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OWNER'S MANUAL AND INSTALLATION INSTRUCTIONS IB75 B-VENT GAS APPLIANCE



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.).

This manual must be used for installation of the IB75 Gas Appliance and retained by the homeowner for operation and maintenance instructions.

WARNING!

Installation and service must be performed by a qualified installer, service agency or the gas supplier. 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 use.

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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

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. 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.
3. This is a vented decorative gas appliance. Do not burn wood or other material in this appliance.
4. **NEVER** leave children unattended when there is a fire burning in the appliance.
5. This appliance must be vented with an 8" B-vent system and must terminate above the roof line. Venting must not be connected to a chimney flue servicing a solid fuel burning appliance.
6. Use only the fuel gas specified on the rating label of this gas appliance.
7. The appliance area shall be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
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.
11. Provisions shall be made to provide adequate combustion and ventilation air. The flow of combustion and ventilation air should not be obstructed.

DESIGN AND INSTALLATION CONSIDERATIONS

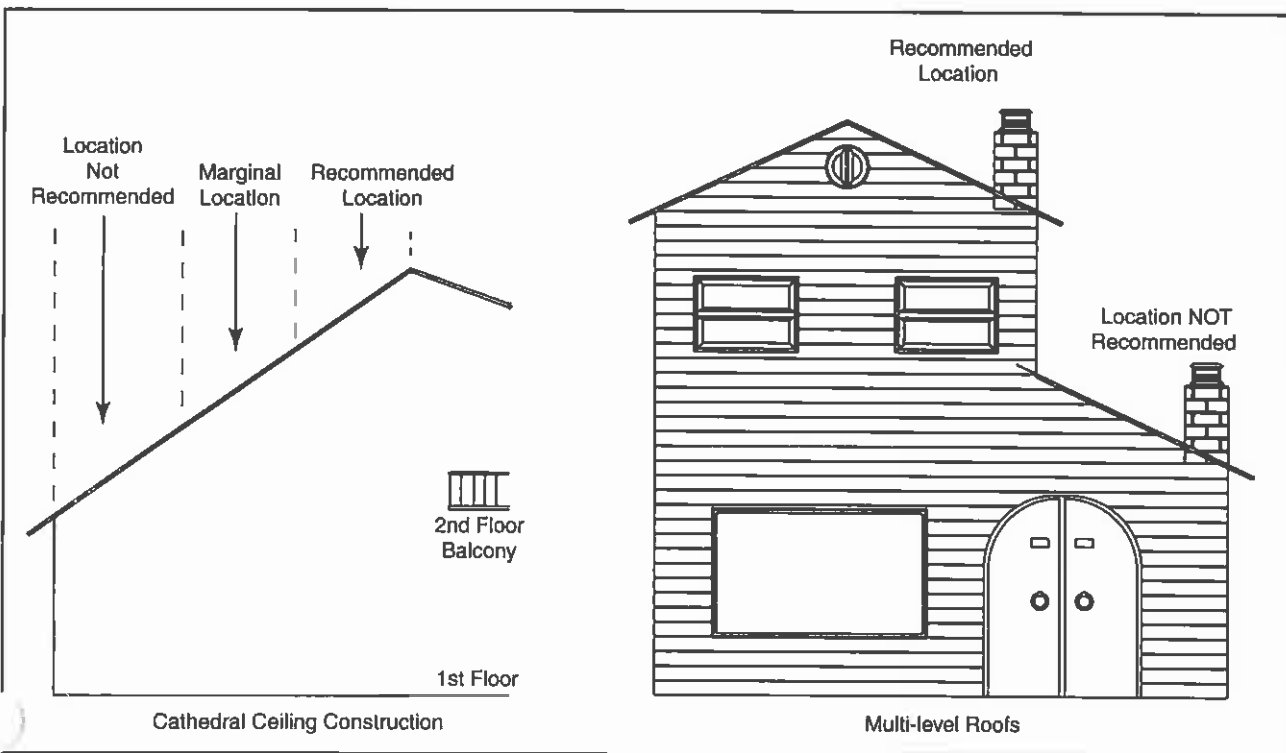
When selecting a location for your B-Vent appliance, it is important to evaluate a number of considerations. Modern construction techniques can create conditions that may not allow your vent to draft properly. This may result in spillage from your B-Vent appliance, as well as cause other combustion appliances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

1. U.S. AND CANADA CERTIFICATION

The IB75 Gas Appliance has been tested in accordance with the standards **ANSI Z21.50-2000** and **CSA 2.22-2000**, and has been listed by Underwriters Laboratories Inc. for installation and operation as described in this manual. All components are UL, AGA, CGA, or CSA safety certified.

2. LOCAL CODES

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

If you need assistance during installation, please contact your local dealer or Heatilator Technical Services Department, Hearth & Home Technologies, 1915 W. Saunders Street, Mt. Pleasant, Iowa 52641, 1-800-843-2848.

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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:

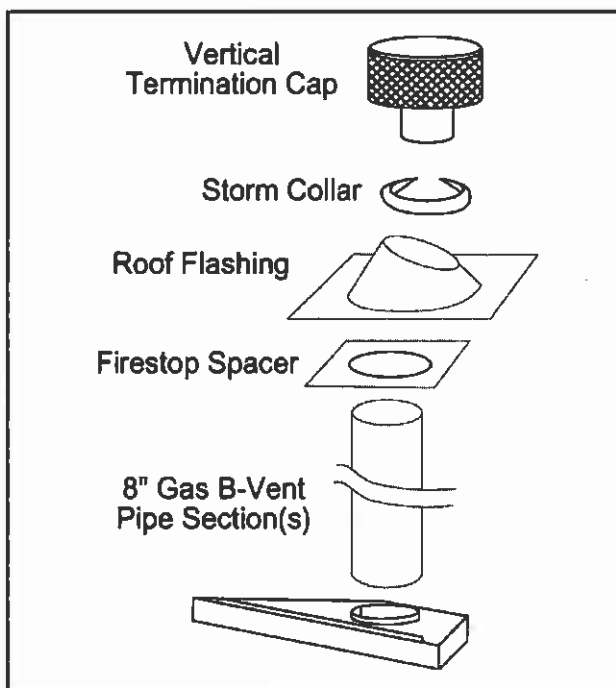
Saw	Wall-finishing materials
Pliers	Framing material
Hammer	Surround
Phillips screwdriver	Caulking material
Tape measure	Safety gloves
Plumb line	Electric drill/bits
Level	Framing Square

IB75 NOMENCLATURE

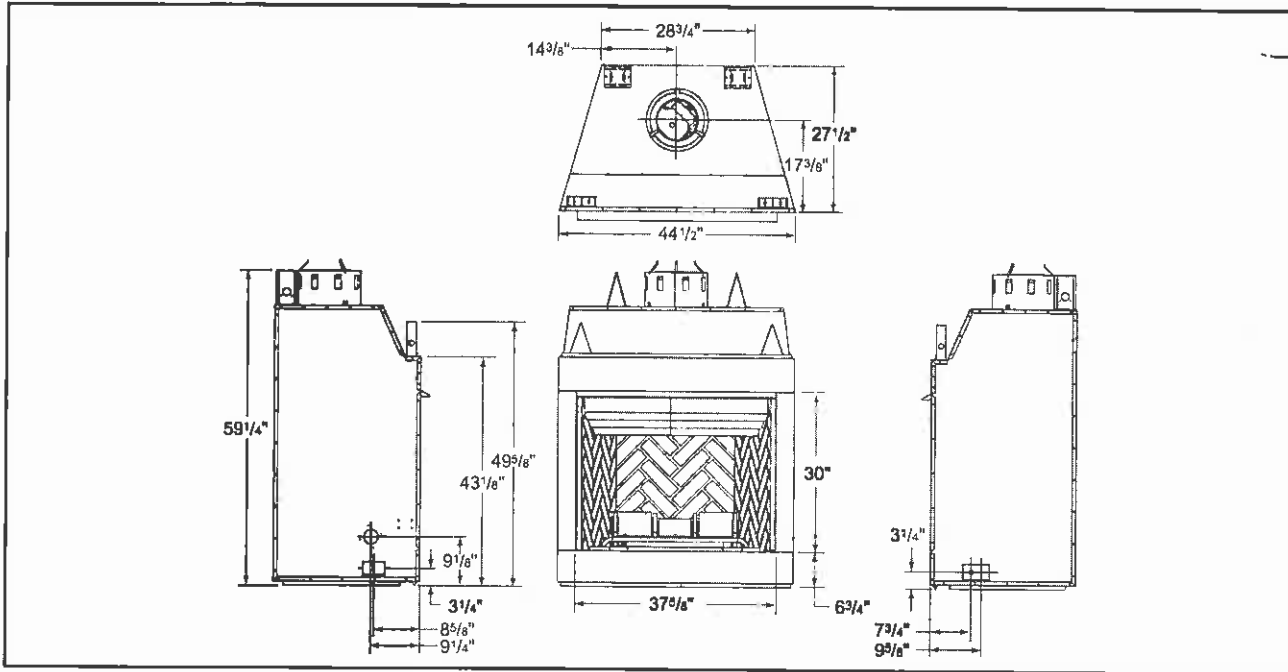
Catalog #	Description
I	ICON
B	B-Vent
75	75th Anniversary

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 locations. In lieu, we recommend a direct vent appliance.

TYPICAL INSTALLATION COMPONENTS



B. LOCATION AND CLEARANCES



Dimensions

APPLIANCE LOCATIONS AND SPACE REQUIREMENTS

Figure 1 illustrates a variety of ways the appliance may be located in a room. The IB75 may be installed directly on the floor or raised on a hearth. These appliances are certified for installation in a bedroom or bed/sitting room in the U.S. and Canada, provided that the bedroom or bathroom has a volume of at least 2500 cubic feet.

2. CLEARANCES

Figure 2 shows all clearances that must be maintained around the appliance.

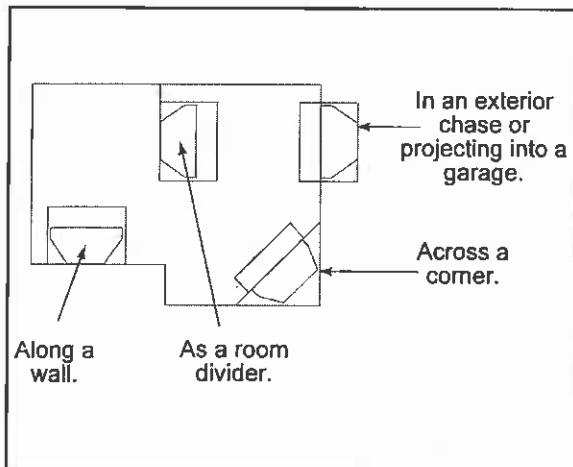


Figure 1 - Appliance Locations

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

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

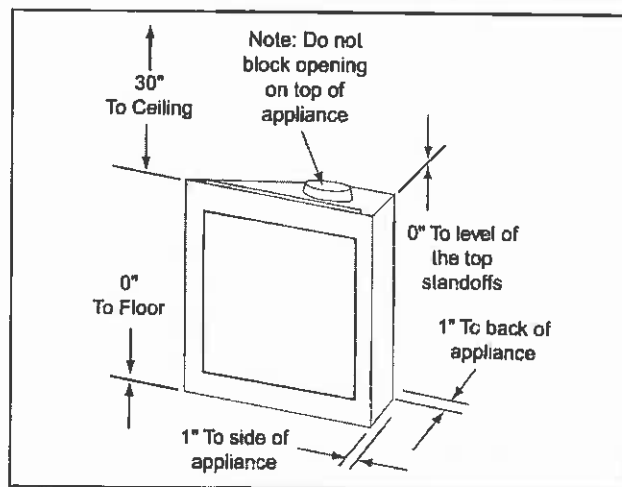


Figure 2
Appliance Clearances to Combustible Materials

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C. FRAMING

Figure 3 shows typical framing of this appliance using combustible materials and the minimum mantel heights. All required clearances to combustibles must be adhered to. Figure 4 shows rough framing dimensions.

CAUTION:

Provide adequate clearances around the air openings into the combustion chamber and adequate accessibility clearances for servicing and proper operation.

CAUTION:

Wear gloves and safety glasses for protection.

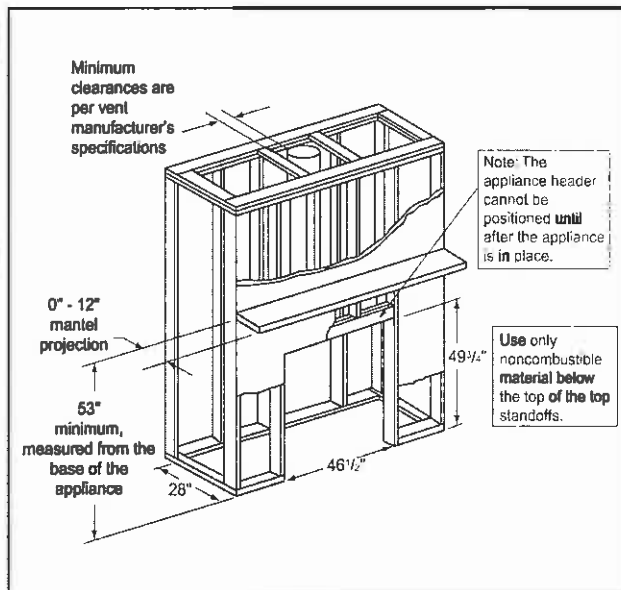


Figure 3 - Framing

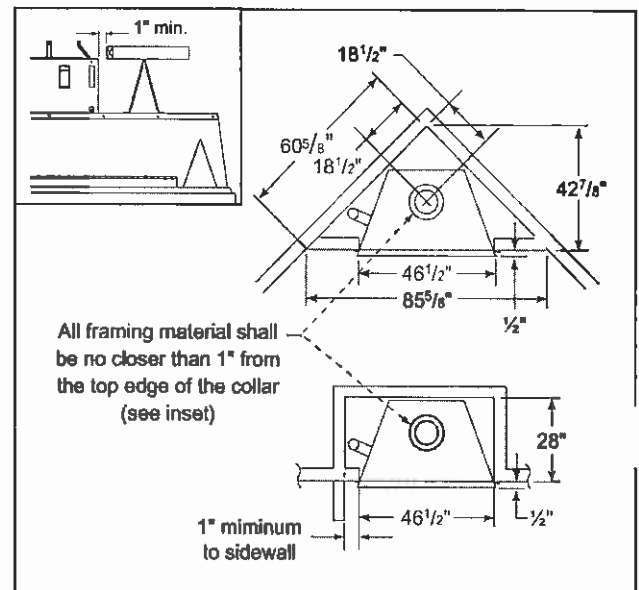


Figure 4 - Rough Framing Dimensions

WARNING!

To prevent contact with sagging or loose insulation, the appliance must not be installed against vapor barriers or exposed insulation.

D. SETTING 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 a 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.

Secure the appliance by bending out the nailing flanges on each side of the appliance and nail to framing. The nailing flanges have been positioned 1/2" back from the front of the appliance to allow the addition of drywall.

WARNING!

This appliance may only use an approved B-Vent chimney system. It must not be connected to a chimney flue servicing a separate solid fuel or gas fuel burning appliance.

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E. VENTING

Note: This appliance requires a 8" B-vent for operation. Never down-size pipe.

1. CLEARANCES

Vent clearances are per vent manufacturer's specifications.

2. VENT LENGTHS

Various venting configurations are shown in Figures 5 and 6 from which maximum vent runs can be determined.

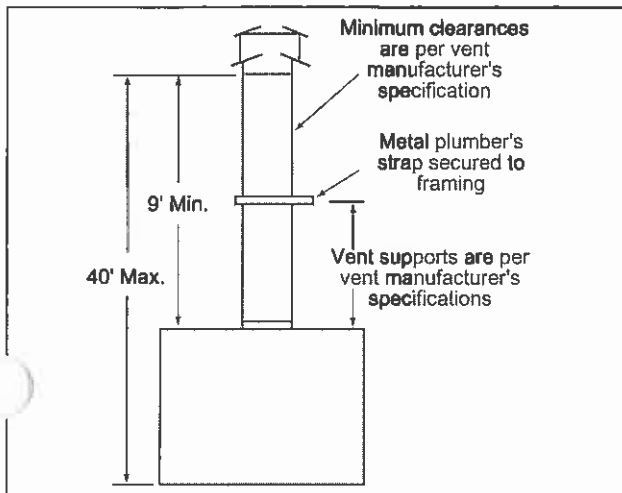


Figure 5 - Vertical Termination Vent Lengths

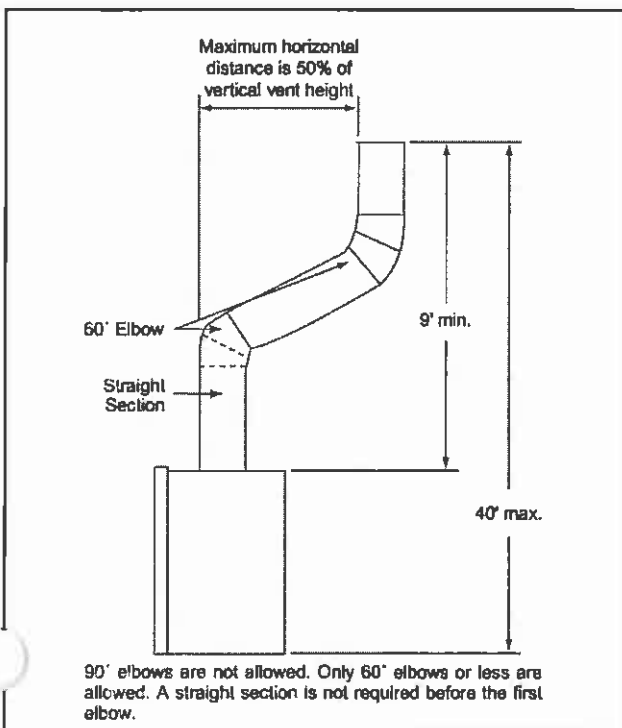


Figure 6 - Venting off the Top of the Appliance

WARNING - RISK OF FIRE!

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

3. FIRESTOP SPACER/VENT INSTALLATION

Frame an opening and install a firestop spacer whenever the vent penetrates a ceiling/floor area, as shown in Figure 7. 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. Assemble vent sections as per manufacturer's specifications.

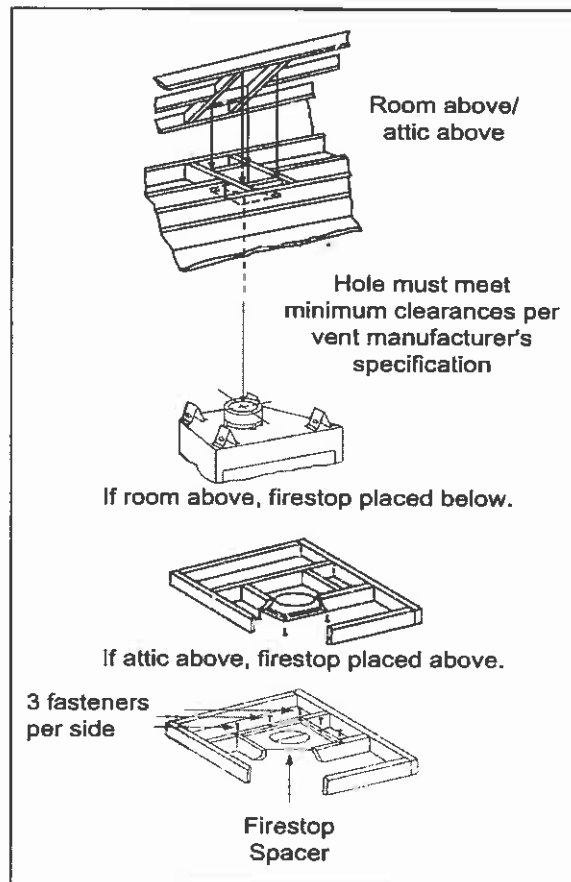


Figure 7 - Installing the Firestop Spacer

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4. CHASE/TERMINATION INSTALLATION

Figure 8 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.

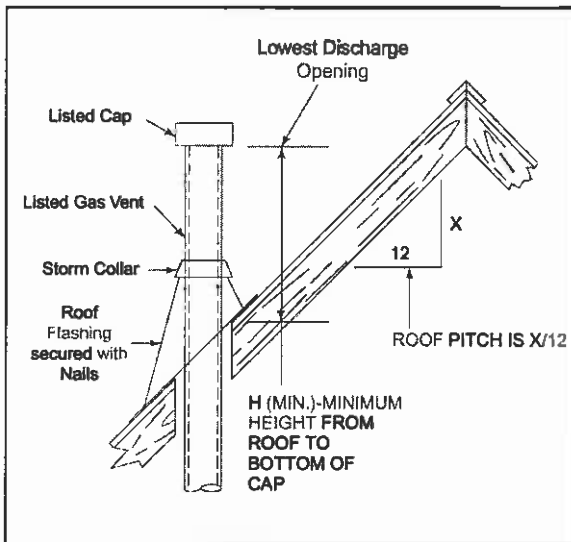


Figure 8
Vent Height for Vertical Termination

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

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

5. AUTOMATIC DAMPER

This appliance comes with a thermally activated automatic damper device. When at room temperature, the damper will have slight spring pressure keeping it in a closed position. When placed in a heat source (i.e. when the appliance is turned on), the damper will open as the thermally activated spring heats. Check

that the damper blade moves freely and does not scrape or bind on any of the damper components. While the appliance is in operation, visually check that the damper opens. It will take approximately 4 minutes for the spring to reach normal operating temperature and the damper to reach a fully open position.

6. CHECKING THE VENT SYSTEM

Test the venting system periodically to assure proper operation. This can be done with a match while the appliance is operating.

Hold a lighted match at the top edge of the appliance opening. If the flames and smoke remain upright, ventilation is acceptable. If the flames and smoke are drawn into the appliance, this means ventilation is good. If the flames and smoke are forced away from the appliance, this may indicate a ventilation blockage or down draft resulting in gas spillage into your home. If this occurs, turn off the appliance and do not burn it until it has been inspected by a qualified service person.

If you have installed optional doors, close the doors and conduct the test following the same instructions above. See Figure 9.

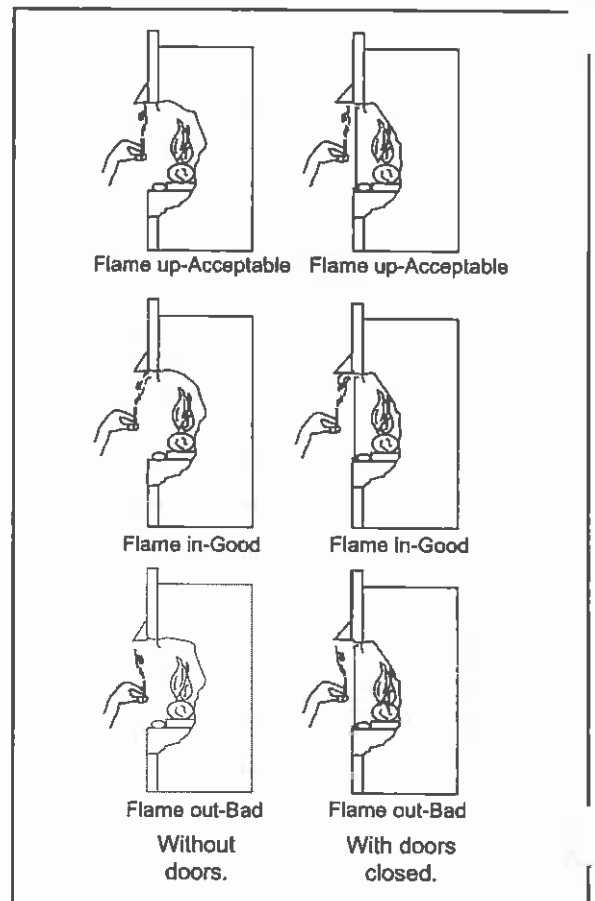


Figure 9 - Testing Ventilation