

# Installation Manual

## Installation and Appliance Setup

**CAUTION! Risk of Fire! DO NOT** store instruction manuals inside fireplace cavity. High temperatures could cause a fire.

**INSTALLER:** Leave this manual with the appliance, not inside the appliance.

**CONSUMER:** Retain this manual for future reference. Do not store inside the appliance.

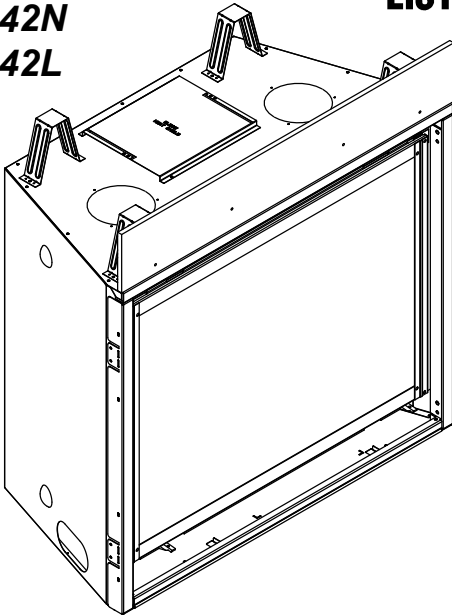
**NOTICE: DO NOT** discard this manual!

### Models:

**MER36N  
MER36L  
MER42N  
MER42L**



**GAS-FIRED**



This appliance may be installed as an OEM installation in manufactured home (USA only) or 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* in the United States, or the *Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series*, in Canada.

This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

### ⚠ WARNING:

#### **FIRE OR EXPLOSION HAZARD**

Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

- **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.
  - Leave the building immediately.
  - 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.



**HOT GLASS WILL  
CAUSE BURNS.**

**DO NOT TOUCH GLASS  
UNTIL COOLED.**

**NEVER ALLOW CHILDREN  
TO TOUCH GLASS.**

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed for the protection of children and other at-risk individuals.

Pour demander un exemplaire en français de ce Manuel, visitez [www.majesticproducts.com](http://www.majesticproducts.com).

Decorative barrier front must be ordered separately at time of appliance purchase. See Section 3.B.

## ▲ Safety Alert Key:

- **DANGER!** Indicates a hazardous situation which, if not avoided will result in death or serious injury.
- **WARNING!** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- **CAUTION!** Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE:** Used to address practices not related to personal injury.

**Note:** The term “recommend” or “recommended” does not indicate a requirement. It is a best practice suggested by Hearth & Home Technologies®.

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→ = Contains updated information.

## Installation Standard Work Checklist

### ATTENTION INSTALLER: Follow this Standard Work Checklist

This standard work checklist is to be used by the installer in conjunction with, not instead of, the instructions contained in this installation manual.

**Customer:** \_\_\_\_\_  
**Lot/Address:** \_\_\_\_\_

**Date Installed:** \_\_\_\_\_  
**Location of Fireplace:** \_\_\_\_\_  
**Installer:** \_\_\_\_\_  
**Dealer/Distributor Phone #** \_\_\_\_\_  
**Serial #:** \_\_\_\_\_

**Model (circle one):** **MER36N** **MER36L**  
**MER42N** **MER42L**



**WARNING! Risk of Fire or Explosion! Failure to install appliance according to these instructions could lead to a fire or explosion. Install ONLY components and accessories approved by Hearth & Home Technologies. Unapproved components and accessories could cause fireplace to overheat.**

#### **Appliance Install**

Verified that the chase is insulated and sealed. (Pg. 25)  
Verified clearances to combustibles. (Pg. 17-24)  
Fireplace is leveled and secured. (Pg. 50)

**YES**

**IF NO, WHY?**

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#### **Venting/Chimney Section 7 (Pg 51-56)**

Venting configuration complies to vent diagrams.  
Venting installed, locked and secured in place with proper clearance.  
(May need to order separately.)  
Firestops installed.  
No insulation or foam materials in contact with venting or between ceiling/wall shield firestops.  
Attic insulation shield installed.  
Exterior wall/Roof flashing installed and sealed.  
Terminations installed and sealed.

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#### **Electrical Section 8 (Pg 57-60)**

Unswitched power (110-120 VAC) provided to the appliance.  
Switch wires properly installed.

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#### **Gas Section 9 (Pg 61-63)**

Proper appliance for fuel type.  
Was a conversion performed?  
Leak check performed and inlet pressure verified.  
Verified proper air shutter setting for installation type.

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#### **Finishing Section 10 (Pg 64-71)**

Combustible materials not installed in non-combustible areas.  
Verified all clearances meet installation manual requirements.  
Mantels and wall projections comply with installation manual requirements.  
Removed finishing strips prior to appliance start up, if installed.

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#### **Appliance Setup Section 11 (Pg 72-79)**

All packaging and protective materials removed (inside & outside of appliance).  
Refractories, logs, media and embers installed correctly.  
Glass assembly installed and secured.  
Accessories installed properly.  
Decorative barrier front properly installed.  
(May need to order separately.)  
Manual bag and all of its contents are removed from inside/under the appliance and given to party responsible for use and operation.  
Started appliance and verified no gas leaks exist.

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#### **Hearth & Home Technologies recommends the following:**

- Photographing the installation and copying this checklist for your file.
- That this checklist remain visible at all times on the appliance until the installation is complete.

**Comments:** Further description of the issues, who is responsible (Installer/ Builder/ Other Trades, etc) and corrective action needed \_\_\_\_\_

Comments Communicated to party responsible \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_  
(Builder / Gen. Contractor/) (Installer) (Date)

➔ = Contains updated information.

2595-982 1/23

# 1 Product Specific and Important Safety Information

## A. Appliance Certification

**MODELS:** MER36N, MER36L, MER42N, MER42L  
**LABORATORY:** Underwriters Laboratories, Inc. (UL)  
**TYPE:** Direct Vent Heater  
**STANDARD:** CSA / ANSI Z21.88-2019 • CSA 2.33-2019

This product is listed to ANSI standards for “Vented Gas Fireplace Heaters” and applicable sections of “Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles”, and “Gas Fired Appliances for Use at High Altitudes”. Also Certified for Installation in a Bedroom or a Bedsitting Room.

**NOTICE:** This installation must conform with local codes. In the absence of local codes you must 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.

**NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE.**  
This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

## B. Glass Specifications

Hearth & Home Technologies appliances manufactured with tempered glass may be installed in hazardous locations such as bathtub enclosures as defined by the Consumer Product Safety Commission (CPSC). The tempered glass has been tested and certified to the requirements of **ANSI Z97.1** 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 **CPSC 16 CFR Section 1201.5** “Certification and labeling requirements” which refers to **15 U.S. Code (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.

## C. BTU Specifications

Models (U.S. or Canada)		Maximum Input BTU/h	Minimum Input BTU/h	Orifice Size (DMS)
MER36N (NG)	(0-2000 ft)	30,000	16,000	#37
MER36L (Propane)	(0-2000 ft)	28,000	17,000	#52
MER42N (NG)	(0-2000 ft)	35,000	19,000	#35
MER42L (Propane)	(0-2000 ft)	34,000	17,000	#51

## D. High Altitude Installations

**NOTICE:** If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m) above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).

Check with your local gas utility to determine proper orifice size.



## E. Non-Combustible Materials Specification

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

Materials that are reported as passing **ASTM E 136, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 °C** shall be considered non-combustible materials.

## F. Combustible Materials Specification

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or plastered or unplastered shall be considered combustible materials.

## G. Electrical Codes

**NOTICE:** *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.***

- A 110-120 VAC circuit for this product must be protected with ground-fault circuit interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.

## H. California



**WARNING:** This product and the fuels used to operate this product (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals including benzene, which is known to the State of California to cause cancer and reproductive harm. For more information go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Note:** The following requirements reference various Massachusetts and national codes not contained in this document.

## I. Requirements for the Commonwealth of Massachusetts

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

### Installation of Carbon Monoxide Detectors

At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas fitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

### Approved Carbon Monoxide Detectors

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

### Signage

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) in. in size, **"GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS"**.

## Inspection

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

## Exemptions

The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

- The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

## MANUFACTURER REQUIREMENTS

### Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

### Gas Equipment Venting System NOT Provided

When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

**See Gas Connection section for additional Commonwealth of Massachusetts requirements.**

## 2 Getting Started

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### A. Design and Installation Considerations

**WARNING! Risk of Fire or Explosion!** Read all instructions before starting the installation.

Direct vent gas appliances are designed to operate with all combustion air siphoned from outside of the building and all exhaust gases expelled to the outside. No additional outside air source is required.

Installation MUST comply with local, regional, state and national codes and regulations. Consult insurance carrier, local building inspector, fire officials or authorities having jurisdiction over restrictions, installation inspection and permits.

Before installing, determine the following:

- Where the appliance is to be installed.
- The vent system configuration to be used.
- Gas supply piping requirements and space for access. See Section 9 Gas Information.
- Provisions for optional heat management system. If Passive Heat will be installed, consider location of discharge opening in relation to venting and other construction materials. Refer to the installation instructions included with the Passive Heat kit for details and the appropriate sections in this manual in terms of clearances and framing (Section 3), and finishing and mantels (Section 10).
- Electrical wiring requirements.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired. See Section 12.B for approved accessories.

Installation and service of this appliance should be performed by qualified personnel. Hearth & Home Technologies recommends HHT Factory Trained or NFI certified professionals.



Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. For assistance or additional information, consult a qualified service technician, service agency or your dealer.

## B. Good Faith Wall Surface / TV Guidelines

**NOTICE:** Surface temperatures listed above are taken with a temperature measuring probe as prescribed by the test standard used for appliance certification. Temperatures on walls or mantels taken with an infrared thermometer may yield increased temperatures of up to 30 °F (17 °C) or more depending on the thermometer settings and material characteristics being measured. Use appropriate finishing materials that are able to withstand these conditions. For additional finishing guidelines, see Section 10. Surface temperatures will vary due to factors such as ceiling height, room size, finishing materials and installation configuration.

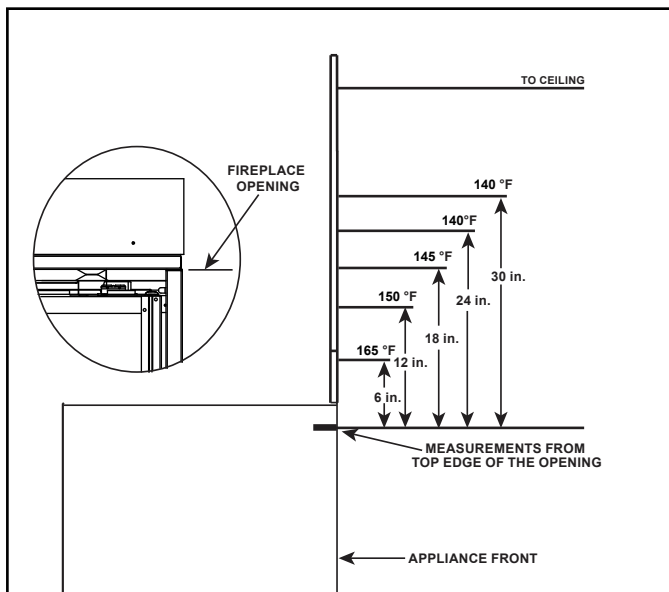


Figure 2.1 Good Faith Wall Surface Temperatures Above Appliance

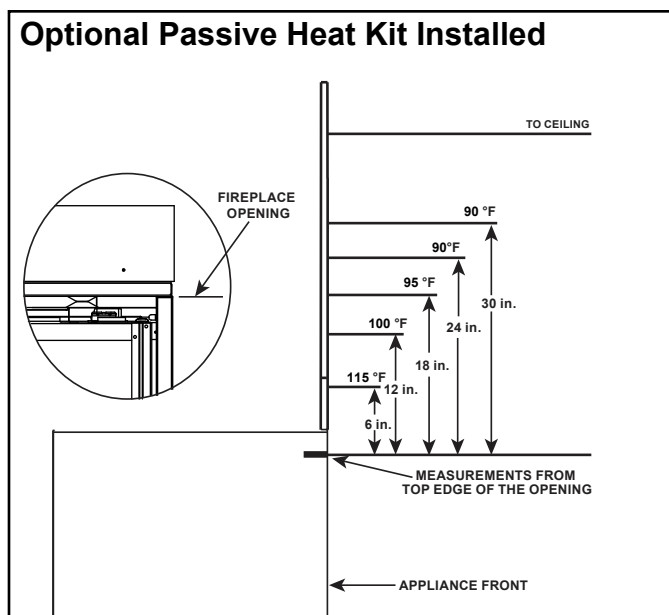
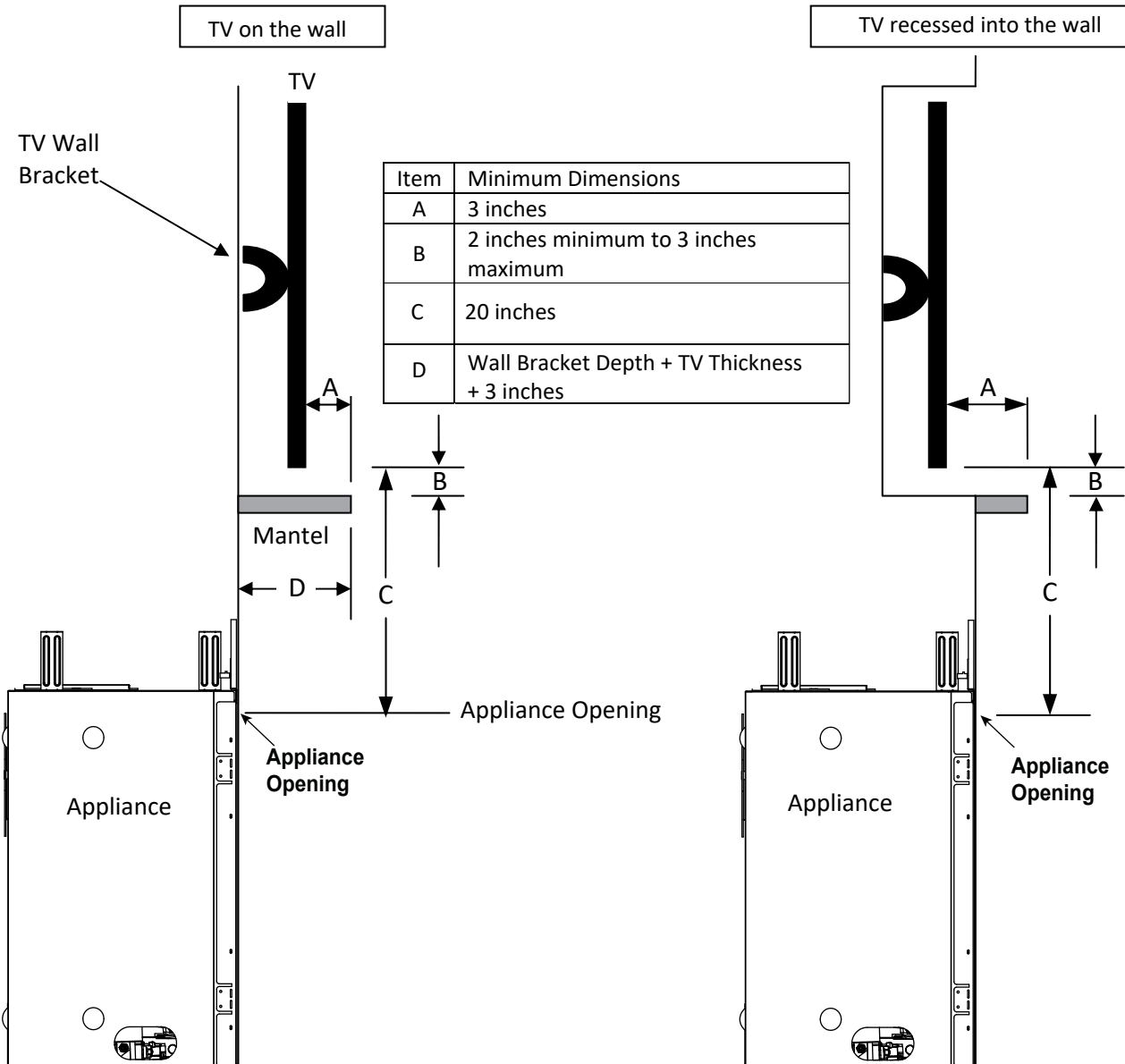


Figure 2.2 Good Faith Wall Surface Temperatures Above Appliance With Passive Heat Kit Installed

## Good Faith Guidelines for TV Installations Above Appliance (Passive Heat Not Installed)



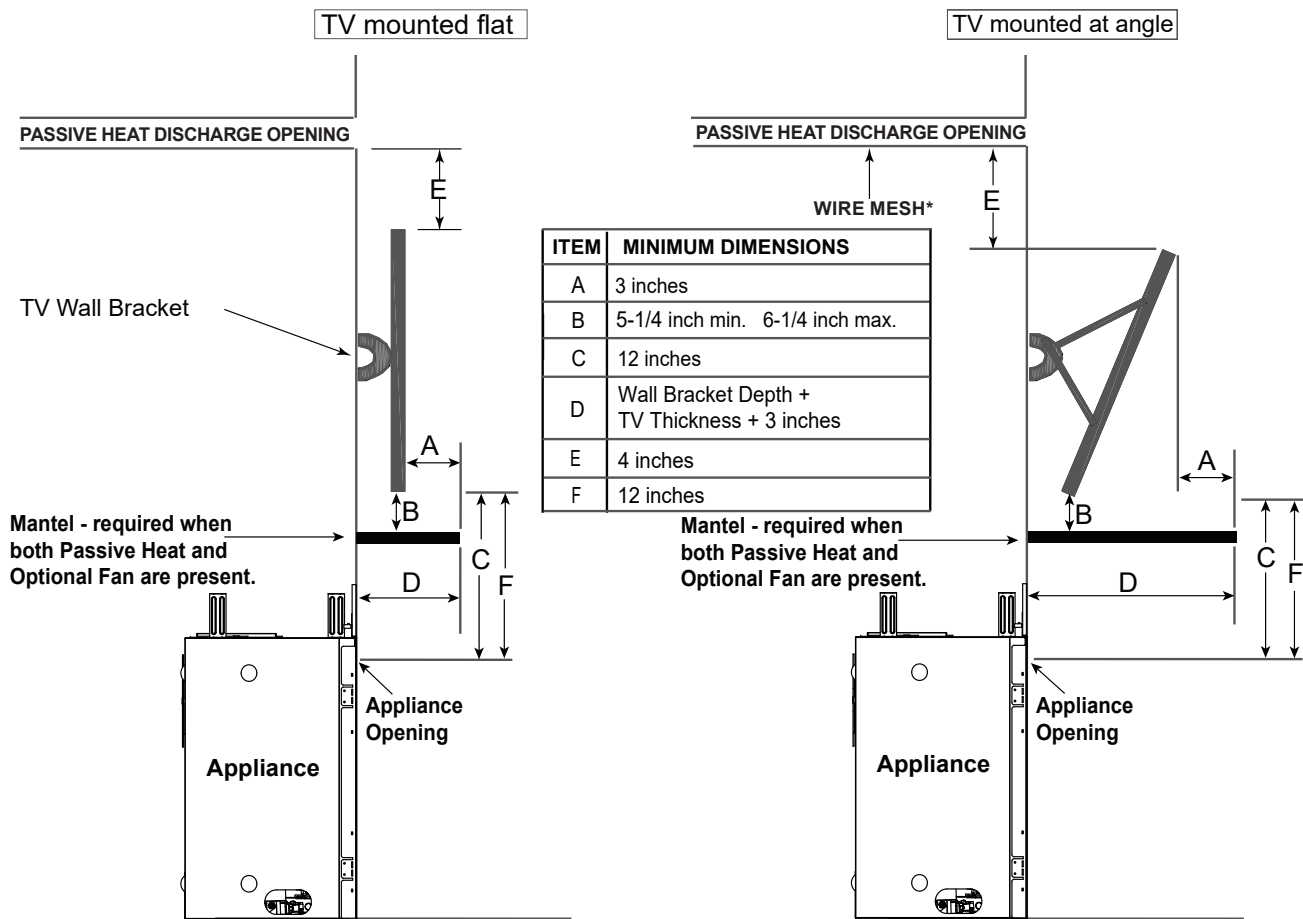
### Notes:

1. These are good faith recommended clearances only and not a guarantee of compliance with all TV manufacturers' maximum allowable operating temperatures.
2. Since every home has unique air flow characteristics and maximum allowable operating temperatures can vary from manufacturer to manufacturer and from model to model, actual TV temperatures should be validated at the time of each installation. TVs should not be used in situations where the actual TV temperature exceeds the manufacturers' maximum allowable operating temperatures identified in the TV's technical specifications. Contact the TV's manufacturer directly if you cannot locate this information or have questions regarding the information.
3. Mantel height and depth must conform to mantel requirements specified in the appliance installation manual.
4. "C" dimension taken from the top of the hood or appliance opening to the bottom of the TV.
5. Suggestions on how to further reduce TV temperatures:
  - a. Increase "A" dimension.
  - b. Increase "C" dimension, however, increasing "B" dimension beyond maximum recommended typically results in higher temperatures.

**Figure 2.3 Good Faith TV Guidelines**

## Good Faith Guidelines for TV Installations Above a Fireplace with Passive Heat Option and an Optional Fan

**NOTICE:** A mantel is required when both the Passive Heat option and an optional fan are installed.  
Life expectancy of the TV will be reduced if a mantel is not present.  
A mantel is not required when the Passive Heat option is installed and a fan is not present.



\* Mesh screen required for front discharge or open top discharge passive heat installations with discharge opening of three inches or greater.

**NOTE:** The TV installation requirements are the same regardless of whether the Passive Heat kit is installed with a top discharge, side discharge, or open top discharge.

"A" Dimension taken from the front of TV to front of the mantel.

"B" Dimension taken from the top of mantel to bottom of TV.

"C" Dimension taken from the top of the appliance opening to the bottom of the TV.

"D" Minimum mantel depth = Wall bracket thickness + TV thickness + 3 inches

"E" Dimension taken from the top of TV to bottom of discharge opening.

"F" Passive Heat kit is installed with no mantel and no fan. Dimension from appliance opening to bottom of TV.

### Notes:

- These are good faith recommended clearances only and not a guarantee of compliance with all TV manufacturers' maximum allowable operating temperatures.
- Since every home has unique air flow characteristics and maximum allowable operating temperatures can vary from manufacturer to manufacturer and from model to model, actual TV temperatures should be validated at the time of each installation. TVs should not be used in situations where the actual TV temperature exceeds the manufacturers' maximum allowable operating temperatures identified in the TV's technical specifications. Contact the TV's manufacturer directly if you cannot locate this information or have questions regarding the information.
- Mantel height and depth must conform to mantel requirements specified in the appliance installation manual.
- Suggestions on how to further reduce TV temperatures:
  - Increase "A" dimension.
  - Increase "C" dimension, however, increasing "B" dimension beyond maximum recommended typically results in higher temperatures.

**Figure 2.4 Good Faith Guidelines - Passive Heat Kit Installed**

## C. Tools and Supplies Needed

Before beginning the installation be sure that the following tools and building supplies are available.

Hand Tools	Tape measure
Level	Framing material
Manometer	Framing square
Voltmeter	Electric drill and bits (1/4 in., 1/8 in.)
Plumb line	Safety glasses/Gloves
Wrenches	Reciprocating saw
1/4 in. nut driver	Elongated pressure taps
Hammer	Flathead screwdriver
Tin Snips	
Non-corrosive leak check solution	
1/2 - 3/4 in. length, #6 or #8 Self-drilling screws	
Caulking material (300 °F minimum continuous exposure rating)	

## D. Inspect Appliance and Components

***WARNING! Risk of Fire or Explosion! Damaged parts could impair safe operation. DO NOT install damaged, incomplete or substitute components. Keep appliance dry.***

***WARNING! Risk of Fire, Explosion or Electric Shock! DO NOT use this appliance if any part has been under water. Call a qualified service technician to inspect the appliance and to replace any part of the control system and/or gas control which has been under water.***

- Carefully remove the appliance and components from the packaging.
- The vent system components and decorative barrier fronts may be shipped in separate packages.
- If packaged separately, the log set must be installed.
- Report to your dealer any parts damaged in shipment.

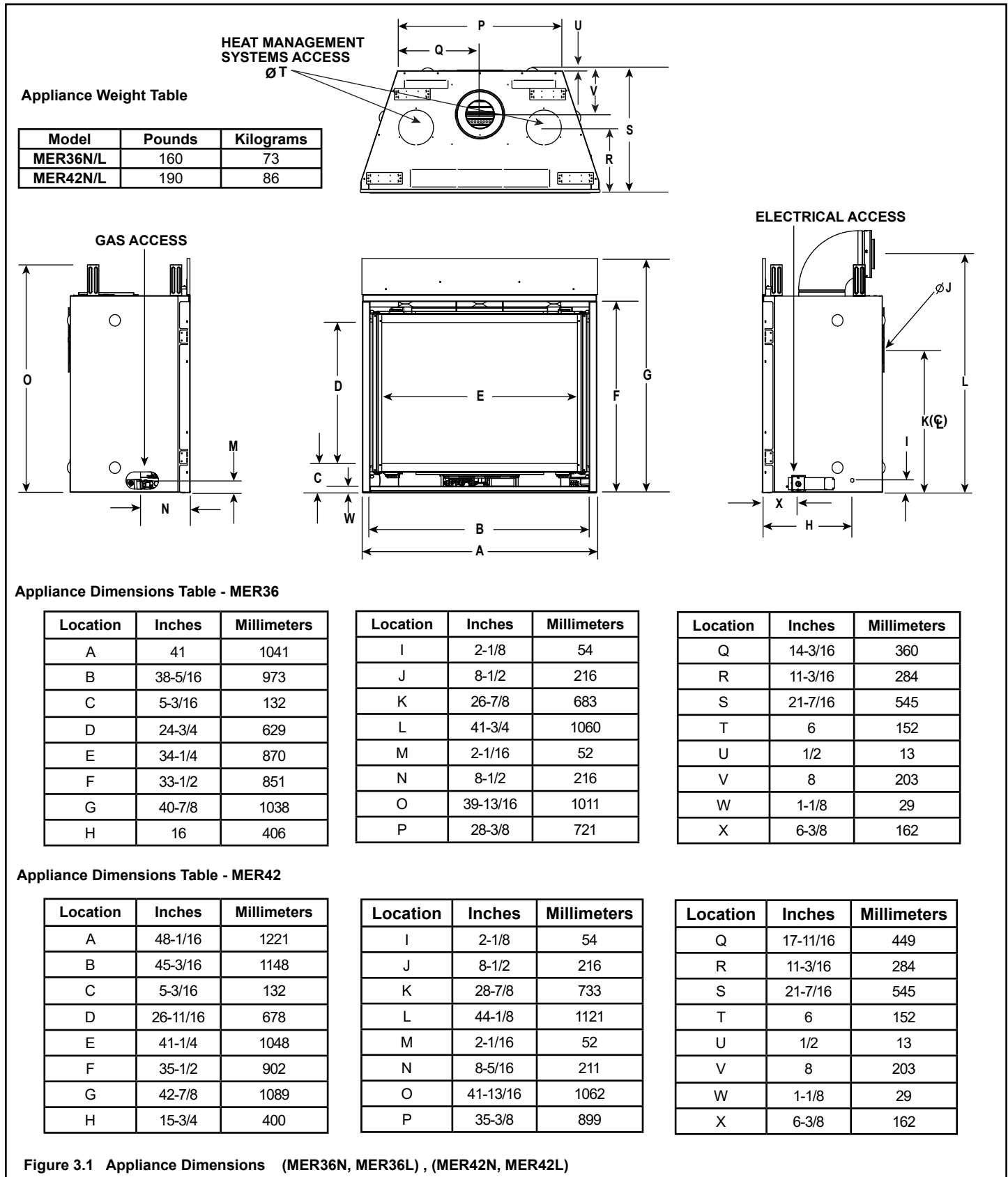
Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

- Installation and use of any damaged appliance or vent system component.
- Modification of the appliance or vent system.
- Installation other than as instructed by Hearth & Home Technologies.
- Improper positioning of the logs/media (as applicable) or the glass assembly.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

# 3 Framing and Clearances

## A. Appliance Weights and Dimensions

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 5.





## B. Decorative Barrier Front Dimension Diagrams

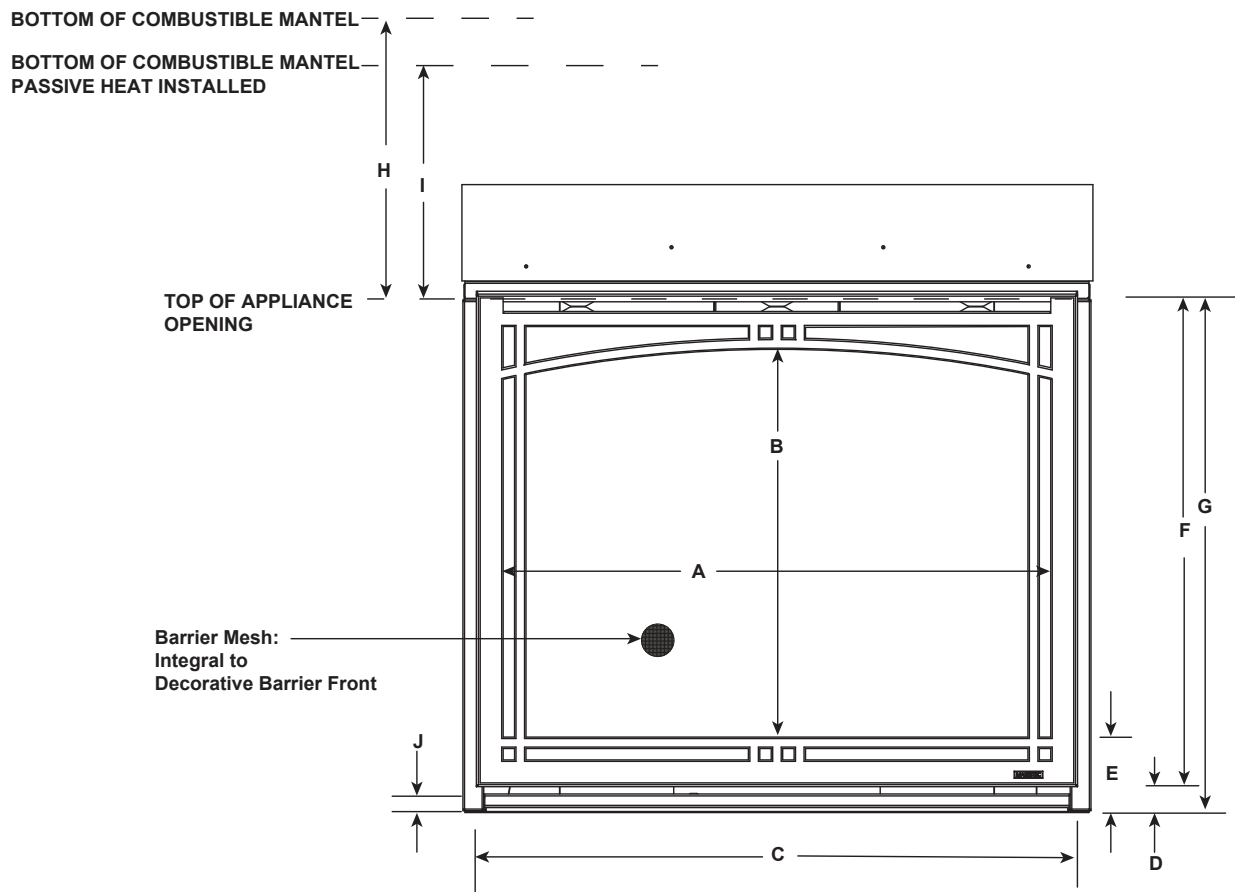
### MANOR DECORATIVE BARRIER FRONTS

**IMPORTANT!** This fireplace requires an installed decorative barrier front to prevent direct contact with the hot viewing glass. **DO NOT** operate the fireplace with the barrier removed.

Decorative barrier front must be ordered at time of fireplace purchase. If decorative barrier front is not present, contact dealer.

**WARNING! Risk of Overheating! DO NOT** install combustible or non-combustible flooring or hearth material above top of bottom surround. Gap between bottom of decorative front and top of bottom surround must be maintained for proper air flow.

**Note:** See Section 10 for hearth, mantel and finishing requirements, including complete information for combustible and non-combustible mantels.



			A	B	C	D	E	F	G
MER36	MANOR36	in.	35-3/4	25-9/16	28-15/16	1-1/2	4-3/4	32-7/16	33-15/16
		mm	908	649	735	38	121	824	862
MER42	MANOR42	in.	42-3/4	27-3/8	35-15/16	1-1/2	4-3/4	34-7/16	35-15/16
		mm	1086	695	913	38	121	875	913

			H Minimum Combustible Mantel Height at 12 Inch Mantel Depth (No Passive Heat)	I Minimum Combustible Mantel Height at 12 Inch Mantel Depth with Passive Heat Installed	J Bottom of Appliance to Top of Bottom Surround
MER36	MANOR36	in.	19	6	1-1/8
		mm	483	152	29
MER42	MANOR42	in.	19	6	1-1/8
		mm	483	152	29

Figure 3.2 Decorative Barrier Front Dimensions - MANOR

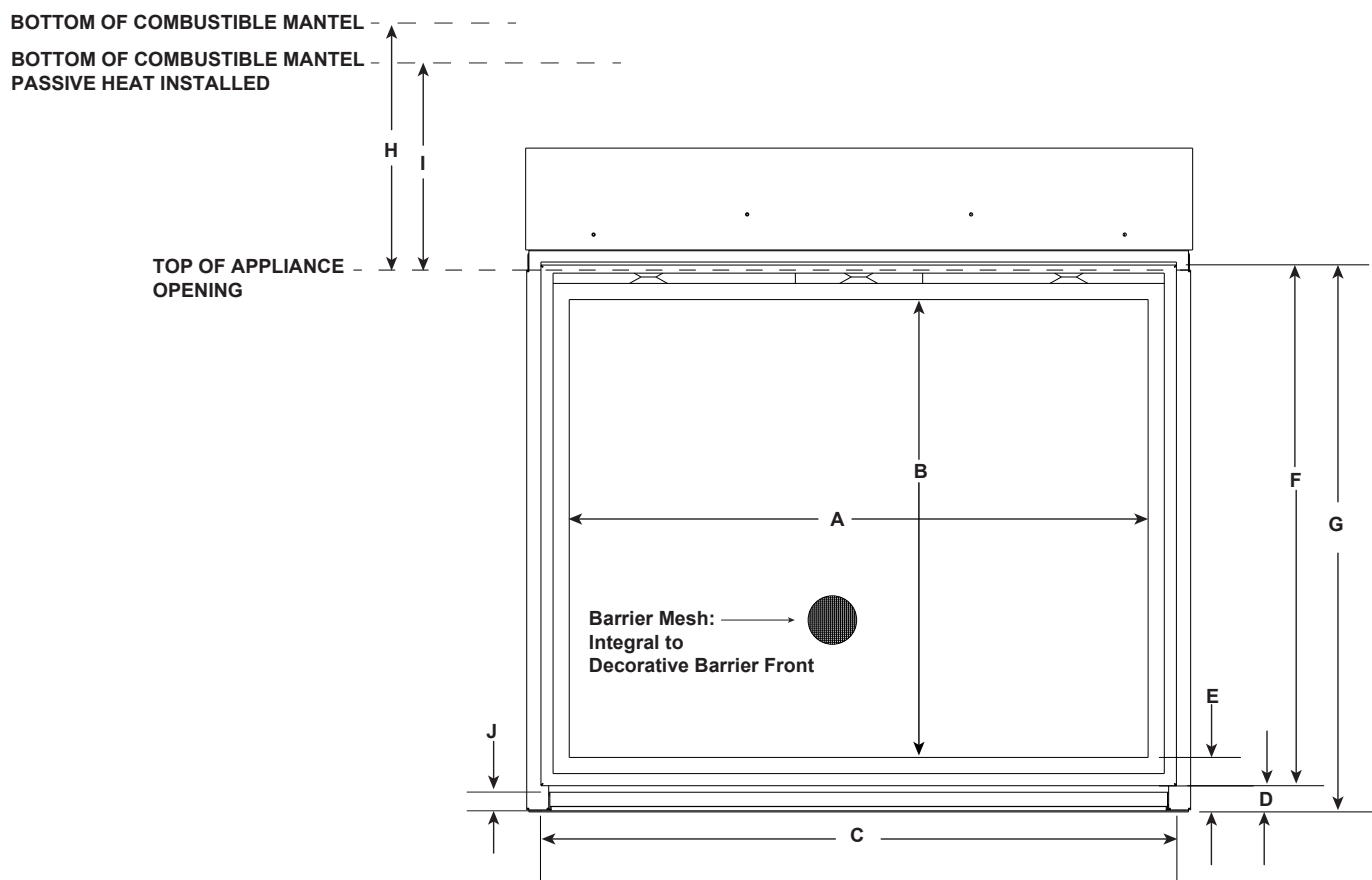
## ENSEMBLE DECORATIVE BARRIER FRONTS

**IMPORTANT!** This fireplace requires an installed decorative barrier front to prevent direct contact with the hot viewing glass. **DO NOT** operate the fireplace with the barrier removed.

Decorative barrier front must be ordered at time of fireplace purchase. If decorative barrier front is not present, contact dealer.

**WARNING! Risk of Overheating! DO NOT** install combustible or non-combustible flooring or hearth material above top of bottom surround. Gap between bottom of decorative front and top of bottom surround must be maintained for proper air flow.

**Note:** See Section 10 for hearth, mantel and finishing requirements, including complete information for combustible and non-combustible mantels.



			A	B	C	D	E	F	G
MER36	ENSEMBLE36	in.	35-13/16	28-5/16	39-5/16	1-9/16	3-5/16	32-7/16	34
		mm	910	719	999	40	84	824	864
MER42	ENSEMBLE42	in.	42-13/16	30-5/16	46-5/16	1-9/16	3-5/16	34-7/16	36
		mm	1087	770	1176	40	84	875	914

			H Minimum Combustible Mantel Height at 12 Inch Mantel Depth (No Passive Heat)	I Minimum Combustible Mantel Height at 12 Inch Mantel Depth with Passive Heat Installed	J Bottom of Appliance to Top of Bottom Surround
MER36	ENSEMBLE36	in.	19	6	1-1/8
		mm	483	152	29
MER42	ENSEMBLE42	in.	19	6	1-1/8
		mm	483	152	29

Figure 3.3 Decorative Barrier Front Dimensions - ENSEMBLE

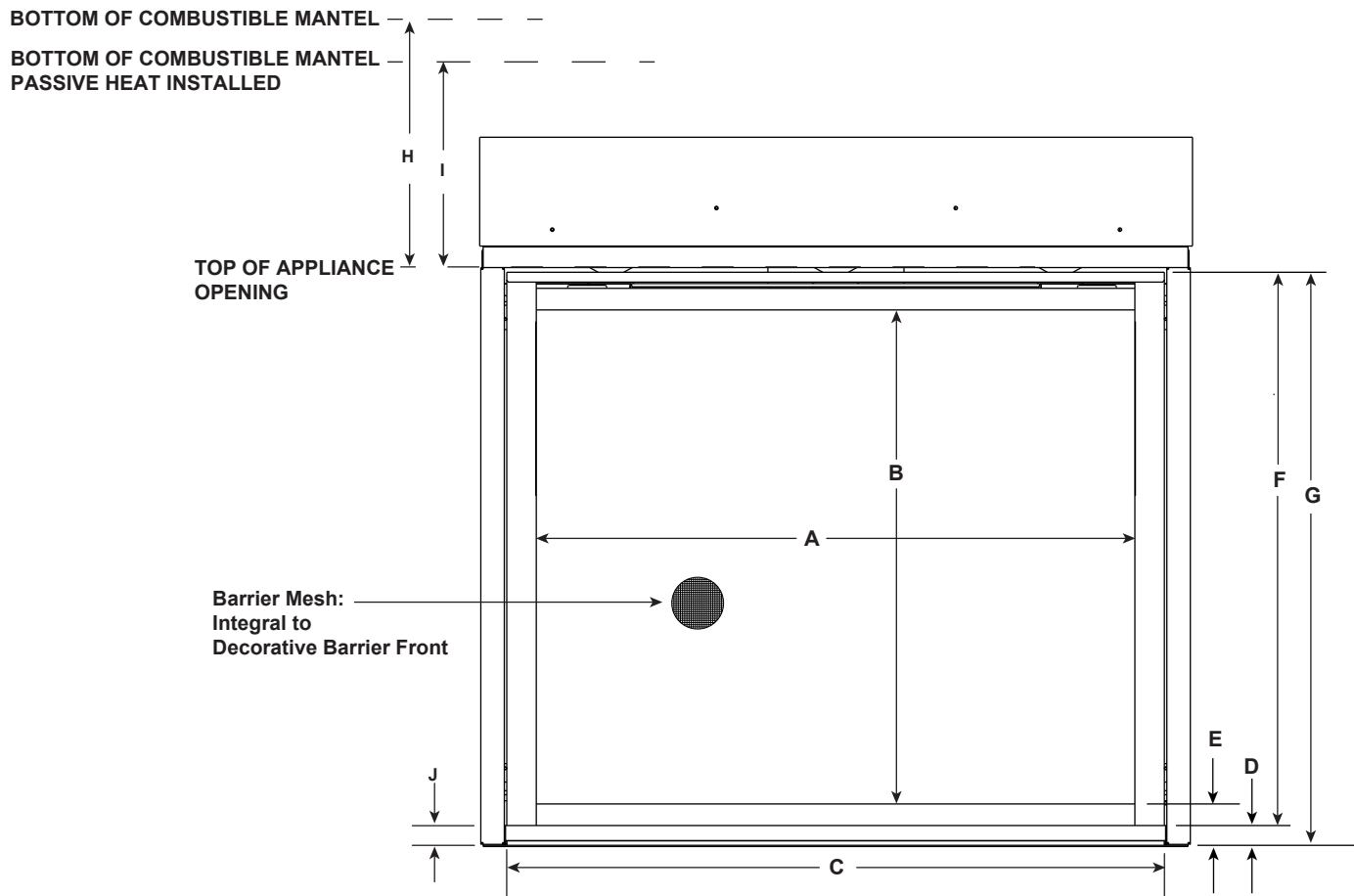
## ESSENCE DECORATIVE BARRIER FRONTS (MAJ)

**IMPORTANT!** This fireplace requires an installed decorative barrier front to prevent direct contact with the hot viewing glass. **DO NOT** operate the fireplace with the barrier removed.

Decorative barrier front must be ordered at time of fireplace purchase. If decorative barrier front is not present, contact dealer.

**WARNING! Risk of Overheating! DO NOT** install combustible or non-combustible flooring or hearth material above top of bottom surround. Gap between bottom of decorative front and top of bottom surround must be maintained for proper air flow.

**Note:** See Section 10 for hearth, mantel and finishing requirements, including complete information for combustible and non-combustible mantels.



			A	B	C	D	E	F	G
MER36	ESSENCE36BK	in.	34-11/16	28-11/16	38	1-3/8	2-5/8	32	33-3/8
		mm	881	729	965	35	67	813	848
MER42	ESSENCE42BK	in.	41-3/4	30-5/8	45-1/16	1-3/8	2-5/8	34	35-3/8
		mm	1061	778	1145	35	67	867	899

			H Minimum Combustible Mantel Height at 12 Inch Mantel Depth (No Passive Heat)	I Minimum Combustible Mantel Height at 12 Inch Mantel Depth with Passive Heat Installed	J Bottom of Appliance to Top of Bottom Surround
MER36	ESSENCE36BK	in.	19	6	1-1/8
		mm	483	152	29
MER42	ESSENCE42BK	in.	19	6	1-1/8
		mm	483	152	29

Figure 3.4 Decorative Barrier Front Dimensions - ESSENCE

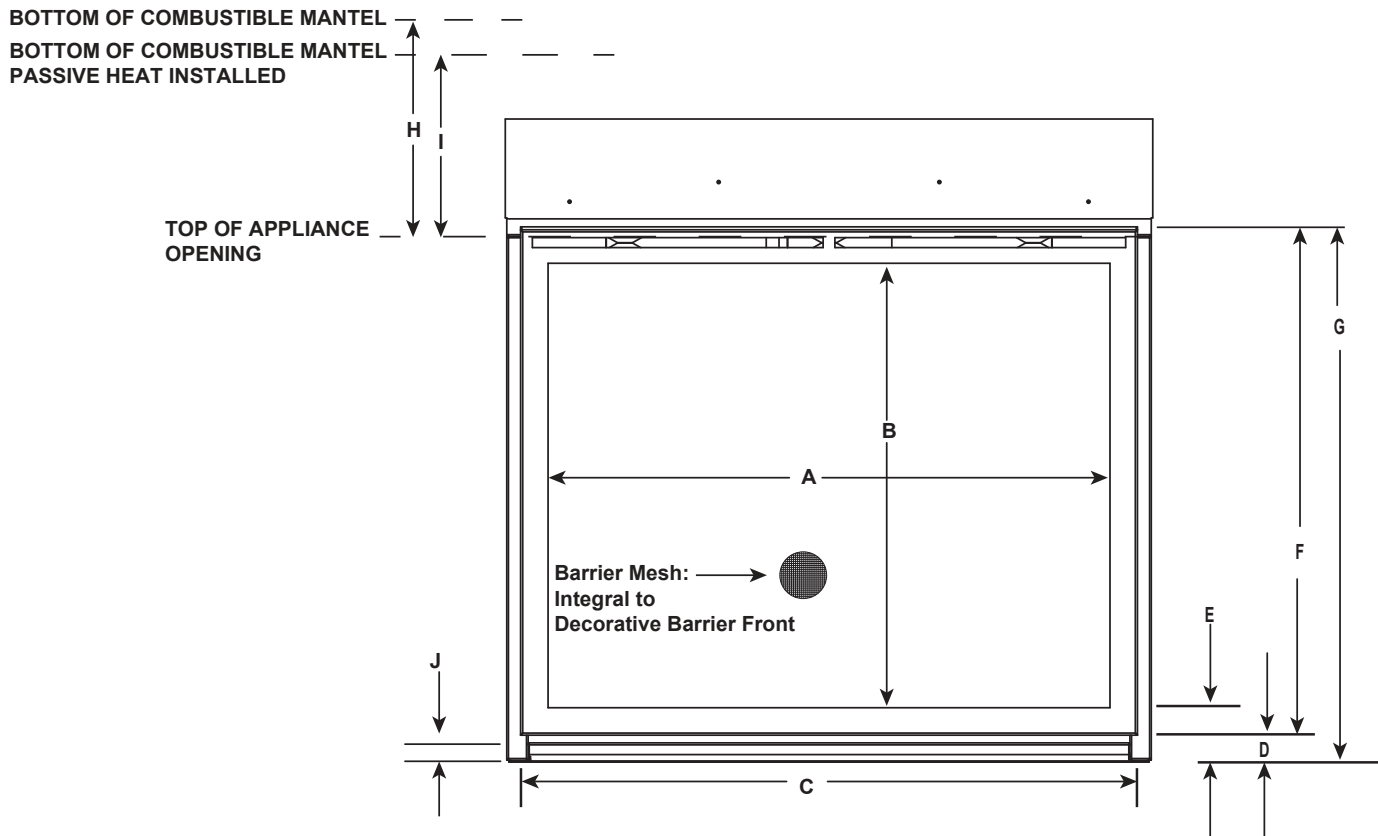
## VENTURA DECORATIVE BARRIER FRONTS

**IMPORTANT!** This fireplace requires an installed decorative barrier front to prevent direct contact with the hot viewing glass. **DO NOT** operate the fireplace with the barrier removed.

Decorative barrier front must be ordered at time of fireplace purchase. If decorative barrier front is not present, contact dealer.

**WARNING! Risk of Overheating! DO NOT** install combustible or non-combustible flooring or hearth material above top of bottom surround. Gap between bottom of decorative front and top of bottom surround must be maintained for proper air flow.

**Note:** See Section 10 for hearth, mantel and finishing requirements, including complete information for combustible and non-combustible mantels.



			A	B	C	D	E	F	G
MER36	VENTURA36	in.	35-13/16	28-5/16	39-5/16	1-9/16	3-5/16	32-7/16	34
		mm	910	719	999	40	84	824	864
MER42	VENTURA42	in.	42-13/16	30-5/16	46-5/16	1-9/16	3-5/16	34-7/16	36
		mm	1087	770	1176	40	84	875	914

			H Minimum Combustible Mantel Height at 12 Inch Mantel Depth (No Passive Heat)	I Minimum Combustible Mantel Height at 12 Inch Mantel Depth with Passive Heat Installed	J Bottom of Appliance to Top of Bottom Surround
MER36	VENTURA36	in.	19	6	1-1/8
		mm	483	152	29
MER42	VENTURA42	in.	19	6	1-1/8
		mm	483	152	29

Figure 3.5 Decorative Barrier Front Dimensions - VENTURA

### C. Appliance Location and Clearances to Combustibles

**WARNING! Risk of Fire or Burns!** Provide adequate clearance around air openings and for service access. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

When selecting a location for the appliance it is important to consider the required clearances to walls and allow sufficient clearance for heat management systems venting. Refer to Figure 3.6 for Heat-Zone-Gas and Heat-Out-Gas heat management systems.

Refer to Figures 3.11-3.13 for information regarding framing when the Passive Heat Kit is installed. Install the Passive Heat Kit per the instructions provided with the kit.

**NOTICE:** Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY. Illustrations/diagrams are not drawn to scale. Actual installation may vary due to individual design preference.

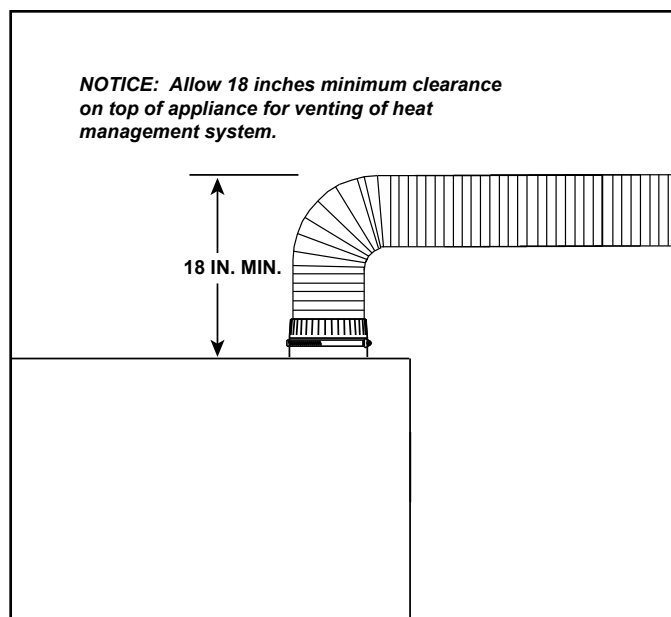


Figure 3.6 Clearance for Heat Management System

## Protected Outdoor Applications

**WARNING! Risk of Overheating!** Failure to follow instructions for outdoor installation could result in appliance overheating and/or damage to appliance and components.

This appliance is approved for use outdoors (outdoor rooms, patios, decks, three season rooms, freestanding structures, etc.) when protected from direct water impingement and when installed in accordance with the guidelines below.

- Overhang requirements must be applied to both the front and sides of the fireplace finished opening.
- Follow all product installation instructions; required clearances must be maintained with respect to the house wrap, wall, finishing material, and mantels.
- If the fireplace will be in contact with salt water spray or pool chemicals, then a fireplace model designed specifically for outdoor installation is recommended to avoid oxidation.
- Changes in surface finish due to outdoor environment may occur.
- When installed in areas prone to blowing and drifting snow, it is recommended that the covered area have screen sides.
- Follow all building codes, including those addressing fireplace penetration of an exterior building envelope.

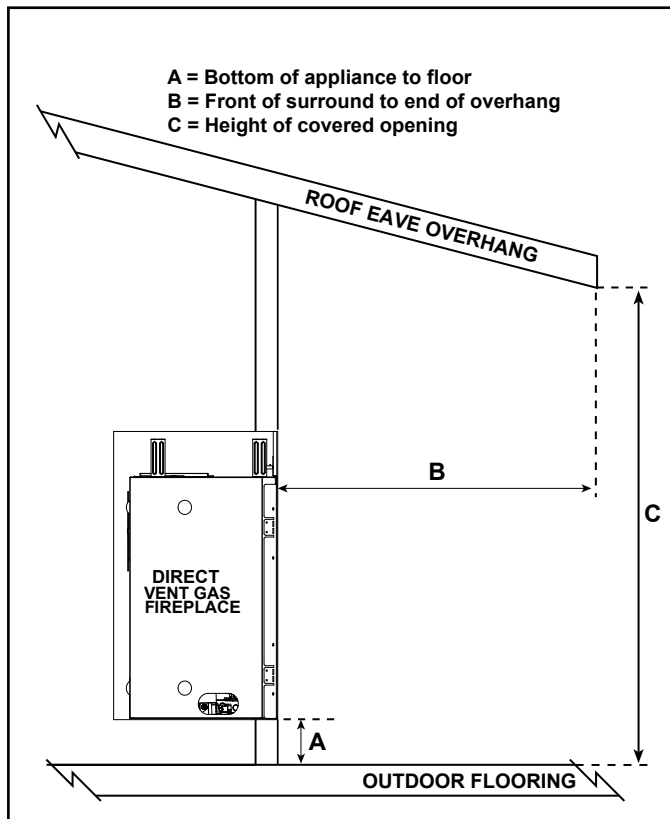


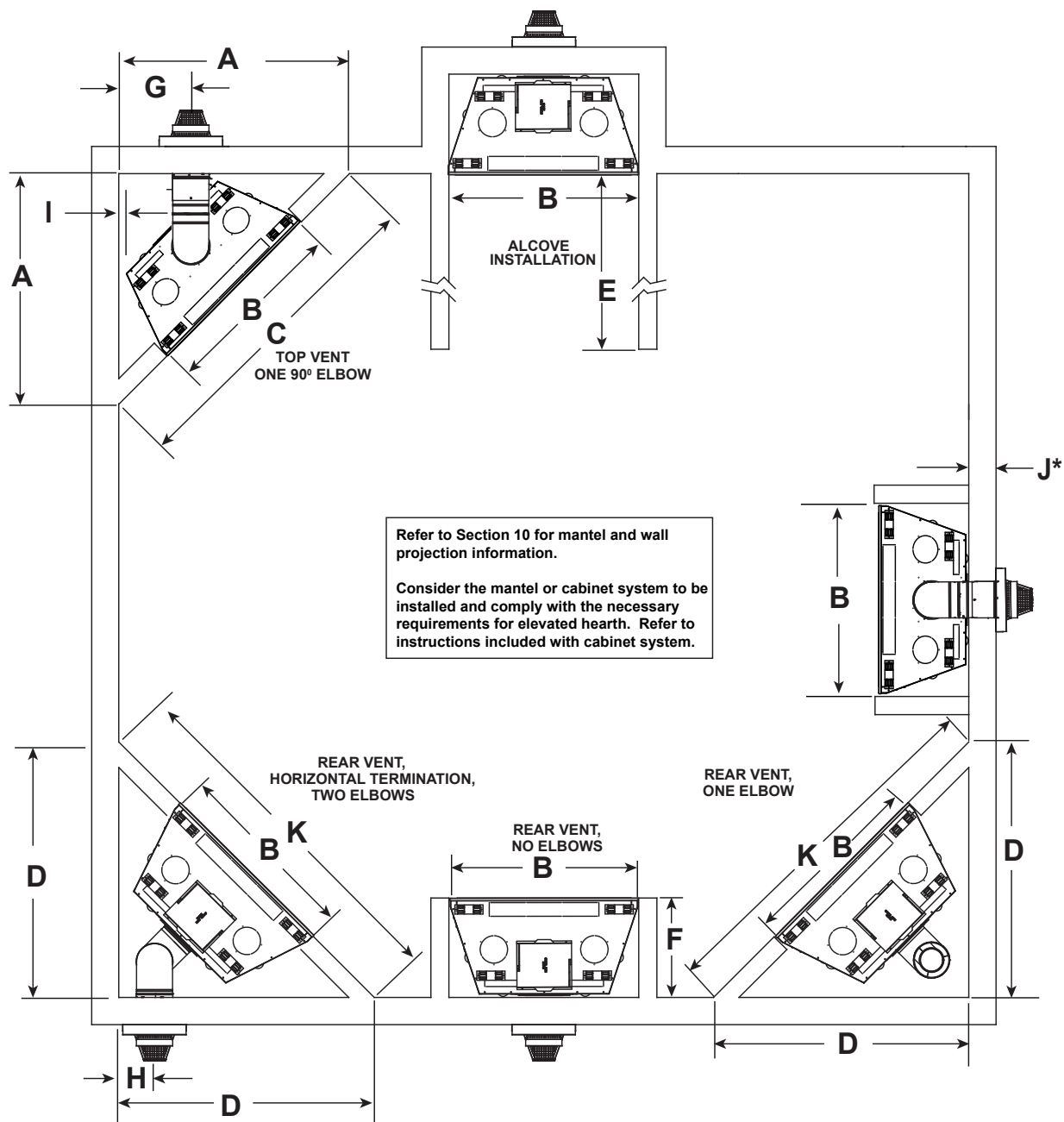
Figure 3.7 Protected Outdoor Applications - Dimensions

FORMULA MATRIX		
A	B	C
0-6 in.	Same as height of covered opening	Height of covered opening
6-12 in.	0.75 x height of covered opening	Height of covered opening
Greater than 12 in.	0.5 of height of covered opening	Height of covered opening

### For Example:

If the opening height (C) is 8 ft., and the distance from the bottom of the appliance to the floor is 12 in. (A), then the distance from the front of the surround to the end of the overhang (B) must be 6 ft. (0.75 x 8).

EXAMPLE MATRIX			
Minimum clearance examples for installing fireplace in covered area with two variables: 1. Bottom of the appliance to the floor 2. Front of the surround to the end of the overhang			
A	If height of opening is 8 ft	If height of opening is 9 ft	If height of opening is 10 ft
0-6 in.	8 ft.	9 ft.	10 ft.
6-12 in.	6 ft.	6-3/4 ft.	7-1/2 ft.
Greater than 12 in.	4 ft.	4-1/2 ft.	5 ft.



J\* = When exterior wall is constructed from 2 x 4 material, a termination cap with effective length equal to the DVP-TRAP1 is required. See Figure 3.9.

		A	B	C	D	E
MER36	IN.	51	42	72	56-5/8	See Section 10 Mantel Projections
	mm	1295	1067	1829	1438	
MER42	IN.	55-7/8	49	79	61-1/2	
	mm	1419	1245	2007	1562	

		F	G	H	I	J*	K
MER36	IN.	22	17-3/4	8	1/2	For terminations through a 2 x 4 wall, see Figure 3.9.	80-1/8
	mm	559	451	203	13		2035
MER42	IN.	22	19-3/4	10	1/2		87
	mm	559	502	254	13		2210

Figure 3.8 Appliance Locations

## Top Vent DVP-TRAP1 Exception

For installations that are top vented and horizontally terminated with a 90 degree elbow directly off the appliance and minimum vent run, a termination cap with effective length equal to the DVP-TRAP1 is **REQUIRED**. Interior and exterior wall sheathing 1/2 inch thick and 2 X 4 exterior wall studs are also assumed for this scenario.

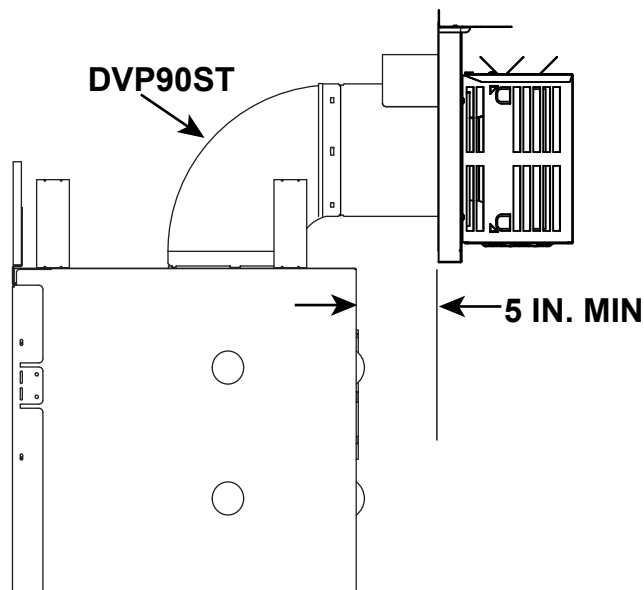
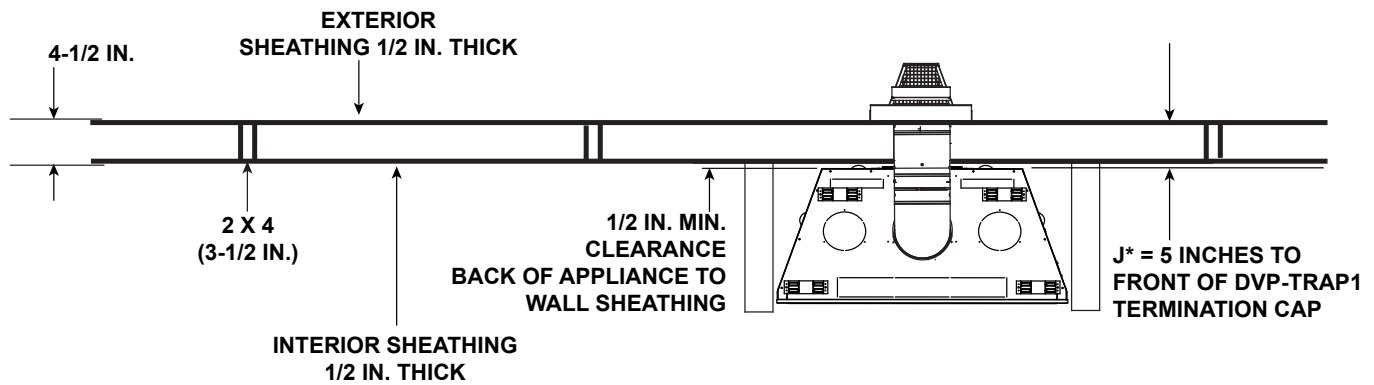
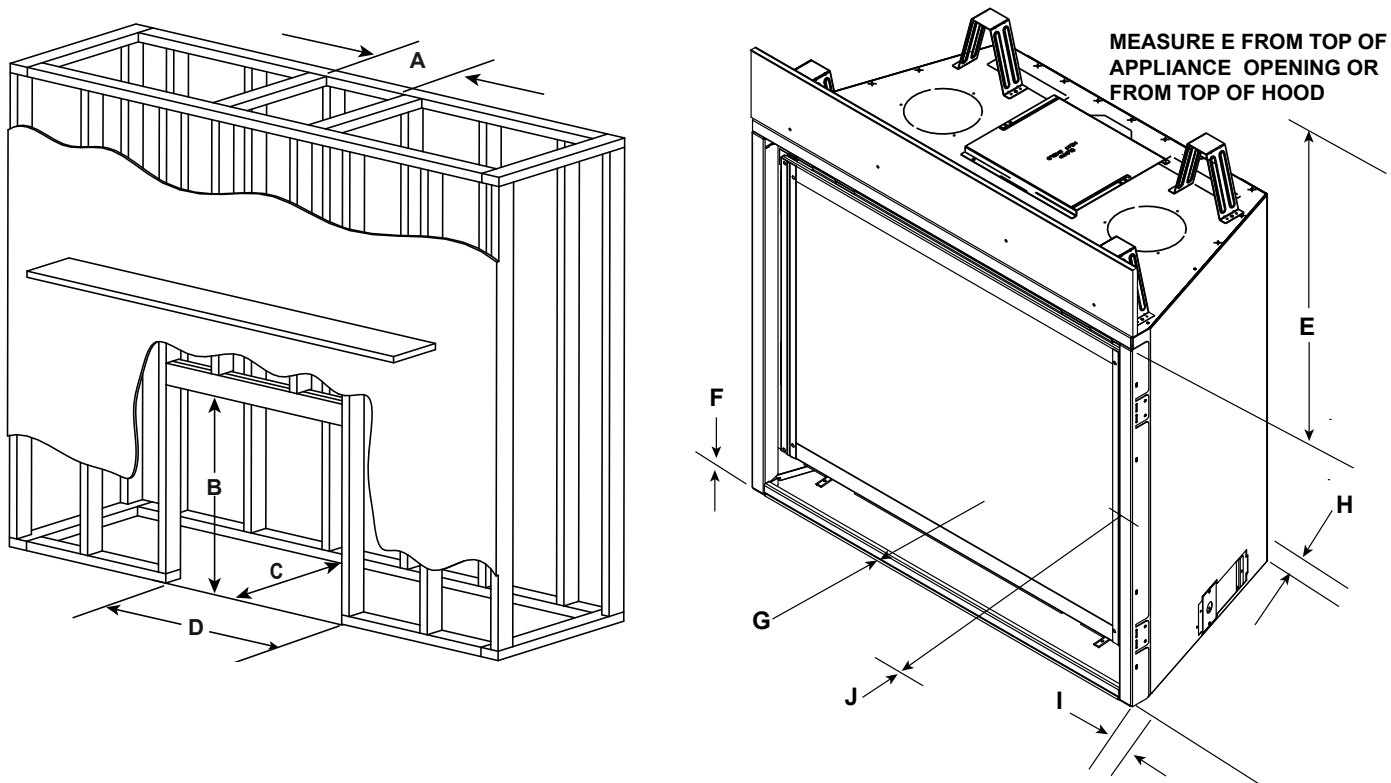


Figure 3.9 DVP-TRAP1 Exception (2 x 4 Construction)





**Note: E and K will change if passive heat is installed.**

		<b>* MINIMUM FRAMING DIMENSIONS</b>							
		<b>A</b>	<b>B</b>	<b>C**</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G***</b>	<b>H</b>
		Rough Opening (Vent Pipe)	Rough Opening (Height)	Rough Opening (Depth)	Rough Opening (Width)	Clearance to Room Ceiling	Combustible Floor	Minimum Hearth Required	Behind Appliance
MER36	Inches	10	40-1/8	22	42	32	0	0	1/2
	Millimeters	254	1019	559	1067	813	0	0	13
MER42	Inches	10	42-1/8	22	49	32	0	0	1/2
	Millimeters	254	1070	559	1245	813	0	0	13

		<b>* MINIMUM FRAMING DIMENSIONS</b>	
		<b>I</b>	<b>J</b>
		Sides of Appliance	Front of Appliance
MER36	Inches	1/2	36
	Millimeters	13	914
MER42	Inches	1/2	36
	Millimeters	13	914

\* Adjust framing dimensions for interior chase sheathing (such as sheetrock).

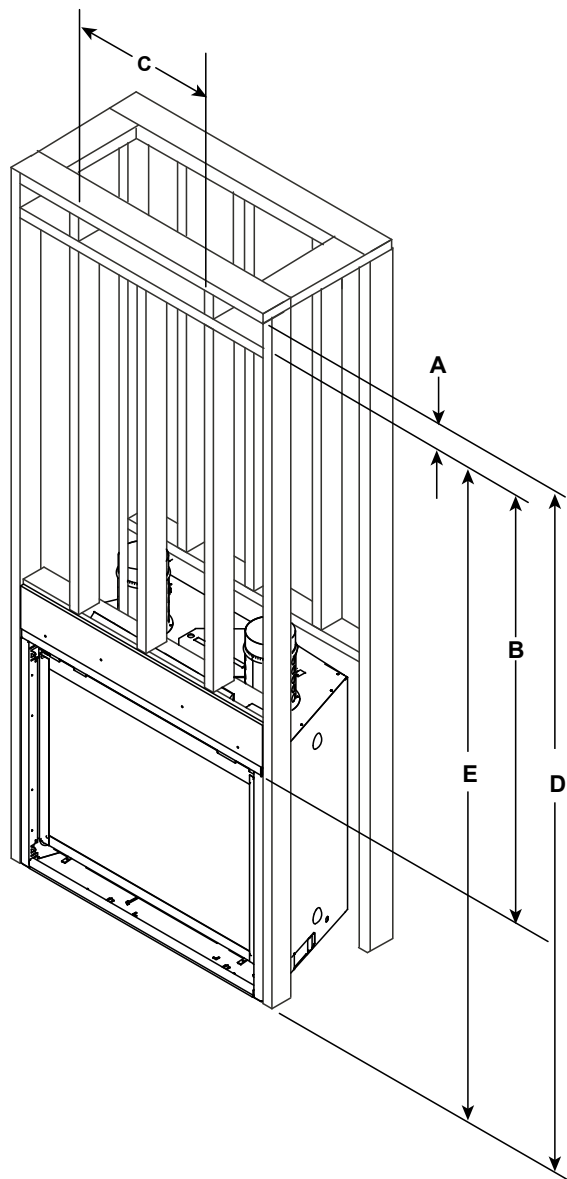
C\*\* Add 12 inches for rear venting with one 90 degree elbow.

G\*\*\* For installations with vinyl flooring, see Section 3.E.

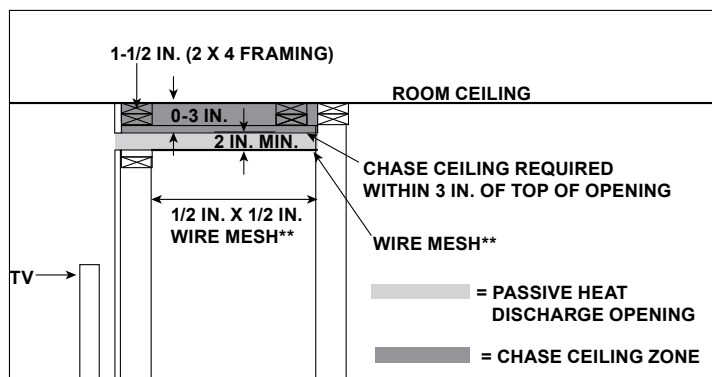
**Figure 3.10 Clearances to Combustibles**

## Framing Dimensions- Passive Heat Front Discharge (PH-MR)

**Front Discharge:** Air conveyed into the room through one front discharge slot.



### CHASE DETAIL



**WARNING! Risk of Fire!** Wire mesh required on bottom of discharge opening (Dimension A) when finished discharge opening is greater than 3 inches. Secure mesh to top of framing.

### FRONT DISCHARGE MINIMUM FRAMING DIMENSIONS

		A		B	C	D	E
		TRIM KIT* INSTALLED	NO TRIM KIT**				
		Required Height of Discharge Opening	Height of Discharge Opening				
MER36	Inches	3-1/2	2	41	36-1/2	76-1/2	74-1/2
	millimeters	89	51	1041	927	1943	1892
MER42	Inches	3-1/2	2	41	42-1/2	78-1/2	76-1/2
	millimeters	89	51	1041	1080	1994	1943

\* Measurement for Trim Kit = 3-1/2 in. + Additional Finishing Material Thickness.

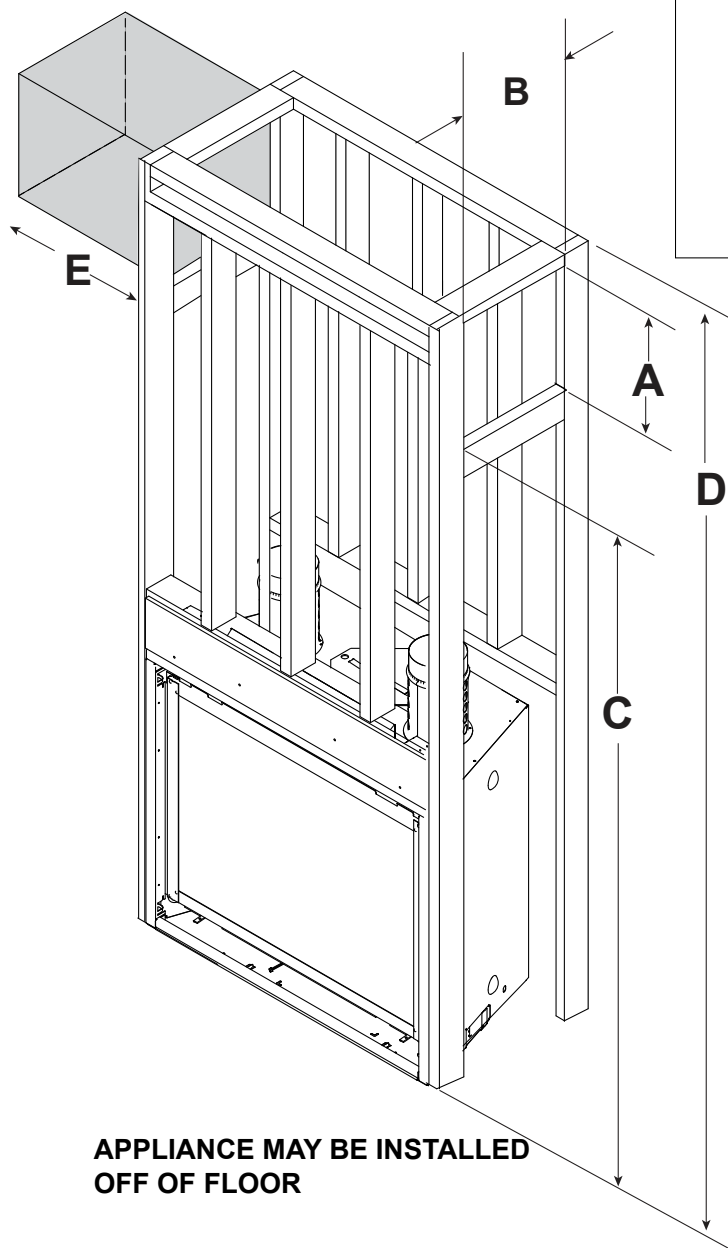
\*\* Measurement without Trim Kit = 2 in. + Additional Finishing Material Thickness. If finished discharge opening height is greater than 3 inches, wire mesh is required.

Figure 3.11 Passive Heat Front Discharge Framing Dimensions With and Without a Trim Kit

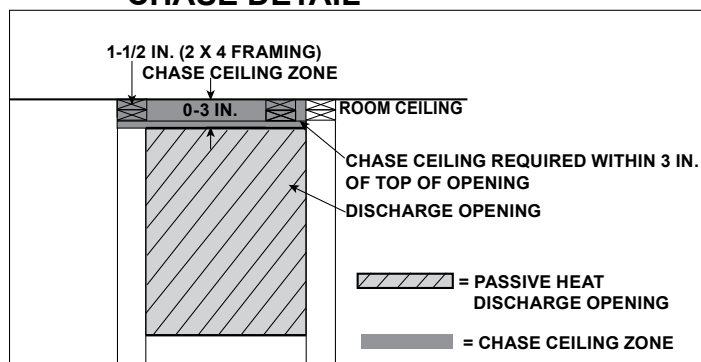
## Framing Dimensions - Passive Heat Side Discharge (PH-MR)

**Side Discharge:** Air conveyed into the room through two discharge registers, one on each side of appliance.

**WARNING! Risk of Fire! DO NOT** place combustible objects or combustible materials in non-combustible zone. Appliance and combustible materials will overheat.



### CHASE DETAIL



### SIDE DISCHARGE FRAMING DIMENSIONS

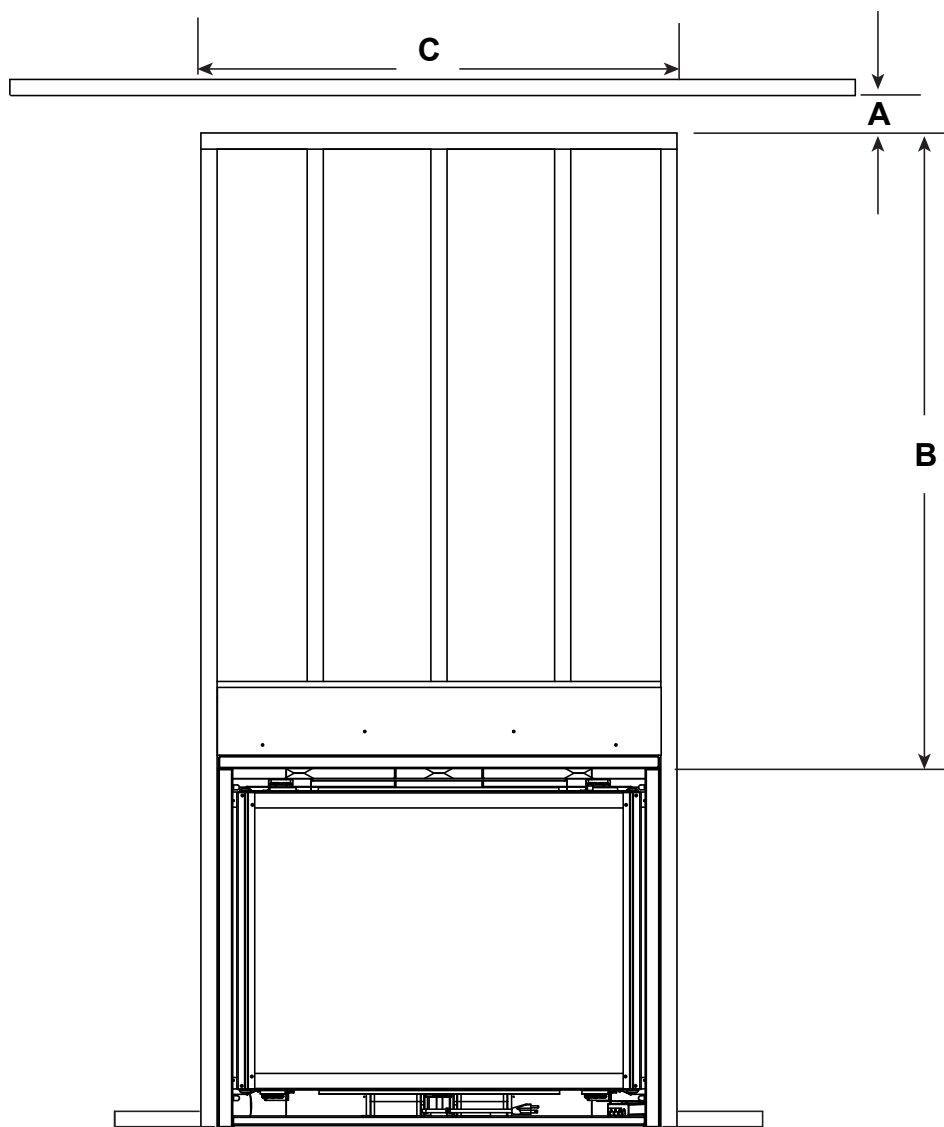
		A	B	C	D	E
		Height of Discharge Opening	Width of Discharge Opening	Minimum Clearance to Discharge Opening From Bottom of Appliance	Minimum Clearance to Ceiling from Bottom of Appliance	Minimum Clearance to Combustible Materials
MER36 MER42	Inches	12-1/4	8-3/4	68-1/4	83-1/2	18
	millimeters	311	222	1734	2121	457

Figure 3.12 Passive Heat Side Discharge Framing Dimensions

## Framing Dimensions - Passive Heat Open Top Discharge (PH-MR)

**Open Top Discharge:** Both sides and the top are open allowing air to be conveyed into the room.

**WARNING! Risk of Fire!** Mesh screen required on bottom of discharge opening when discharge opening is greater than 3 inches. Secure mesh to top of framing.



OPEN TOP DISCHARGE MINIMUM FRAMING DIMENSIONS				
		A*	B	C
		Height of Discharge Opening	Clearance to Discharge Opening	Width of Discharge Opening
MER36	Inches	2	41	36-1/2
	millimeters	51	1041	927
MER42	Inches	2	41	42-1/2
	millimeters	51	1041	1080

\* Mesh screen required for front discharge or open top discharge passive heat installations with discharge opening of 3 inches or greater.

**Figure 3.13 Passive Heat Minimum Framing Dimensions Open Top Discharge**

## D. Constructing the Appliance Chase

**NOTICE:** Install appliance on hard metal or wood surfaces extending full width and depth. **DO NOT** install directly on carpeting, vinyl, or any combustible material other than wood.

**WARNING! Risk of Fire!** Maintain specified air space clearances to appliance and vent pipe:

- Insulation and other materials must be secured to prevent accidental contact.
- The chase must be properly blocked to prevent blown insulation or other combustibles from entering and making contact with fireplace or chimney.
- Failure to maintain airspace may cause overheating and a fire.

A chase is a vertical box-like structure built to enclose the gas appliance and/or its vent system. In cooler climates the vent should be enclosed inside the chase.

**NOTICE:** Treatment of ceiling firestops and wall shield firestops and construction of the chase may vary with the type of building. These instructions are not substitutes for the requirements of local building codes. Therefore, you **MUST** check local building codes to determine the requirements to these steps.

**NOTICE:** Where required by code, install only sprinkler heads with a sprinkler activation temperature classified as **Extra High**.

- Sprinklers inside of chase: Keep sprinkler head away from vent and chimney.
- Heat Management applications: Maintain 36 inches of clearance to openings from which heat is discharged such as convection slots, passive heat registers, heat zone registers, etc. Refer to Section 6.B for Heat Management options allowed for this appliance.

Chases should be constructed and insulated in the same manner as the thermal envelope of the home based on the code requirements for that climate zone to prevent air leakage and draft problems. The chase is an extension of the building thermal envelope.

To further prevent drafts and air leakage, the wall shield and ceiling firestops should be sealed with caulk with a minimum of 300 °F continuous exposure rating to seal gaps. Gas line holes and other openings should be sealed with caulk with a minimum of 300 °F continuous exposure rating or stuffed with unfaced insulation. If the appliance is being installed on a cement surface, a layer of plywood may be placed underneath to prevent conducting cold up into the room.

Minimum height requirements for an exterior chase on a top-vented appliance are shown in Figure 3.14. Reference Figure 4.5 for additional clearances.

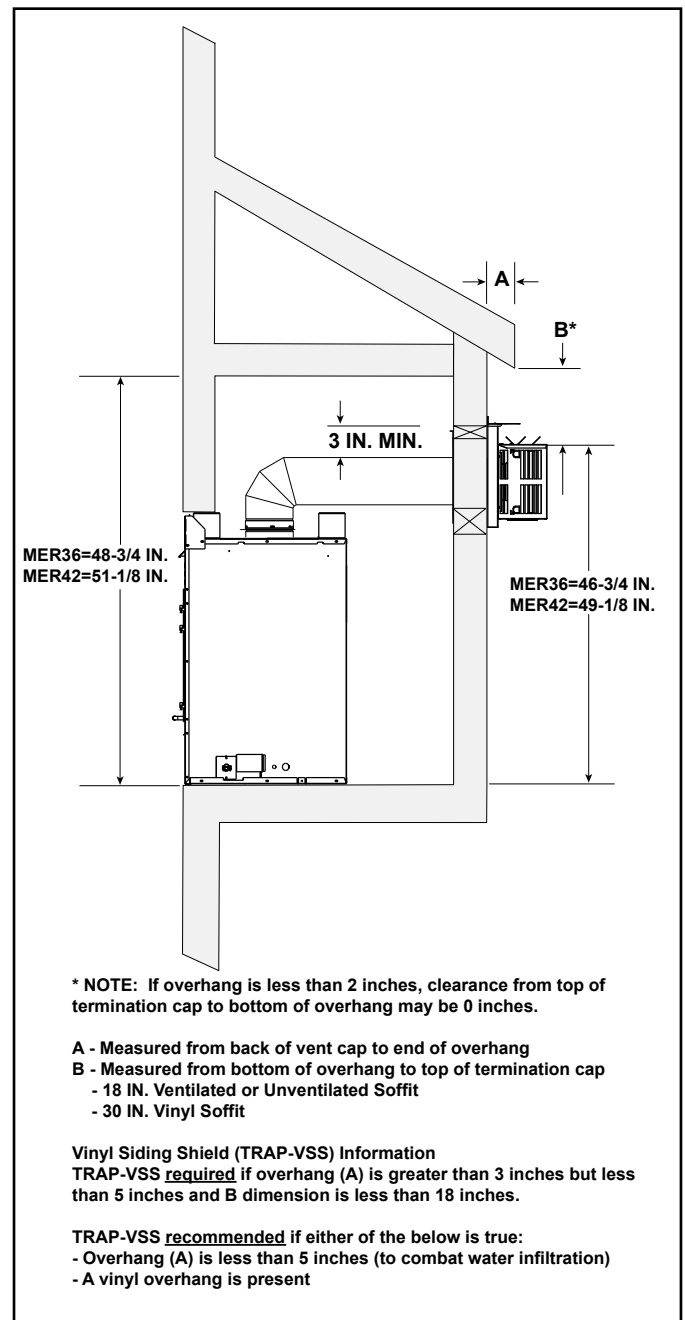


Figure 3.14 Exterior Chase - Minimum Height Requirements

## E. Floor Protection

### Vinyl Flooring

Vinyl flooring is sensitive to heat. Hearth and Home Technologies does not recommend adhesive based vinyl flooring due to thermal expansion. Floating-style flooring can be used, but will reach temperatures up to 110 °F in a room with ambient temperature of 70 °F. Consult flooring specifications to ensure compatibility.

***WARNING! Risk of Overheating! DO NOT install combustible or non-combustible flooring or hearth material above top of bottom surround. Air flow must be maintained.***

- Flooring and hearth material is allowed up to, but not above, the top of the bottom surround in order to allow for proper air flow from appliance. See Figure 3.15.
- The base of the fireplace may sit on a combustible surface.

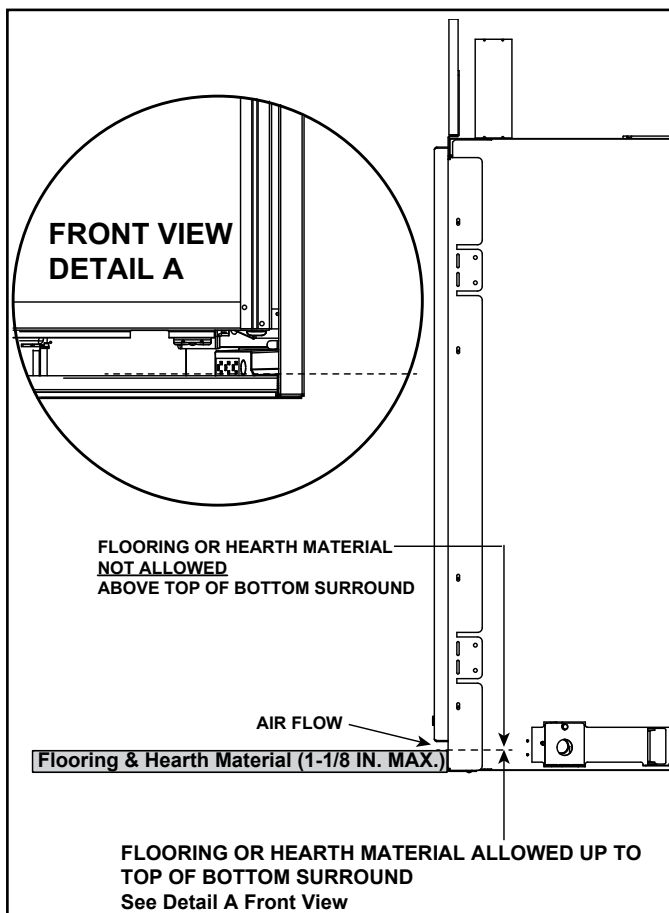


Figure 3.15 Flooring & Hearth Material Allowed

# 4 Termination Location and Vent Information

## A. Approved Pipe

**WARNING! Risk of Fire, Delayed Ignition or Asphyxiation.** This appliance requires a separate vent. **DO NOT** vent to a pipe serving any other appliance.

This appliance is only approved for use with Hearth & Home Technologies DVP or SLP venting systems. Refer to Vent Components document included in manual bag for vent component information and dimensions. Only use listed decorative termination caps/shrouds with Hearth & Home Technologies approved venting systems.

**DO NOT** mix pipe, fittings or joining methods from different manufacturers.

The pipe is tested to be run inside an enclosed wall. There is no requirement for inspection openings at each joint within the wall.

## B. Vent Termination Minimum Clearances

### ⚠ WARNING

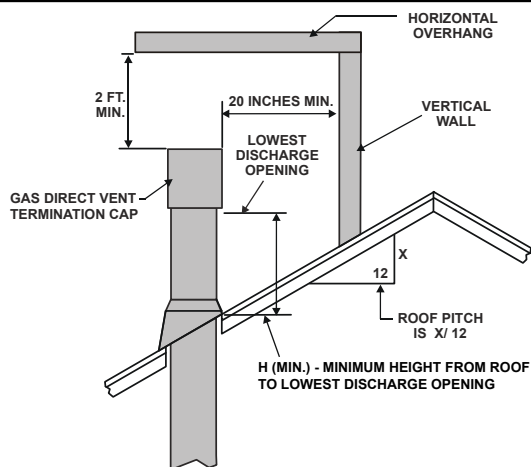


Fire Risk.

Maintain vent clearance to combustibles as specified.

- **DO NOT** pack air space with insulation or other materials.

Failure to keep insulation or other materials away from vent pipe could cause overheating and fire.

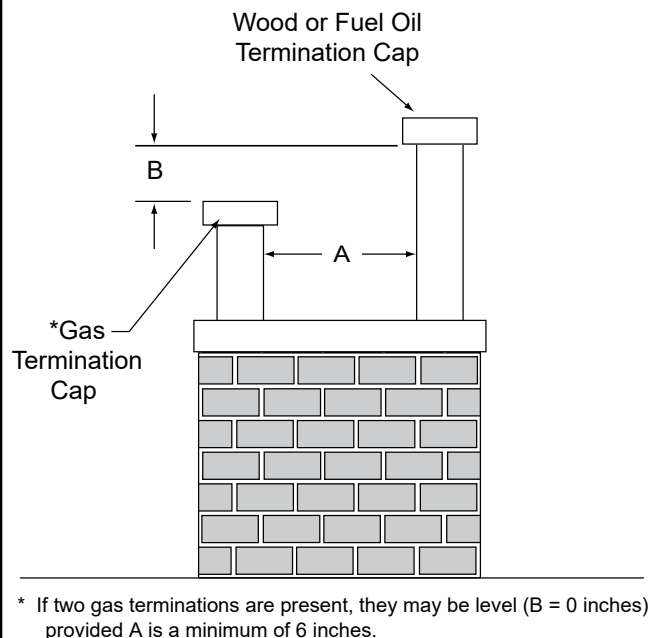


Roof Pitch	H (Min.) Ft
Flat to 6/12.....	1.0*
Over 6/12 to 7/12.....	1.25*
Over 7/12 to 8/12.....	1.5*
Over 8/12 to 9/12.....	2.0*
Over 9/12 to 10/12.....	2.5*
Over 10/12 to 11/12.....	3.25
Over 11/12 to 12/12.....	4.0
Over 12/12 to 14/12.....	5.0
Over 14/12 to 16/12.....	6.0
Over 16/12 to 18/12.....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

\* H minimum may vary depending on regional snowfall. Refer to local codes.

**Figure 4.1 Minimum Height From Roof to Lowest Discharge Opening**

A	B
6 in. (minimum) up to 20 in. 152 mm/508 mm	18 in. minimum 457 mm
20 in. and over	0 in. minimum



**Figure 4.2 Staggered Termination Caps**

**CAUTION! Risk of Burns!** Termination caps are HOT, consider proximity to doors, traffic areas or where people may pass or gather (sidewalk, deck, patio, etc.). Listed cap shields available. Contact your dealer.

- Local codes or regulations may require different clearances.
- Hearth & Home Technologies assumes no responsibility for the improper performance of the appliance when the venting system does not meet these requirements.
- Vinyl protection kits are suggested for use with vinyl siding.
- Measure horizontal and vertical termination cap clearances as noted in Figure 4.3 and 4.4.

## B. Vent Termination Minimum Clearances (continued)

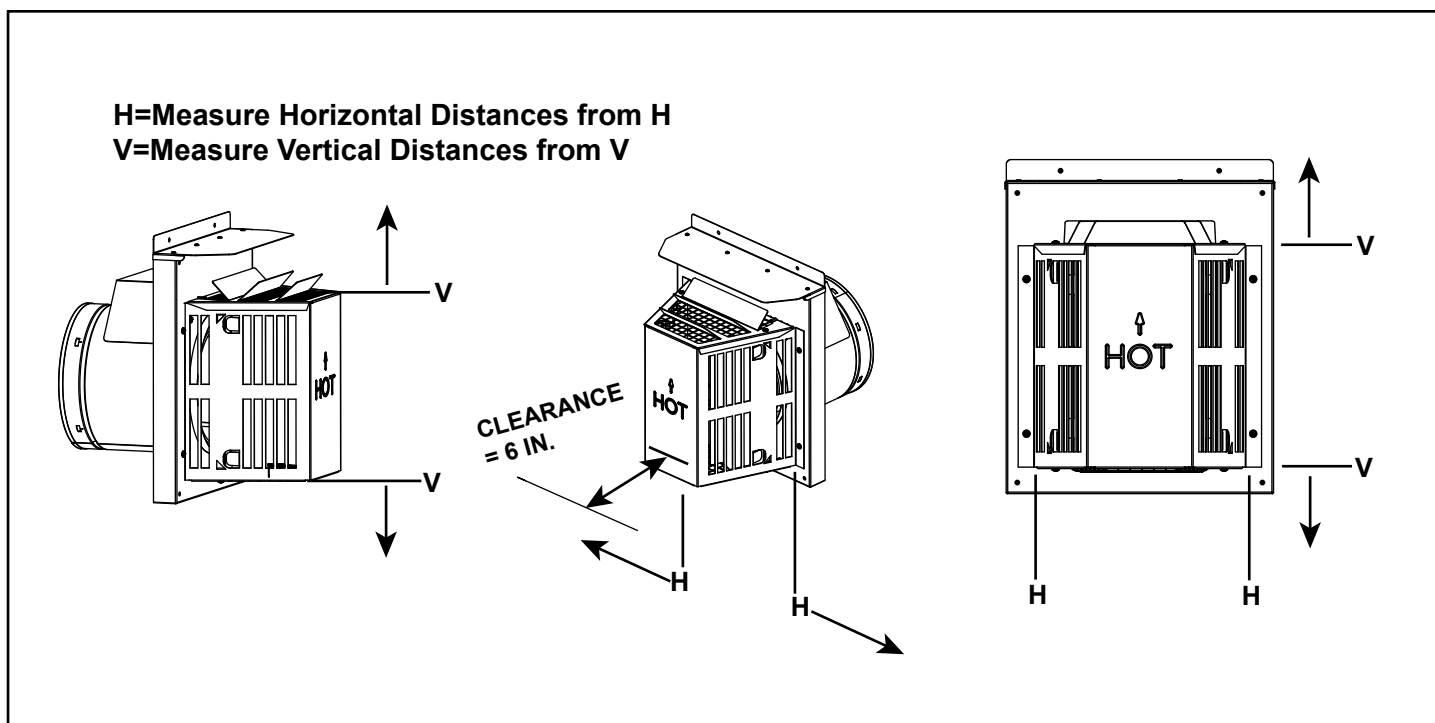


Figure 4.3

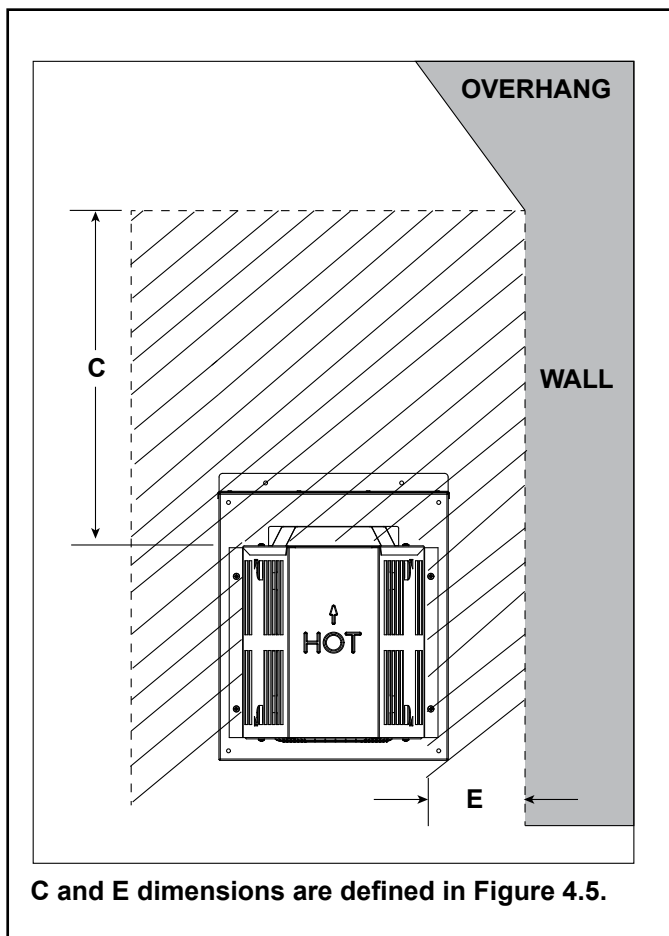
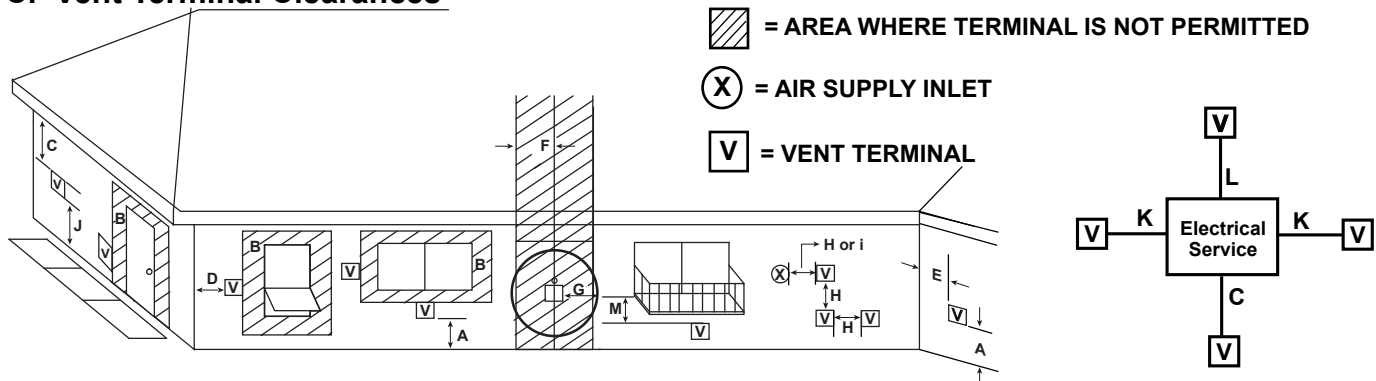


Figure 4.4 Measure Horizontal and Vertical Termination Clearance to Trapezoid Portion of Cap



## C. Vent Terminal Clearances



**U.S.A. Installations:** In accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code.

**Canadian Installations:** In accordance with the current CSA B149.1, Natural Gas and Propane Installation Code.

			U.S.A.	CANADA
A	Clearance above grade, veranda, porch, deck, balcony or roof.		12 in. (305 mm)	12 in. (305 mm)
B	Clearance to window or door that may be opened, or to permanently closed window		9 in. min. (229 mm min.)	12 in. min. (305 mm min.)
C	clearance below unventilated soffit	With TRAP-VSS: 14 in. (356 mm)	18 in. (457 mm)	18 in. (457 mm)
	clearance below ventilated soffit	With TRAP-VSS: 14 in. (356 mm)	18 in. (457 mm)	18 in. (457 mm)
	clearance below any vinyl soffits and electrical service	With TRAP-VSS: 26 in. (660 mm)	30 in. (762 mm)	30 in. (762 mm)
D	clearance to outside corner		6 in. (152 mm)	6 in. (152 mm)
E	clearance to inside corner		6 in. (152 mm)	6 in. (152 mm)
F	clearance to each side of center line extended above gas meter/regulator assembly		Clearance in accordance with local installation codes and the requirements of the gas supplier.	3 ft (914 mm) within a height 15 ft (4.5 m) above the meter/regulator assembly
G	clearance to gas service regulator vent outlet		3 ft (914 mm)	3 ft (914 mm)
H	clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance termination (mechanical or non-mechanical)		9 in. min. (229 mm min.)	12 in. min. (305 mm min.)
I	clearance to a mechanical (powered) air supply inlet *** (All mechanical air intakes within 10 feet of a horizontal termination cap must be a minimum of 3 feet below termination.)		3 ft (914 mm)***	6 ft (1.8 m)
J	On <b>public</b> property: clearance above paved sidewalk or a paved driveway.		7 ft (2.1 m)	7 ft (2.1 m)**
	** (A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.)			
K	clearance from sides of electrical service		6 in. (152 mm)	6 in. (152 mm)
	Location of the vent termination must not interfere with access to the electrical service.			
L	clearance above electrical service		12 in. (305 mm)	12 in. (305 mm)
	Location of the vent termination must not interfere with access to the electrical service.			
M	clearance under veranda, porch, deck, balcony or overhang * (Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.)	With TRAP-VSS: 14 in. (356 mm)	18 in. (457 mm)	18 in.* (457 mm)*
	vinyl or composite overhang		42 in. (1067 mm)	42 in. (1067 mm)

**Figure 4.5 Minimum Clearances for Termination**

## D. Use of Elbows

Diagonal runs have both vertical and horizontal vent aspects when calculating the effects. Use the rise for the vertical aspect and the run for the horizontal aspect. See Figure 4.6.

Two 45° elbows may be used in place of one 90° elbow. On 45° runs, one foot of diagonal is equal to 8-1/2 inch (216 mm) horizontal run and 8-1/2 inch (216 mm) vertical run. A length of straight pipe is allowed between two 45° elbows. See Figure 4.6.

Figure 4.7 shows the vertical and horizontal offsets for DVP or SLP elbows.

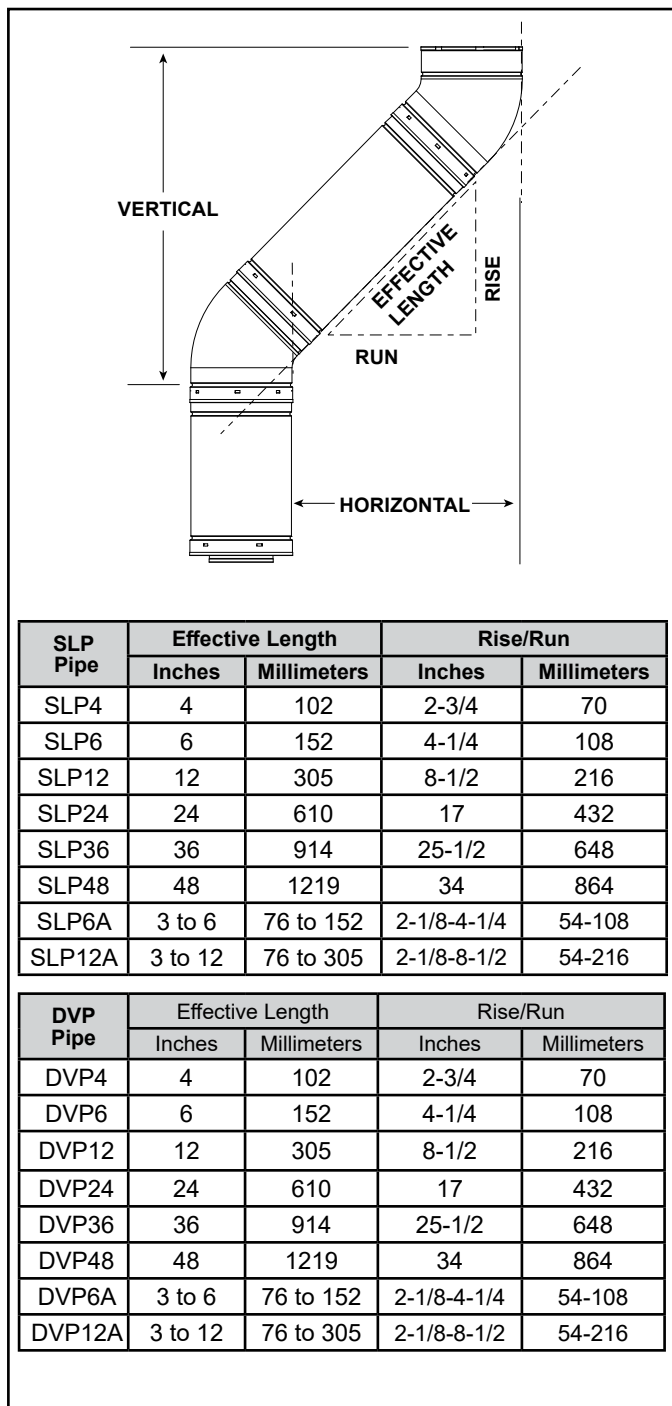


Figure 4.6

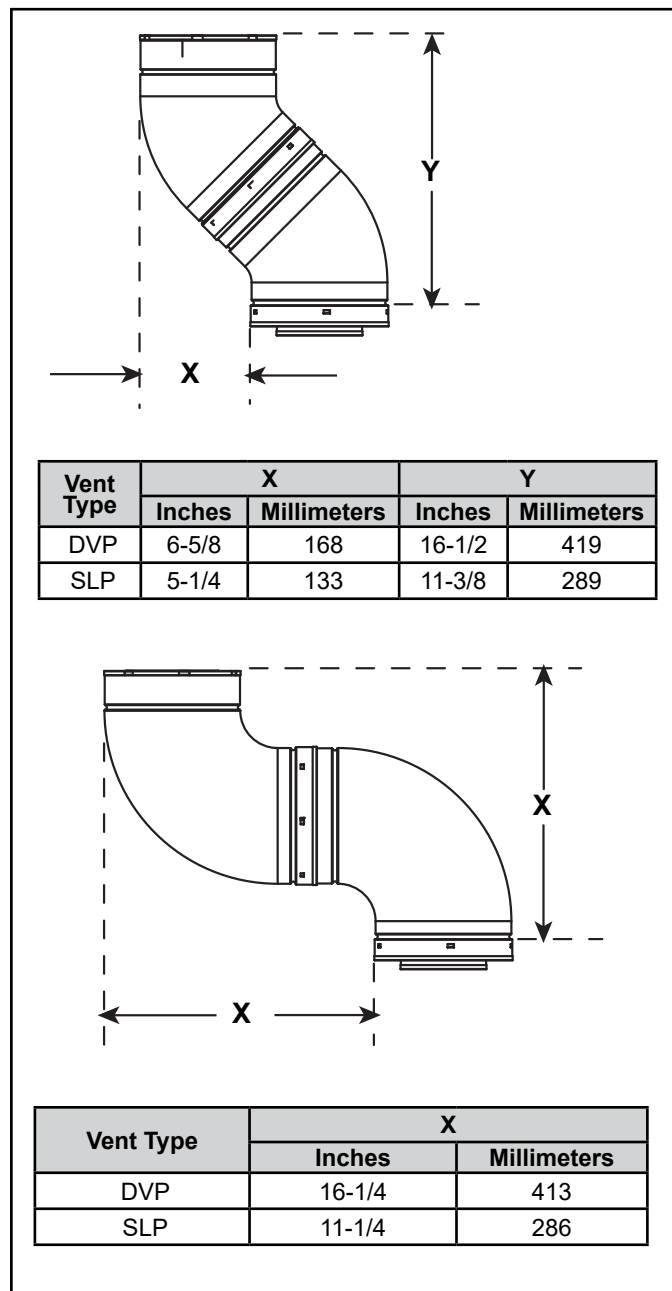


Figure 4.7 Vertical and Horizontal Offset for DVP and SLP Elbows

## E. Vent Diagrams

### General Rules:

- When penetrating a combustible wall, a wall shield firestop must be installed.
- When penetrating a combustible ceiling, a ceiling firestop must be installed.
- Horizontal runs of vent do not require vertical rise; horizontal runs may be level.
- It is recommended that the horizontal termination cap have a 1/4 inch downward slant to allow any moisture in cap to be released. See Figure 4.8.

If venting configuration differs from the vent diagrams on the following pages (Figure 4.11-4.27), these rules also apply:

- SUBTRACT 3 ft from the total H measurement for each 90° elbow installed horizontally.
- SUBTRACT 1-1/2 ft from the total H measurement for each 45° elbow installed horizontally.
- A maximum of three 90° elbows (or six 45° elbows) may be used in any vent configuration. Some elbows may be installed horizontally. See Figure 4.19.
- Elbows may be placed back to back anywhere in the system.
- Any 90° elbow may be replaced with two back to back 45° elbows.
- 2 x 45° elbow jog directly off the top of the fireplace is allowed but has no V or H value, is permitted when reducing to SLP pipe, and DOES NOT count towards total elbow count.

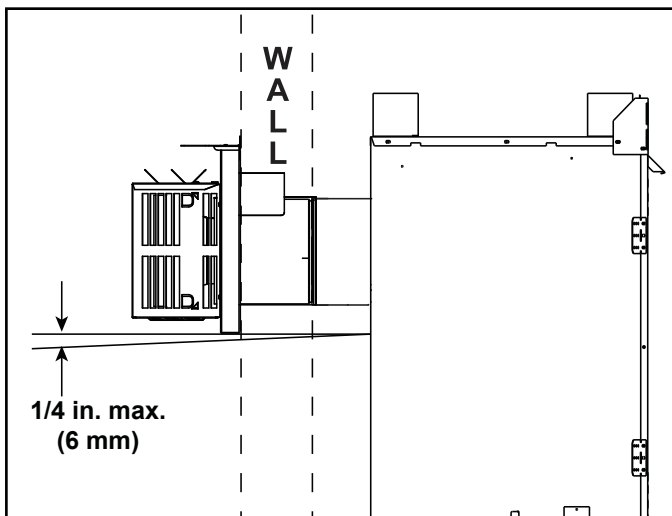


Figure 4.8

### ⚠ WARNING



Fire Risk. Explosion Risk.

Do NOT pack insulation or other combustibles between ceiling firestops.

- ALWAYS maintain specified clearances around venting and firestop systems.



- Install wall shield and ceiling firestops as specified.

Failure to keep insulation or other material away from vent pipe may cause fire.

### ⚠ WARNING



Fire Risk.

- When using DVP-HRC-SS and DVP-HRC-ZC-SS termination caps on top vented fireplaces, a 6 inch minimum vertical vent section is required before installing first elbow.

### Note: The MER36 / MER42 series models can adapt to SLP series vent pipe, if desired.

A DVP-2SL adapter and a minimum 48 inch vertical section of SLP series vent pipe must be used.

A DVP-SLP24 adapter may also be used with a 24 inch vertical section of SLP series vent pipe.

After the 48 inch vertical section, the venting table rules must be followed. The first 48 inch **vertical** section is NOT counted as part of the vertical components in the table. It is still counted as part of the overall maximum run. All venting table rules for the vent run must still be followed.

**Example:** DVP pipe 1 ft. min. vertical = 11 ft. max. horizontal  
SLP pipe 5 ft. min. vertical = 11 ft. max. horizontal

### Measuring Standards:

Vertical and horizontal measurements listed in the vent diagrams and clearances for termination were made using the following standards:

- Pipe measurements are shown using the effective length of pipe. See Vent Components document, included in manual bag assembly, for information on effective length of pipe components.
- Horizontal terminations are measured to the outside mounting surface (flange of termination cap). See Figure 4.9.
- Vertical terminations are measured to top of last section of pipe. See Figure 4.10.
- Horizontal pipe installed level with no rise.

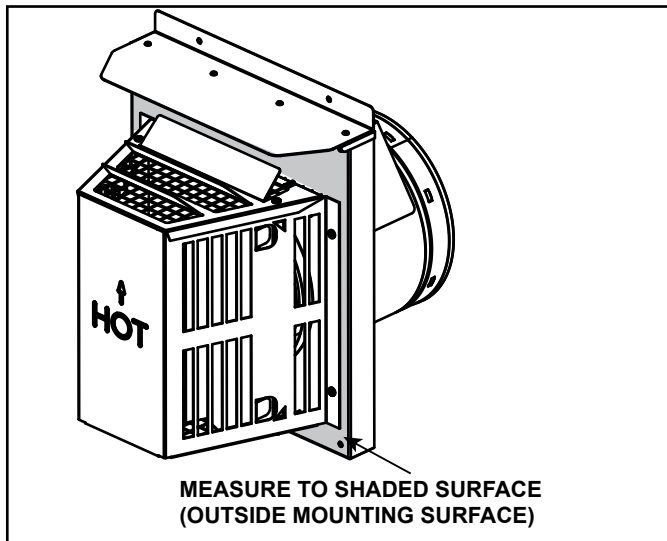


Figure 4.9 Measure to Outside Mounting Surface

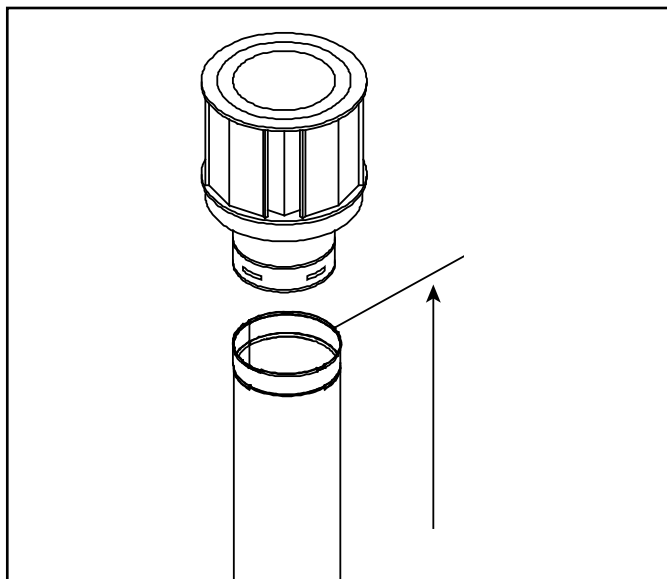


Figure 4.10 Measure to Top of Last Section of Pipe

### Top Vent - Horizontal Termination

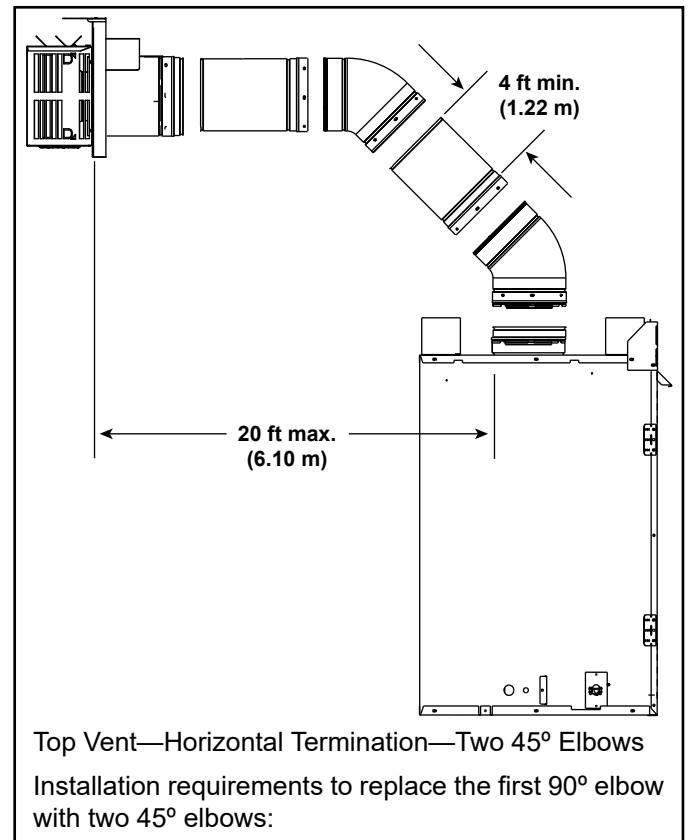
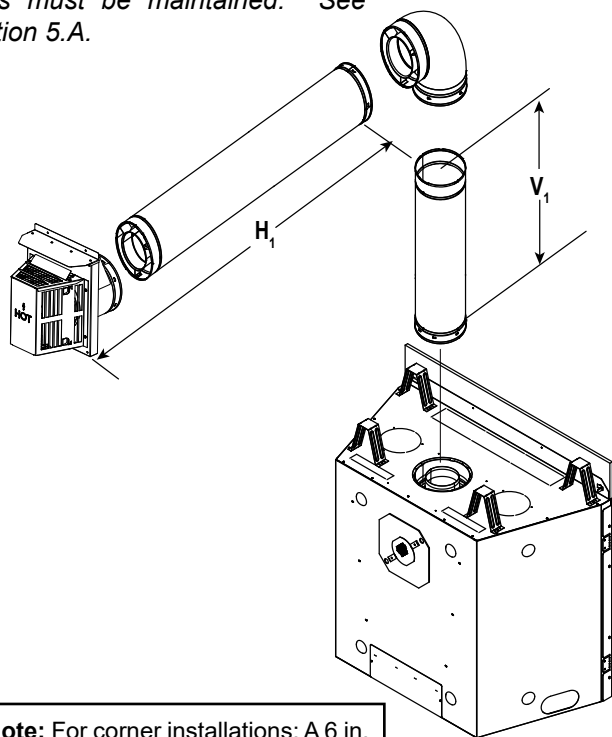


Figure 4.11

## Top Vent - Horizontal Termination - (continued)

### One Elbow

**WARNING! Risk of Fire!** Elbow heat shield required when  $V_1 = 2$  ft. or less. Clearances to combustibles must be maintained. See Section 5.A.



**Note:** For corner installations: A 6 in. (152 mm) section of straight pipe may need to be attached to the appliance before a 90° elbow, to allow the vent pipe to clear the top standoffs.

$V_1$ Minimum		$H_1$ Maximum	
Elbow only		2 ft	610 mm
1/2 ft.	152 mm	6 ft.	1.8 m
1 ft.	305 mm	11 ft.	3.4 m
1-1/2 ft.	457 mm	18 ft.	5.5 m
2 ft.	610 mm	25 ft.	7.6 m
$V_1 + H_1 = 40$ ft. (12.2 m) Maximum			
$H_1 = 25$ ft. (7.6 m) Maximum			

**MER36N Models Only:** When 10 feet or more of vent pipe is used in this scenario, bend the pilot scoop down to a 90 degree angle at the perforation as shown.

**Note:** MER36L models will already have the scoop bent at the factory or if a conversion from MER36N has already been performed. No action required.

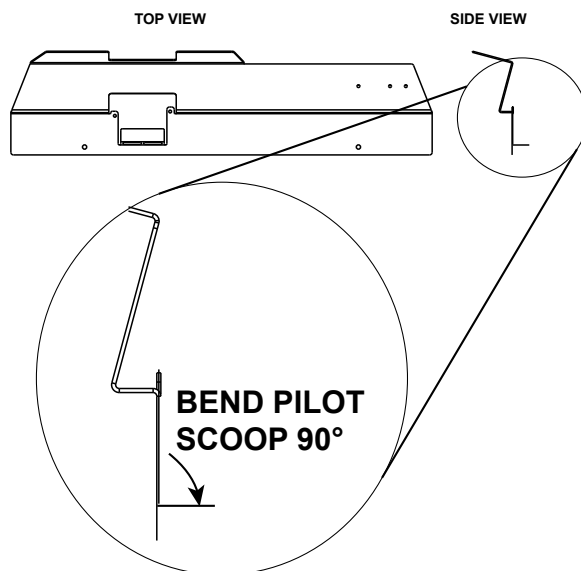
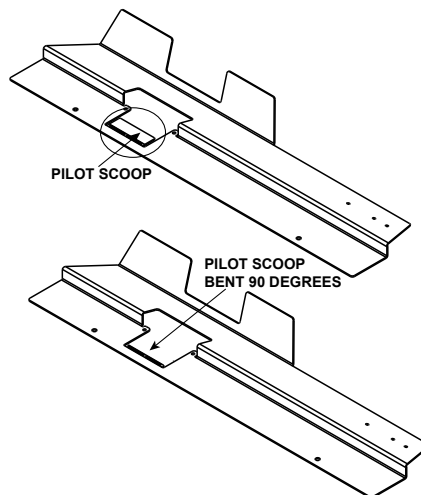


Figure 4.12

Top Vent - Horizontal Termination - (continued)

Two Elbows

**WARNING! Risk of Fire!** Elbow heat shield required when  $V_1 = 2$  ft. or less. Clearances to combustibles must be maintained. See Section 5.A.

**Note:** For corner installations: A 6 in. (152 mm) section of straight pipe may need to be attached to the appliance before a 90° elbow, to allow the vent pipe to clear the top standoffs.

$V_1$ Minimum		$H_1 + H_2$ Maximum	
Elbow only		2 ft	610 mm
1/2 ft.	152 mm	6 ft.	1.8 m
1 ft.	305 mm	11 ft.	3.4 m
1-1/2 ft.	457 mm	18 ft.	5.5 m
2 ft.	610 mm	25 ft.	7.6 m
$V_1 + H_1 + H_2 = 40$ ft. (12.2 m) Maximum			
$H_1 + H_2 = 25$ ft. (7.6 m) Maximum			

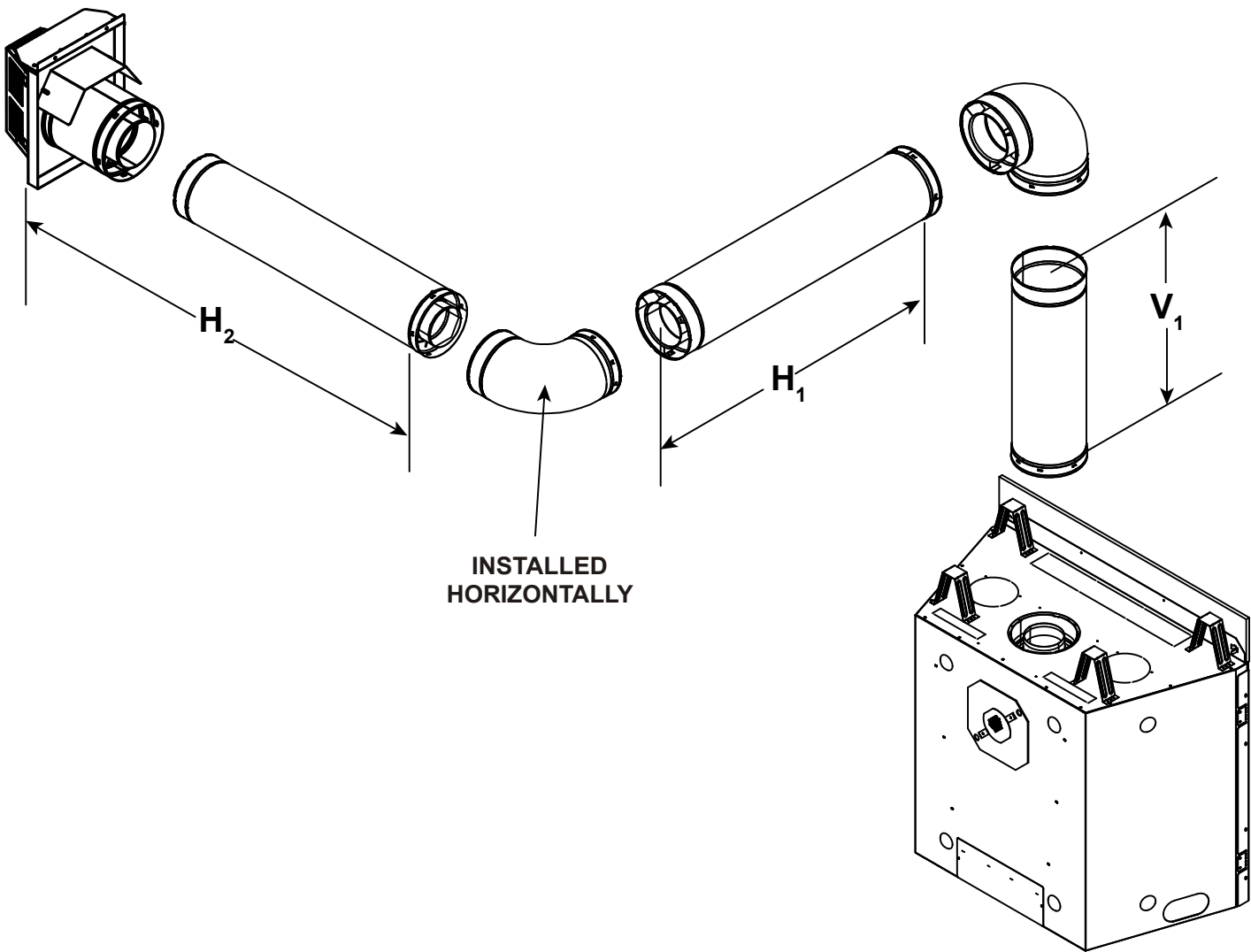


Figure 4.13

## Top Vent - Horizontal Termination - (continued)

### Three Elbows

**WARNING! Risk of Fire!** Elbow heat shield required when  $V_1 = 2$  ft. or less. Clearances to combustibles must be maintained. See Section 5.A.

**Note:** For corner installations: A 6 in. (152 mm) section of straight pipe may need to be attached to the appliance before a 90° elbow, to allow the vent pipe to clear the top standoffs.

$V_1$ Min.		$H_1$ Max.		$V_2$ Min.		$H_2$ Max.	
Elbow only		2 ft.	610 mm	0 in.	0 mm	1 ft.	305 mm
6 in.	152 mm	3 ft.	914 mm	6 in.	152 mm	2 ft.	610 mm
1 ft.	305 mm	6 ft.	1.8 m	1 ft.	305 mm	6 ft.	1.8 m
2 ft.	610 mm	11 ft.*	3.4 m*	2 ft.	610 mm	10 ft.*	3.1 m*
3 ft.	914 mm	16 ft.*	4.9 m*	3 ft.	914 mm	14 ft.*	4.3 m*
* $H_1 + H_2 = 20$ ft. (6.1 m) Maximum				$V_1 + V_2 + H_1 + H_2 = 40$ ft. (12.2 m) Maximum			

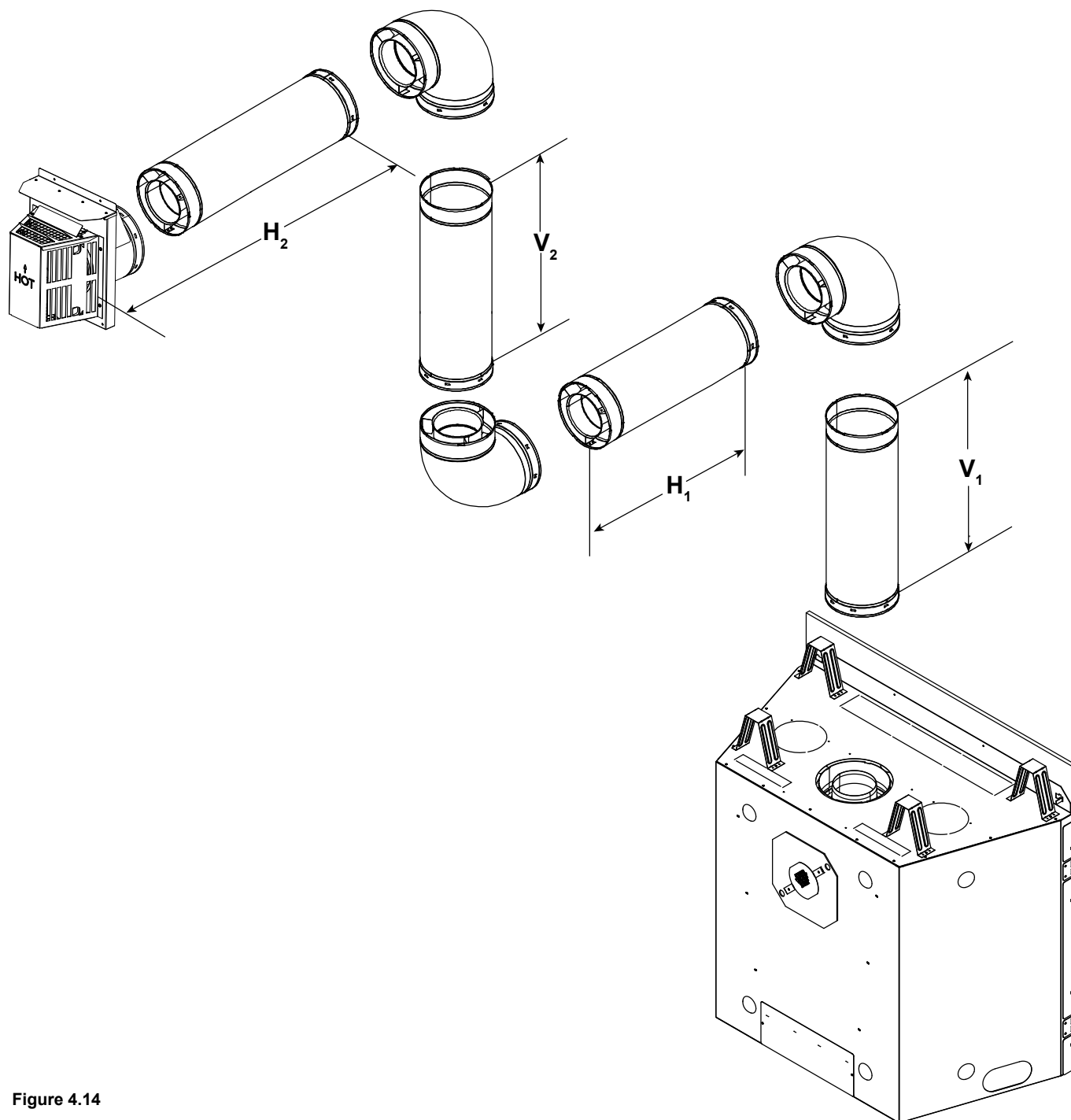


Figure 4.14

## Top Vent - Vertical Termination

### No Elbow

$V_1 = 60 \text{ ft. Max. (18.3 m)}$   
 $V_1 = 3 \text{ ft. Min. (914 mm)}$

**Note:** If installing a vertical vent/termination off the top of the appliance, the flue restrictor should be used.

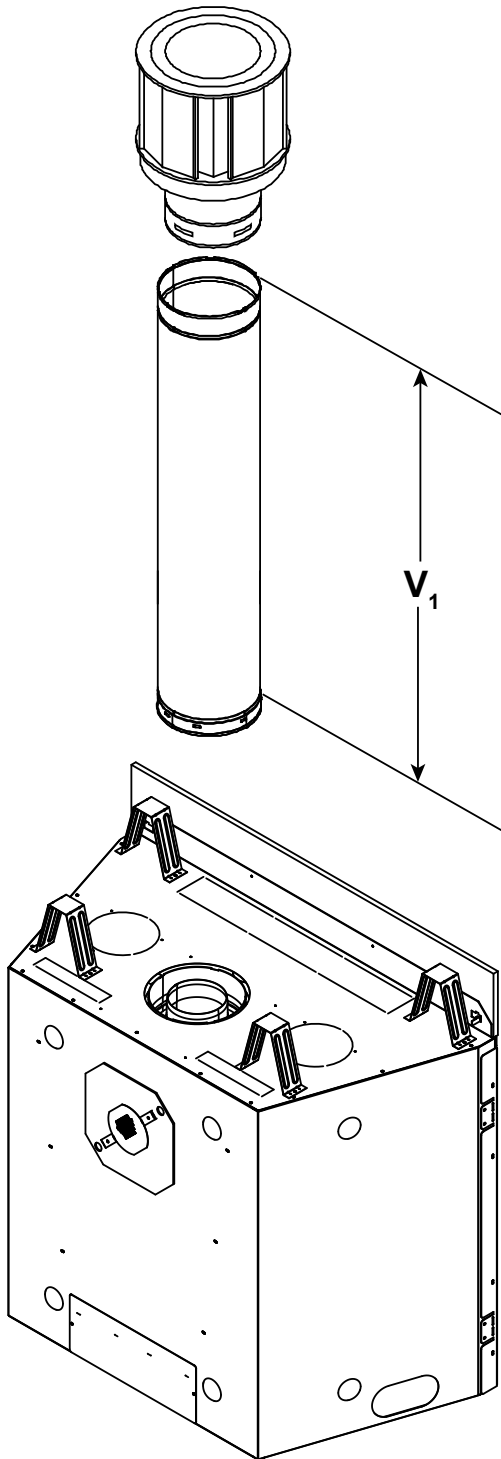


Figure 4.15



## Top Vent - Vertical Termination (continued)

### Flue Restrictor Instructions

1. Remove the exhaust shield. See Figure 4.16.
2. Orientate and align the two pieces of the flue restrictor as shown in Figure 4.17.
3. Refer to Table 4.1 and Figure 4.17 to match the amount of vertical you have in the system and determine the appropriate position to set the flue restrictor. In Table 4.1, "NA" indicates that a flue restrictor is not used.
4. Center the two flue restrictor pieces on the vent at the setting selected in step 3 and secure in place by using two self-tapping screws. See Figure 4.16.
5. Reinstall the exhaust shield.

Vertical	Model	TOP VENT		REAR VENT	
		NG	Propane	NG	Propane
4 ft.	MER36 MER42	1-1	NA	NA	NA
8 ft.		2-2	1-2	1-1	NA
15 ft.		3-2	3-2	2-2	1-2
20 ft.		3-2	3-2	3-2	3-2
25 ft.	MER36	3-3	3-3	3-3	3-3
	MER42	3-2	3-2	3-2	3-2
30 ft.	MER36	3-3	3-3	3-3	3-3
	MER42	3-2	3-2	3-2	3-2
35 ft.	MER36	3-3	3-3	3-3	3-3
	MER42	3-2	3-2	3-2	3-2
40 ft.	MER36	3-3	3-3	3-3	3-3
	MER42	3-2	3-2	3-2	3-2

Table 4.1

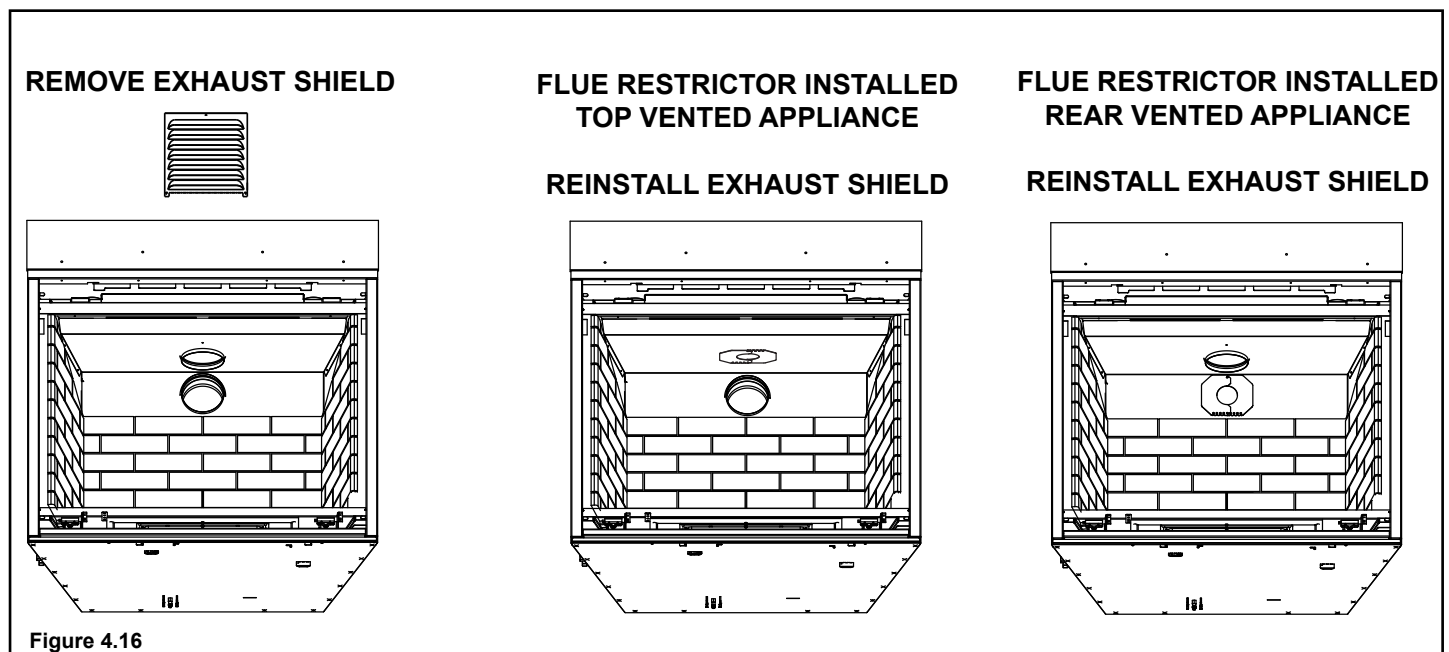


Figure 4.16

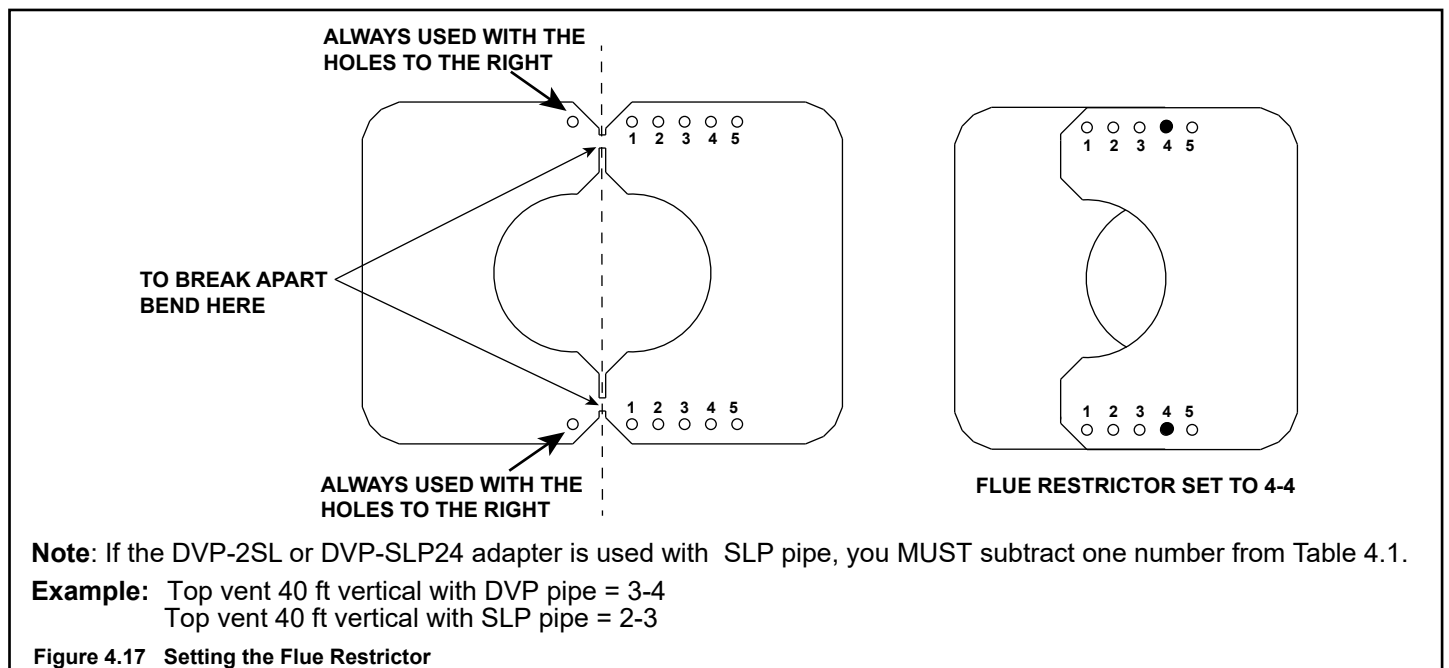


Figure 4.17 Setting the Flue Restrictor

Two Elbows

V <sub>1</sub>		H <sub>1</sub> Maximum		V <sub>2</sub>	V <sub>1</sub> + V <sub>2</sub> Min.	
Elbow only		2 ft.	610 mm	*	*	*
6 in.	152 mm	6 ft.	1.8 m	*	*	*
2 ft.	610 mm	11 ft.	3.4 m	*	*	*
3 ft.	914 mm	16 ft.	4.9 m	*	*	*
4 ft.	1.2 m	20 ft.	6.1 m	*	*	*
V <sub>1</sub> + V <sub>2</sub> + H <sub>1</sub> = 60 ft. (18.3 m) Maximum *No specific restrictions on this value EXCEPT V <sub>1</sub> + V <sub>2</sub> + H <sub>1</sub> cannot exceed 60 ft (18.3 m)						

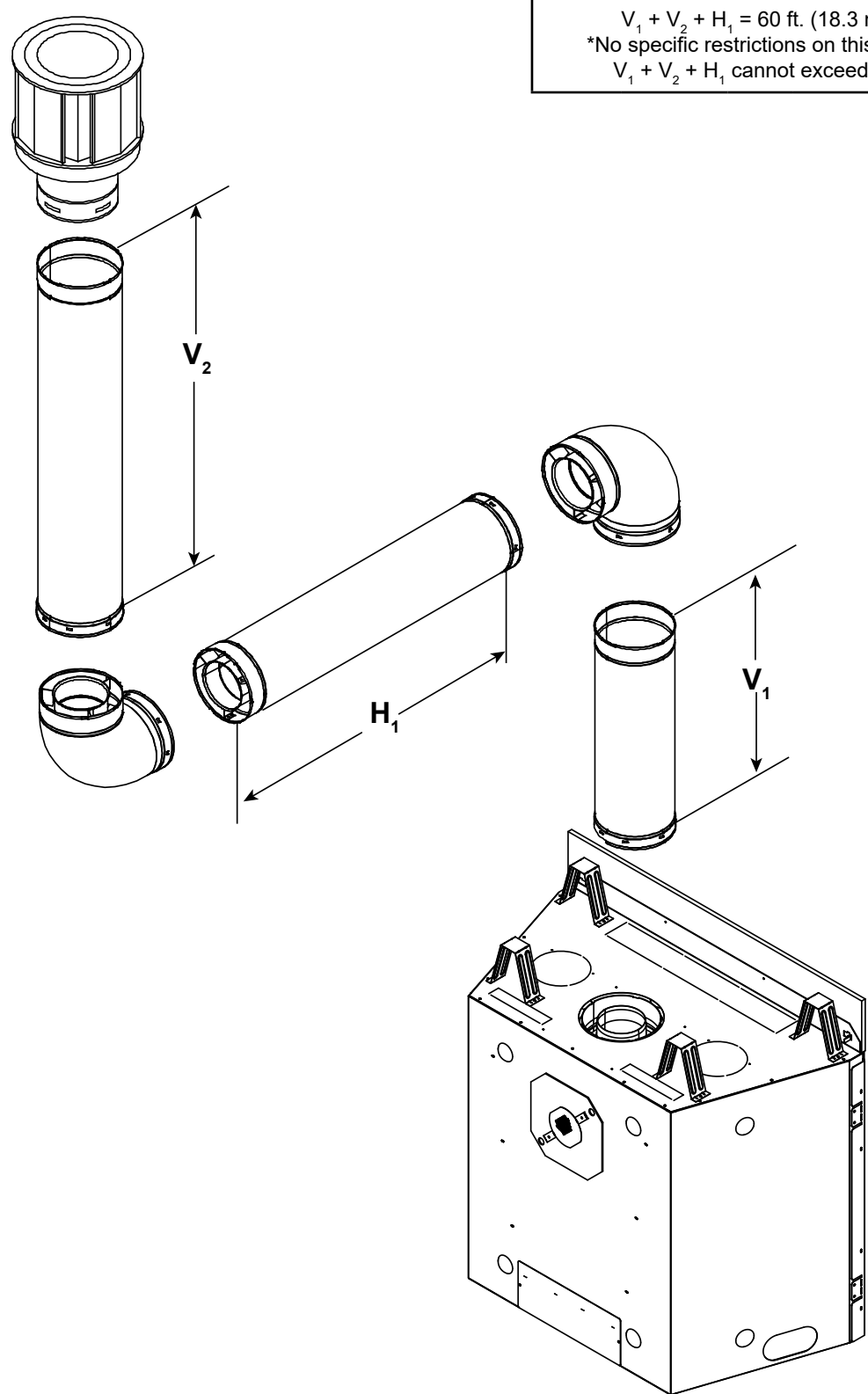
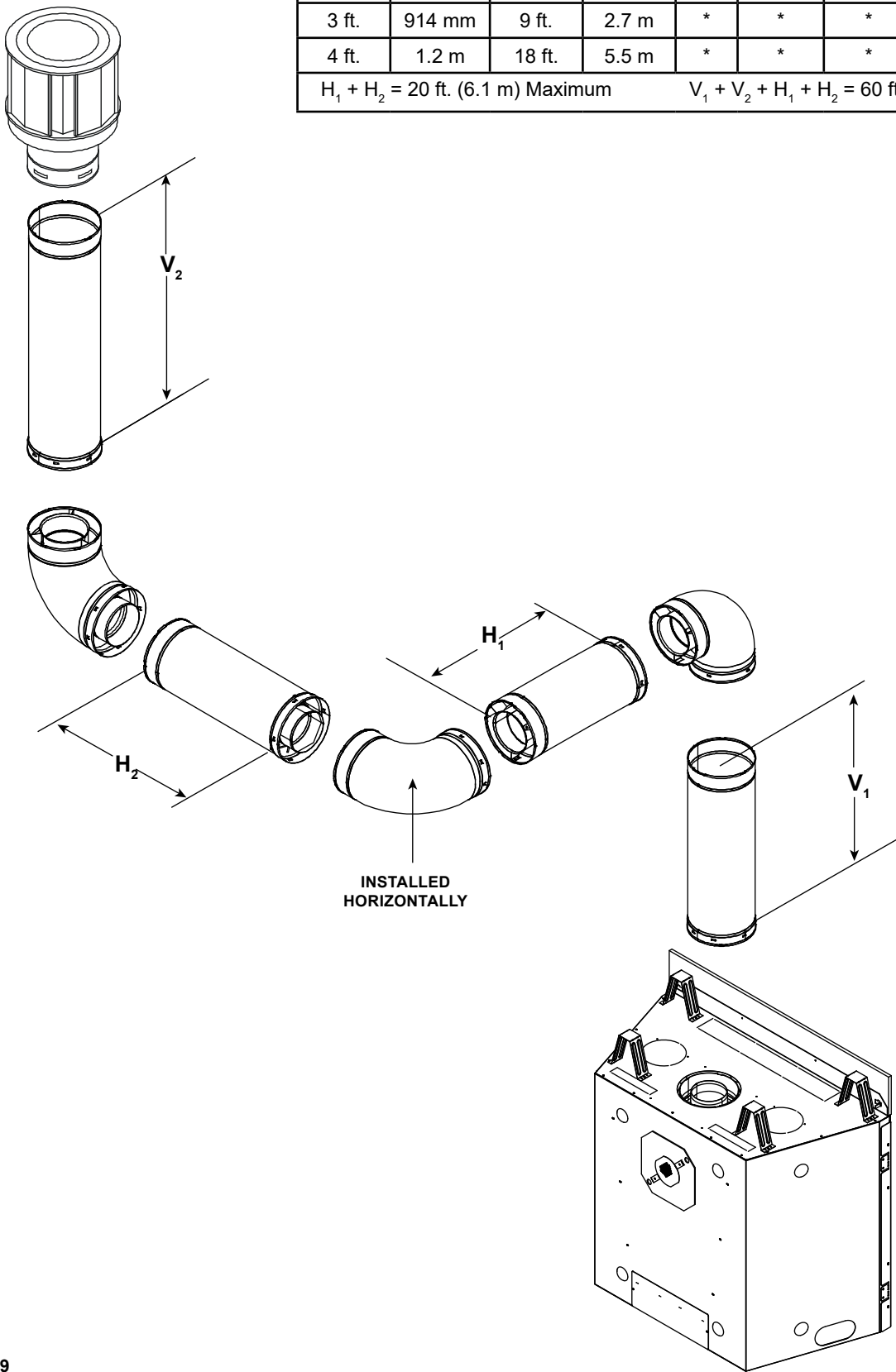


Figure 4.18

Top Vent - Vertical Termination - (continued)

Three Elbows



$V_1$		$H_1 + H_2$		$V_2$	$V_1 + V_2$ Minimum		$H_1 + H_2$ Maximum	
Elbow only		1 ft.	305 mm	*	*	*	1 ft.	305 mm
6 in.	152 mm	2 ft.	610 mm	*	*	*	2 ft.	610 mm
1 ft.	305 mm	2 ft.	610 mm	*	*	*	2 ft.	610 mm
2 ft.	610 mm	4 ft.	1.2 m	*	*	*	4 ft.	1.2 m
3 ft.	914 mm	9 ft.	2.7 m	*	*	*	9 ft.	2.7 m
4 ft.	1.2 m	18 ft.	5.5 m	*	*	*	18 ft.	5.5 m
$H_1 + H_2 = 20$ ft. (6.1 m) Maximum				$V_1 + V_2 + H_1 + H_2 = 60$ ft. (18.3 m) Maximum				

Figure 4.19

## Rear Vent - Horizontal Termination

### No Elbow

$H_1 = 16 \text{ in. (406 mm) Maximum}$

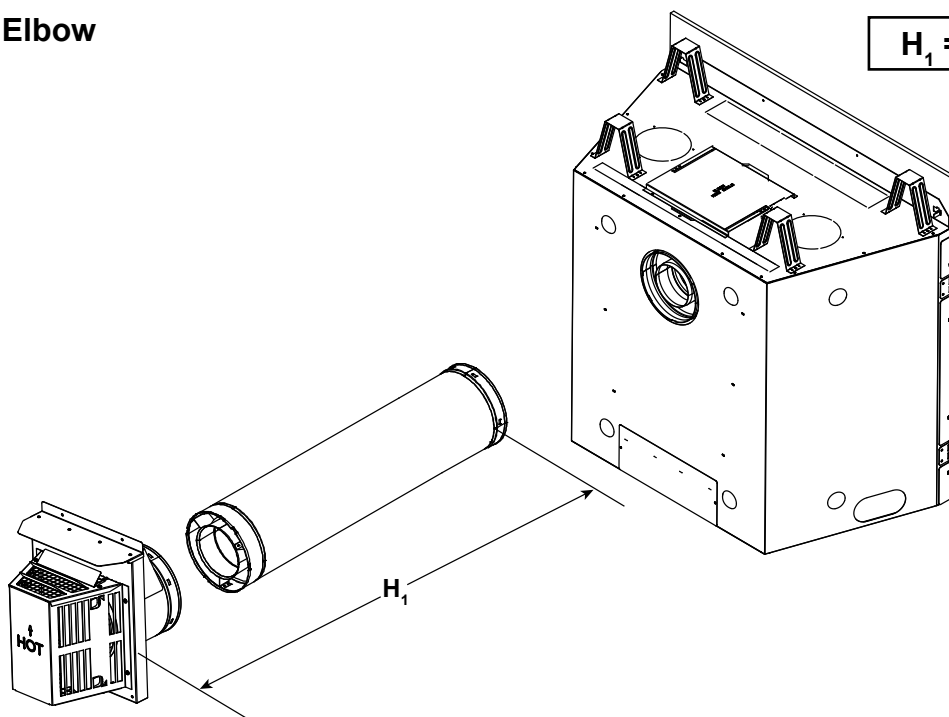


Figure 4.20

### One 45° Elbow

Do not use a 45° elbow in corner installations.  
Use two 90° elbows instead.

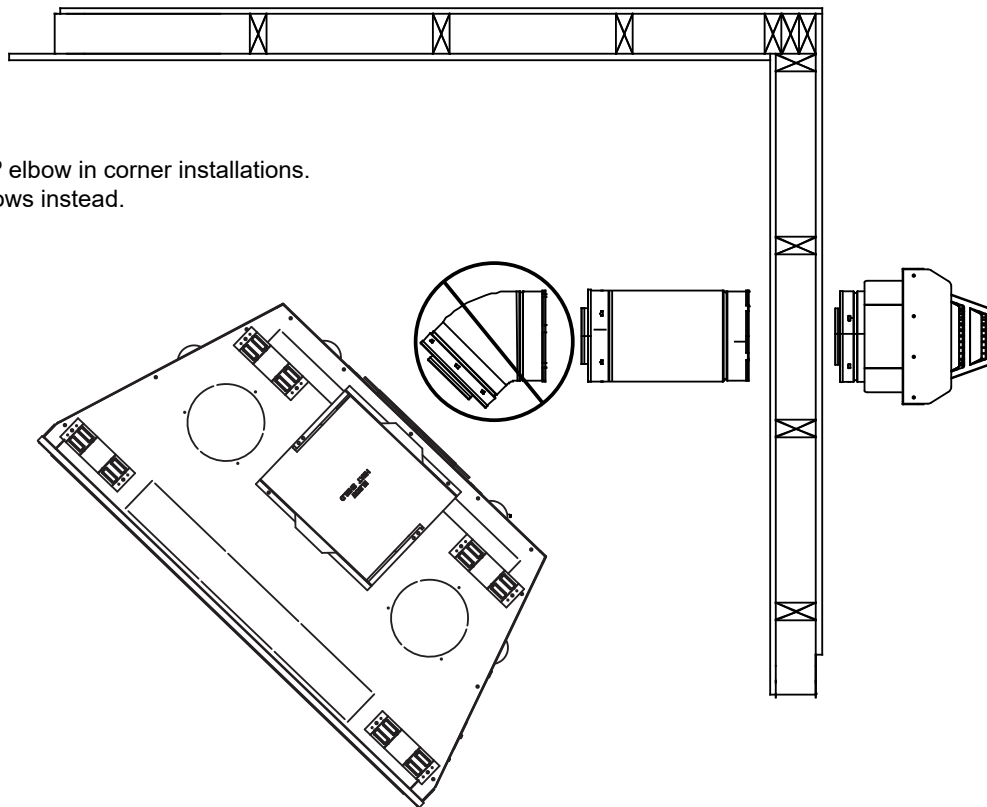


Figure 4.21

## Rear Vent - Horizontal Termination - (continued)

### Two Elbows

H <sub>1</sub> Maximum		V <sub>1</sub> Minimum		H <sub>2</sub>		H <sub>1</sub> + H <sub>2</sub> Maximum	
1 ft.	305 mm	Back to Back 90° Elbows		1 ft.	305 mm	2 ft.	610 mm
2 ft.	610 mm	6 in.	152 mm	2 ft.	610 mm	4 ft.	1.2 m
3 ft.	914 mm	1 ft.	305 mm	2 ft.	610 mm	5 ft.	1.5 m
3 ft.	914 mm	2 ft.	610 mm	4 ft.	1.2 m	7 ft.	2.1 m
3 ft.	914 mm	3 ft.	914 mm	9 ft.	2.7 m	12 ft.	3.7 m
3 ft.	914 mm	4 ft.	1.2 m	17 ft.	5.2 m	20 ft.*	6.1 m*
$V_1 + H_1 + H_2 = 40 \text{ ft. (12.2 m) Maximum}$ $H_1 = 3 \text{ ft. (914 mm) Maximum}$ $*H_1 + H_2 = 20 \text{ ft. (6.1 m) Maximum}$							

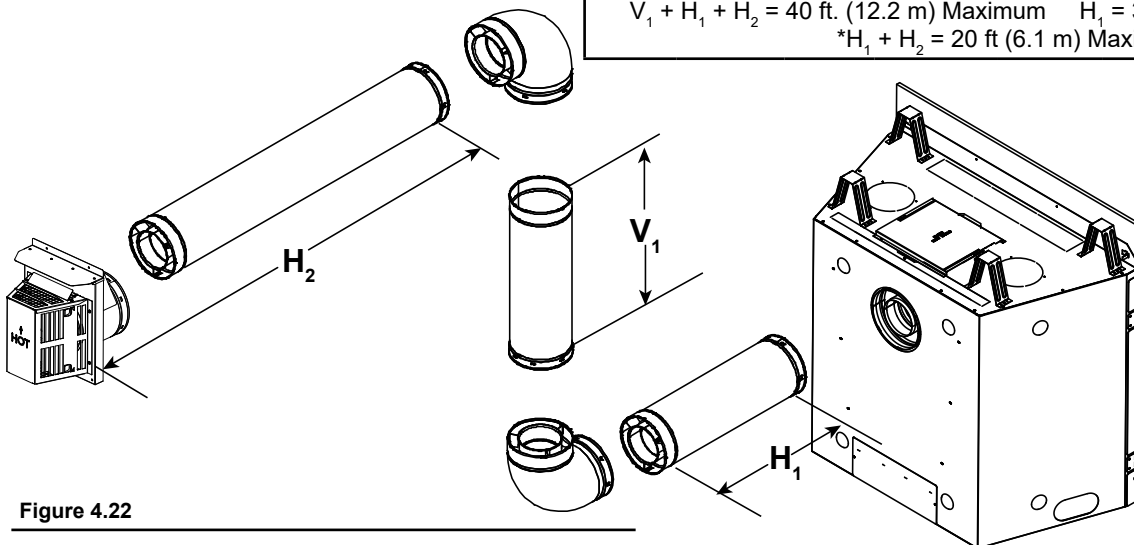


Figure 4.22

### Three Elbows

H <sub>1</sub> Maximum		V <sub>1</sub> Minimum		H <sub>2</sub> + H <sub>3</sub>		H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> Max.	
1 ft.	305 mm	Back to Back 90° Elbows		1 ft.	305 mm	2 ft.	610 mm
2 ft.	610 mm	6 in.	152 mm	1.5 ft.	457 mm	3.5 ft.	1.1 m
3 ft.	914 mm	1 ft.	305 mm	2 ft.	610 mm	5 ft.	1.5 m
3 ft.	914 mm	2 ft.	610 mm	4 ft.	1.2 m	7 ft.	2.1 m
3 ft.	914 mm	3 ft.	914 mm	9 ft.	2.7 m	12 ft.	3.7 m
3 ft.	914 mm	4 ft.	1.2 m	12 ft.	3.7 m	15 ft.	4.6 m
$V_1 + H_1 + H_2 + H_3 = 40 \text{ ft. (12.2 m) Maximum}$ $H_1 = 3 \text{ ft. (914 mm) Maximum}$ $H_1 + H_2 + H_3 = 20 \text{ ft. (6.1 m) Maximum}$							

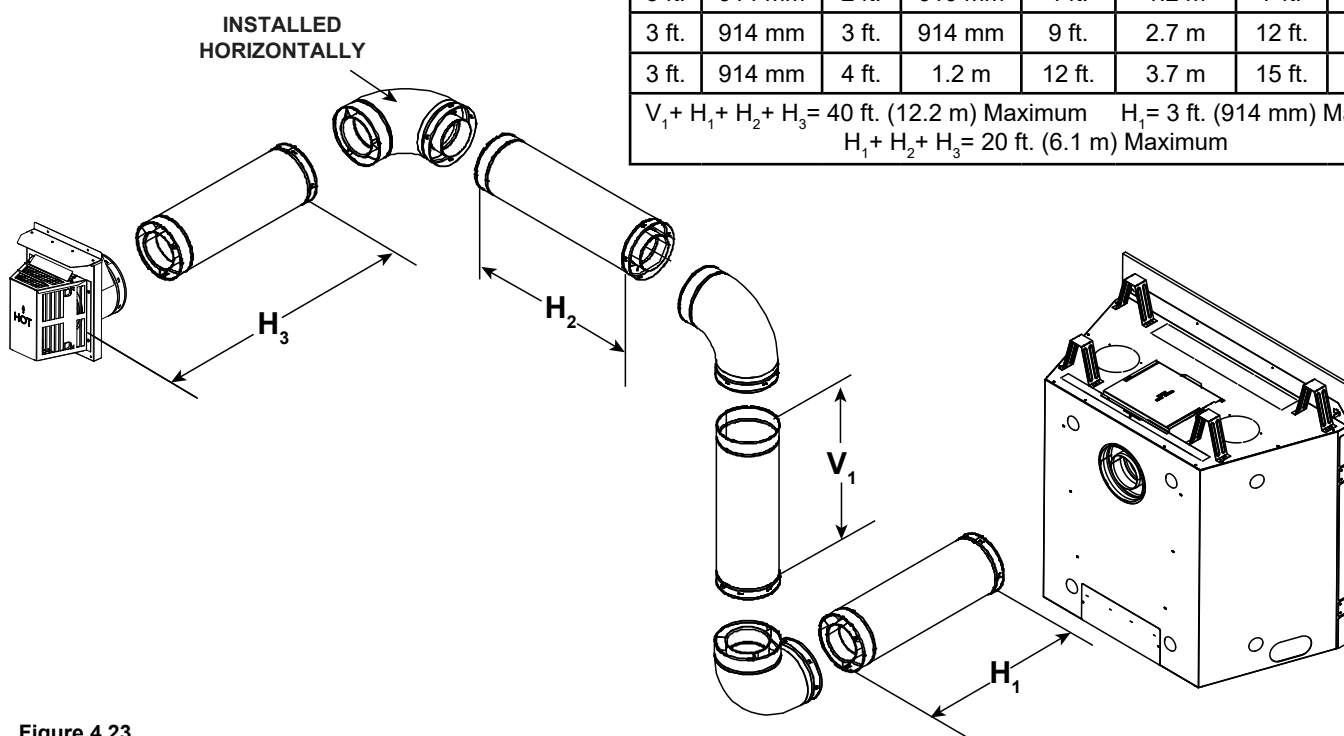


Figure 4.23

Rear Vent - Vertical Termination

One Elbow

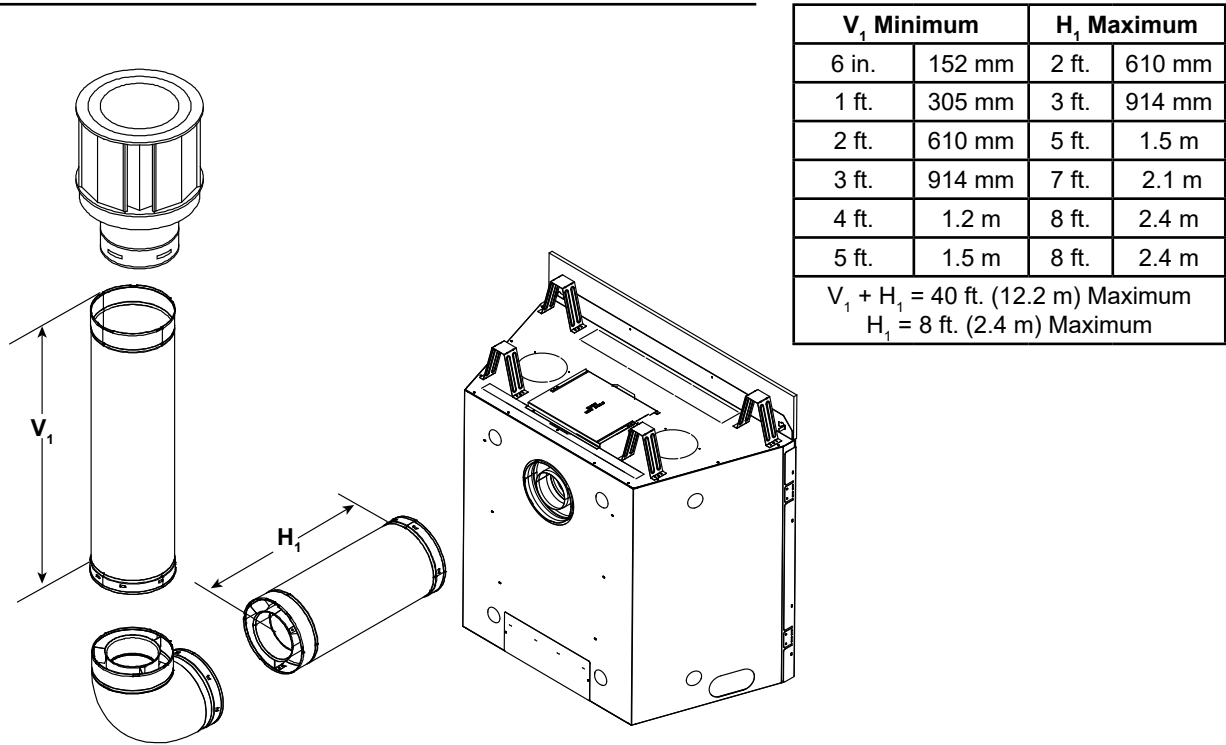


Figure 4.24

Two Elbows

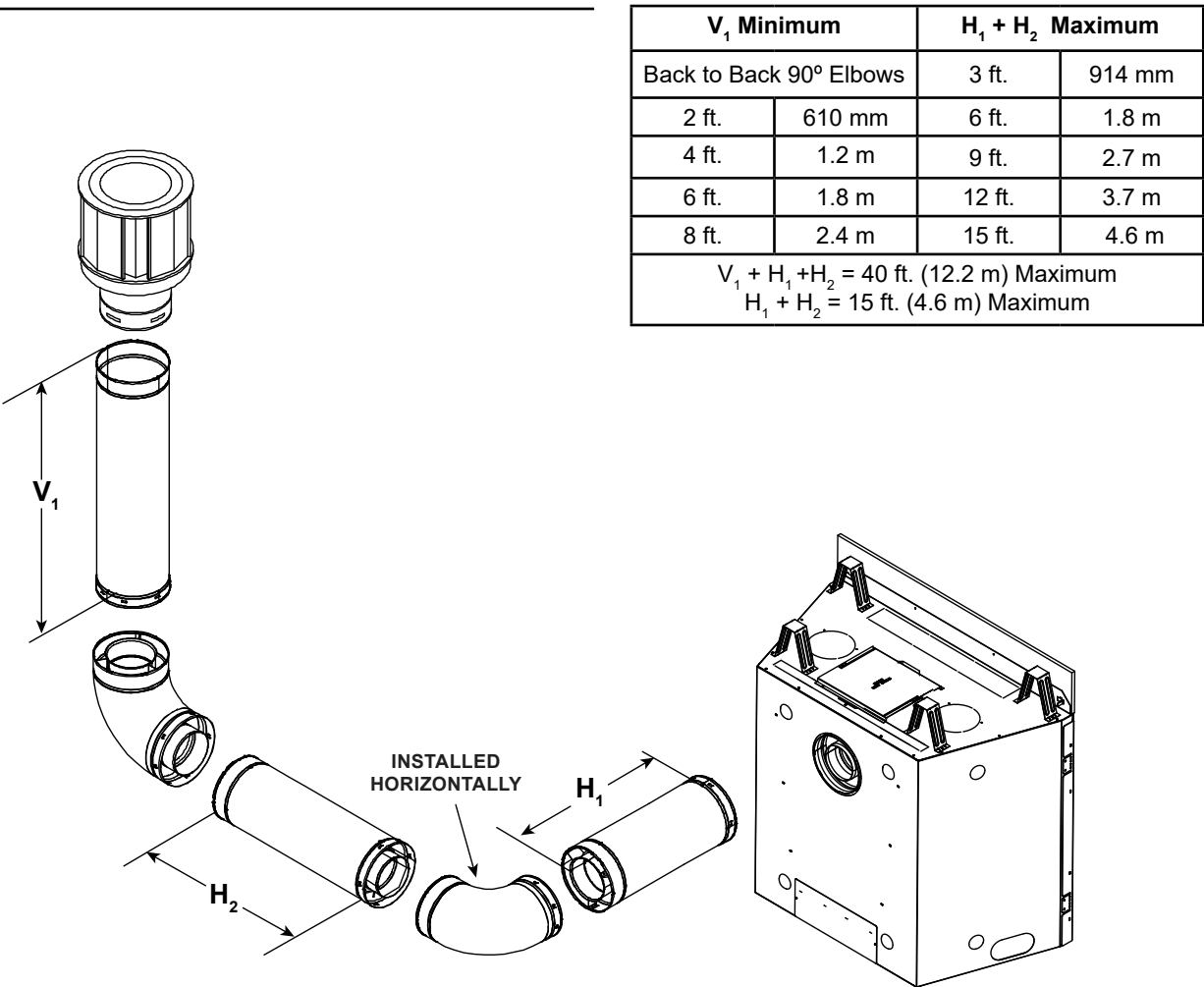
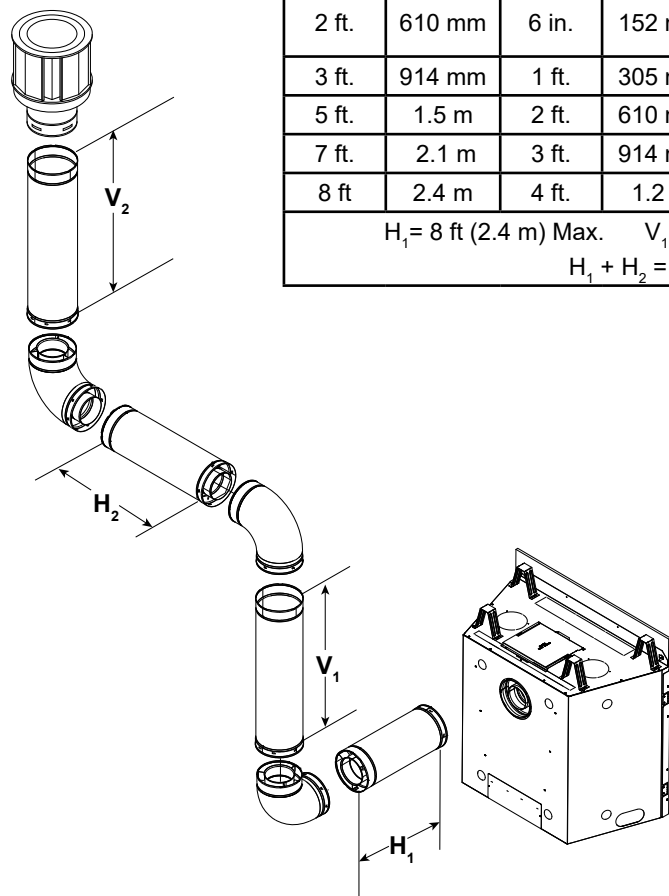


Figure 4.25

Rear Vent - Vertical Termination - (continued)

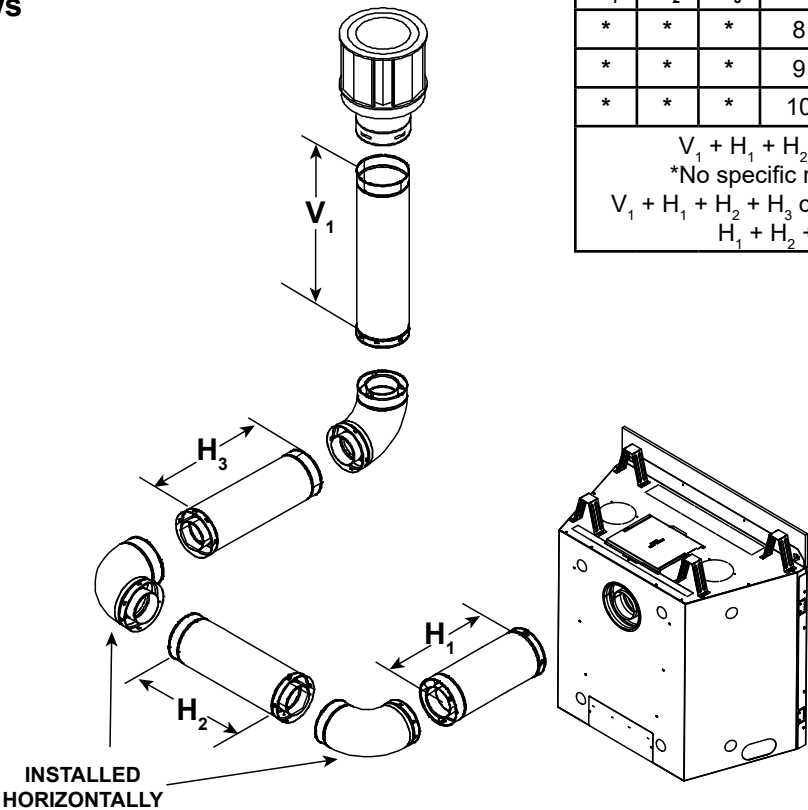
Three Elbows



H <sub>1</sub> Maximum		V <sub>1</sub> Minimum		H <sub>2</sub>		H <sub>1</sub> + H <sub>2</sub> Maximum	
2 ft.	610 mm	6 in.	152 mm	2 ft.	610 mm	4 ft.	1.2 m
3 ft.	914 mm	1 ft.	305 mm	4 ft.	1.2 m	7 ft.	2.1 m
5 ft.	1.5 m	2 ft.	610 mm	6 ft.	1.8 m	11 ft.	3.4 m
7 ft.	2.1 m	3 ft.	914 mm	8 ft.	2.4 m	15 ft.	4.6 m
8 ft.	2.4 m	4 ft.	1.2 m	10 ft.	3.1 m	18 ft.	5.5 m
H <sub>1</sub> = 8 ft (2.4 m) Max.    V <sub>1</sub> + V <sub>2</sub> + H <sub>1</sub> + H <sub>2</sub> = 40 ft (12.2 m) Max. H <sub>1</sub> + H <sub>2</sub> = 20 ft (6.1 m) Max.							

Figure 4.26

Three Elbows



H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	V <sub>1</sub> Minimum		H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> Maximum	
*	*	*	8 ft.	2.4 m	6 ft.	1.8 m
*	*	*	9 ft.	2.7 m	7 ft.	2.1 m
*	*	*	10 ft.	3.1 m	8 ft.	2.4 m
V <sub>1</sub> + H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 40 ft. (12.2 m) Maximum *No specific restrictions on this value EXCEPT V <sub>1</sub> + H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> cannot exceed 40 ft. (12.2 m) Maximum H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 8 ft. (2.4 m) Maximum						

Figure 4.27

# 5 Vent Clearances and Framing

## A. Vent Clearances to Combustibles

**WARNING! Risk of Fire! Maintain air space clearance to vent. DO NOT pack insulation or other combustibles:**

- Between ceiling firestops
- Between wall shield firestops
- Around vent system

Failure to keep insulation or other material away from vent pipe could cause overheating and fire.

**WARNING! Risk of Fire! Elbow heat shield required when  $V_1 = 2$  ft. or less. Clearances to combustibles must be maintained. See Figure 4.12.**

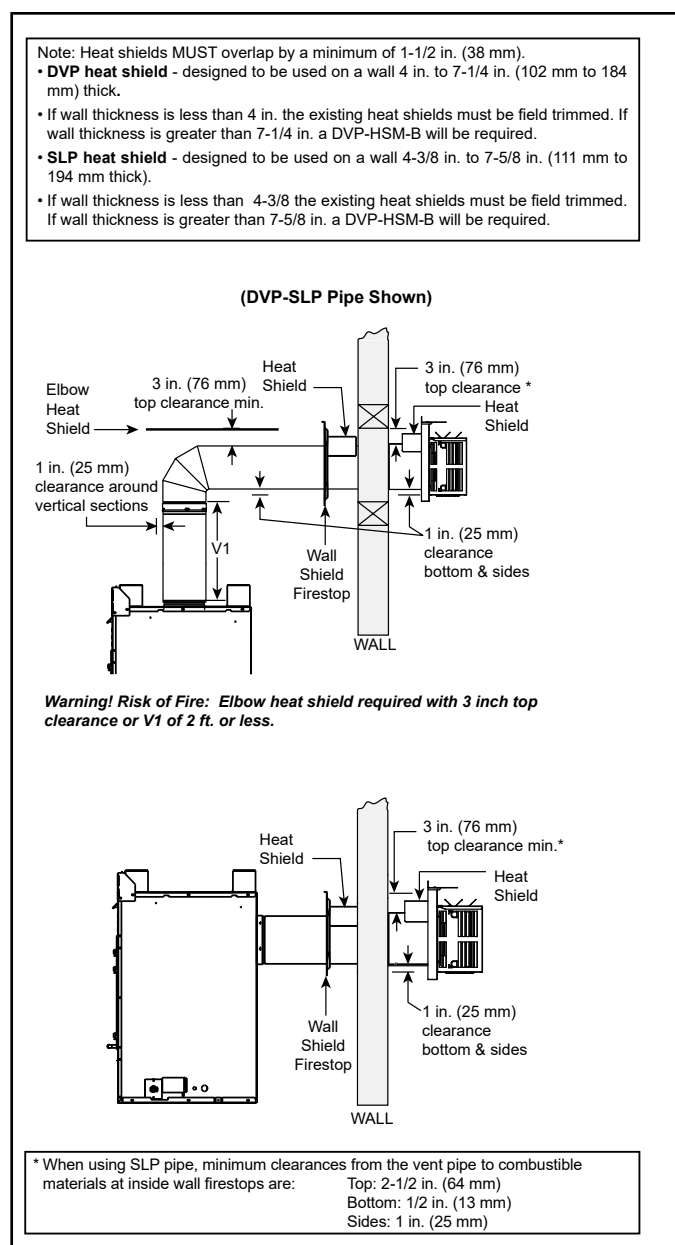


Figure 5.1 Horizontal Venting Clearances To Combustible Materials

## Elbow Heat Shield

**WARNING! Risk of Fire! Elbow heat shield MUST be installed if required. Overheating will occur.**

Top vented appliances: Installation of the elbow heat shield is required when the clearance to combustible material above the first 90 degree vent elbow is three inches or less. See Figure 5.1.

**Note:** A minimum of three inches clearance from the top of the pipe to any combustible material must always be maintained.

### To Install Elbow Heat Shield:

1. Remove the elbow heat shield from the shipping position by removing screws.
2. Fasten the shield in place using the four pilot holes. The shield should be oriented such that the dimension (longest dimension) is running in the same direction the elbow is pointing. The shield should be centered directly above the elbow, and positioned so that it creates a 1/2 inch airspace between the shield and the combustible surface. See Figure 5.2.

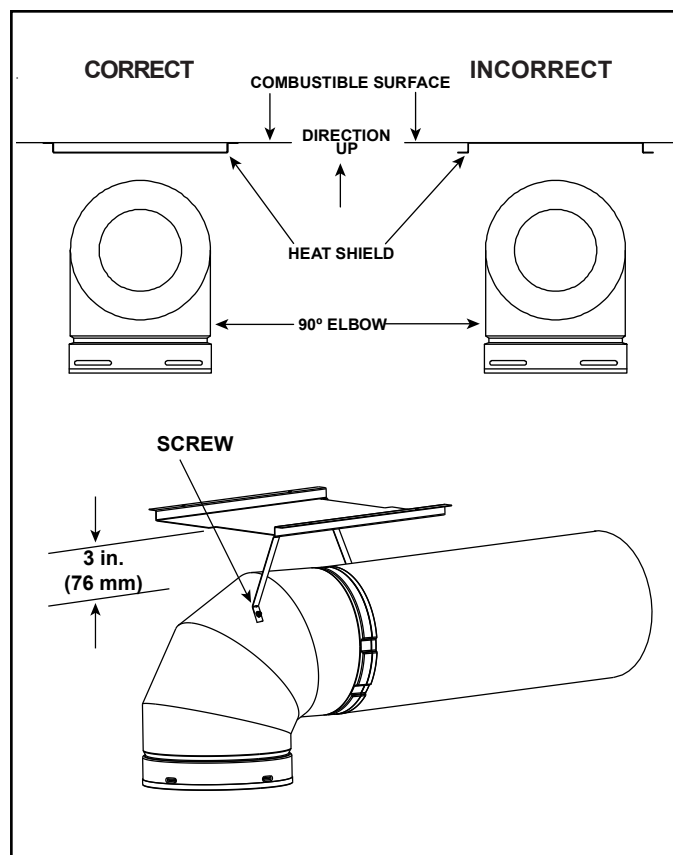


Figure 5.2 Elbow Heat Shield Installation



## Elbow and Offset Clearances to Combustibles

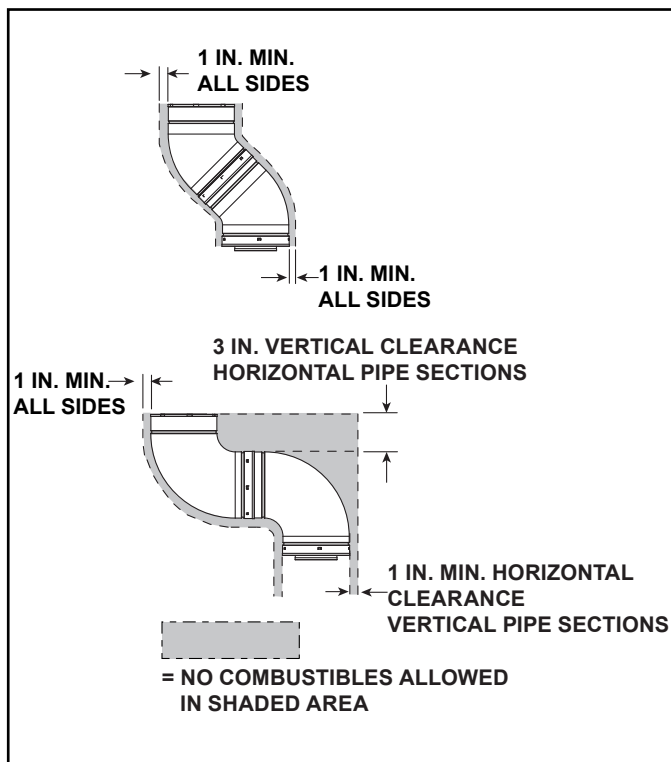


Figure 5.3 Clearances from Vent to Combustible Framing Materials

## B. Wall Penetration Framing/Firestops

### Combustible Wall Penetration

Whenever a combustible wall is penetrated, you must frame a hole for the wall shield firestop(s). The wall shield firestop maintains minimum clearances and prevents cold air infiltration.

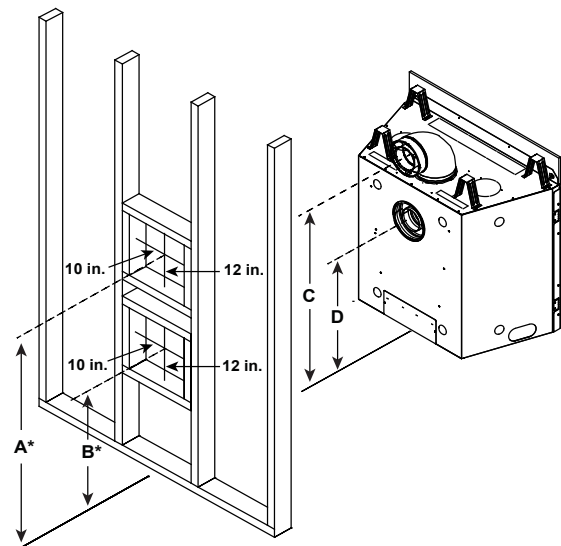
- The opening must be framed on all four sides using the same size framing materials as those used in the wall construction.
- SLP pipe - A wall shield firestop must be placed on each side of an interior wall. A minimum 1-1/2 in. (38 mm) overlap of attached heat shields must be maintained.
- DVP pipe - A wall shield firestop is required on one side only on interior walls. If your local inspector requires a wall shield firestop on both sides, then both wall shield firestops must have a heat shield (refer to Section 12.A.) attached to them.
- See Section 7.F. for information for regarding the installation of a horizontal termination cap.

### Non-Combustible Wall Penetration

If the hole being penetrated is surrounded by non-combustible materials such as concrete, a hole with diameter one inch greater than the pipe is acceptable.

Whenever a non-combustible wall is penetrated, the wall shield firestop is only required on one side and no heat shield is necessary.

### DO NOT PACK VENT FRAMING HOLE WITH INSULATION OR OTHER MATERIAL.



		A*	B*	C	D
MER36	in.	42-3/4	27-7/8	41-3/4	26-7/8
	mm	1086	708	1060	683
MER42	in.	45-1/8	29-7/8	44-1/8	28-7/8
	mm	1146	759	1121	733

\* Shows center of vent framing hole for top or rear venting. The center of the hole is one (1) in. (25 mm) above the center of the horizontal vent pipe.

**Note:** Center of the horizontal vent pipe to the vertical measuring surface of a trap cap is 5 inches (127 mm).

Figure 5.4 Wall Penetration

### C. Ceiling Firestop/Floor Penetration Framing

**WARNING! Risk of Fire! DO NOT pack insulation around the vent. Maintain clearances to vent to prevent overheating.**

A ceiling firestop **MUST** be used between floors and attics.

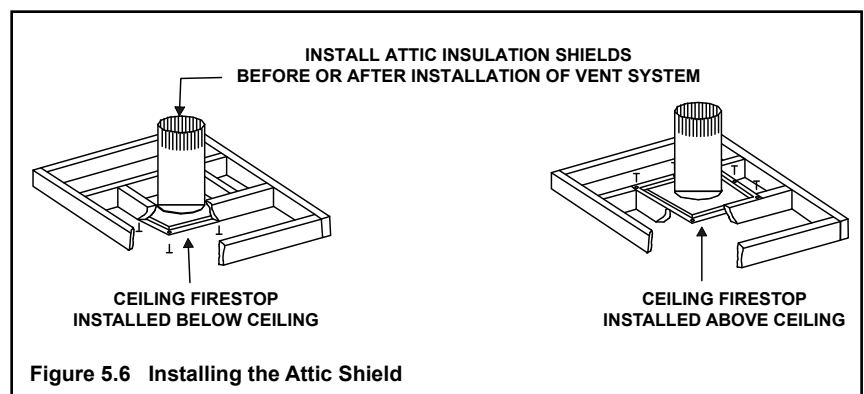
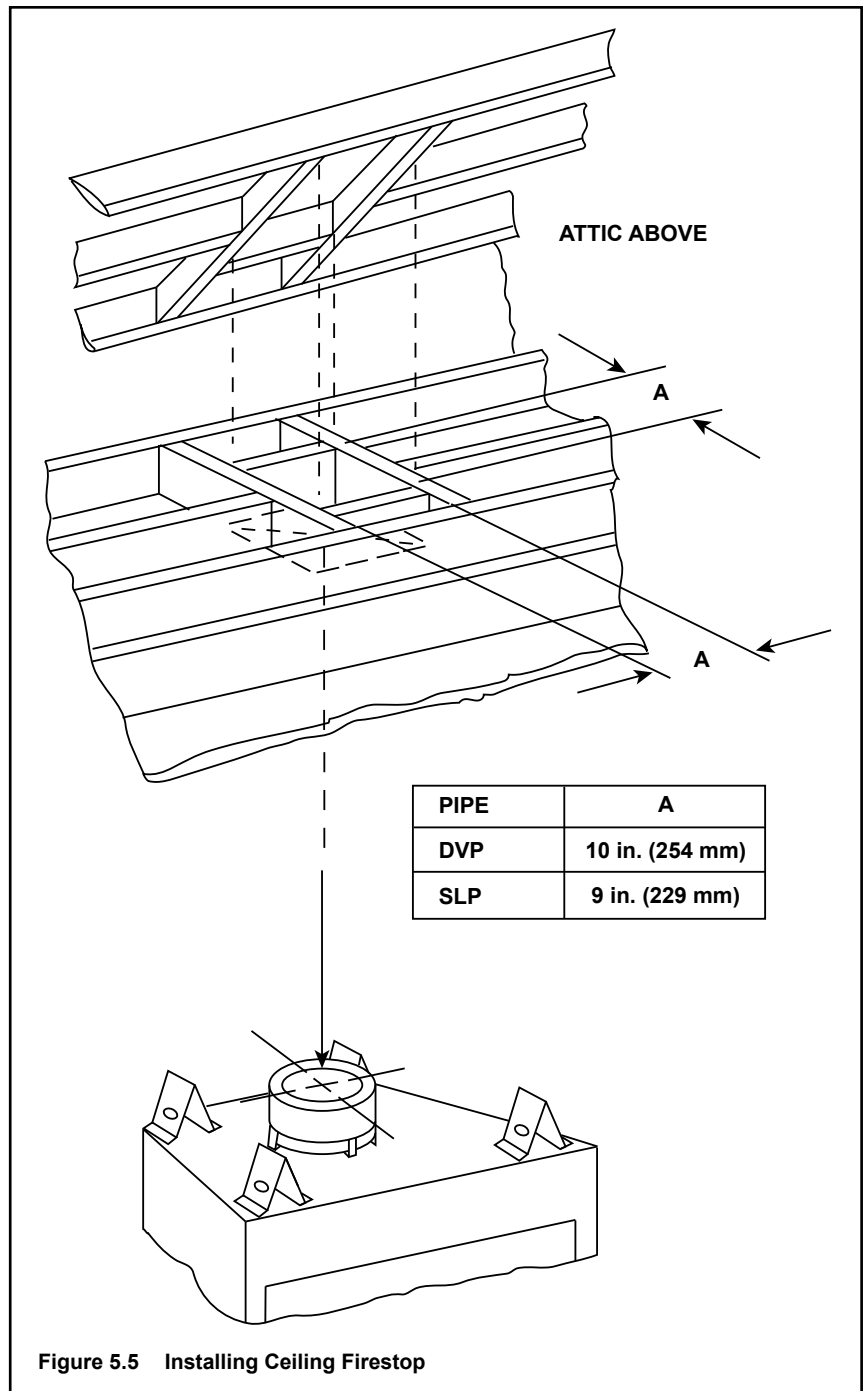
- **DVP pipe only** - Frame an opening 10 in. by 10 in. (254 mm by 254 mm) whenever the vent penetrates a ceiling/floor (see Figure 5.5).
- **SLP pipe only** - Frame opening 9 in. x 9 in. (229 mm x 229 mm) whenever the vent penetrates a ceiling/floor (see Figure 5.5).
- Frame the area with the same sized lumber as used in ceiling/floor joist.
- The ceiling firestop may be installed above or below the ceiling joists when installed with an attic insulation shield. It must be under joists between floors that are not insulated. Refer to Figure 5.6.
- Secure in place with nails or screws.

### D. Install Attic Insulation Shield

**WARNING! Fire Risk.** The use of an attic shield is required to prevent loose materials or insulation from contacting the vent causing overheating and a fire.

The International Fuel Gas Code requires an attic shield constructed of 26 gauge minimum steel that extends at least 2 in. (51 mm) above insulation.

- Attic insulation shields must meet specified clearances to combustible materials and be secured in place.
- An attic insulation shield kit is available from Hearth & Home Technologies. Contact your dealer to order. Install attic insulation shield according to instructions included with kit.



# 6 Appliance Preparation

## A. Vent Collar Preparation

**CAUTION! Risk of Cuts, Abrasions or Flying Debris.** Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

**NOTICE:** Once appliance is set up for top or rear venting, it CANNOT be changed at a later time.

### Top Vent

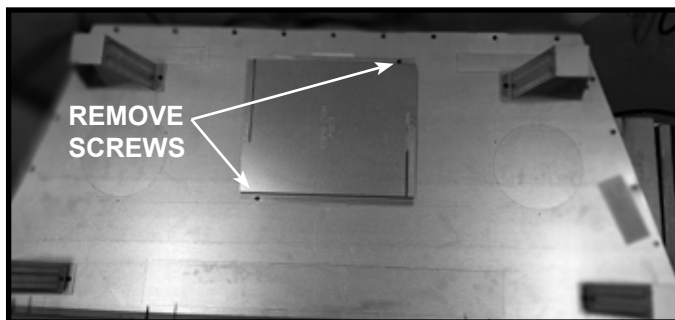


Figure 6.1 Remove Elbow Heat Shield by Removing Two Screws

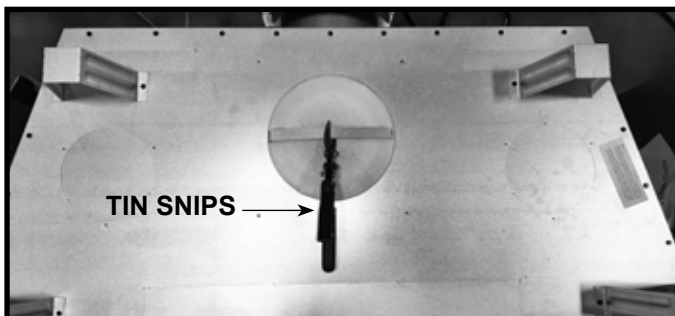


Figure 6.2 Cut Seal Cap Strap Using a Tin Snips and Bend the Pieces to 90 Degrees

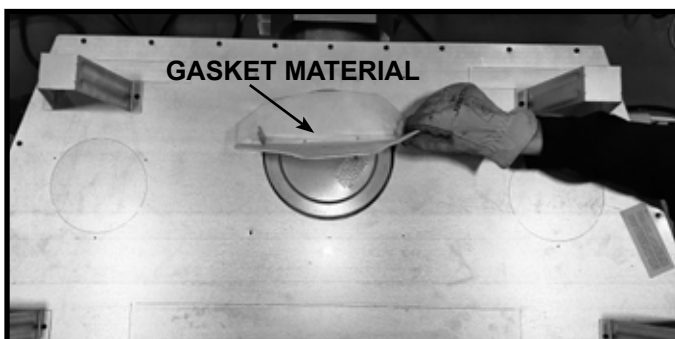


Figure 6.3 Remove the White Gasket Material Covering the Seal Cap

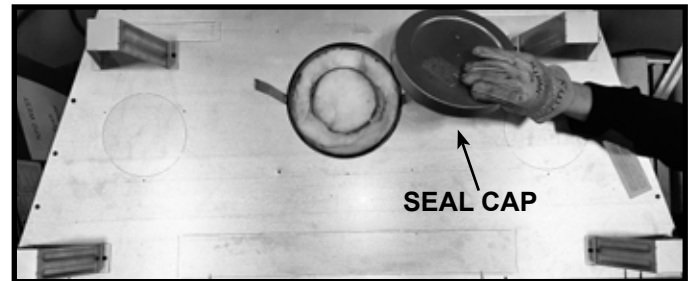


Figure 6.4 Remove Seal Cap

**NOTICE:** Once the seal cap has been removed it CANNOT be reattached.

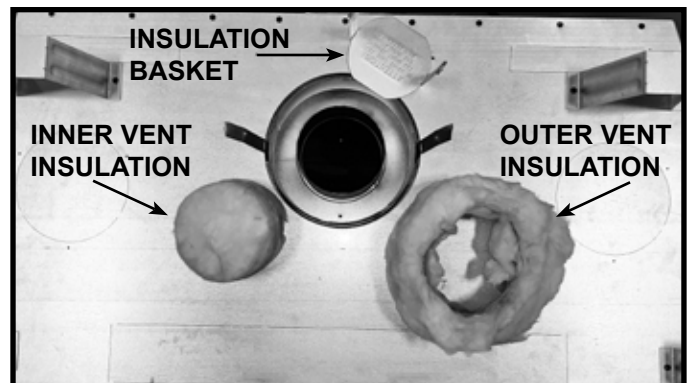
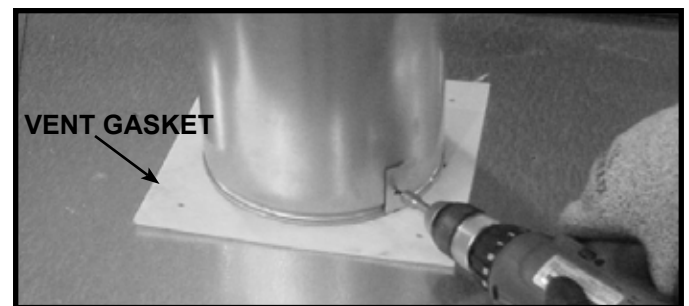


Figure 6.5 Remove Insulation Basket, Inner Vent Insulation and Outer Vent Insulation



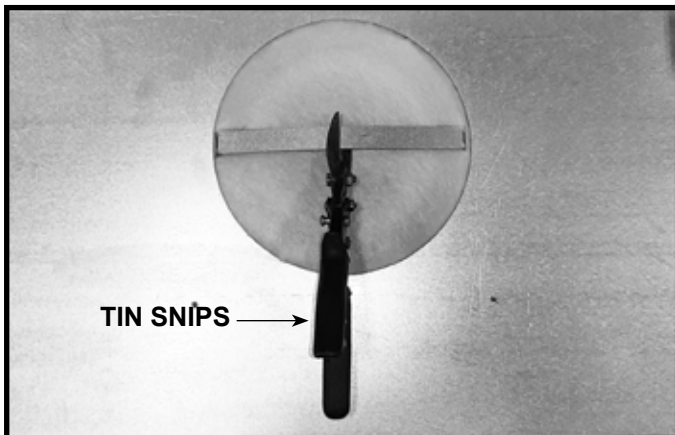
**Figure 6.6 (Generic Fireplace Shown)** To attach the first section of vent pipe, make sure to use the vent gasket in the manual bag to seal between the first vent component and the outer fireplace wrap. Seal with four screws or caulk with a minimum of 300 °F continuous exposure rating may be used to hold the part in place.

Secure the first section of venting to the fireplace by screwing through the two straps left over from cutting the seal cap strap (Figure 6.6).

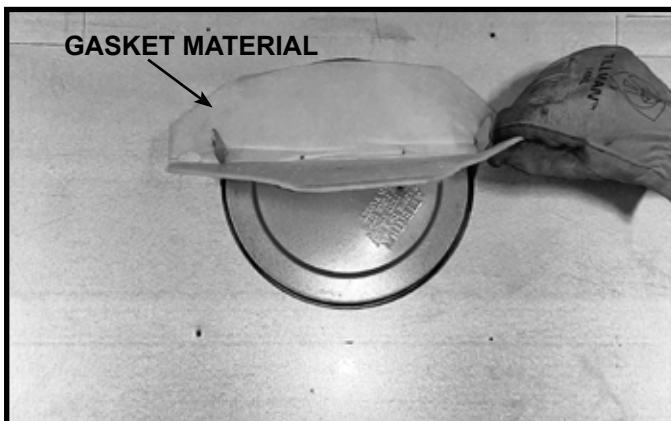
It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, **DO NOT** penetrate inner pipe.

## Rear Vent

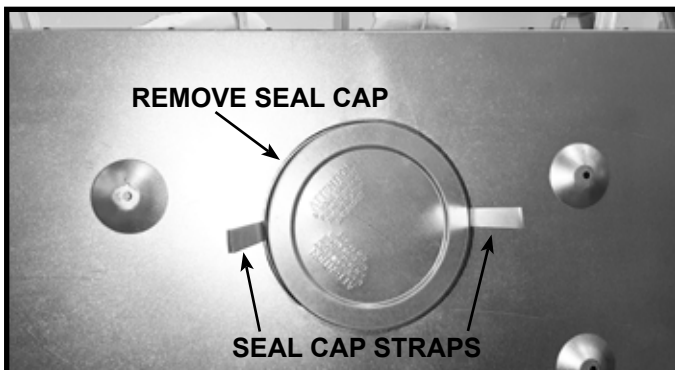
**NOTICE:** Once appliance is set up for top or rear venting, it **CANNOT** be changed at a later time.



**Figure 6.7** Cut Seal Cap Strap Using a Tin Snips and Bend the Pieces to 90 Degrees

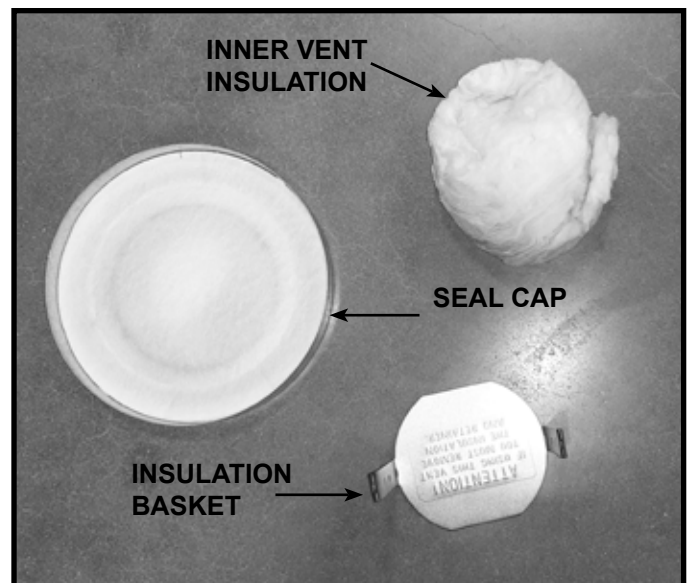


**Figure 6.8** Remove the White Gasket Material Covering the Seal Cap

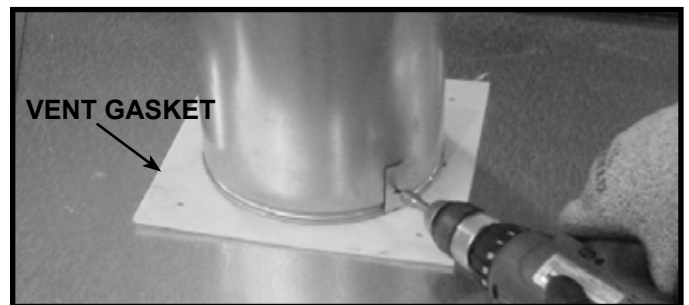


**Figure 6.9** Remove Seal Cap

**NOTICE:** Once the seal cap has been removed it **CANNOT** be reattached.



**Figure 6.10** Remove Insulation Basket and Inner Vent Insulation



**Figure 6.11 (Generic Fireplace Shown)** To attach the first section of vent pipe, make sure to use the vent gasket in the manual bag to seal between the first vent component and the outer fireplace wrap. Seal with four screws or caulk with a minimum of 300 °F continuous exposure rating may be used to hold the part in place.

Secure the first section of venting to the fireplace by screwing through the two straps left over from cutting the seal cap strap (Figure 6.11).

It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, **DO NOT** penetrate inner pipe.

## B. Prepare For Heat Management

**WARNING! Risk of Fire! DO NOT block passive heat registers! Overheating of appliance and combustible materials will occur.**

**WARNING! Risk of Fire! DO NOT remove a knockout unless a heat management system will be installed in its place. Appliance and combustible materials will overheat.**

### Introduction

An optional heat management system allows the heat from the appliance to be redirected as desired.

An optional heat management system must be installed by a qualified service technician at the time of the appliance installation. Follow the instructions shipped with the kit for installation and operation.

#### Heat Management System options are:

- **HEAT-ZONE®-GAS:** The heat is diverted into an adjacent room. The HZMR-ADP Heat-Zone Adapter kit may be required and is ordered separately. See Table 6.1.
- **HEAT-OUT-GAS:** The heat is diverted outside the home/building.
- **Passive Heat (PH-MR):** The heat is vented into the room in which the appliance is installed through a discharge opening(s).

**NOTICE:** Additional clearances are required for heat management systems installations. Provisions must be made in advance to ensure fit within the framing.

- Determine the heat management system(s) that will be installed.
- Locate the two heat management knockouts on the top of the appliance. Remove the knockout from the fireplace and discard it. See Figure 6.12. Either one or two heat management systems may be installed. Remove the knockout(s) from the appliance with a tin snips.
- Center the duct collar around the exposed hole and attach it to the appliance with 3 screws.

**Note:** Do this BEFORE final positioning of the appliance.

- Determine the location for the air register/fan housing assembly.

Reference the appropriate instructions included with the kit for the remaining installation steps.

These models may utilize two Heat Management Systems.

The HEAT-OUT-GAS kit may be used with either HEAT-ZONE®-GAS or one of the Passive Heat options.

Passive Heat may be used with HEAT-OUT-GAS or one HEAT-ZONE®-GAS. The dedicated knockouts, as shown in Figure 6.12, must be used only as indicated.

**Note:** When a fan is operated with the Passive Heat system, there will be a decrease in the amount of air flowing from the appliance opening. Air will be flowing from both the appliance opening and the passive heat opening.

HZMR-ADP	
HEAT-ZONE-GAS	Required
HEAT-ZONE-GAS + PASSIVE HEAT	Not Required

Table 6.1 HZMR-ADP Kit

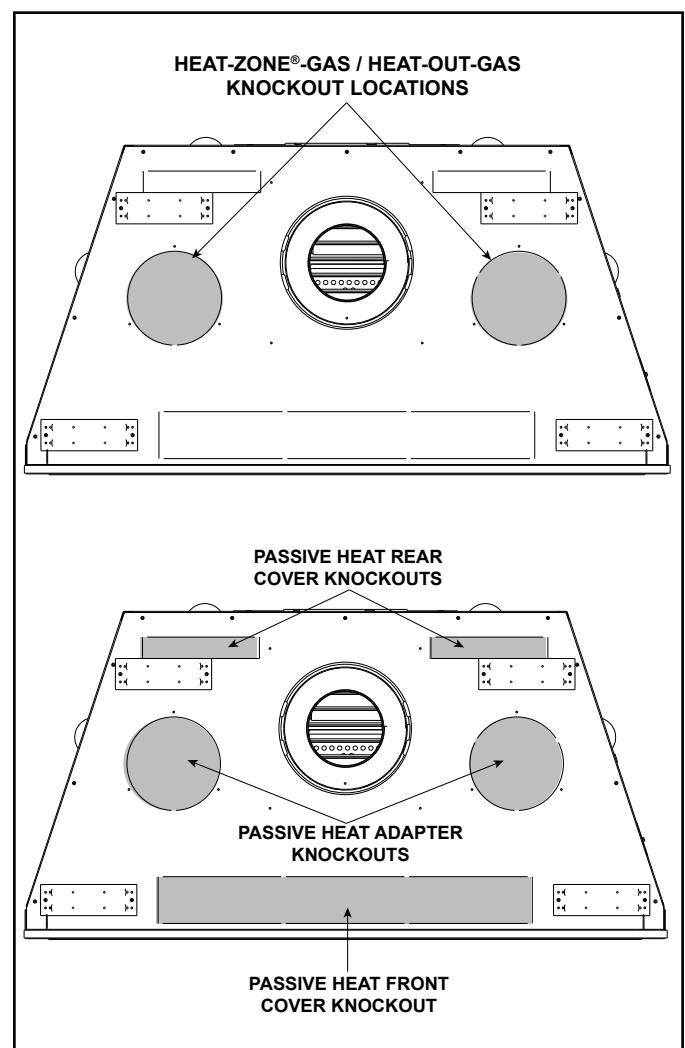


Figure 6.12 Heat Management Knockout Locations

## C. Securing and Leveling the Appliance

### ⚠ WARNING



#### Risk of Fire!

Prevent contact with:

- *Sagging or loose insulation*
- *Insulation backing or plastic*
- *Framing and other combustible materials*

**DO NOT remove standoffs or notch the framing around the appliance standoffs.**

*Failure to maintain air space clearance could cause overheating and fire.*

*Block openings into the chase to prevent entry of blown-in insulation. Make sure insulation and other materials are secured.*

The diagram shows how to properly square, position, and secure the appliance. See Figures 6.13 and 6.14. Nailing tabs are provided to secure the appliance to the framing members.

- Bend out nailing tabs on each side.
- Place the appliance into position.
- Keep nailing tabs flush with the framing.
- Level the appliance from side to side and front to back.
- “Square” the appliance by securing diagonal dimensions to within 1/4 inch of each other. See Figure 6.14.
- Shim the appliance as necessary. It is acceptable to use wood shims underneath the appliance.
- Secure the appliance to the framing by using nails or screws through the nailing tabs. Use a minimum of one fastener per nailing tab.
- Optional: Secure the appliance to the floor by inserting two screws through the pilot holes at the bottom of the appliance.

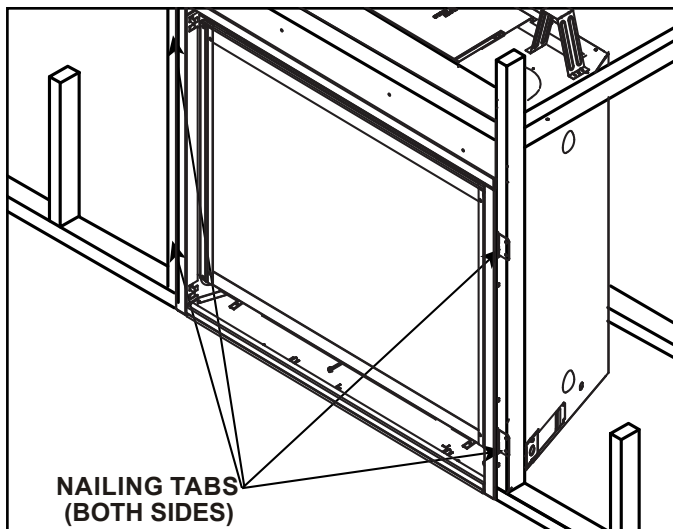


Figure 6.13 Proper Positioning and Securing of an Appliance

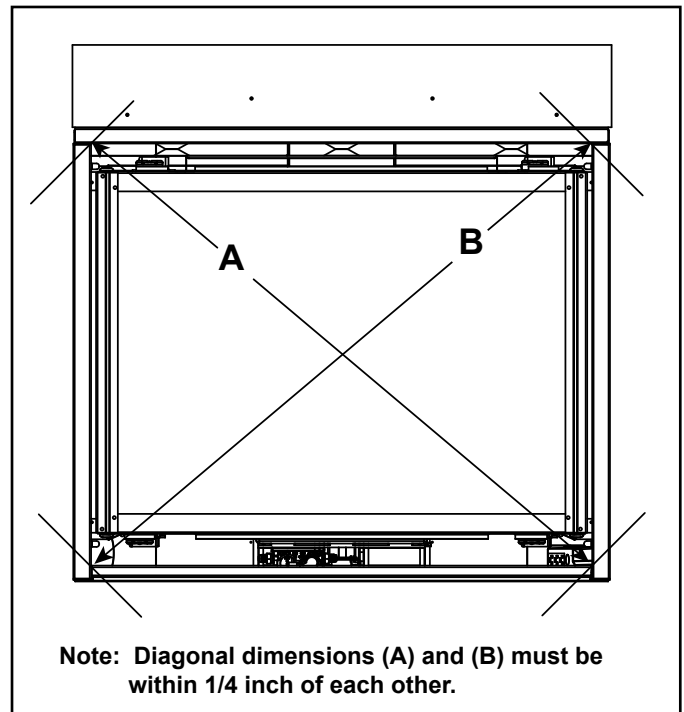


Figure 6.14 Positioning the Appliance Squarely

## D. Non-Combustible Material (Factory-Installed)

**WARNING! Risk of Fire! DO NOT remove factory-installed non-combustible material.**

A non-combustible board is factory-installed above the fireplace opening. Do not remove.

The factory supplied non-combustible board spans the distance from the top of the fireplace to the center of the framing header. This board must be used. See Figure 6.15.

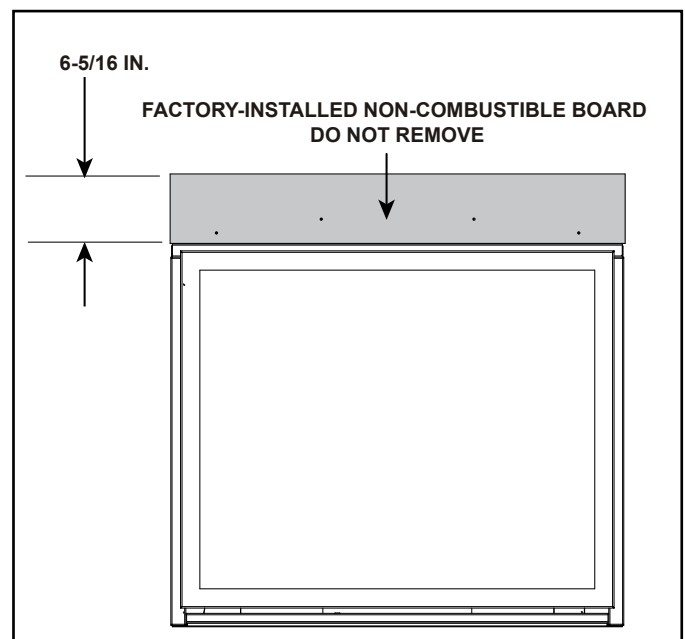


Figure 6.15 Non-Combustible Board - Generic Decorative Barrier Front Shown



# 7 Venting

## A. Assemble Vent Sections (DVP Pipe Only)

**WARNING! Risk of Fire or Explosion!** Vent sections *MUST* be installed correctly. Improperly installed vent sections could leak or cause appliance to overheat.

### Attach Vent to the Firebox Assembly

**Note:** The end of the pipe sections with the lanced tabs will face toward the appliance.

Attach the first pipe section to the starting collar:

- Lanced pipe end of the starting collar.
- Inner pipe over inner collar.
- Push the pipe section until all lanced tabs snap in place.
- Lightly tug on pipe to confirm it has locked.

**Required: Commercial, Multi-family (Multi-level exceeding two stories), or High-Rise Applications**

**Recommended: Vent Configurations with five or more pipe joints/pipe connections**

**WARNING! Risk of Fire or Explosion! DO NOT break silicone seals on slip sections.** Use care when removing termination cap from slip pipe. If slip section seals are broken during removal of the termination cap, vent could leak.

All outer pipe joints must be sealed using one of the methods below, including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant (300 °F minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections. See Figure 7.1 **OR**
- Apply a bead of silicone sealant (300 °F minimum continuous exposure rating) to the outside of connecting joint after joining sections **OR**

Apply aluminum foil tape (300 °F minimum continuous exposure rating) to the outside of connecting joint after joining sections. On horizontal pipe runs, it is recommended that the tape seam is positioned on the bottom side of the vent pipe.

- Only outer pipes need to be sealed. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner, unless otherwise stated.

## Assemble Pipe Sections

Per Figure 7.2:

- Start the inner pipe on the lanced end of section A into the flared end of section B.
- Start the outer pipe of section A over the outer pipe of section B.
- Once both vents sections are started, push firmly until all lanced tabs lock into place.
- Lightly tug on the pipe to confirm the tabs have locked.

It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, **DO NOT** penetrate inner pipe.

For 90° and 45° elbows that are changing the vent direction from horizontal to vertical, one screw minimum should be put in the outer flue at the horizontal elbow joint to prevent the elbow from rotating. Use screws no longer than 1/2 in. (13 mm). If predrilling screw holes, **DO NOT** penetrate inner pipe.



Figure 7.1 High Temperature Silicone Sealant

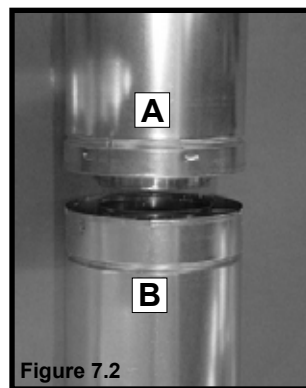


Figure 7.2

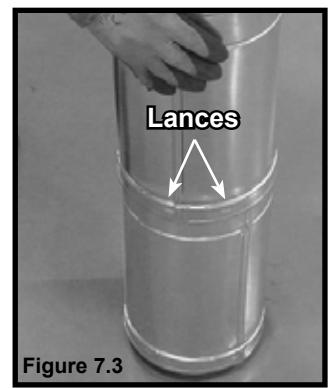
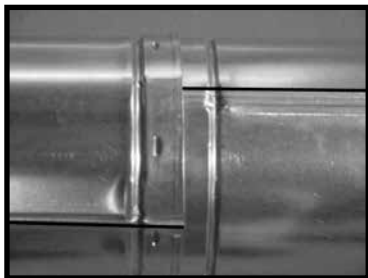
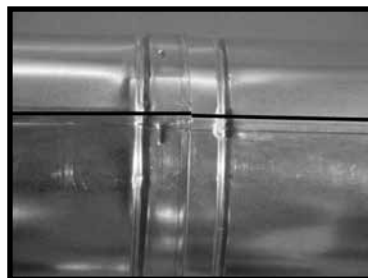


Figure 7.3

**Note:** Make sure that the seams are not aligned to prevent unintentional disconnection.



**CORRECT**



**INCORRECT**

Figure 7.4 Seams

**NOTICE:** When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high temperature silicone sealant (300 °F minimum continuous exposure rating).

- Apply a bead of silicone sealant (300 °F minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections.
- Only outer pipes are sealed, sealing the inner flue is not required.
- All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed.

## Assemble Vent Sections (SLP Only)

**WARNING! Risk of Fire or Explosion!** Vent sections *MUST* be installed correctly. Improperly installed vent sections could leak or cause appliance to overheat.

To attach the first vent component to the starting collars of the appliance:

- Attach a DVP-SLP24 or DVP-2SL adapter to the starting collar of the appliance.
- Lock the vent components into place by sliding the pipe section onto the collar.
- Align the seam of the pipe and seam of collar to allow engagement. Rotate the vent component to lock into place. Use this procedure for all vent components. See Figure 7.5.
- Slide the gasket over the first vent section and place it flush to the appliance. This will prevent cold air infiltration. Caulk with a minimum of 300 °F continuous exposure rating may be used to hold the part in place.
- Continue adding vent components, locking each succeeding component into place.
- Ensure that each succeeding vent component is securely fitted and locked into the preceding component.

It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, **DO NOT** penetrate inner pipe.

**Required: Commercial, Multi-family (Multi-level exceeding two stories), or High-Rise Applications**

**Recommended: Vent Configurations with five or more pipe joints/pipe connections**

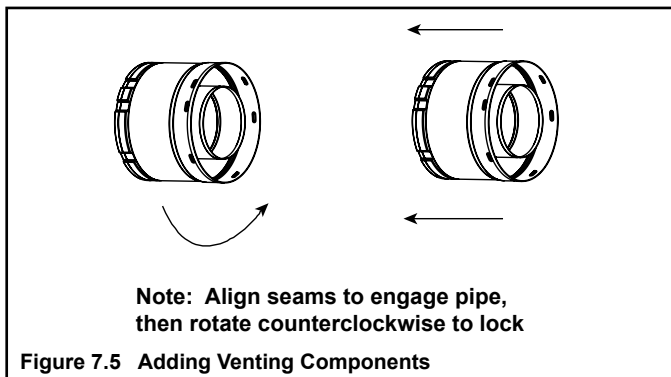
**WARNING! Risk of Fire or Explosion! DO NOT break silicone seals on slip sections.** Use care when removing termination cap from slip pipe. If slip section seals are broken during removal of the termination cap, vent could leak.

All outer pipe joints must be sealed using one of the methods below, including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant (300 °F minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections. See Figure 7.1 **OR**
- Apply a bead of silicone sealant (300 °F minimum continuous exposure rating) to the outside of connecting joint after joining sections **OR**  
Apply aluminum foil tape (300 °F minimum continuous exposure rating) to the outside of connecting joint after joining sections. On horizontal pipe runs, it is recommended that the tape seam is positioned on the bottom side of the vent pipe.
- Only outer pipes need to be sealed. All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed in this manner, unless otherwise stated.



**WARNING! Risk of Fire or Explosion! DO NOT break silicone seals on slip sections. Use care when removing termination cap from slip pipe. If slip section seals are broken during removal of the termination cap, vent could leak.**



**NOTICE:** When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high temperature silicone sealant (300 °F minimum continuous exposure rating).

- Apply a bead of silicone sealant (300 °F minimum continuous exposure rating) inside the female outer pipe joint prior to joining sections.
- Only outer pipes are sealed, sealing the inner flue is not required.
- All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed.

## B. Assemble Slip Sections

- Slide the inner flue of the slip section into the inner flue of the pipe section and the outer flue of the slip section over the outer flue of the pipe section. See Figure 7.6.
- Slide together to the desired length.

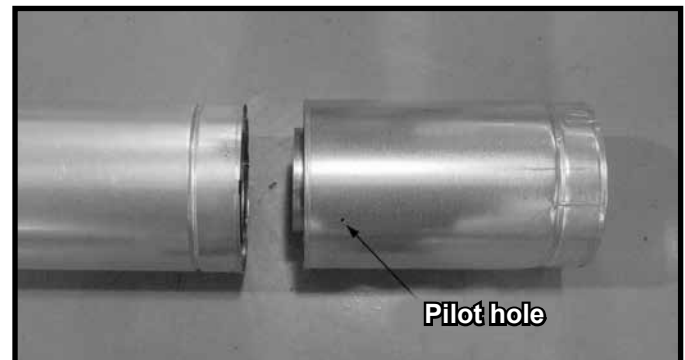


Figure 7.6 Slip Section Pilot Holes

- Maintain a 1-1/2 in. (38 mm) overlap between the slip section and the pipe section.
- Secure the pipe and slip section with two screws no longer than 1/2 in. (13 mm), using the pilot holes in the slip section. See Figure 7.7.

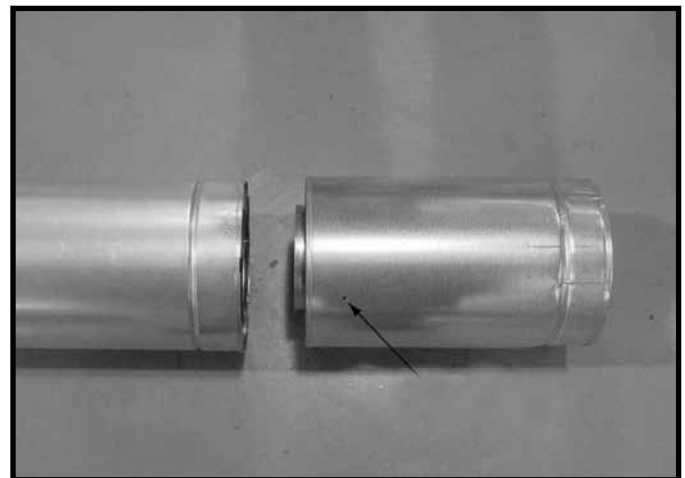


Figure 7.7 Screws into Slip Section

- Continue adding pipe as necessary following instructions in "Assembling Pipe Sections."

**NOTICE:** If slip section is too long, the inner and outer flues of the slip section can be cut to the desired length.

## C. Secure the Vent Sections

**WARNING! Risk of Fire, Explosion or Asphyxiation!** Improper support could allow vent to sag and separate. Use vent run supports and connect vent sections per installation instructions. **DO NOT** allow vent to sag below connection point to appliance.

- Vertical runs originating off the top of the appliance, with no offsets, must be supported every 8 feet (2.44 m) after the maximum allowed 25 feet (7.62 m) of unsupported rise.
- Vertical runs originating off the rear of the appliance, or after any elbow, must be supported every 8 feet (2.44 m).
- Horizontal runs must be supported every 5 feet (1.52 m).
- Vent supports or plumbers strap (spaced 120° apart) may be used to support vent sections. See Figures 7.8 and 7.9.

**Note:** Figures 7.8 and 7.9 are to be used for reference only. Method of strap installation could vary by configuration of vent system.

- Wall shield firestops may be used to provide horizontal support to vent sections.
- SLP ceiling firestops have tabs that may be used to provide vertical support.

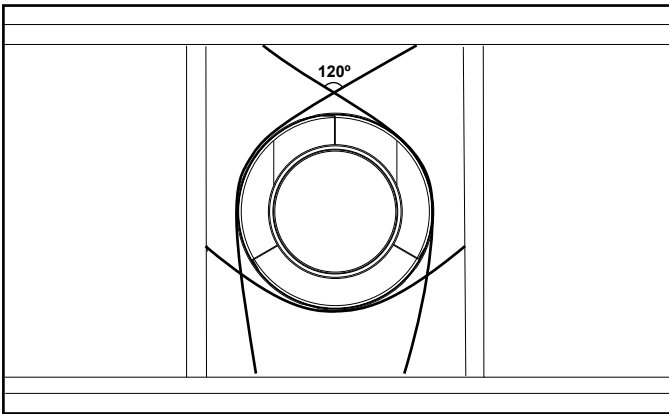


Figure 7.8 Securing Vertical Pipe Sections

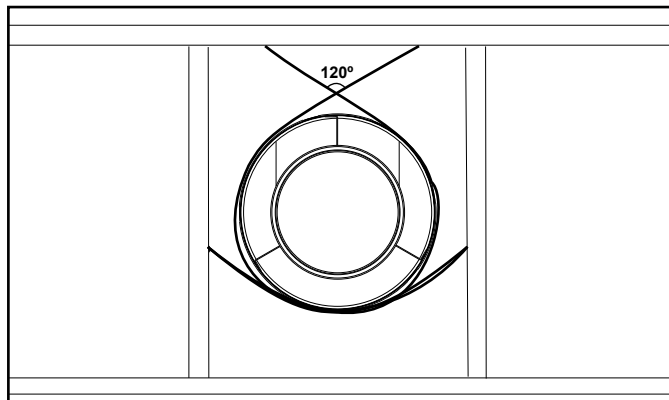


Figure 7.9 Securing Horizontal Pipe Sections

## D. Disassemble Vent Sections

- Rotate either section (see Figure 7.10) so the seams on both pipe sections are aligned as shown in Figure 7.11.
- Pull carefully to separate the pieces of pipe.

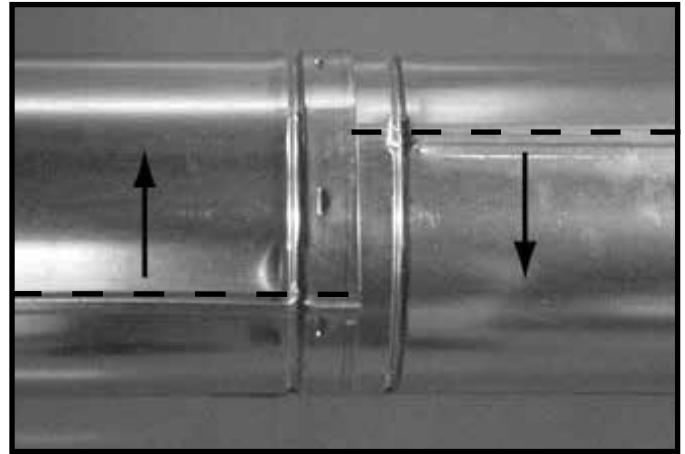


Figure 7.10 Rotate Seams for Disassembly

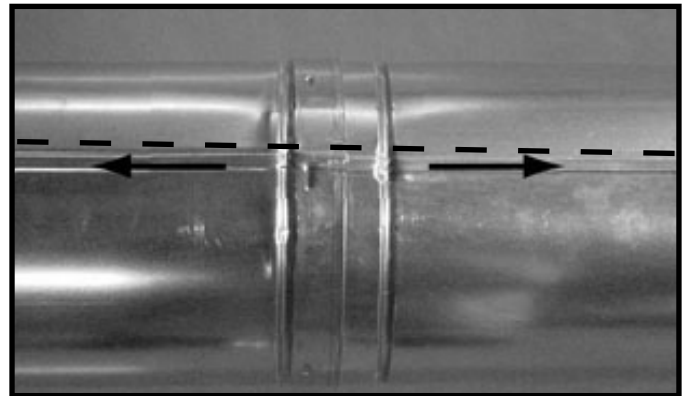


Figure 7.11 Align and Disassemble Vent Sections

## E. Vertical Termination Requirements

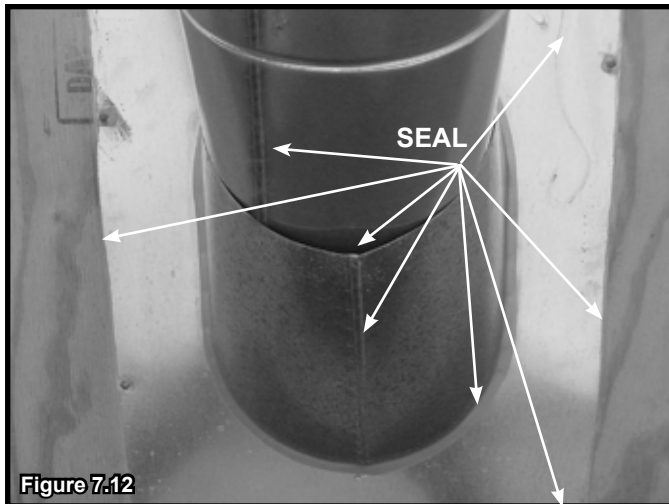
### Install and Seal Metal Roof Flashing

- See minimum vent heights for various pitched roofs (Section 4, Figure 4.1) to determine the length of pipe to extend through the roof.
- Slide the roof flashing over the pipe sections extending through the roof as shown in Figure 7.12.
- Use an elastomeric or silicone sealant with a minimum of 150 °F temperature rating to seal the metal roof flashing.

**Note:** When installing a silicone or EPDM pipe flashing boot on a metal roof, it is recommended to put a bead of 100% silicone sealant where the boot contacts the vent pipe to prevent the entry of water. Follow the manufacturer's recommendations when installing the boot.

**NOTICE:** Failure to properly seal the roof flashing and pipe seams could permit entry of water.

- Seal the gap between the roof flashing and the outside diameter of the pipe.
- Seal the perimeter of the flashing where it contacts the roof surface. See Figure 7.12.
- Seal the exposed pipe section seams that are located above the roof.



### Assemble and Install Storm Collar

**CAUTION! Risk of Cuts, Abrasions or Flying Debris.** Wear protective gloves and safety glasses during installation. Sheet metal edges are sharp.

- Slide the storm collar onto the exposed pipe section and align brackets.
- Insert a bolt (provided) through the brackets and install nut. Do not completely tighten.



Figure 7.13 Insert Bolt into Brackets

- Slide the assembled storm collar down the pipe section until it rests on the roof flashing. See Figure 7.13.
- Tighten nut and make sure the collar is tight against the pipe section.
- Seal around the top of the storm collar. See Figure 7.14.

### Install Vertical Termination Cap

- Attach the vertical termination cap by sliding the inner collar of the cap into the inner flue of the pipe section while placing the outer collar of the cap over the outer flue of the pipe section.
- Secure the cap by driving three self-tapping screws (supplied) through the pilot holes in the outer collar of the cap into the outer flue of the pipe. See Figure 7.14.

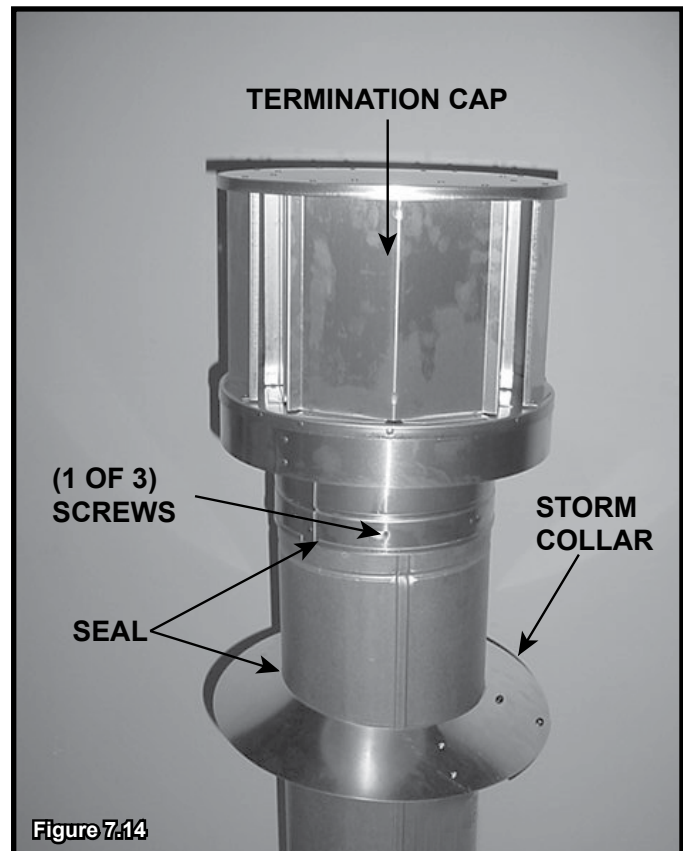


Figure 7.14

## F. Horizontal Termination Requirements

### Heat Shield Requirements for Horizontal Termination

**WARNING! Risk of Fire!** To prevent overheating and fire, heat shields must extend through the entire wall thickness.

- **DO NOT** remove the heat shields attached to the wall shield firestop and the horizontal termination cap (shown in Figure 7.15).
- Heat shields must overlap 1-1/2 in. (38 mm) minimum.

There are two sections of the heat shield. One section is factory-attached to the wall shield firestop. The other section is factory-attached to the cap. See Figure 7.15.

If the wall thickness does not allow the required 1-1/2 in. (38 mm) heat shield overlap when installed, an extended heat shield must be used.

- If the wall thickness is less than 4 in./102 mm (DVP) or 4-3/8 in./ 111 mm (SLP), the heat shields on the cap and wall shield firestop must be trimmed. A minimum 1-1/2 in. (38 mm) overlap MUST be maintained.
- Use an extended heat shield if the finished wall thickness is greater than 7-1/4 in. (184 mm).
- The extended heat shield may need to be cut to length maintaining sufficient length for a 1-1/2 in. (38 mm) overlap between heat shields.
- Attach the extended heat shield to either of the existing heat shields using the screws supplied with the extended heat shield. Refer to Vent Components document included in manual bag.
- Rest the small leg on the extended heat shield on top of the pipe section to properly space it from the pipe section.

**Important Notice:** Heat shields may not be field constructed.

### Install Horizontal Termination Cap (DVP and SLP Pipe)

**WARNING! Risk of Fire!** The telescoping flue section of the termination cap **MUST** be used when connecting vent.

- 1-1/2 (38 mm) minimum overlap of flue telescoping section is required.

Failure to maintain overlap could cause overheating and fire.

- Vent termination must not be recessed in the wall. Siding may be brought to the edge of the cap base.
- Flash and seal as appropriate for siding material at outside edges of cap.
- When installing a horizontal termination cap, follow the cap location guidelines as prescribed by current **ANSI Z223.1** and **CAN/CGA-B149** installation codes and refer to Section 4 of this manual.

**CAUTION! Risk of Burns!** Local codes may require installation of a cap shield to prevent anything or anyone from touching the hot cap.

**NOTICE:** For certain exposures which require superior resistance to wind-driven rain penetration, a flashing kit and HRC caps are available. When penetrating a brick wall, a brick extension kit is available for framing the brick.

**Note:** When using termination caps with factory-supplied heat shield attached, no additional wall shield firestop is required on the exterior side of a combustible wall.

### DVP-TRAP1 Exception

See Section 3.C for DVP-TRAP1 exception for top vent, horizontally terminated installation.

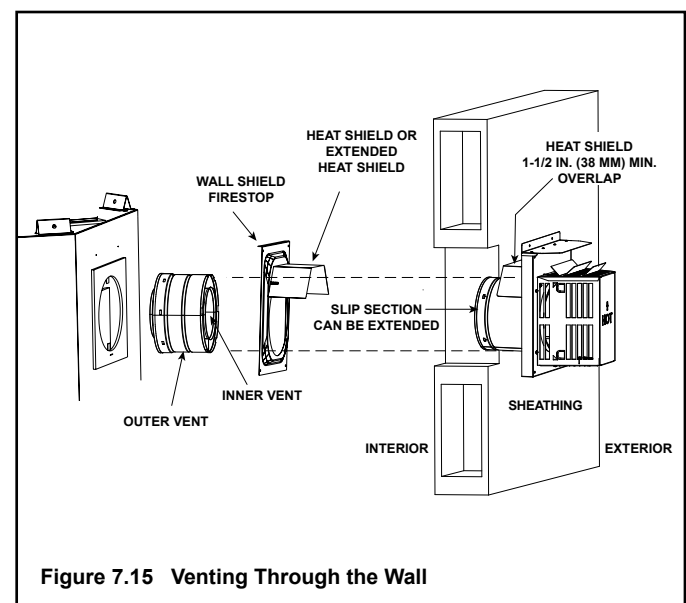


Figure 7.15 Venting Through the Wall

# 8 Electrical Information

## A. General Information

**WARNING! Risk of Shock! DO NOT** wire 110-120 VAC to the ignition module or to the appliance wall switch.

Incorrect wiring will damage controls.

**NOTICE:** 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**.

- Wire the appliance circuit using a minimum 14-2 AWG with ground to unswitched 110-120 VAC. This is required for proper operation of the appliance.
- A 110-120 VAC circuit for this product must be protected with ground-fault circuit interrupter protection, in compliance with the applicable electrical codes, when it is installed in locations such as in bathrooms or near sinks.
- Low voltage and 110-120 VAC voltage cannot be shared within the same wall box.
- In some instances, the spark ignition of the fireplace may cause intermittent, non-damaging, interference during the lighting sequence with a TV plugged into the same circuit. It is recommended that the fireplace and TV use different circuits to mitigate the interference potential. If interference is occurring on the same circuit, the use of surge protectors may help alleviate the interference.

## Junction Box Wiring

If the box is being wired from the **INSIDE** of the appliance:

- Remove the screw attaching the junction box/receptacle to the outer shell, rotate the junction box inward to disengage it from the outer shell. See Figure 8.1 and Figure 8.2.
- Pull the electrical wires from outside the appliance through the opening into the valve compartment and secure wires with a Romex connector. See Figure 8.1.
- Make all necessary wire connections to the junction box/receptacle and reattach the junction box/receptacle to the outer shell.

## Accessories Requirements

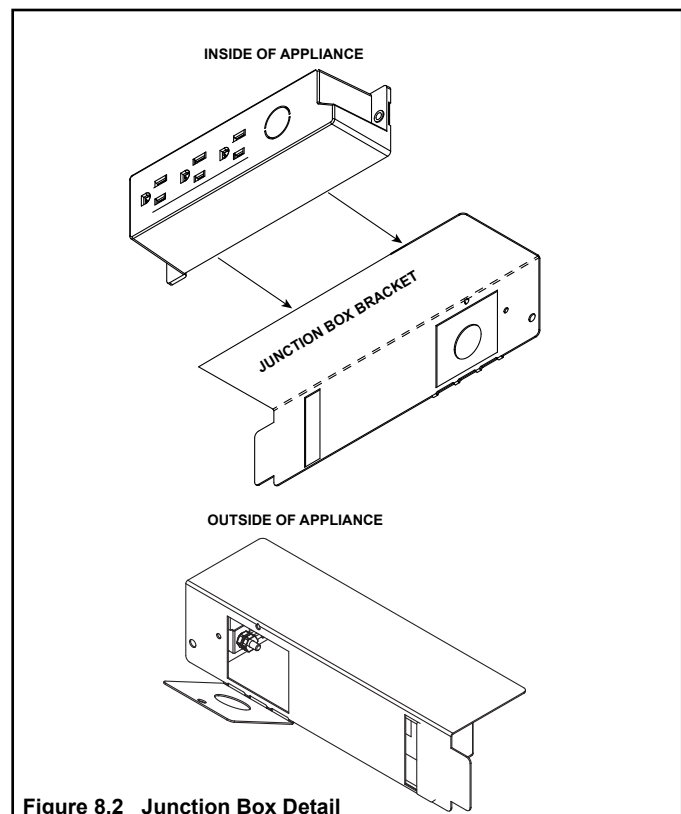
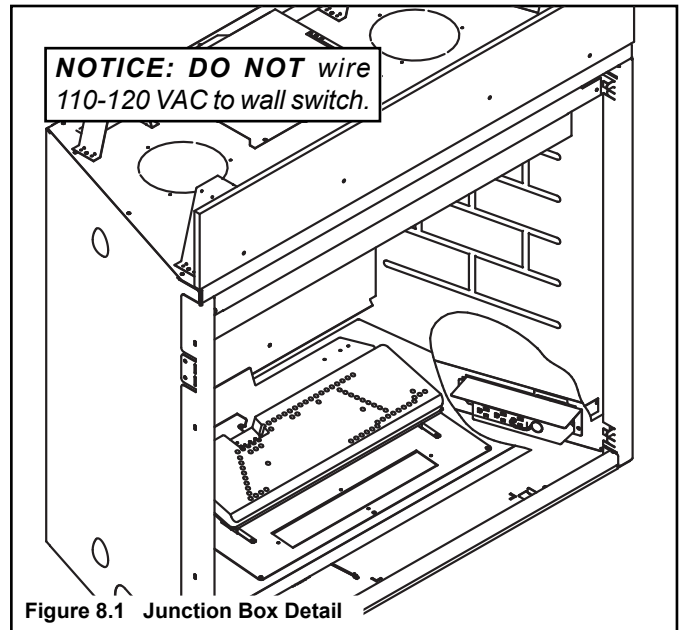
- This appliance may be used with a wall switch, wall mounted thermostat and/or a remote control.

Wiring for optional Hearth & Home Technologies approved accessories should be done now to avoid reconstruction. Follow instructions that come with those accessories.

## Electrical Service and Repair

**WARNING! Risk of Shock! Label all wires prior to disconnection when servicing controls. Wiring errors could cause improper and dangerous operation. Verify proper operation after servicing.**

**WARNING! Risk of Shock! Replace damaged wire with type 105° C rated wire. Wire must have high temperature insulation.**



## Component Tray

The electrical components are installed on the component tray, noted in Figure 8.3. The components may be removed if necessary. Once components are reinstalled, ensure the electrical components are connected properly.

To remove the IFT-ECM, gently pull up on the ECM, lifting it enough to clear the tabs (A) and disengage from tab B.

## Wire Management

Proper wire management is required for proper operation of the appliance. Component damage could occur if electrical cords and/or wires contact the firebox. Ensure wires are not contacting the firebox.

**NOTICE:** Verify proper wire management prior to operation of the appliance. Component damage could occur.

- Verify electrical wire connections.
- Ensure wires **DO NOT** contact firebox.

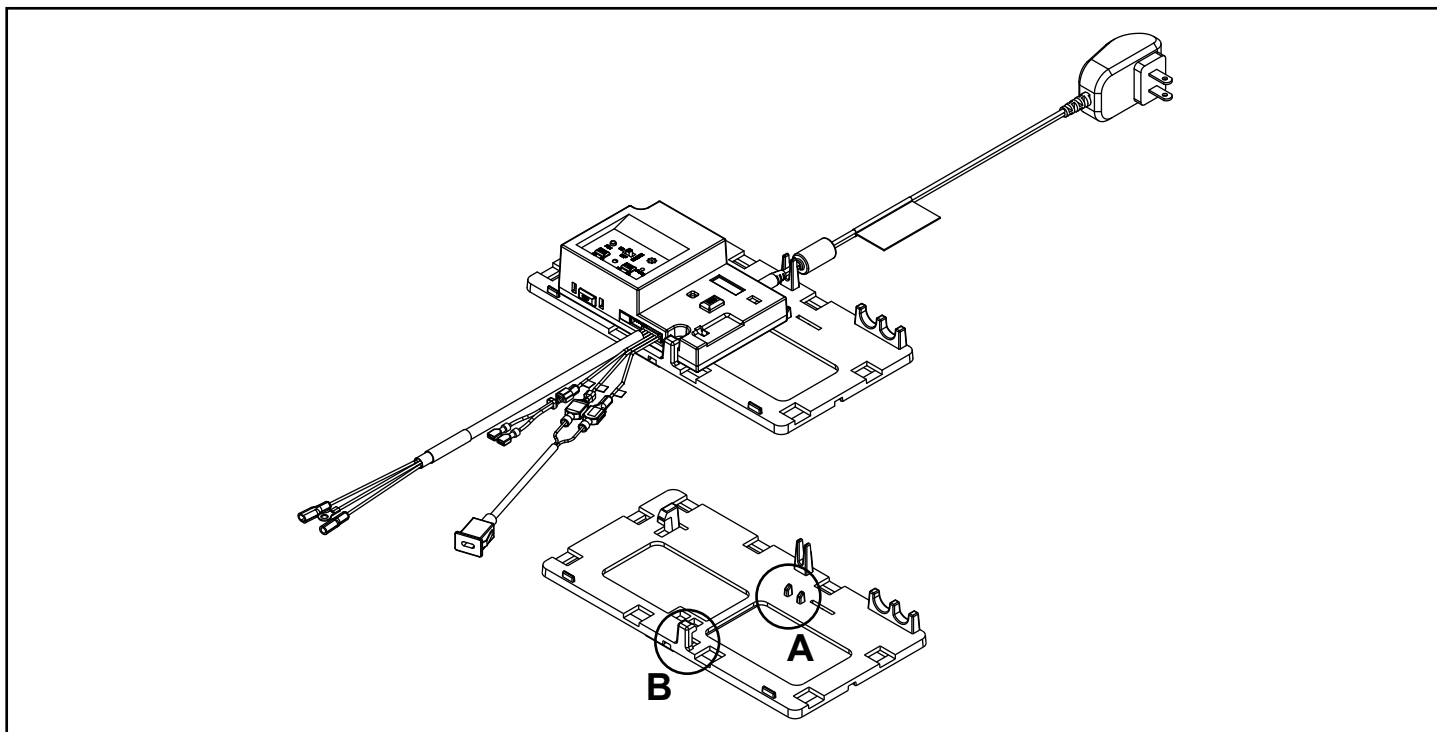


Figure 8.3 Electrical Component Tray

## B. Wiring Requirements

### IntelliFire Touch® Ignition System Wiring

- Wire the appliance junction box to 110-120 VAC for proper operation of the appliance.

**WARNING! Risk of Shock or Explosion! DO NOT** wire IPI controlled appliance junction box to a switched circuit. Incorrect wiring will override IPI safety lockout.

- Refer to Figure 8.4, IntelliFire Touch Wiring Diagram.
- This appliance is equipped with an IntelliFire Touch control valve which operates on a 6 volt/1.5 AMP system.
- Plug the 6 volt transformer plug into the appliance junction box to supply power to the unit OR install 4 AA cell batteries (not included) into the battery pack before use.

**NOTICE:** Batteries should only be used as a power source in the event of an emergency power outage. Batteries should not be used as a primary long-term power source. Battery polarity must be correct when installing batteries. When using batteries as a power source, the 6-volt transformer must be unplugged from the receptacle.

Do not store batteries in the battery pack when the appliance is powered by the 6 volt transformer connected to permanent electrical service.

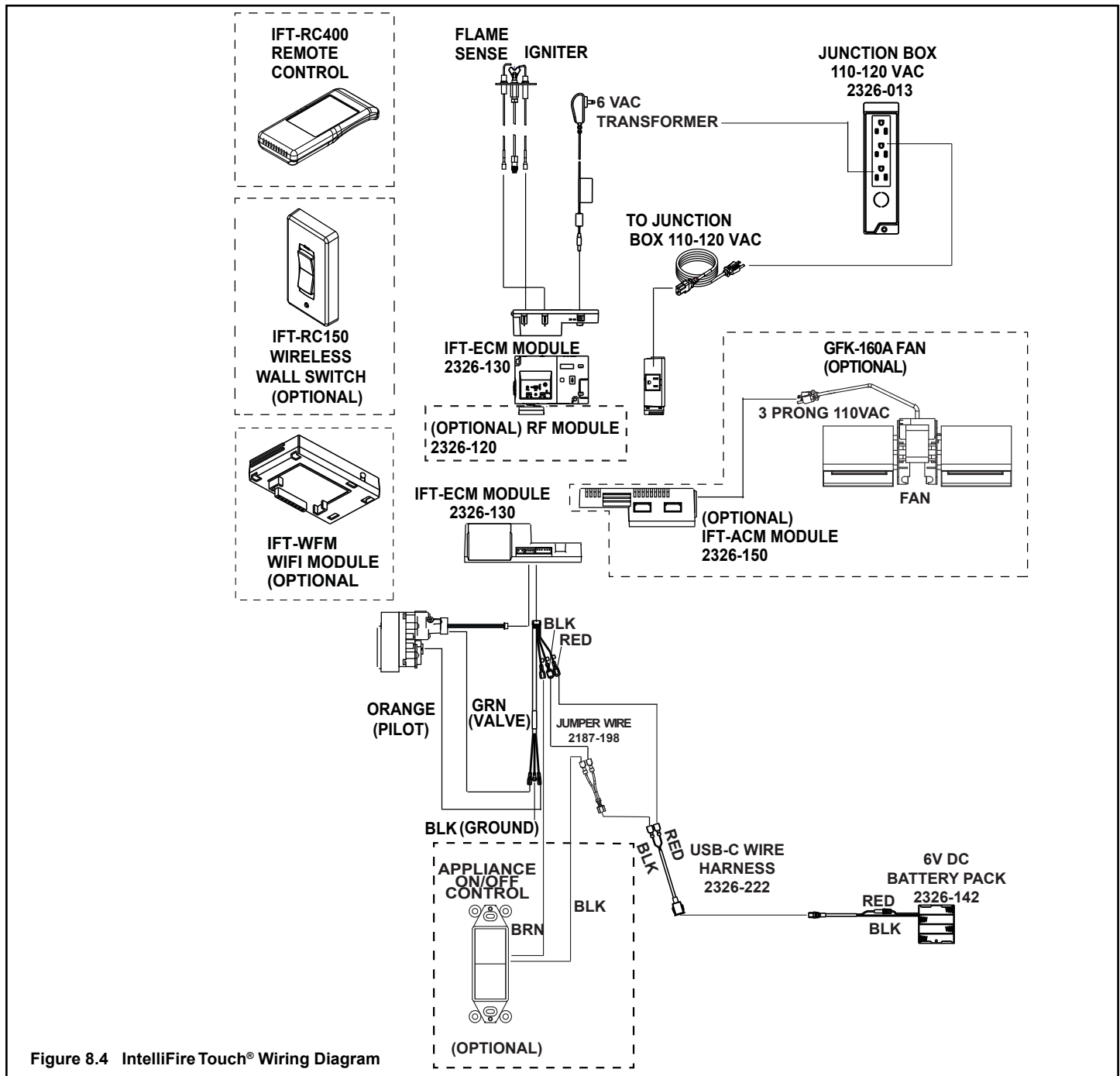


Figure 8.4 IntelliFire Touch® Wiring Diagram

## C. Fan Installation

Fan installation should be performed by a qualified service technician.

Option 1 (Prior to installation of appliance):

- Remove the screws on the fan access plate on the back of the appliance. See Figure 8.5.
- Remove fan access plate and install fan through the fan access cavity.
- Install and wire the fan per instruction shipped with the fan.
- Reinstall the fan access plate back on the appliance.

Option 2:

- Remove decorative barrier front, glass, logs, base pan assembly, burner assembly and valve plate assembly.
- Install fan through the valve plate cavity. See Figure 8.6.
- Install and wire the fan per instruction shipped with the fan. Figure 8.4 also shows additional details
- Reinstall valve plate assembly, burner assembly, base pan assembly, logs, appliance glass and decorative barrier front.

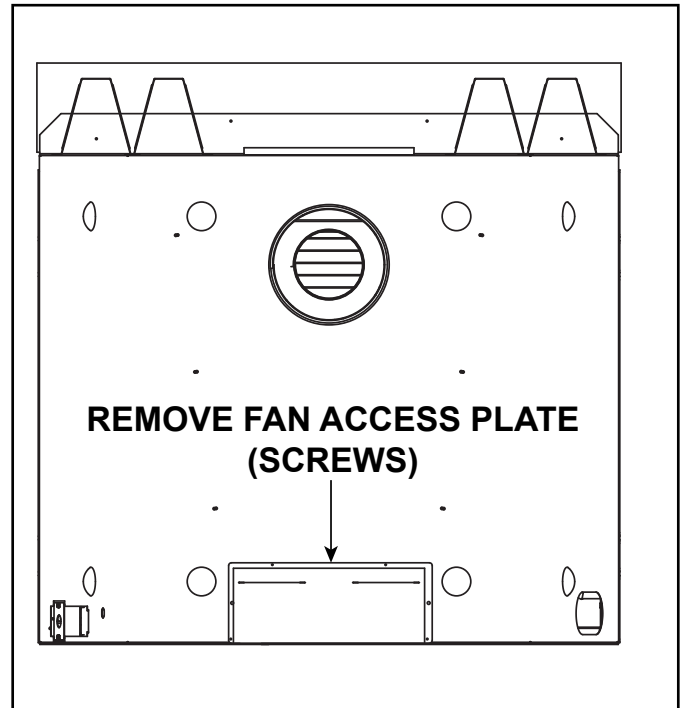


Figure 8.5 Remove Fan Access Plate

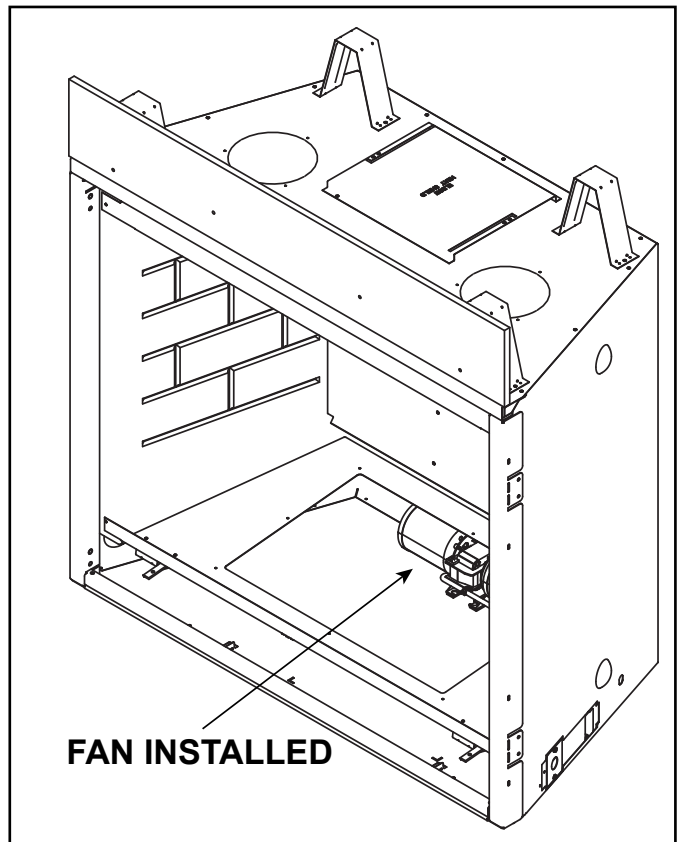


Figure 8.6 Fan Installed in Valve Plate Cavity

## D. Service for Fan

If appliance is already installed, service should be performed by a qualified service technician.

- Remove decorative barrier front, glass, logs, base pan assembly, burner assembly and valve plate assembly.
- Service can be performed through the valve plate cavity. See Figure 8.6.
- Reinstall valve plate assembly, burner assembly, basepan assembly, logs, appliance glass and decorative barrier front.




# 9 Gas Information

## A. Fuel Conversion

- Make sure the appliance is compatible with available gas types.
- Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

## B. Gas Pressure

⚠ WARNING



Fire Risk.  
Risk of Fire! Risk of Explosion!  
High pressure will damage valve.

- Isolate gas supply piping BEFORE pressure testing gas line.
- Close the manual shutoff valve BEFORE pressure testing gas line.

- Optimum appliance performance requires proper input pressures.
- Gas line sizing requirements will be determined in ANSI Z223.1 National Fuel Gas Code in the USA and CAN/CGA B149 in Canada.
- Pressure requirements when in operation are:

Gas Pressure	Natural Gas	Propane
Minimum inlet pressure	5.0 in. w.c.	11.0 in. w.c.
Maximum inlet pressure	10.0 in. w.c.	13.0 in. w.c.
Manifold pressure	3.5 in. w.c.	10.0 in. w.c.

- Elongated pressure taps are recommended for gas pressure testing on these models.
- Verify inlet pressures. Verify minimum pressures when other household gas appliances are operating.
- Install regulator upstream of valve if line pressure is greater than 1/2 psig.

**Note:** Have the gas supply line installed in accordance with local codes, if any. If not, follow ANSI Z223.1. Installation should be done by a qualified installer approved and/or licensed as required by the locality. (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).

**Note:** A listed (and Commonwealth of Massachusetts approved) 1/2 in. (13 mm) T-handle manual shut-off valve and flexible gas connector are connected to the 1/2 in. (13 mm) control valve inlet.

- **If substituting for these components, please consult local codes for compliance.**

## C. Gas Connection

- Refer to Section 3 for location of gas line access in appliance.
- The bottom surround for this appliance may be removed to gain access to the control cavity for ease of access during the gas connection process. See Figure 9.1 and Figure 9.3.
- Gas line may be run through knockout(s) provided.
- The gap between supply piping and gas access hole may be sealed with caulk or aluminum foil tape with a minimum of 300 °F continuous exposure rating or stuffed with non-combustible, unfaced insulation to prevent cold air infiltration.
- Ensure that gas line does not come in contact with outer wrap of the appliance. Follow local codes.
- Pipe incoming gas line into valve compartment.
- Connect incoming gas line to the 1/2 in. (13 mm) NPT connection on manual shutoff valve.

**WARNING! Risk of Fire or Explosion!** Support control when attaching pipe to prevent bending gas line.

**WARNING! Risk of Fire or Explosion!** Gas build-up during line purge could ignite.

- A small amount of air will be in the gas supply lines.
- Ensure adequate ventilation.
- Ensure there are no ignition sources such as sparks or open flames.

Light the appliance. It will take a short time for air to purge from lines. When purging is complete the appliance will light and operate normally.

**WARNING! Risk of Fire, Explosion or Asphyxiation!** Check all fittings and connections with a non-corrosive commercially available leak-check solution. **DO NOT** use open flame. Fittings and connections could have loosened during shipping and handling.

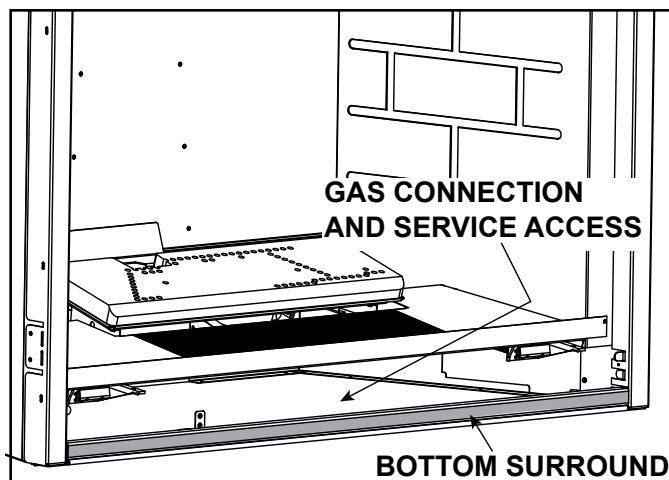


Figure 9.1 Bottom Surround Removal

## D. High Altitude Installations

**NOTICE:** If the heating value of the gas has been reduced, these rules do not apply. Check with your local gas utility or authorities having jurisdiction.

When installing above 2000 feet elevation:

- In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.
- In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m) above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).

Check with your local gas utility to determine proper orifice size.

## E. Air Shutter Setting

**WARNING!** Risk of Explosion or Delayed Ignition! Improperly adjusted air shutter could cause soot buildup.

**CAUTION! Risk of Burns!** Components are HOT! Wear protective gloves when adjusting shutter.

**NOTICE:** If sooting occurs, provide more air by opening the air shutter.

Air shutter settings should be adjusted by a qualified service technician at the time of installation. The air shutter is set at the factory for a typical minimum vent run which consists of enough horizontal vent pipe to terminate through a 2x6 wall:

Top Vented with one 90 degree elbow and DVP-TRAP2 termination cap

Rear Vented with the DVP-TRAP2 termination cap

It may need to be adjusted for other venting scenarios. Adjust air shutter for different vent runs. See Figure 9.2.

- Loosen the wing nut.
- Move the air handle to the right to open the air shutter.
- Move the air handle to the left to close the air shutter.
- Tighten the wing nut.

### Air Shutter Settings

(Factory Set to Minimum Vent Runs)

MODEL	GAS TYPE	MINIMUM VENT RUN
MER36N	NG	5/8 IN.
MER36L	PROPANE	3/4 IN.
MER42N	NG	3/4 IN.
MER42L	PROPANE	3/4 IN.

## Shutter Setting Verification / Flame Appearance

- After 15 minutes, the flames will be a yellow/blue mix. The front flames may be blue at this time.
- After 30 minutes, the flames should be yellow with some blue flames near the burner ports.
- After 1 hour, the flame will be at its maximum maturity.

**NOTICE:** Flames should not appear orange or stretch to the top refractory/ top of firebox. If flames are dark orange with dark, smoky tips, provide more primary air to the burner by opening the air shutter accordingly.

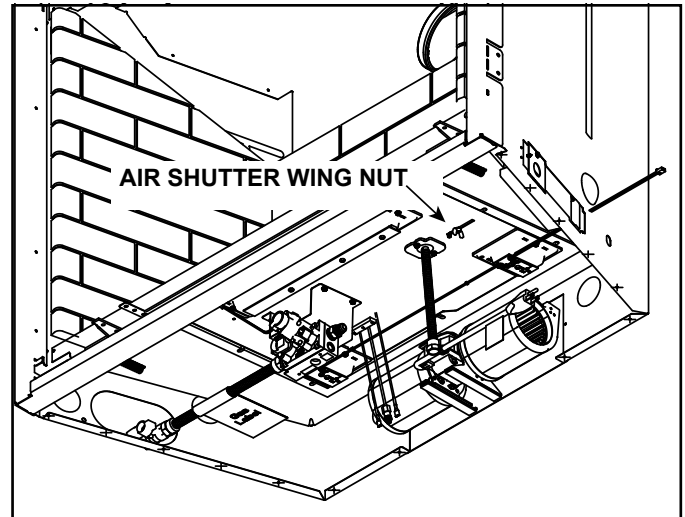


Figure 9.2 Air Shutter

## Burner Identification

Figure 9.3 illustrates the identification pattern of the burner. This can be found on the underside of the burner along an edge.

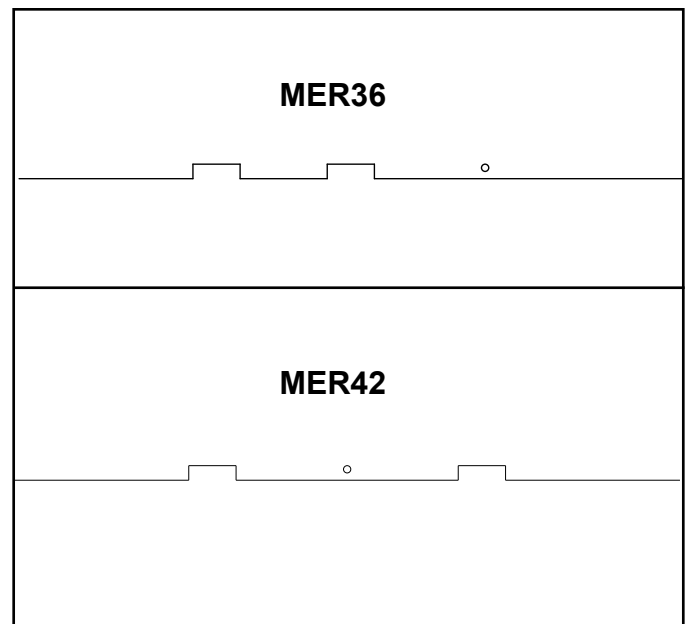


Figure 9.3 Burner Identification

## F. Service/Replace Appliance Gas Valve

**WARNING! Risk of Fire or Explosion!** Turn off gas to appliance before removing components. Support gas line to prevent bending.

- Remove decorative barrier front, glass, logs, base pan assembly, burner assembly and valve plate assembly. See Figure 9.4.
- Perform service or replace gas valve.

**WARNING! Risk of Fire, Explosion or Asphyxiation!** Check all fittings and connections with a non-corrosive commercially available leak-check solution. **DO NOT** use open flame. Fittings and connections could have loosened during removal of valve plate assembly.

- Reinstall valve plate assembly, burner assembly, basepan assembly, logs and appliance glass and front.

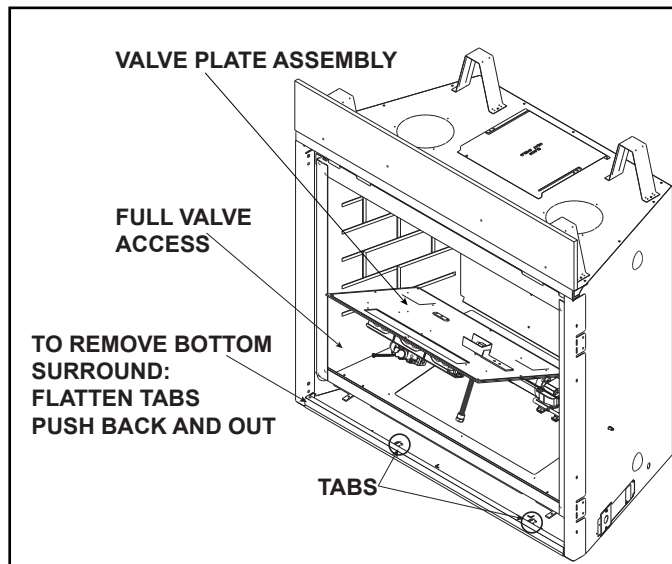


Figure 9.4 Gas Valve Access

# 10 Finishing

## A. Facing Material

### ⚠ WARNING

#### Risk of Fire!

**DO NOT** apply combustible materials beyond the minimum clearances. Comply with all minimum clearances to combustibles as specified in this manual. Materials overlapping into non-combustible zones could ignite and will interfere with air flow through decorative barrier fronts.

- Metal front of appliance may be covered with non-combustible materials only.
- Facing and/or finishing materials must not interfere with air flow through decorative barrier fronts, removal of decorative barrier fronts or access for service.
- Facing and/or finishing materials must never overhang into the glass opening.
- Observe all clearances when applying combustible materials.
- Seal gaps between the finished wall and appliance top and sides using a 300 °F minimum sealant. Refer to Figure 10.1 and Figure 10.2.
- Finishing materials must be installed with no gaps in order to prevent the escape of heat between the finishing material and the wall. See Figure 10.1.

**NOTICE:** Surface temperatures around the appliance will become warm while the appliance is in operation. Ensure finishing materials used for all surfaces (floor, walls, mantels, etc.) will withstand temperatures up to 190°F.

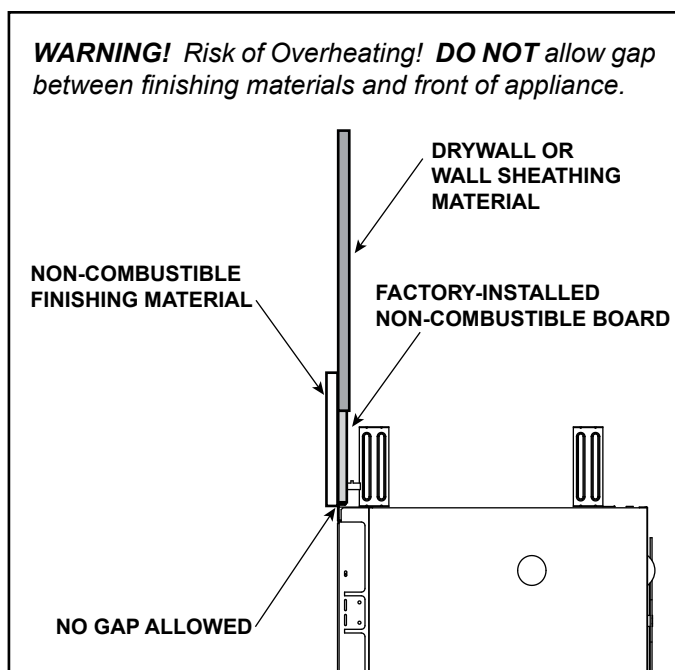


Figure 10.1 Finishing Material Installed

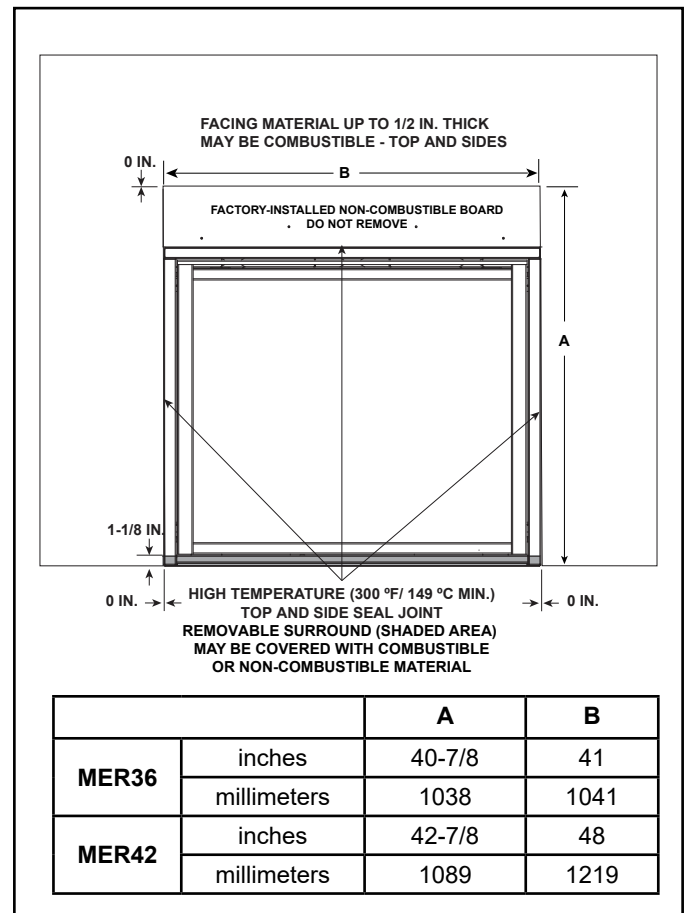


Figure 10.2 Non-combustible Facing Diagram

**WARNING! Risk of Overheating! DO NOT** install combustible or non-combustible flooring or hearth material above top of bottom surround. Gap between bottom of decorative front and top of bottom surround must be maintained for proper air flow.

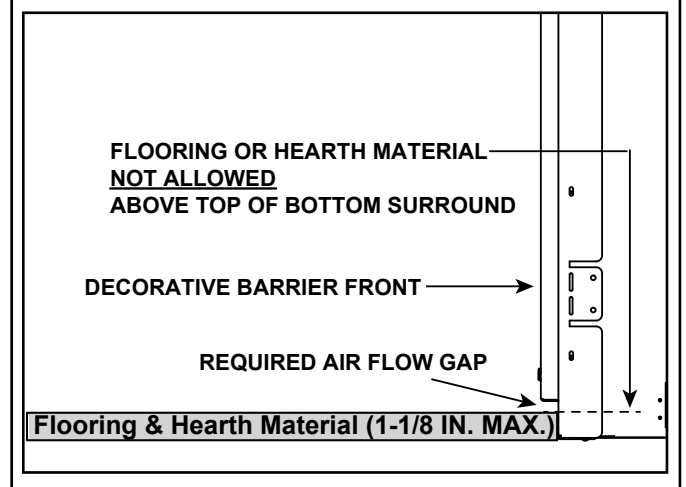


Figure 10.3 Required Air Flow Gap

## B. Installing a Television

If installing a television (TV) above the appliance, see Section 2.B.

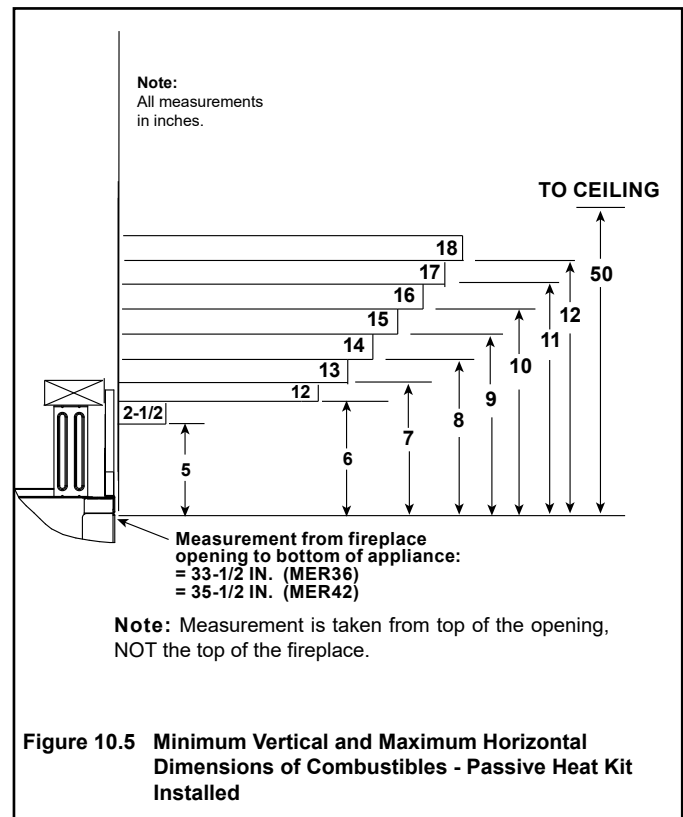
## C. Mantel and Wall Projections

**WARNING! Risk of Fire!** *Comply with all minimum clearances as specified. Mantel MUST be fastened to wall with no gaps.*

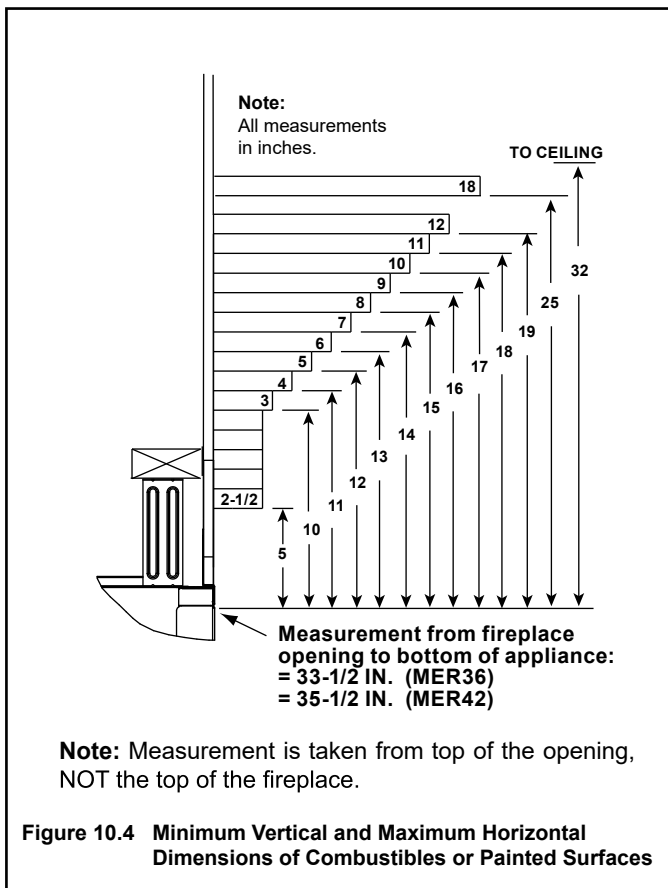
- Framing closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).
- No gaps allowed between the wall and the bottom of the mantel.
- Combustible mantel legs and wall projections may be applied over the non-combustible board supplied with the appliance. Follow guidelines as shown in the figures below for mantels, mantel legs and wall projections.
- Measurement is taken from top/side of the opening, NOT the top/side of the appliance.

Mantel requirements are shown in Figures 10.4-10.9.

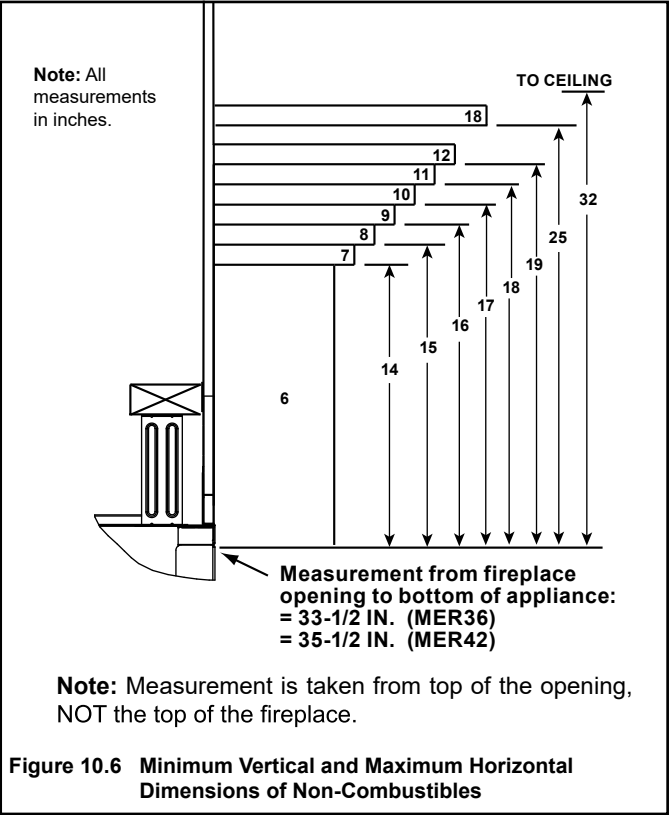
## Combustible Mantels - Passive Heat Installed



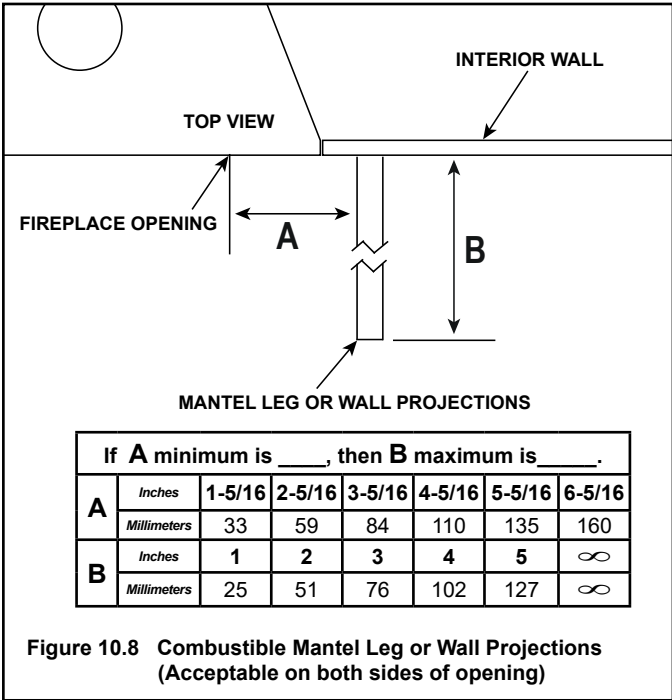
## Combustible Mantels



Non-Combustible Mantels

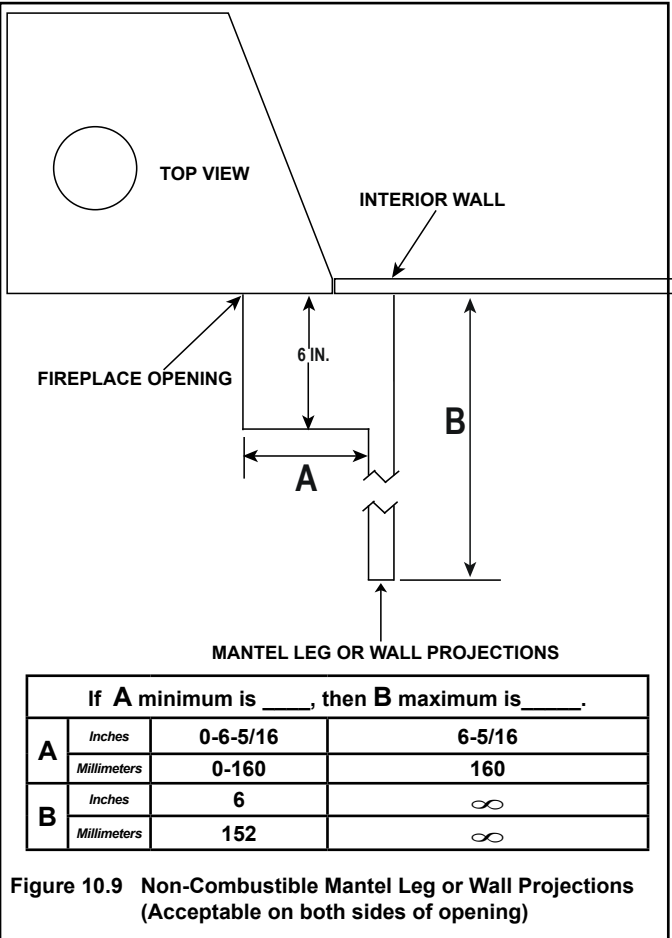
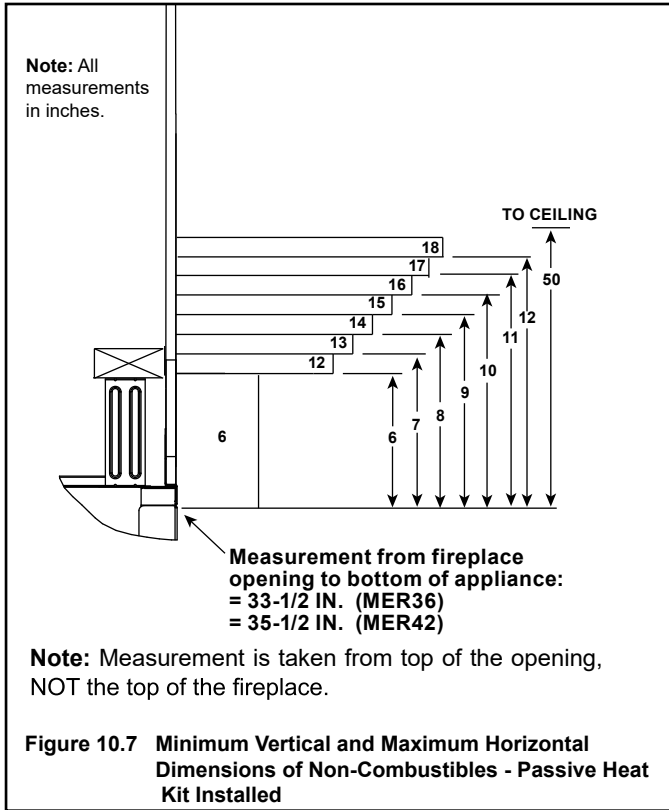


Combustible Mantel Legs or Wall Projections



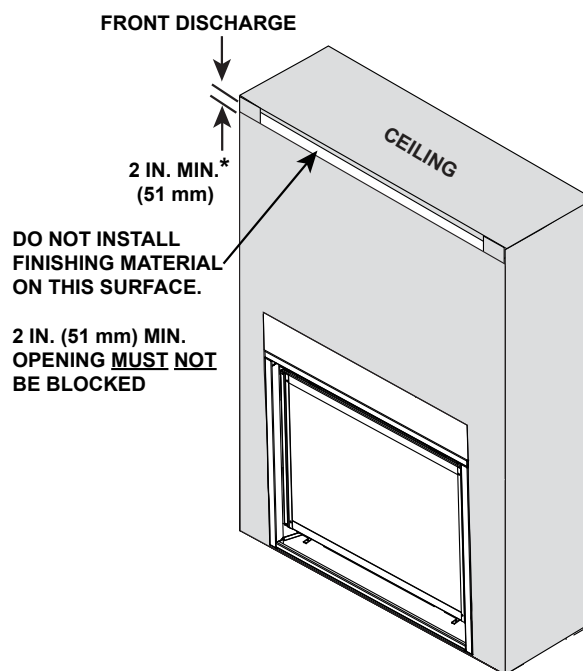
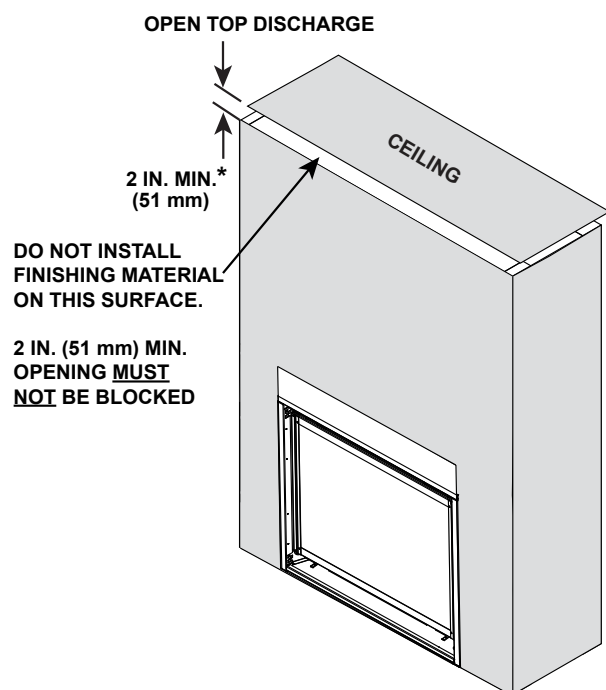
Non-Combustible Mantel Legs or Wall Projections

Non-Combustible Mantels - Passive Heat Installed



## Finishing Material Installed with Passive Heat Optional Heat Management System

 = COMBUSTIBLE MATERIAL ALLOWED



\* = Mesh screen required for front discharge or open top discharge passive heat installations with discharge opening of 3 in. (76 mm) or greater.

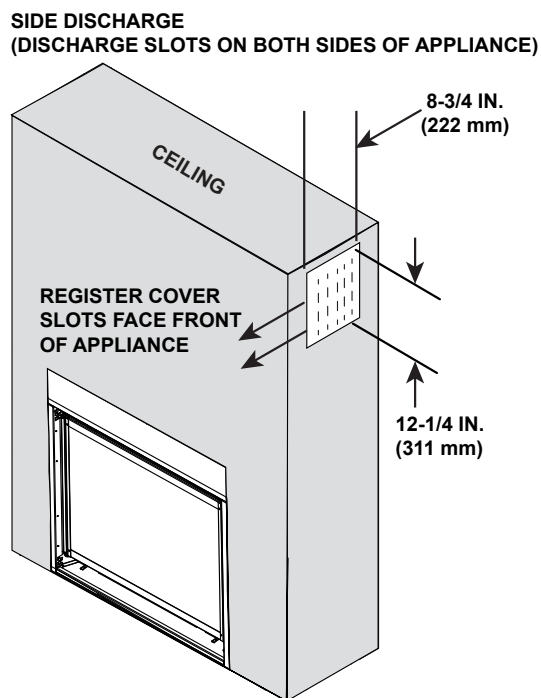


Figure 10.10 Finishing Material installed with Passive Heat Optional Heat Management System

## D. Hearth Extension

A hearth extension is not required with these models. Refer to Section 3 for clearances and information regarding vinyl flooring restrictions.

## E. Decorative Barrier Front Dimensions for Finishing

Only decorative barrier fronts certified for use with this appliance model may be used. Contact your dealer for a list of decorative barrier fronts that may be used.

### Decorative Barrier Front Fit Types

- Inside Fit as shown in Figure 10.11. Decorative barrier front fits inside appliance opening.
- Overlap fit as shown in Figure 10.12. Decorative barrier front is installed on top of finishing material.

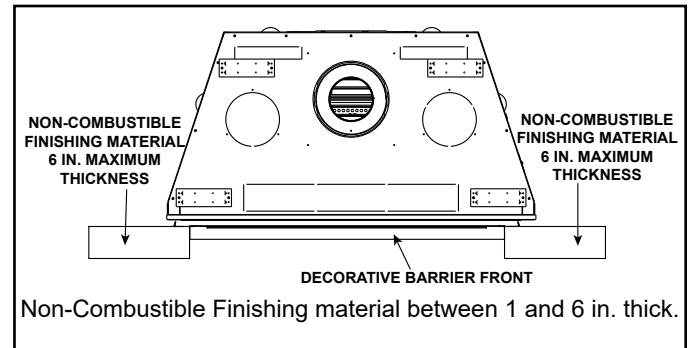


Figure 10.11 Inside Fit Decorative Barrier Front

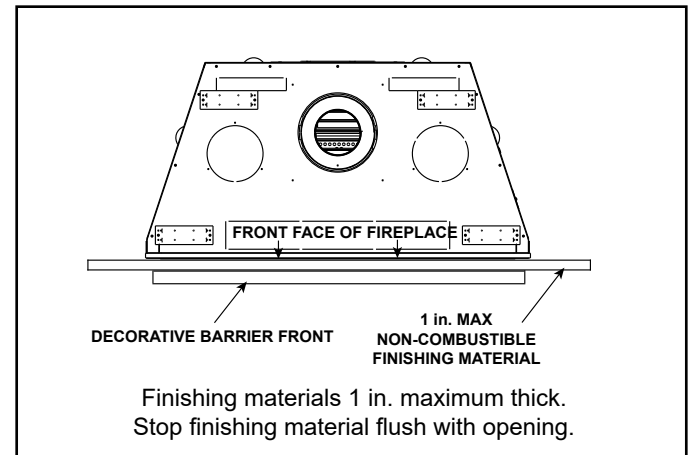


Figure 10.12 Overlap Fit Decorative Barrier Front

### Decorative Barrier Front Finishing Methods

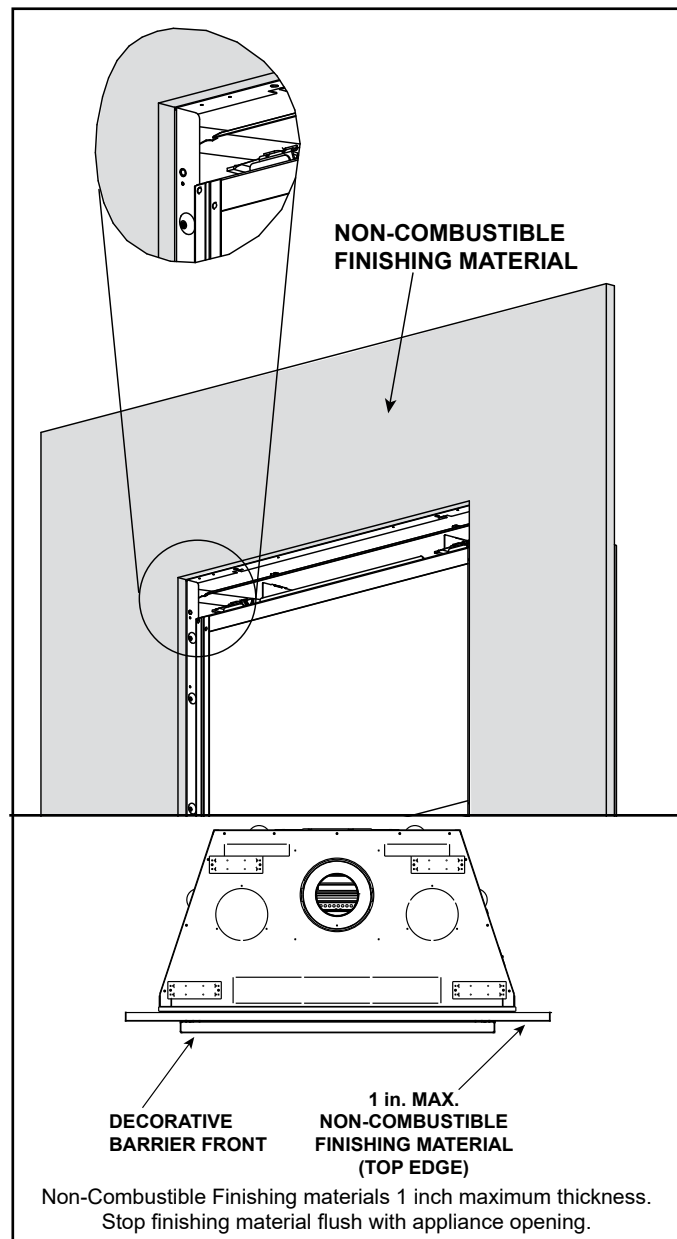
1. Finish material installed up to appliance opening.
  - A. Finish material 1 inch thick or less: Use with Overlap fit fronts. Finishing strips not required. See Figure 10.13.
  - B. Finish material 0-6 inch thick: Use this method with Inside fit fronts. Finishing strips not required. See Figure 10.14.
2. Finishing strips required. Shipped with appliance. See Figure 10.16.
  - A. Finish material 1-6 inch thick: Use this method with overlap fronts installed as inside fit. See Figure 10.15.

A table showing the fit option (Overlap or Inside) for each available decorative barrier front for this appliance is included for each finishing method (1.A, 1.B, 2.A).



**1. A Overlap Fit Method with Overlap Fit Front**  
**FINISHING STRIPS NOT REQUIRED**  
**Non-combustible Finishing Material Thickness:**  
**1 Inch Thick or Less**

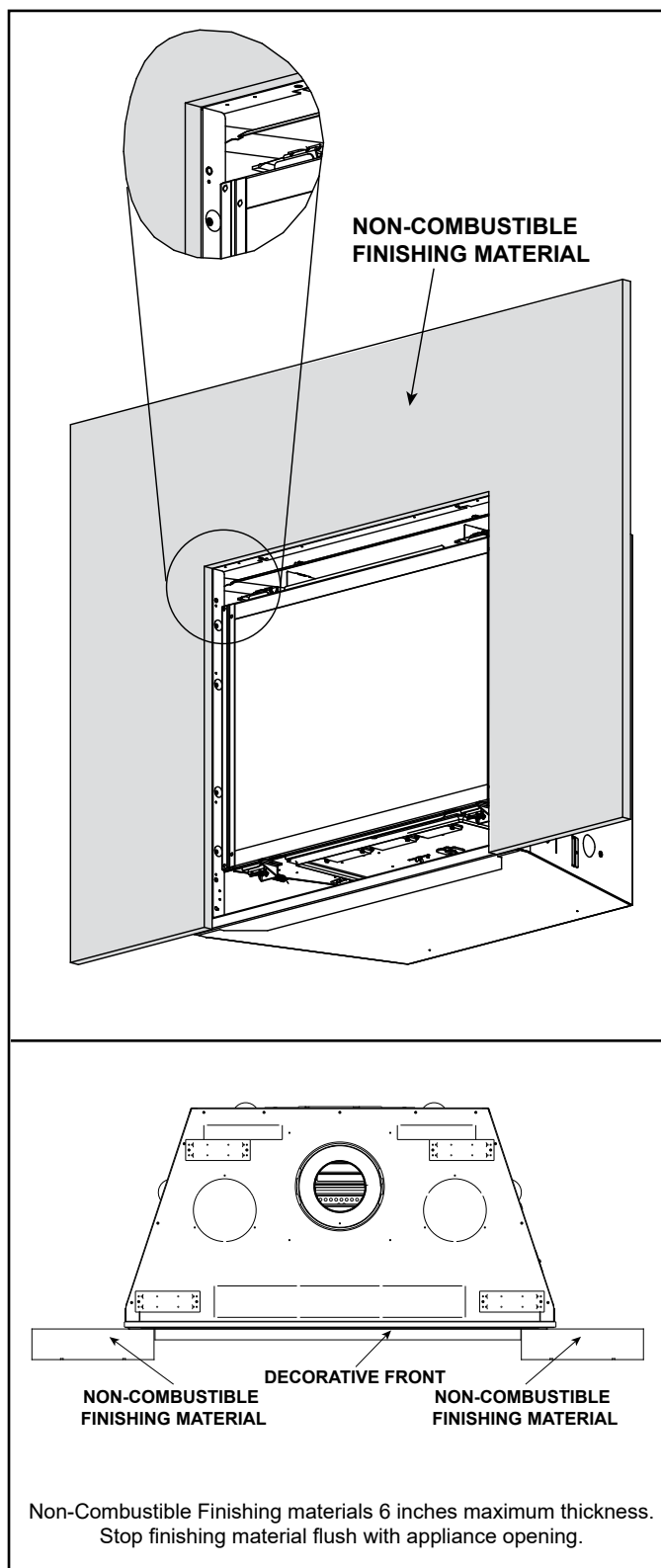
DECORATIVE BARRIER FRONT	FIT OPTION
MANOR	Overlap
ENSEMBLE	Overlap
VENTURA	Overlap



**Figure 10.13 Non-Combustible Finishing Material 1 Inch Thick or Less - Overlap Fit Fronts**

**1. B Inside Fit Method with Inside Fit Front**  
**FINISHING STRIPS NOT REQUIRED**  
**Non-Combustible Finishing Material Thickness:**  
**0-6 Inches Maximum**

DECORATIVE BARRIER FRONT	FIT OPTION
ESSENCE	Inside



**Figure 10.14 Inside Fit Method**

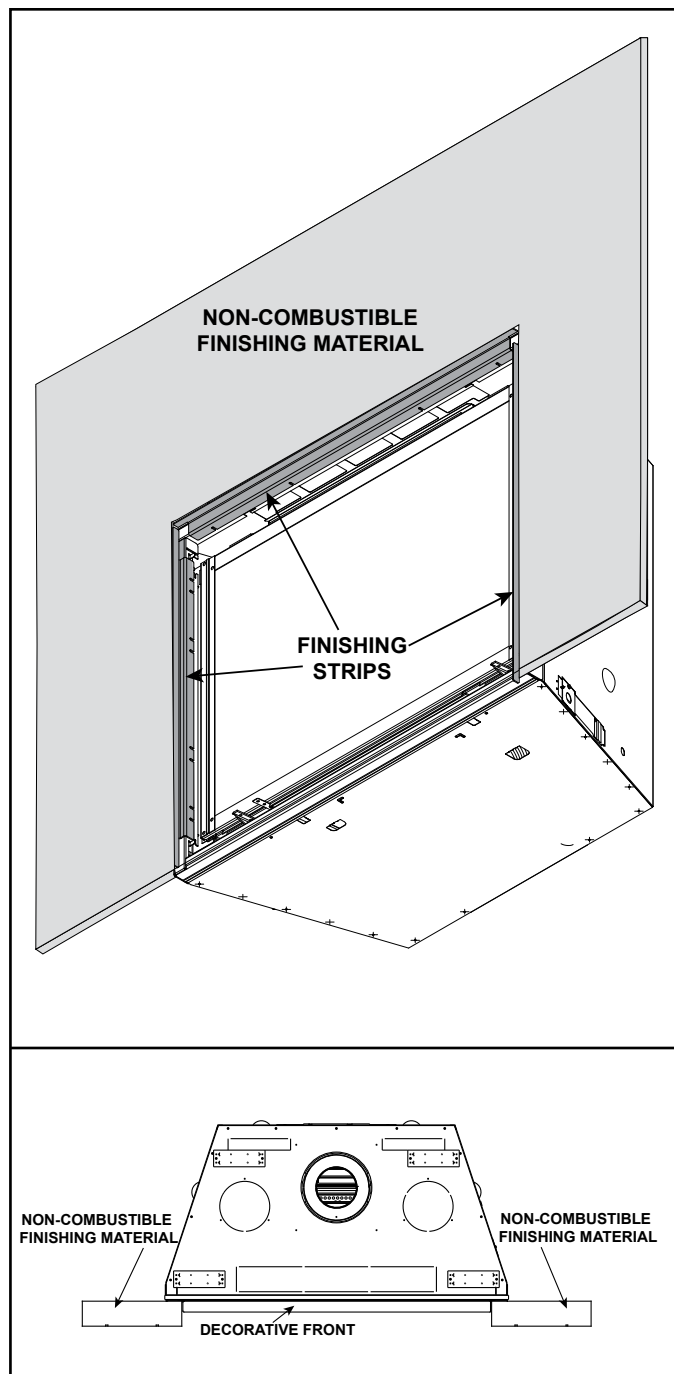
## 2.A Inside Fit Method with Overlap Fit Front

### FINISHING STRIPS REQUIRED

**Non-Combustible Finishing Material Thickness:  
1-6 Inches Maximum**

Finishing strips will add the proper clearances for the installation of the front.

DECORATIVE BARRIER FRONT	FIT OPTION
MANOR	Inside
ENSEMBLE	Inside
VENTURA	Inside



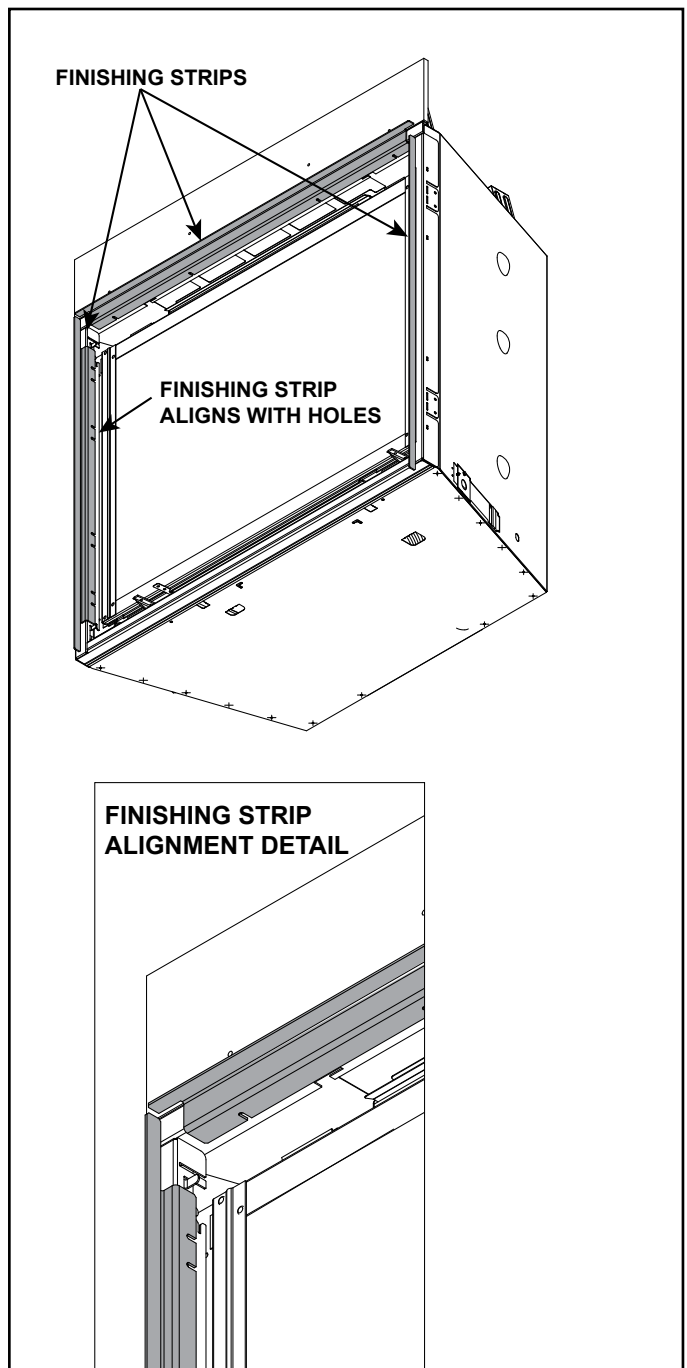
**Figure 10.15 Non-Combustible Finishing Material Thickness Greater Than One Inch - Finishing Strips Required**

### Install and Remove Finishing Strips

1. Align finishing strip with the two pre-drilled holes on the appliance top and sides as shown in Figure 10.16.
2. Install screws to attach finishing strips.
3. To remove the finishing strips, remove screws.

Finishing strips will add the proper clearances for the installation of the front.

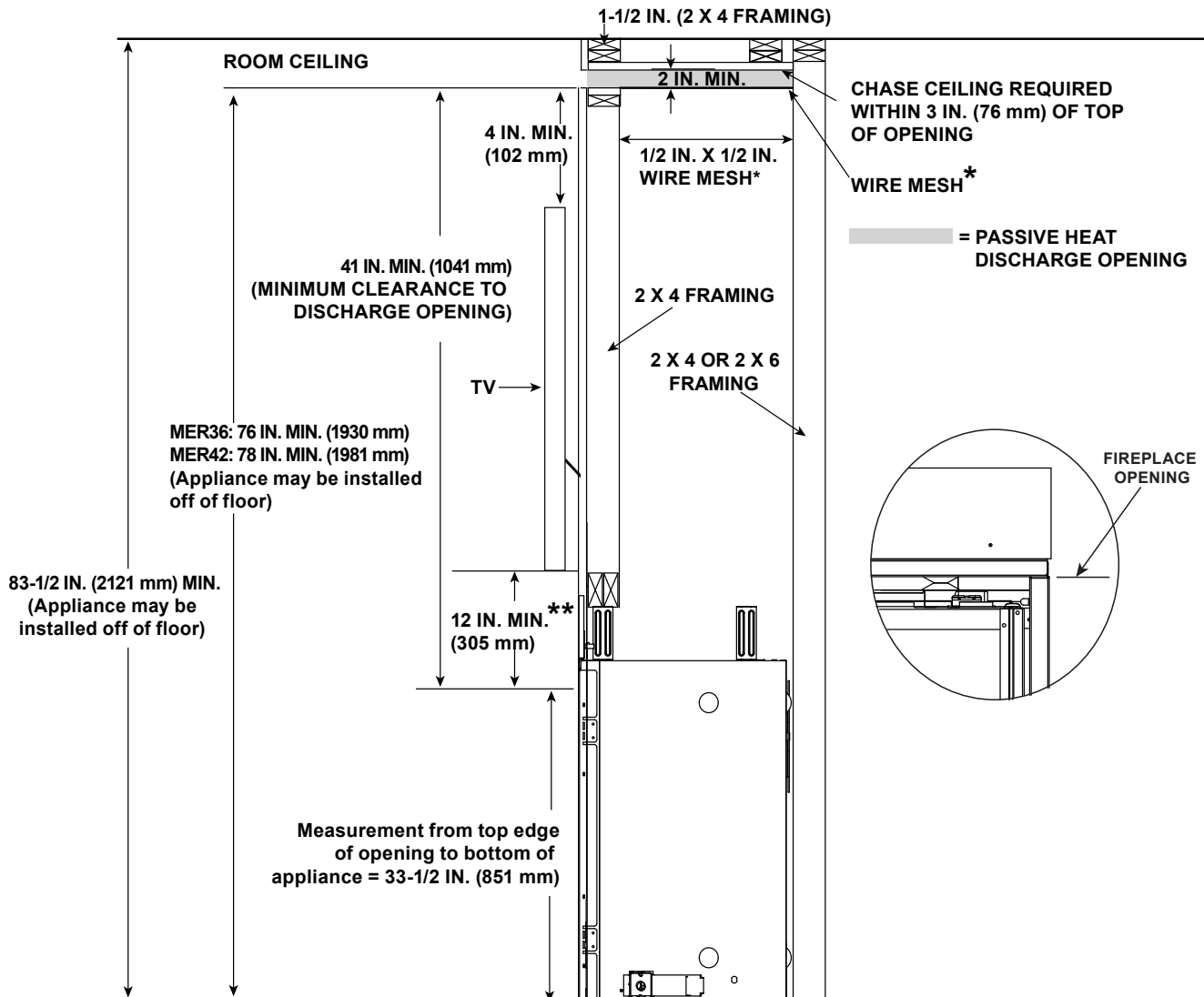
**NOTICE:** Remove finishing strips before firing appliance. Remove glass assembly to access finishing strip screws.



**Figure 10.16 Install Finishing Strips**

## Good Faith Guidelines for TV Installations Above a Fireplace with Passive Heat Option

**WARNING! Risk of Fire!** Wire mesh required on bottom of discharge opening when discharge opening is greater than 3 inches. Secure wire mesh to top of framing.



\* Wire mesh required for front discharge or open top discharge passive heat installations with discharge opening of three inches or greater.

\*\* For information on mantel requirements, refer to Section 2.B (Good Faith TV Guidelines for TV Installations) and Section 10.C (Mantel and Wall Projections). If a fan is installed, a mantel is required to maintain the Good Faith guidelines for TV installation. See Section 2.B and Section 2.C.

**NOTE:** The TV installation requirements are the same regardless of whether the Passive Heat kit is installed with a top discharge, side discharge or open top discharge.

Figure 10.17 Good Faith Guidelines for TV Installations Above a Fireplace with Passive Heat Option

# 11 Appliance Setup

## A. Remove the Shipping Materials

**WARNING! Risk of Fire!** Close the ball valve before installing the splatter guard to prevent accidental lighting. Remove the splatter guard before lighting the appliance.

Remove shipping materials from inside or underneath the firebox.

- Finishing strips are also shipped with this appliance. Remove from shipping location. Do not discard. Depending on the decorative barrier front and finishing method chosen, finishing strips may be required. See Section 10.E.
- The splatter guard is a piece of corrugated material used to protect the appliance during the installation process before finishing work on the whole hearth is complete. Splatter guards are factory installed on these models. Splatter guards must be removed before appliance is fired.

## B. Clean the Appliance

Clean/vacuum any sawdust that may have accumulated inside the firebox or underneath in the control cavity.

## C. Install Base Refractory and Burner Media/Embers

### Install Base Refractory

Install base refractory into firebox. Base refractory will fit around burner. The front edge of the refractory is positioned flush with the firebox return bend.

### Install Burner Media/Embers

**WARNING! Risk of Explosion!** Follow ember placement instructions in manual. DO NOT completely block burner ports with ember material. Replace ember material annually. Improperly placed embers interfere with proper burner operation.

Ember material is shipped with this gas appliance. To place the ember material:

- Embers CANNOT completely block burner ports. Care should be taken not to block the lighting trail of ports.
- Embers may only be placed in areas as shown in Figure 11.1.
- Save the remaining ember materials for use during appliance servicing. The embers provided should be enough for 3 to 5 applications.

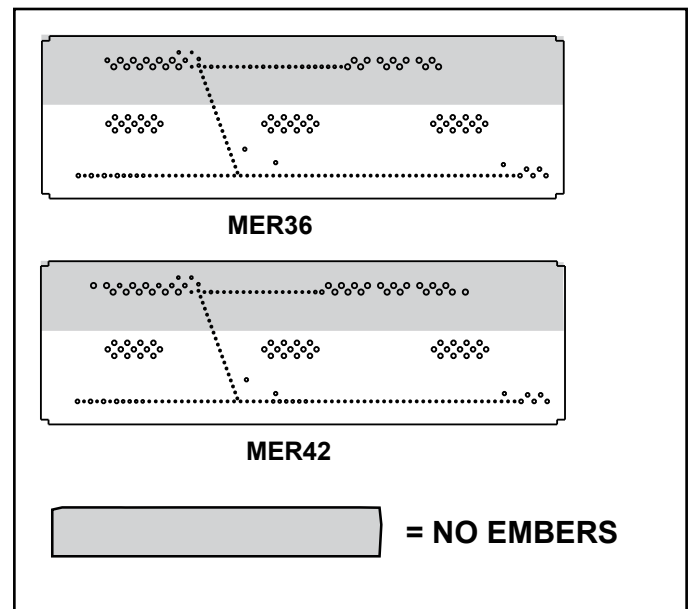


Figure 11.1 Burner Media / Ember Placement

## D. Install the Log Assembly

### Log Set Assembly: LOGSMER36

Models: MER36PN, MER36PL, MER36N, MER36L

## LOG PLACEMENT INSTRUCTIONS



Leave this manual with party responsible for use and operation.

**CAUTION:** Logs are fragile, handle with care.

**NOTICE:** To simplify the installation process, positively identify each individual log before beginning installation. See Figure 1.

### Installation

1. Reference the four log pins and the location of the log stop shown in Figure 2.

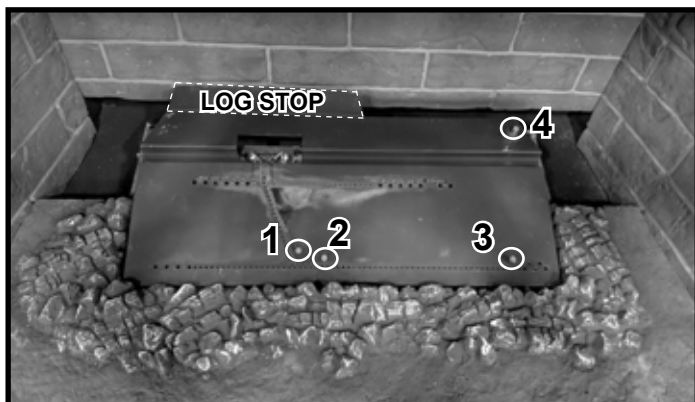


Figure 2 Locations for Log Pins

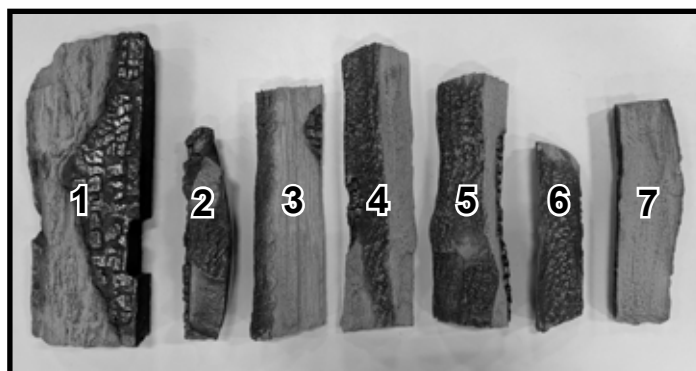


Figure 1 Log Identification



Figure 3 Position Log #1

**Log #1:** Place Log #1 as shown in Figure 3. The right end touches Log Pin 4. Push the log back until it rests against the log stop shown in Figure 2.

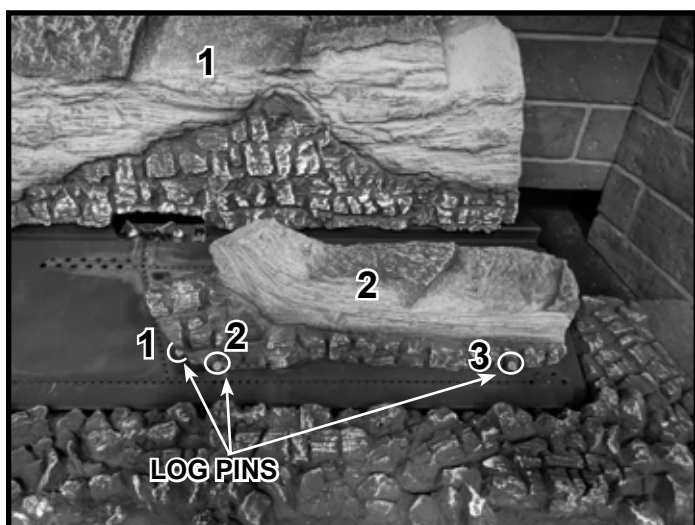


Figure 4 Position Log #2

**Log #2:** Place Log #2 using the three log pins as shown in Figure 4.

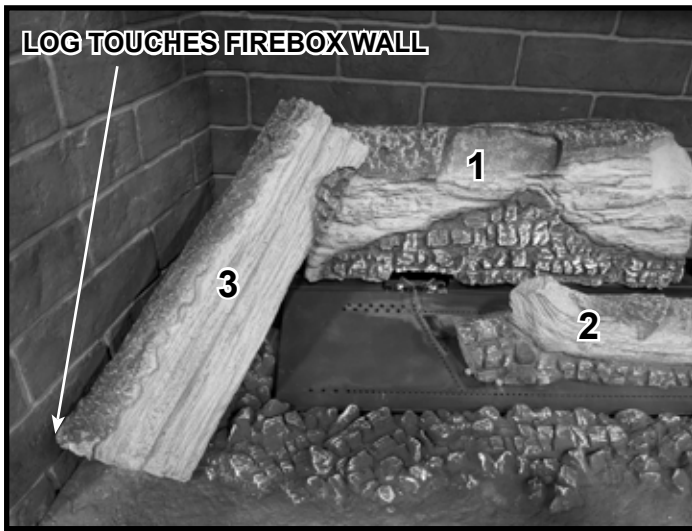


Figure 5 Position Log #3

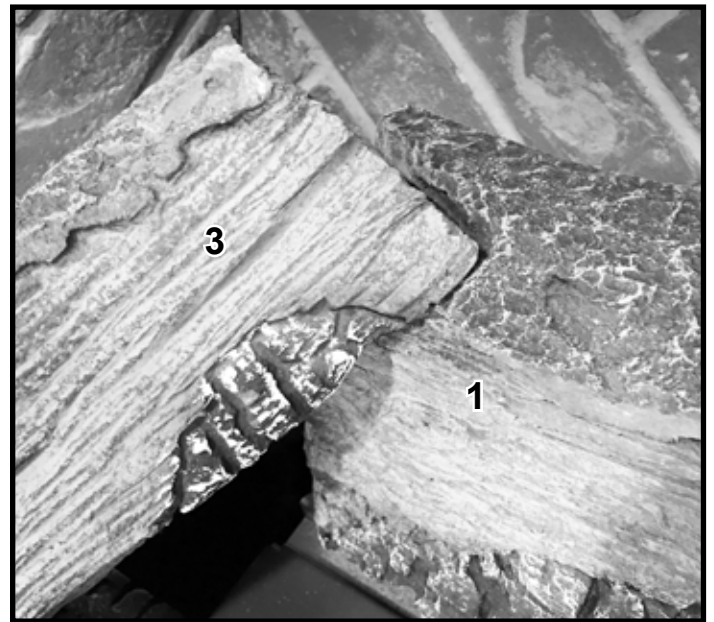


Figure 6 Position Log #3

**Log #3:** Place the top end of Log # 3 on the notch located on Log #1. See Figure 3. The bottom end of Log # 3 should touch the left firebox wall as shown in Figure 5. The corner of Log #3 must be properly seated on Log #1 as shown in Figure 5 and Figure 6.

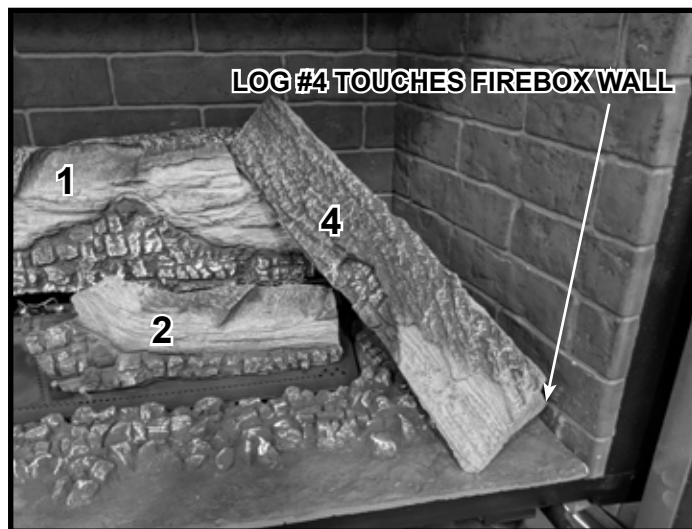


Figure 7 Place Log #4

**Log #4:** Place the top end of Log #4 on the notch located on Log #1 as shown in Figure 3. The bottom end of Log # 4 should touch the right firebox wall as shown in Figure 7.

**Log #5:** Place the top end of Log #5 on the notch located on Log #1. See Figure 3. Place the bottom end of Log # 5 as shown in Figure 8. Log # 5 and Log # 2 will touch as shown in Figure 8.

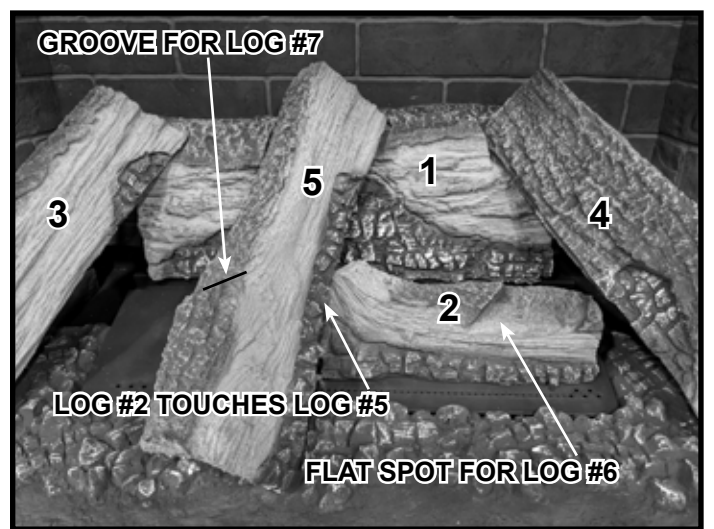


Figure 8 Place Log #5

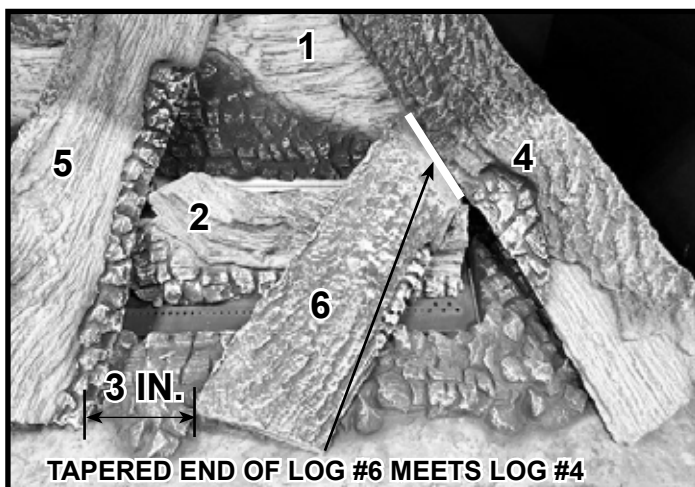


Figure 9 Place Log #6

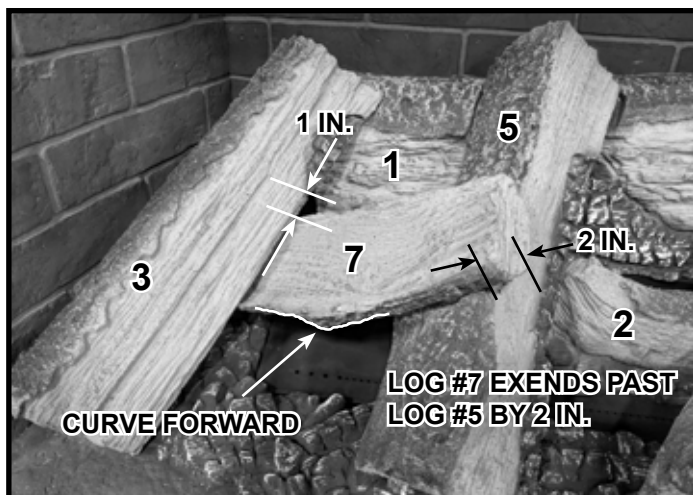


Figure 10 Place Log #7

**Log #6:** Log # 6 rests on the flat spot of Log #2 as shown in Figures 8 and 9. Slide the tapered end of log #6 so that it is positioned firmly against log #4 shown in Figure 9. Place the wide end of Log # 6 as shown in Figure 9. The space between the bottom of Log #5 and Log #6 should be 3 inches as noted in Figure 9.

**Log #7:** Place Log #7 with the split side up and the curve towards the front of the firebox as shown in Figure 10. Log #7 will rest on the groove of log #5 shown in Figure 8. Figure 10 shows additional placement details.



Figure 11 Log Set Installed Properly

## Service Parts List

Log #	Part Number
1	SRV2596-700
2	SRV2596-703
3	SRV2596-701
4	SRV2596-706
5	SRV2596-702
6	SRV2596-705
7	SRV2596-704

2596-935B



# LOG PLACEMENT INSTRUCTIONS

## Log Set Assembly: LOGSMER42

Models: MER42PN, MER42PL, MER42N, MER42L



Leave this manual with party responsible for use and operation.

**CAUTION:** Logs are fragile, handle with care.

**NOTICE:** To simplify the installation process, positively identify each individual log before beginning installation. See Figure 1.

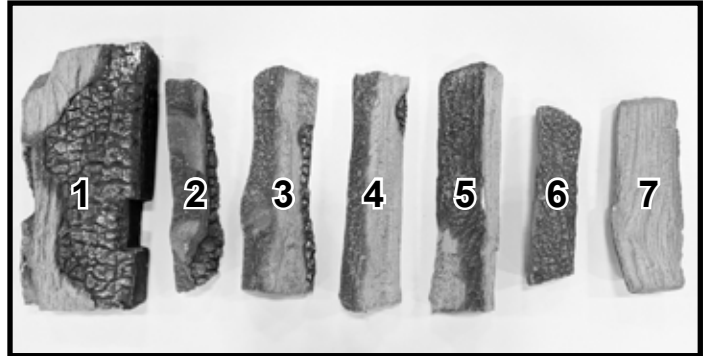


Figure 1 Log Identification

### Installation

1. Reference the four log pins and the location of the log stop shown in Figure 2.

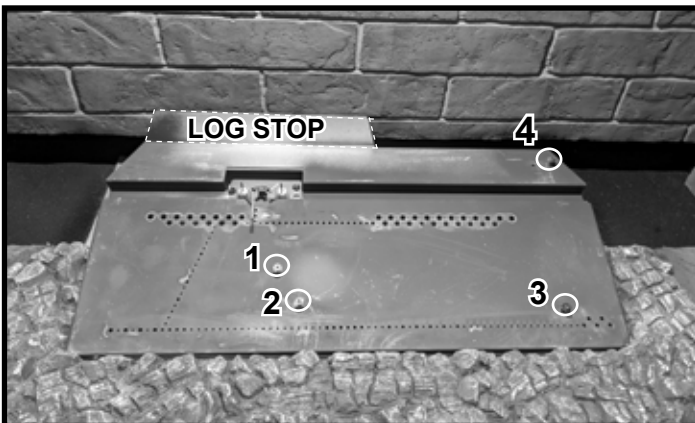


Figure 2 Locations for Log Pins

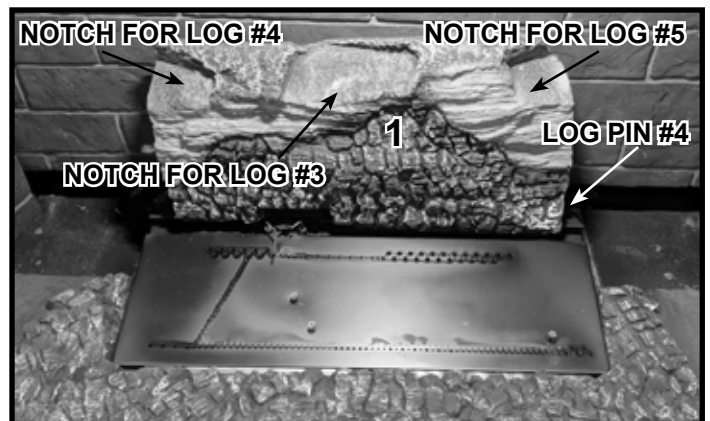


Figure 3 Position Log #1

**Log #1:** Place Log #1 as shown in Figure 3. The right end touches Log Pin 4. Push the log back until it rests against the log stop shown in Figure 2.



Figure 4 Position Log #2

**Log #2:** Place Log #2 using the three log pins as shown in Figure 2 and Figure 4.

**Log #3:** Place the top end of Log #3 on the notch located on Log #1. See Figure 3 and Figure 5. Place the bottom end of Log #3 as shown in Figure 5. The burned out side of Log #2 and the knot on Log #3 align, but do not make contact. See Figure 5 and Figure 7.



Figure 5 Position Log #3



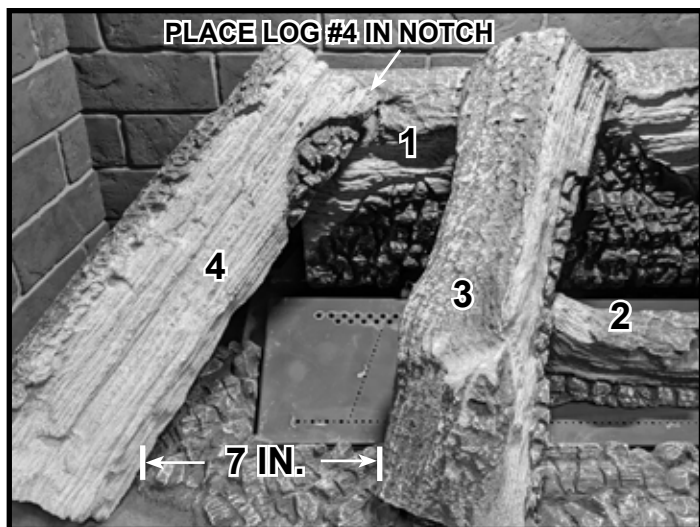


Figure 6 Place Log #4



Figure 7 Place Log #5

**Log #4:** Place the top end of Log #4 on the notch located on Log #1 as shown in Figure 3 and Figure 6. Place the bottom of Log #4 seven inches from the bottom of Log #3 as shown in Figure 6.

**Log #5:** Place the top end of Log #5 on the notch located on Log #1. See Figure 3 and Figure 7. The bottom end of Log #5 rests on the base refractory as shown above. The space between the bottom right side of Log #3 and the bottom left side of Log #5 should measure 13-1/2 inches as shown in Figure 7.

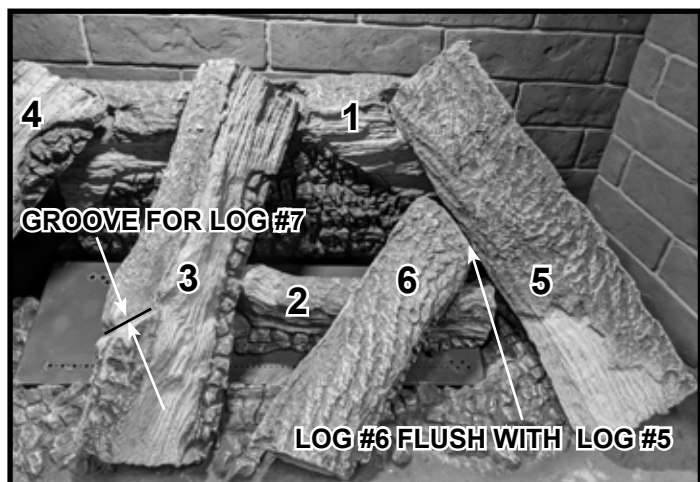


Figure 8 Place Log #6

**Log #6:** Log #6 rests on the flat spot of Log #2 as shown in Figures 7 and 8. The top end of Log #6 is positioned flush with Log #5 shown in Figure 8. Position other end of Log #6 as shown in Figure 8.

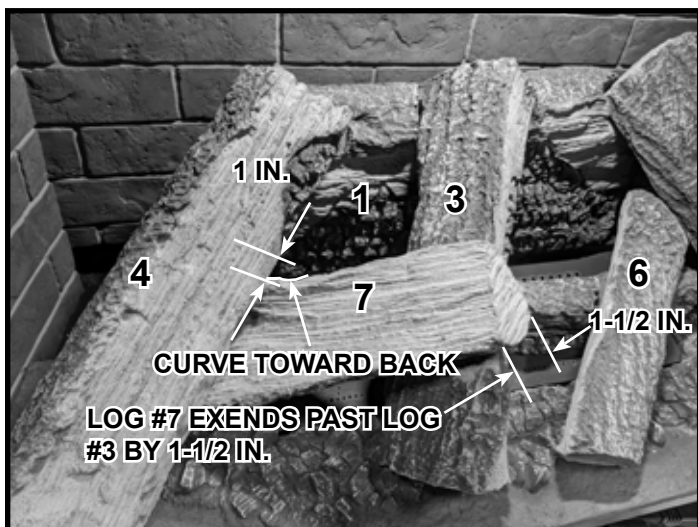


Figure 9 Place Log #7

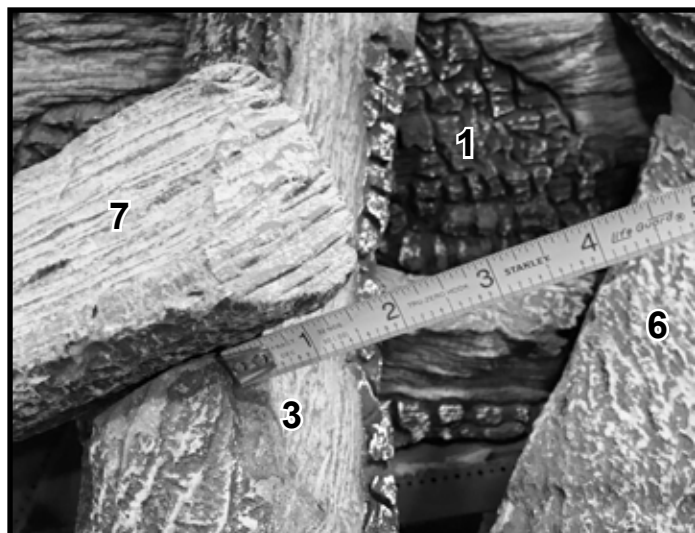


Figure 10 Edge of Log #7 Extends Past Log #3

**Log #7:** Place Log #7 with the split side up and the curve toward the back of the firebox as shown in Figure 9. Log #7 will rest on the groove of Log #3 shown in Figure 8. The right side of Log #7 extends past Log #3 by 1-1/2 inches as shown in Figure 9 and 10. The space between the bottom of the burned out area on Log #4 and the intersection of Log #4 and Log #7 equals one inch as shown in Figure 9.



Figure 11 Log Set Installed Properly

### Service Parts List

Log #	Part Number
1	SRV2598-700
2	SRV2598-703
3	SRV2596-702
4	SRV2598-701
5	SRV2598-706
6	SRV2598-705
7	SRV2598-704

2598-935

## E. IntelliFire Touch® Control System Setup

- Detailed instructions for electrical wiring and connections are provided in Section 8.
- Verify that the 3-Position switch on the IFT-ECM is switched to the REMOTE position. Detailed Operating Instructions for the IFT-ECM are provided in Section 3.K of the Owner's Manual.

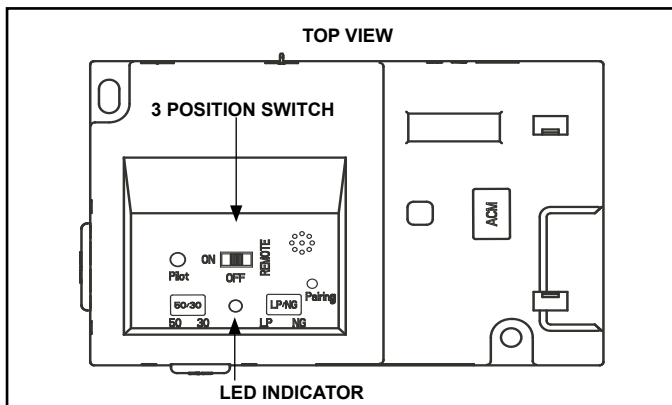


Figure 11.2 IFT-ECM

If this appliance is being upgraded to an optional IntelliFire Touch Remote Control, and/or an optional power vent or optional fan are added as new accessory upgrade(s) to fireplace:

1. The RC400 remote will need to be paired to the ECM.
2. Follow the installation instructions provided with the IntelliFire® Touch remote and/or accessory kit(s).

## F. Fixed Glass Assembly Removal and Replacement

**WARNING! Risk of Asphyxiation!** Handle fixed glass assembly with care. Inspect the gasket to ensure it is undamaged and inspect the glass for cracks, chips or scratches.

- **DO NOT** strike, slam or scratch glass.
- **DO NOT** operate fireplace with glass removed, cracked, broken or scratched.
- Replace as a complete assembly.

### Removing Fixed Glass Assembly

- Pull the four glass assembly latches away from the tabs on the glass frame. Remove glass assembly from the appliance. See Figure 11.3.

### Replacing Fixed Glass Assembly

- Replace the glass assembly on the appliance. Hold glass in place with one hand. Use the other hand to pull out and latch the four glass assembly latches onto the glass frame tabs.
- Inspect and operate all glass latches to ensure they move freely and no obstructions are present.
- Reinstall decorative barrier front.

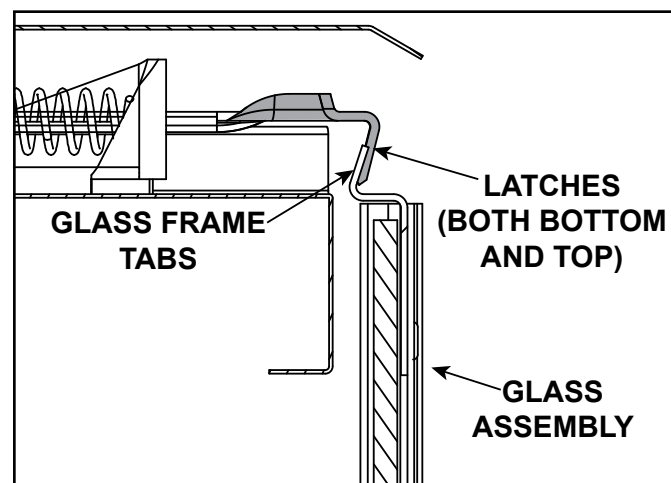


Figure 11.3 Fixed Glass Assembly

## G. Install Decorative Barrier Front

**WARNING! Risk of Fire!** Install **ONLY** decorative barrier fronts approved by Hearth & Home Technologies. Unapproved decorative barrier fronts could cause fireplace to overheat.

**IMPORTANT!** This fireplace requires an installed decorative barrier front to prevent direct contact with the hot viewing glass. **DO NOT** operate the fireplace with the barrier removed.

Contact your dealer or Hearth & Home Technologies if the barrier is not present or help is needed to properly install one.

For more information refer to the instructions supplied with your decorative barrier front.

# 12 Reference Materials

## A. Approved Vent Components List

Vent components on this list are approved for use with these models.

Scan QR code or click on the link to access document including dimensions and effective lengths of vent components.



[Vent Components](#)

DVP Vent Components			
DVPXX	DVP Vent Pipe (4/6/8/12/24/36/48 Inch)	DVP6A/DVP12A	6 Inch/12 Inch DVP Slip Section
DVP45	45 Degree Elbow	DVP-TVHW	Vertical Termination Cap (High Wind)
DVP90ST	90 Degree Elbow	DVP-HPC	High Performance Cap
DVP-HVS	Vent Support	DVP-BEK2	DVP-HPC Cap Brick Extension
DVP-RDS	Roof Deck Insulation Shield	COOL-ADDM	Cap Shield
DVP-WS	Wall Shield Firestop	DVP-TB1	Basement Vent Cap
DVP-FS	Ceiling Firestop	DRC-RADIUS	Cap Shield
DVP-TRAP	Horizontal Termination Cap (DVP-TRAP1/2/K1/K2/HPC1/HPC2)	DVP-HRC-SS	High Rise Cap
RF6 / RF12	Roof Flashings	DVP-HRC-ZC-SS	Zero Clearance High Rise Cap
DVP-TRAPFL	Flashing	TRAP-VSS	Extended Heat Shield
DVP-HSM-B	Extended Heat Shield	UNIV-AS2	Universal Attic Shield
SLP Vent Components			
SLPXX	SLP Vent Pipe (4/6/12/24/36/48 Inch)	SLP6A/SLP12A	SLP Adjustable Pipe Sections
SLP45	45 Degree Elbow	SLP-CCS-BK	Cathedral Ceiling Support Box-Black
SLP90	90 Degree Elbow	SLP-DCF-BK	Ceiling Firestop Black
DVP-SLP24	Adapter	SLP-WT-BK	Wall Thimble Black
SLK-SNKD	Snorkel Termination Cap	SLP-RDS	Roof Deck Insulation Shield
SLP-TVHW	Vertical Termination Cap	SLP-FS	Ceiling Firestop
SLP-TB1	Basement Vent Cap	SLP-WS	Wall Shield Firestop
SLP-HVS	Horizontal Pipe Support	DVP-2SL	Adapter
SLP-TRAP	Horizontal Termination Cap (TRAP1/2)	DVP-HSM-B	Extended Heat Shield
SL-2DVP	Adapter	SLP-HRC-SS	Horizontal Termination Cap
SLP-HHW2	Horizontal High Wind Termination Cap		
Power Vent Components			
PVV-SLP	Vertical Power Vent	PVLP-SLP	Power Vent Low Profile
PVI-SLP-B	Power Vent Inline	SLP-LPC	SLP Low Profile Cap
Decorative Terminations / Shrouds			
Only use listed decorative termination caps/shrouds with Hearth & Home Technologies approved venting systems. This applies to both DVP and SLP venting systems.			
DTO134	Octagon Decor Cap	LDS33	Decor Shroud 36 x 36
DTO146	Octagon Decor Cap	LDS46	Decor Shroud 48 x 72
DTS134	Square Decor Cap	LDS-BV	Decor Shroud 26 x 26
DTS146	Square Decor Cap		

## B. Accessories

**WARNING! Risk of Fire and Electric Shock! Use ONLY Hearth & Home Technologies-approved optional accessories with this appliance. Using non-listed accessories could result in a safety hazard and will void the warranty.**

Contact your dealer for more information and details, such as color options and specific quantities required, on individual accessories. A qualified service technician must install the approved accessories. Operate installed accessories according to the included instructions.

**Note:** Some optional accessories must be installed at the time of appliance installation. See Section 2.A.

### Options:

Remote Controls, Wall Controls and Wall Switches	
IFT-RC150-MAJ	IntelliFire Touch wireless wall switch
IFT-RC400	IntelliFire Touch remote control
IntelliFire Wi-Fi module with IntelliFire App	
IFT-WFM	IntelliFire Wi-Fi module for app
Refractory Kit	
GL-36M, GL-42M	Black Glass Liner
BRICK36MTB / BRICK42MTB	Brick Refractory - Traditional - Tavern Brown
BRICK36MTBH / BRICK42MTBH	Brick Refractory - Herringbone - Tavern Brown
BRICK36MCS / BRICK42MCS	Brick Refractory - CastleStone
Heat Management Systems Kits	
HEAT-OUT-GAS	Heat-Out-Gas
HEAT-ZONE-GAS	Heat-Zone-Gas
HZMR-ADP	Heat Zone Adapter
PH-MR	Passive Heat-Front, Side or Top Discharge
PH-SIDETRIM	Passive Heat registers for side discharge (requires PH-MR)
PH-FRTTRIM-36, PH-FRTTRIM-42	Passive Heat registers for front discharge (requires PH-MR)
Fan	
GFK-160A	

Majestic, a brand of Hearth & Home Technologies  
7571 215<sup>th</sup> Street West, Lakeville, MN 55044  
[www.majesticproducts.com](http://www.majesticproducts.com)

Please contact your Majestic dealer with any questions or concerns.  
For the location of your nearest Majestic dealer,  
please visit [www.majesticproducts.com](http://www.majesticproducts.com).

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