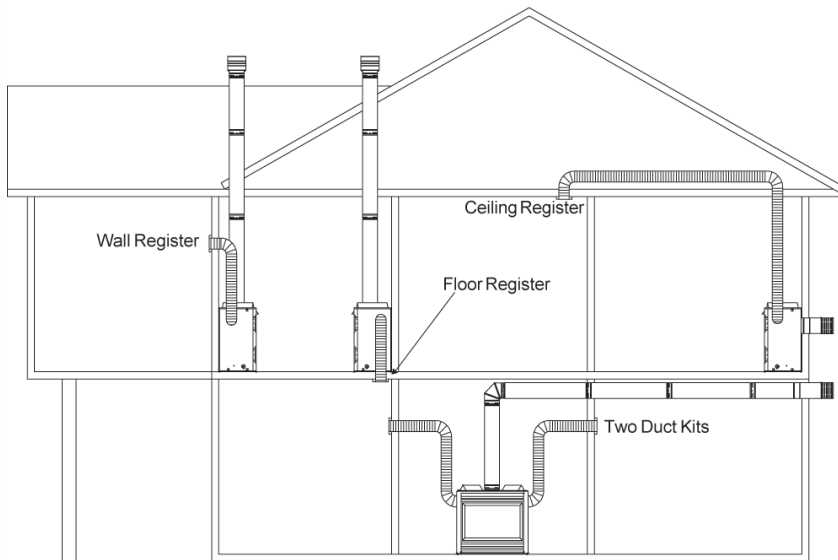


FK160
Fan Kit

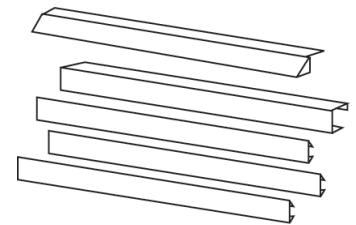


- RC-SMART-HTL**
Remote Control
- RC-ELEC-HTL**
Remote Control
(Electronic Ignition)
- RC-BATT-HTL**
Battery-operated Remote
Control (Standing Pilot)
- RCT-MLT-HTL**
Multi-functional Remote
- SMART-STAT-HTL**
Remote Control with
Thermostat Control
- SMART-BATT-HTL**
Battery-operated Remote
Control with Thermostat
Control

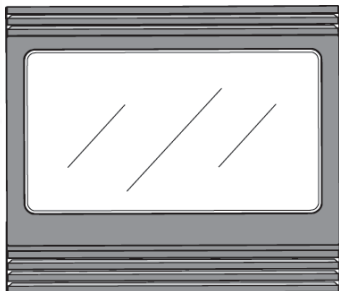
HEAT-ZONE Heat Transfer System Possible Air Duct Runs/Locations



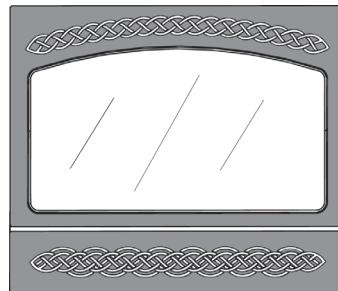
HEAT-ZONE
Heat Transfer System (Fan with cover and 20 ft Flex)



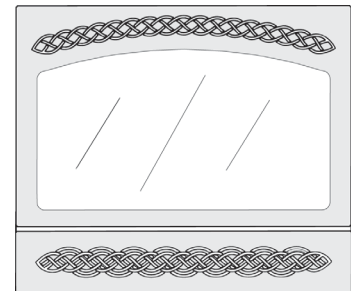
TKN63B
Trim Kit



FFMAX1
Grille Front Face - Black



FFMAX2
Filigree Front Face - Black



FFMAX2G
Filigree Front Face - Gold

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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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