Installation Manual

Installation and Appliance Setup

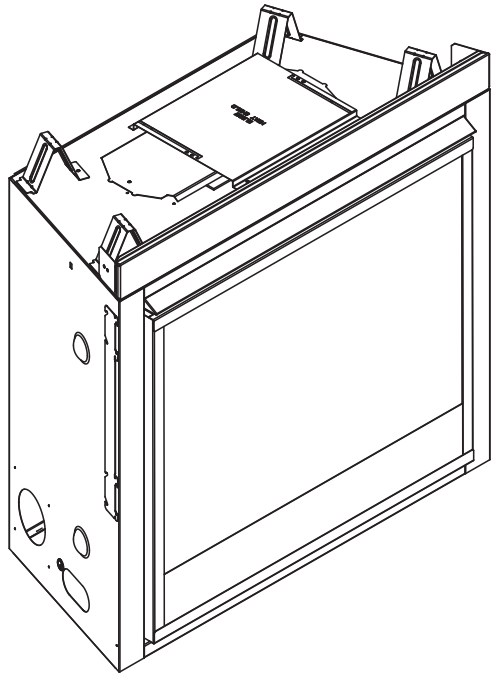
INSTALLER: Leave this manual with party responsible for use and operation.
OWNER: Retain this manual for future reference.

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

HEARTH & HOME technologies®

Models:
DV3732-B
DV3732L-B
DV4236-B

GAS-FIRED
C UL US
LISTED



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.

⚠ DANGER



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.

In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter.

See Table of Contents for location of additional Commonwealth of Massachusetts requirements.

⚠ 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: _____ **Date Installed:** _____
Lot/Address: _____ **Location of Fireplace:** _____
_____ **Installer:** _____
Model (circle one): **DV3732-B** **DV3732L-B** **Dealer/Distributor Phone #** _____
DV4236-B **Serial #:** _____

> ***WARNING! Risk of Fire or Explosion!*** *Failure to install appliance according to these instructions could lead to a fire or explosion.*

Appliance Install	**YES**	**IF NO, WHY?**
Verified that the chase is insulated and sealed. (Pg. 13)	☐	_____
Verified clearances to combustibles. (Section 3)	☐	_____
Fireplace is leveled and secured. (Pg. 39)	☐	_____
Venting/Chimney Section 7 (Pg. 40-45)		
Venting configuration complies to vent diagrams.	☐	_____
Venting installed, locked and secured in place with proper clearance.	☐	_____
Firestops installed.	☐	_____
Attic insulation shield installed.	☐	_____
Exterior wall/Roof flashing installed and sealed.	☐	_____
Terminations installed and sealed.	☐	_____
Electrical Section 8 (Pg. 46-47)		
Unswitched power (110-120 VAC) provided to the appliance.	☐	_____
Switch wires properly installed.	☐	_____
Gas Section 9 (Pg. 48-49)		
Proper appliance for fuel type.	☐	_____
Was a conversion performed?	☐	_____
Leak check performed and inlet pressure verified.	☐	_____
Verified proper air shutter setting for installation type.	☐	_____
Finishing Section 10 (Pg. 50-51)		
Combustible materials not installed in non-combustible areas.	☐	_____
Verified all clearances meet installation manual requirements.	☐	_____
Mantels and wall projections comply with installation manual requirements.	☐	_____
Appliance Setup Section 11 (Pg. 52-56)		
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.	☐	_____
Mesh, doors, or decorative front properly installed.	☐	_____
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.	☐	_____

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.

2496-982D 2/25

1 Product Specific and Important Safety Information

A. Appliance Certification

MODELS: **DV3732-B, DV3732L-B, DV4236-B**

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".

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		Maximum Input BTU/h	Minimum Input BTU/h	Orifice Size (DMS)
DV3732-B (NG)	*(0-2000 FT)*	19,000	13,500	#45
DV3732L-B (Propane)	*(0-2000 FT)*	18,000	14,500	#55
DV4236-B (NG)	*(0-2000 FT)*	22,000	15,000	#43
DV4236-B (Propane)	*(0-2000 FT)*	20,500	16,500	#54

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 ºC** 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.

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

A. Design and Installation Considerations

Hearth & Home Technologies 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.
- Electrical wiring requirements.
- Framing and finishing details.
- Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired.

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

hearthED FACTORY TRAINING Fuel Your Fire

NFI NATIONAL FIREPLACE INSTITUTE A CERTIFICATION AGENCY

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

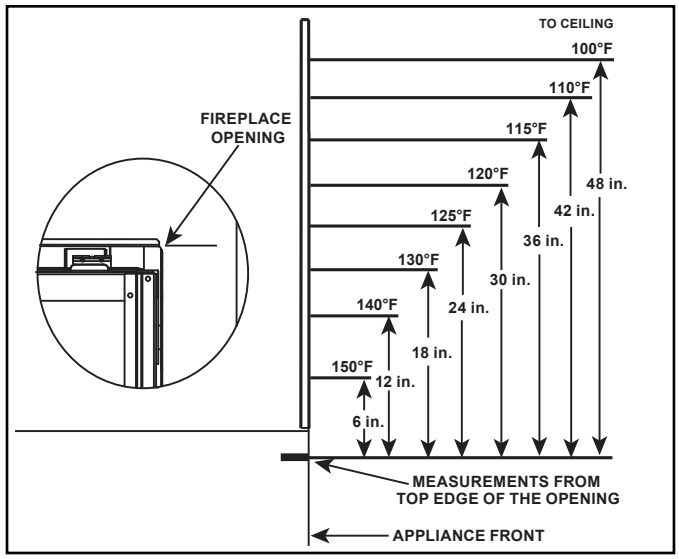


Figure 2.1 Good Faith Wall Surface Temperatures Above Appliance (DV3732-B, DV3732-B)

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 in the appliance installation manual.*

C. Tools and Supplies Needed

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

Tape measure	Framing material
Pliers	Hammer
Phillips screwdriver	Manometer
Gloves	Framing square
Voltmeter	Electric drill and bits (1/4 in.)
Plumb line	Safety glasses
Level	Reciprocating saw

Flat blade screwdriver

Non-corrosive leak check solution

1/2 - 3/4 in. length, #6 or #8 Self-drilling screws

Caulking material (300ºF minimum continuous exposure rating)

One 1/4 in. female connection (for optional fan).

D. Inspect Appliance and Components

- Carefully remove the appliance and components from the packaging.
- The vent system components and decorative fronts may be shipped in separate packages.
- If packaged separately, the log set and appliance grate must be installed.
- Report to your dealer any parts damaged in shipment, particularly the condition of the glass.
- **Read all of the instructions before starting the installation. Follow these instructions carefully during the installation to ensure maximum safety and benefit.**

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

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 gas logs or the glass door.
- Installation and/or use of any component part not approved by Hearth & Home Technologies.

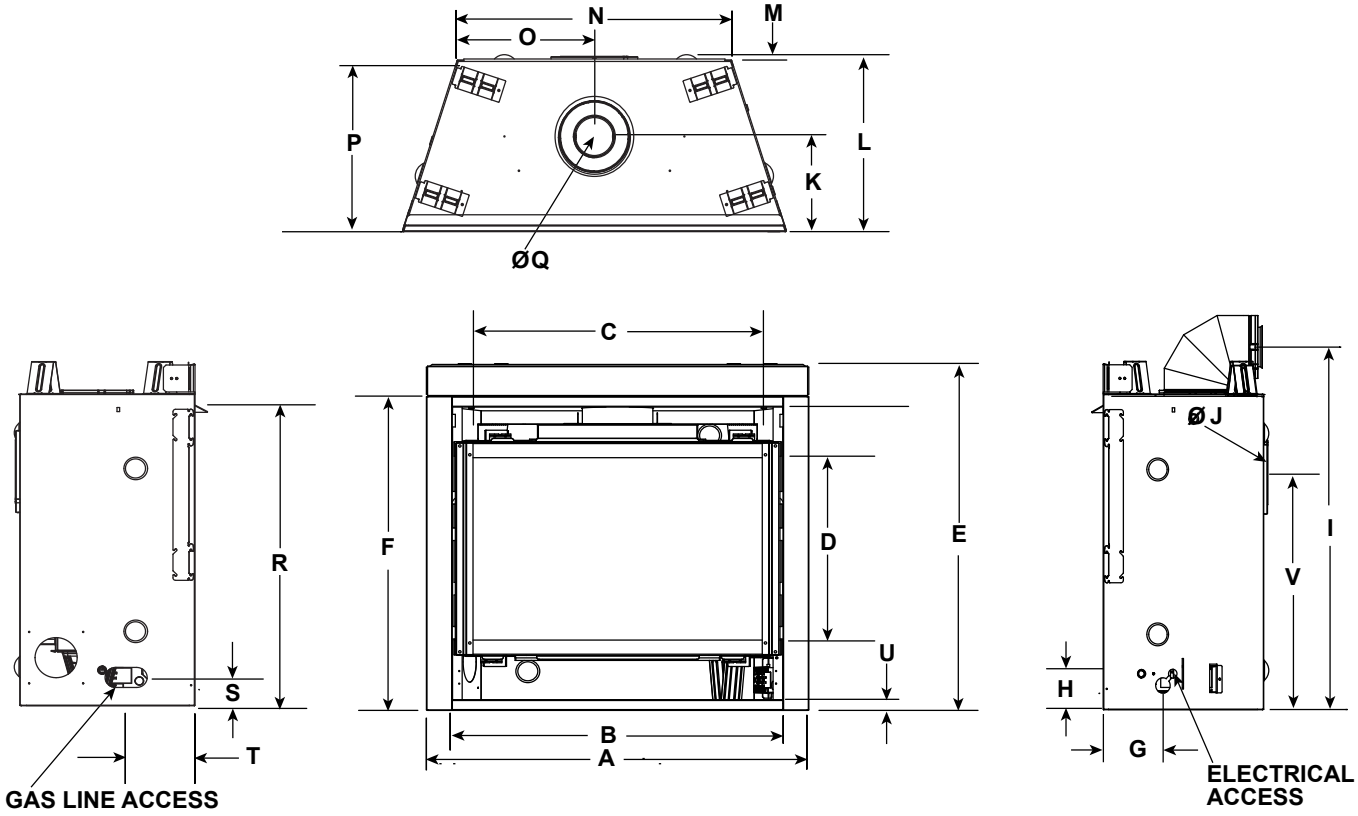
Any such action may cause a fire hazard.

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.*

3 Framing and Clearances

A. Appliance/Decorative Front Dimension Diagrams

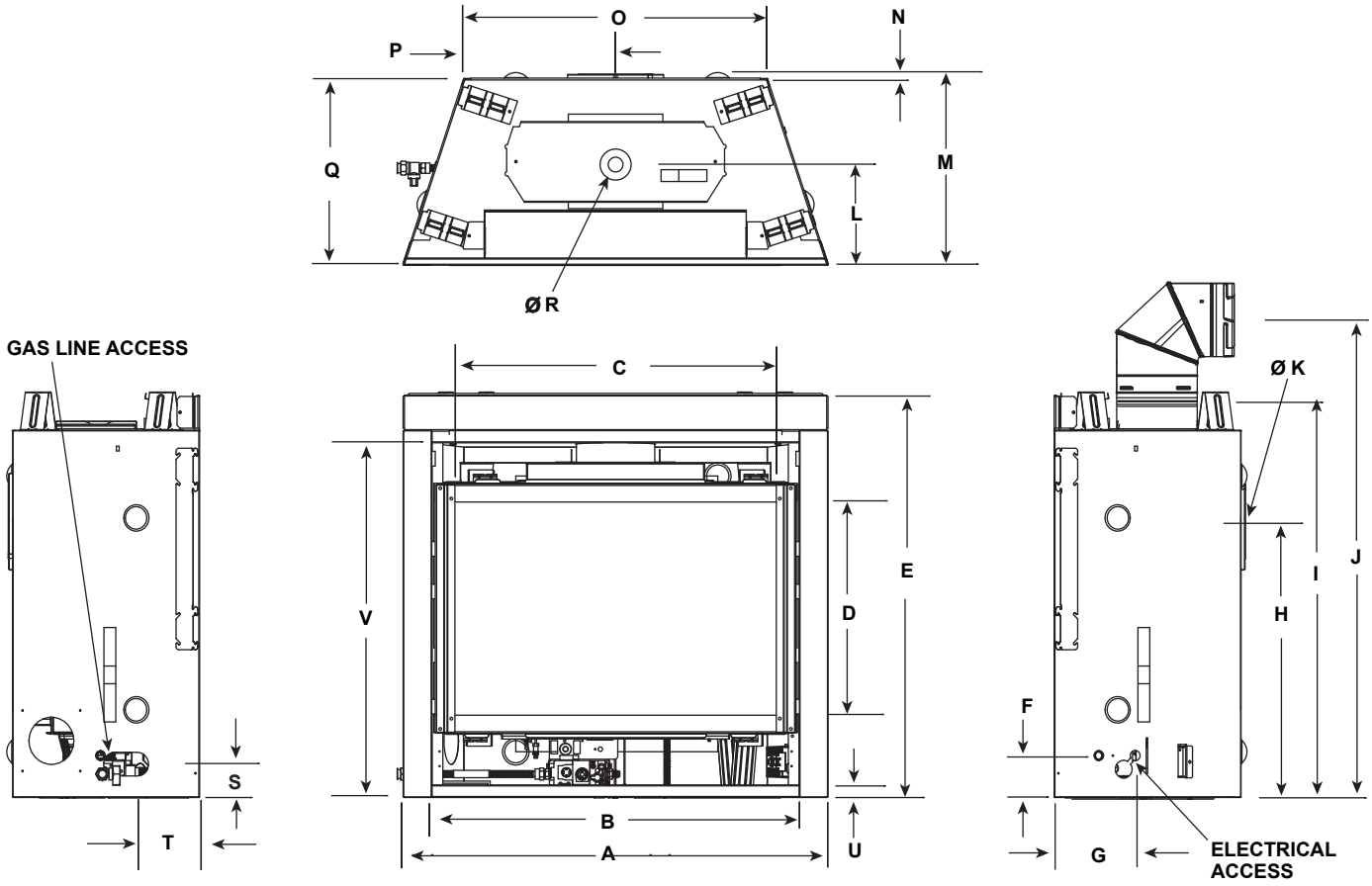
Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Section 5.



DV3732-B		
Location	Inches	Millimeters
A	36	914
B	31-1/8	791
C	27-3/16	691
D	18-1/16	459
E	34-5/16	872
F	31	787
G	6-7/8	175
H	2-3/8	60
I	36-7/16	926
J	8	203
K	8-13/16	224

DV3732-B		
Location	Inches	Millimeters
L	16-5/16	414
M	1/2	13
N	25-3/4	654
O	12-7/8	327
P	15-7/8	403
Q	6-5/8	168
R	30	762
S	2-3/16	56
T	6	152
U	1-1/16	27
V	23-3/8	594

Figure 3.1 Appliance Dimensions - DV3732-B



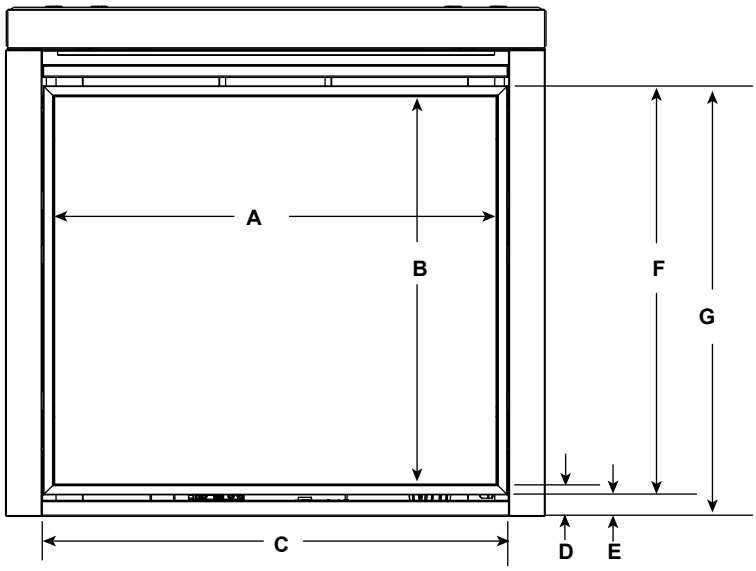
DV4236-B		
Location	**Inches**	**Millimeters**
A	41	1041
B	36-1/8	918
C	32-1/16	814
D	21-1/2	546
E	37-5/8	956
F	3-9/16	90
G	6-7/8	175
H	26-7/8	683
I	37-7/8	962
J	43-13/16	1113
K	8	203

DV4236-B		
Location	**Inches**	**Millimeters**
L	8-13/16	224
M	16-5/16	414
N	1/2	13
O	30-3/4	781
P	15-3/8	391
Q	15-7/8	403
R	6-5/8	168
S	2-3/16	56
T	6	152
U	1	25
V	33-9/16	853

Figure 3.2 Appliance Dimensions - DV4236-B

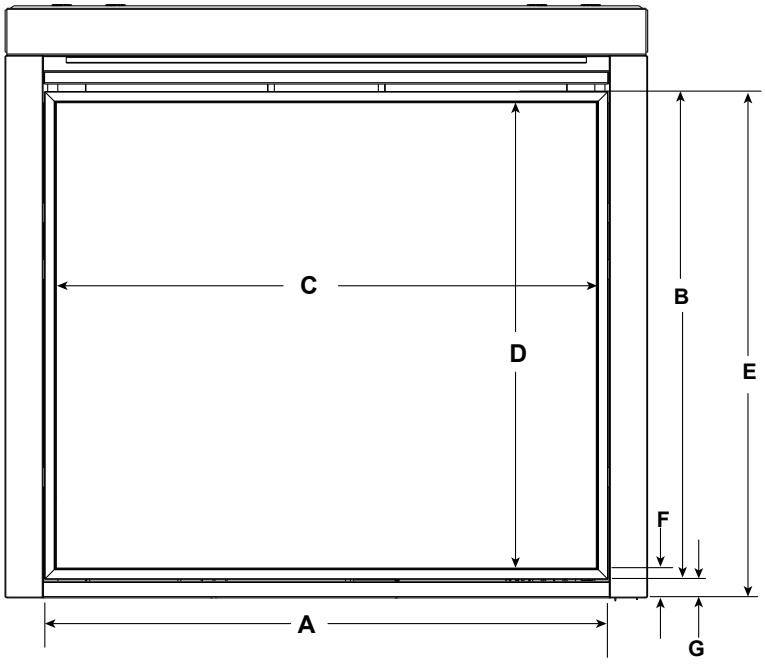
See Section 10 for facing and finishing detail.

DV3732-B DECORATIVE FRONT



		A	B	C	D	E	F	G
SRV2496-021	in.	28-7/8	25-1/8	31	2-5/8	1-5/8	27-1/8	28-3-/4
	mm	733	638	787	67	41	689	730

DV4236-B DECORATIVE FRONT



		A	B	C	D	E	F	G
SRV2498-021	in.	35-13/16	31-1/8	34-3/8	29-5/8	32-1/2	2-1/8	1-5/16
	mm	910	791	873	752	826	54	33

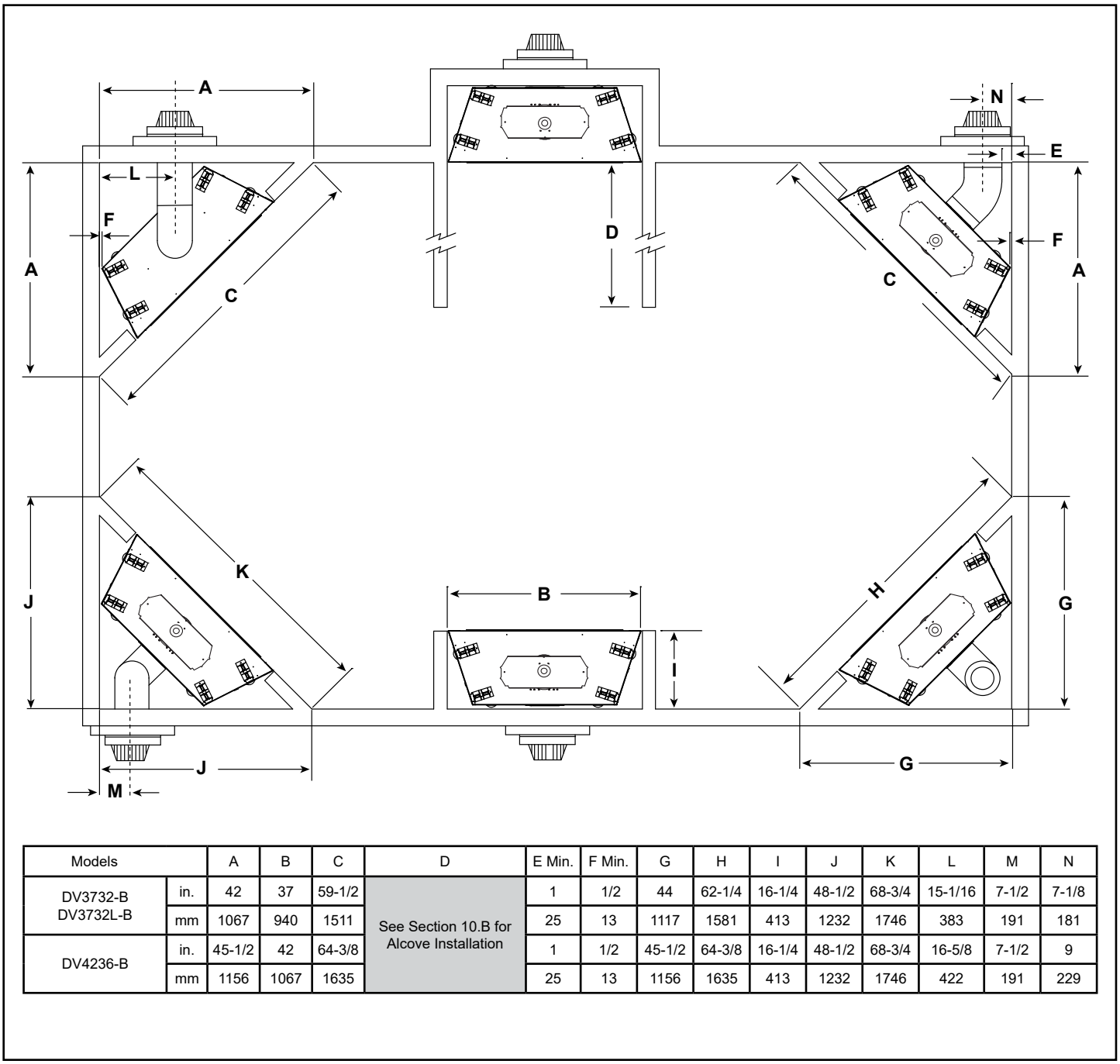
Figure 3.3 Decorative Front Dimensions

B. Clearances to Combustibles

When selecting a location for the appliance it is important to consider the required clearances to walls (see Figure 3.4).

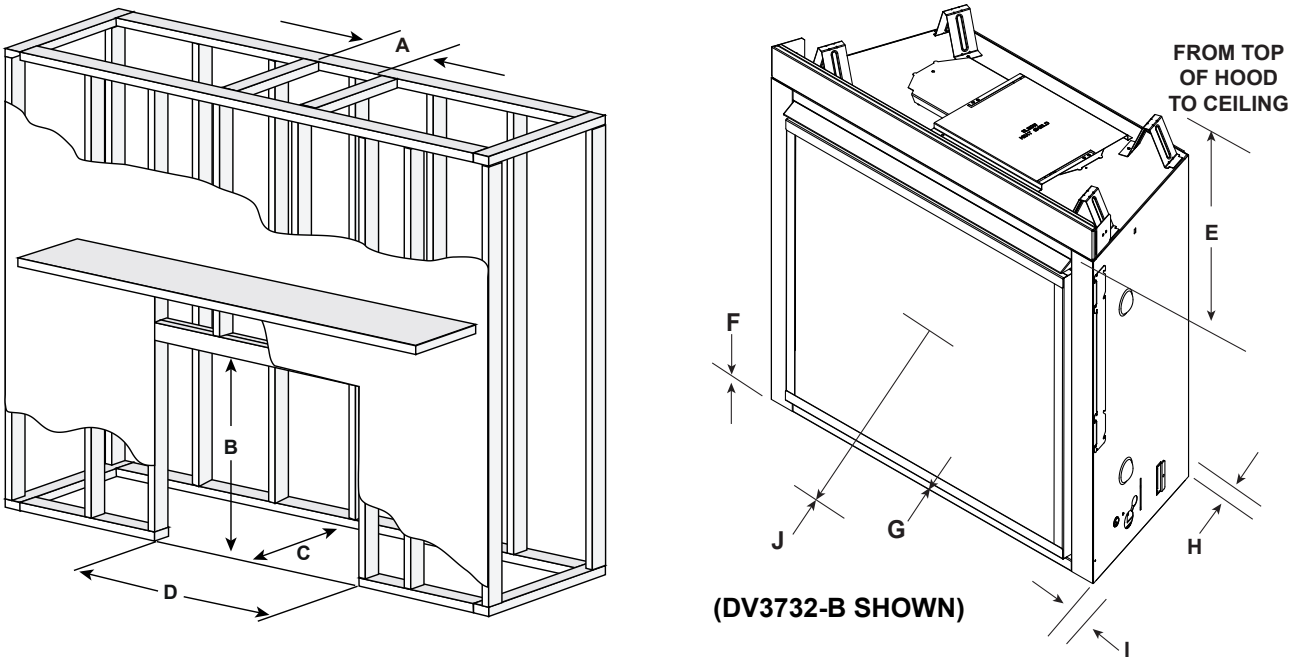
WARNING! Risk of Fire or Burns! *Provide adequate clearance around air openings and for service access.* ***Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.***

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.*



Models		A	B	C	D	E Min.	F Min.	G	H	I	J	K	L	M	N
DV3732-B DV3732L-B	in.	42	37	59-1/2	See Section 10.B for Alcove Installation	1	1/2	44	62-1/4	16-1/4	48-1/2	68-3/4	15-1/16	7-1/2	7-1/8
	mm	1067	940	1511		25	13	1117	1581	413	1232	1746	383	191	181
DV4236-B	in.	45-1/2	42	64-3/8		1	1/2	45-1/2	64-3/8	16-1/4	48-1/2	68-3/4	16-5/8	7-1/2	9
	mm	1156	1067	1635		25	13	1156	1635	413	1232	1746	422	191	229

Figure 3.4 Appliance Locations



MINIMUM FRAMING DIMENSIONS*													
Models		A		B	C		D	E	F	G	H	I	J
		DVP Pipe Rough Opening (Width)	SLP Pipe Rough Opening (Width)	Rough Opening (Height)	**DVP Pipe Rough Opening (Depth)	SLP Pipe Rough Opening (Depth)	Rough Opening (Width)	Clearance to Ceiling	***Combustible Floor	****Combustible Flooring	Behind Appliance	Sides of Appliance	Front of Appliance
DV3732-B DV3732L-B	in.	10	8-5/8	34-3/4	16-1/4	16-1/4	37	32	0	0	1/2	1/2	36
	mm	254	219	883	413	413	940	813	0	0	13	13	914
DV4236-B	in.	10	8-5/8	38-1/4	16-1/4	16-1/4	42	32	0	0	1/2	1/2	36
	mm	254	219	972	413	413	1067	813	0	0	13	13	914

* Adjust framing dimensions for interior sheathing (such as sheetrock)
** Add 12 inches for rear venting with one 90º elbow.
*** When using combustible flooring materials, such as carpeting and padding, the combustible flooring material must not extend higher than one inch from the base of the appliance when the appliance is mounted at floor level.
****For installations with vinyl flooring, see Section 3.D.

Figure 3.5 Clearances to Combustibles

C. Constructing the Appliance Chase

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.*

Chases should be constructed in the manner of all outside walls of the home to prevent cold air drafting problems. The chase should not break the outside building envelope in any manner.

Walls, ceiling, base plate and cantilever floor of the chase should be insulated. Vapor and air infiltration barriers should be installed in the chase as per regional codes for the rest of the home. Additionally, in regions where cold air infiltration may be an issue, the inside surfaces may be sheetrocked and taped (or an equivalent method may be used) to achieve maximum air tightness.

To further prevent drafts, the wall shield and ceiling firestops should be caulked with caulk with a minimum of 300ºF continuous exposure rating to seal gaps. Gas line holes and other openings should be caulked with caulk with a minimum of 300ºF 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.

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

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.*

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 could cause overheating and a fire.

D. 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.

4 Termination Location and Vent Information

A. Vent Termination Minimum Clearances

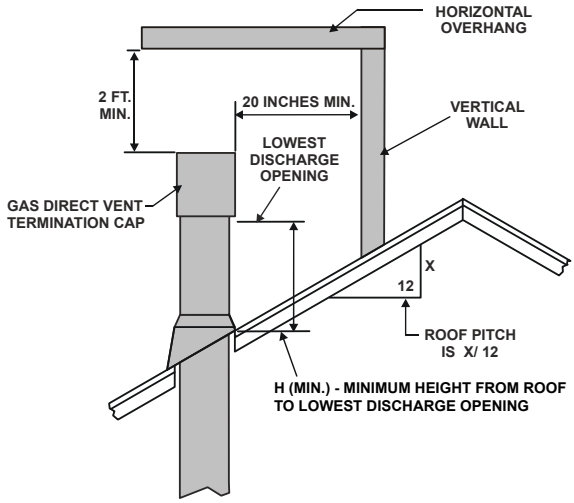
⚠ WARNING

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.

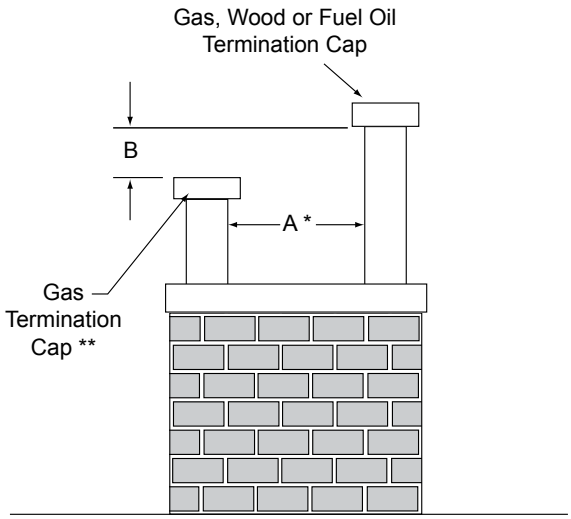


Roof Pitch	H (Min.) Ft.
Flat to 6/12	1.0*
Over 6/12 to 7/12	1.25*
Over 7/12 to 8/12	1.5*
Over 8/12 to 9/12	2.0*
Over 9/12 to 10/12	2.5*
Over 10/12 to 11/12	3.25
Over 11/12 to 12/12	4.0
Over 12/12 to 14/12	5.0
Over 14/12 to 16/12	6.0
Over 16/12 to 18/12	7.0
Over 18/12 to 20/12	7.5
Over 20/12 to 21/12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



* If using decorative cap cover(s), this distance may need to be increased. Refer to the installation instructions supplied with the decorative cap cover.

** In a staggered installation with both gas and wood or fuel oil terminations, the wood or fuel oil termination cap must be higher than the gas termination cap.

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.

H=Measure Horizontal Distances from H
V=Measure Vertical Distances from V

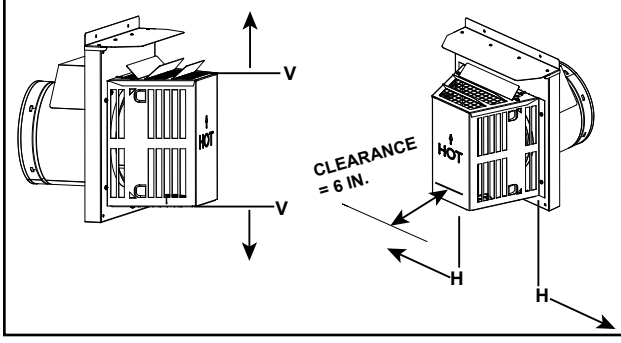
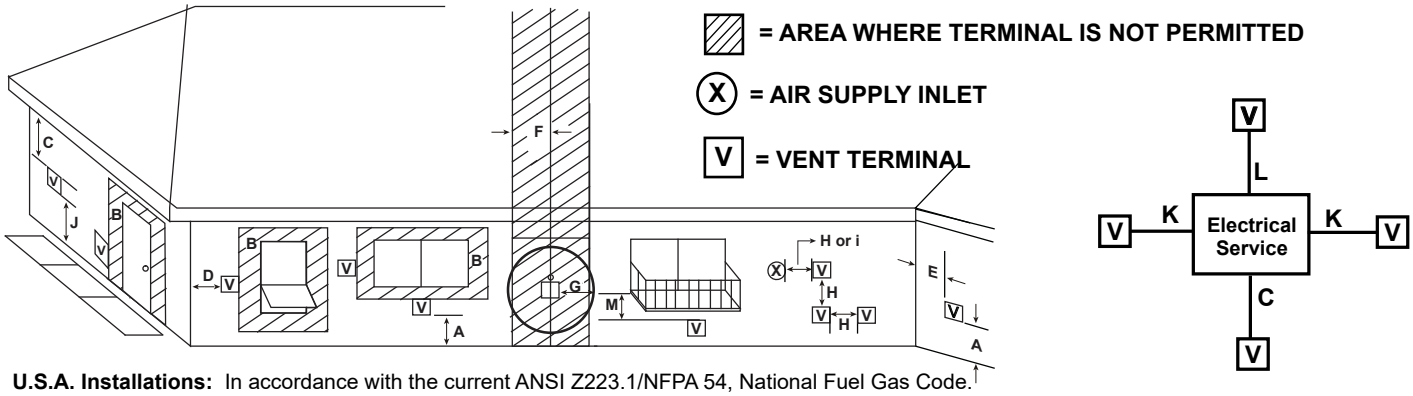


Figure 4.3

B. 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, or balcony	12 in. (305 mm)	12 in. (305 mm)
B	Clearance to window or door that may be opened, or to permanently closed window U.S.A.: = 9 in. (229 mm) min. CANADA: = 12 in. (305 mm) min.		
C	clearance below unventilated soffit	18 in. (457 mm)	18 in. (457 mm)
	clearance below ventilated soffit	18 in. (457 mm)	18 in. (457 mm)
	clearance below any vinyl soffits and electrical service	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	not to be installed above a gas meter/regulator assembly within 3 feet horizontally from the center-line of the regulator	3 ft (914 mm)	3 ft (914 mm)
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. (229 mm) min.	12 in. (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 **public** 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.)	18 in. (457 mm)	12 in. (305 mm)*
	vinyl or composite overhang	42 in. (1067 mm)	42 in. (1067 mm)

Figure 4.4 Minimum Clearances for Termination

C. Approved Pipe

Approved Pipe - Rigid

This appliance is approved for use with Hearth & Home Technologies DVP or SLP venting systems. Refer to Section 12.A 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.

WARNING! Risk of Fire or Asphyxiation. *This appliance requires a separate vent.* ***DO NOT*** *vent to a pipe serving a separate solid fuel burning appliance.*

Approved Pipe - Flex

This appliance is approved for use with Hearth & Home Technologies SLP-FLEX (6-5/8 in.) and SLP-FLEX7 (7 inch) venting systems.

DO NOT mix pipe, fittings or joining methods from different manufacturers. SLP-FLEX and SLP-FLEX7 venting cannot be interchanged.

SLP-FLEX (6-5/8 Inch): venting may be used in any venting configuration shown in the venting tables provided that the horizontal vent length is reduce by 25%.

SLP-FLEX7 (7 Inch-Canada Only): venting requires adapter collars to tranisition from the 6-5/8 in. appliance starting collar and to the 6-5/8” termination cap. Refer to installation instructions included with the SLP-FLEX7 collar adapter (SLP-FLEX7-A). SLP-FLEX7 Series venting is approved for use in Canada only.

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

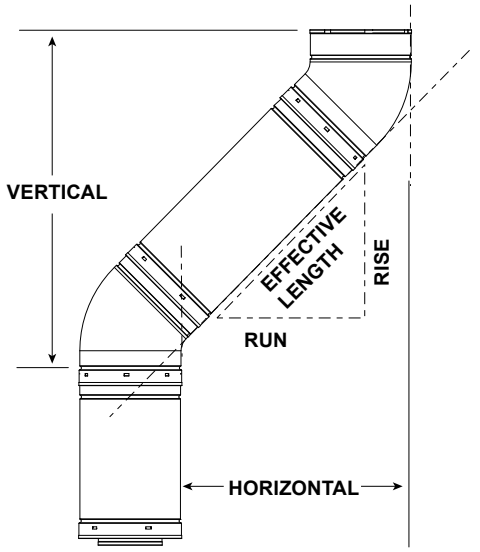
WARNING! Risk of Fire or Asphyxiation. *This appliance requires a separate vent.* ***DO NOT*** *vent to a pipe serving a separate solid fuel burning appliance.*

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 4.4.

Two 45º elbows may be used in place of one 90º elbow. On 45º runs, one foot of diagonal is equal to 8-1/2 in. (216 mm) horizontal run and 8-1/2 in. (216 mm) vertical run. A length of straight pipe is allowed between two 45º elbows. See Figure 4.5.

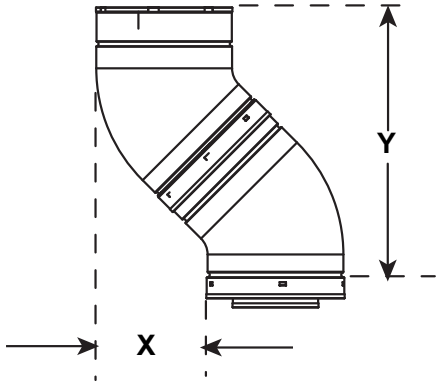
Figure 4.6 shows the vertical and horizontal offsets for DVP or SLP elbows.



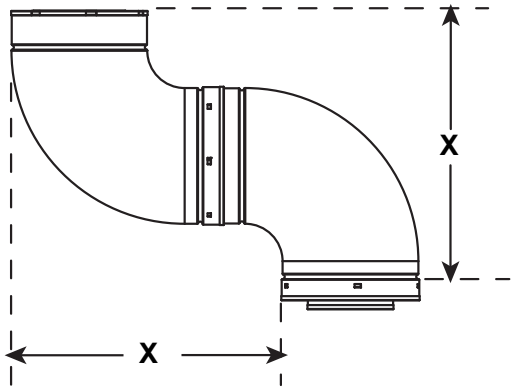
SLP Pipe	Effective Length		Rise/Run	
	Inches	Millimeters	Inches	Millimeters
SLP4	4	102	2-3/4	70
SLP6	6	152	4-1/4	108
SLP12	12	305	8-1/2	216
SLP24	24	610	17	432
SLP36	36	914	25-1/2	648
SLP48	48	1219	34	864
SLP6A	3 to 6	76 to 152	2-1/8-4-1/4	54-108
SLP12A	3 to 12	76 to 305	2-1/8-8-1/2	54-216

DVP Pipe	Effective Length		Rise/Run	
	Inches	Millimeters	Inches	Millimeters
DVP4	4	102	2-3/4	70
DVP6	6	152	4-1/4	108
DVP12	12	305	8-1/2	216
DVP24	24	610	17	432
DVP36	36	914	25-1/2	648
DVP48	48	1219	34	864
DVP6A	3 to 6	76 to 152	2-1/8-4-1/4	54-108
DVP12A	3 to 12	76 to 305	2-1/8-8-1/2	54-216

Figure 4.5



Vent Type	X		Y	
	Inches	Millimeters	Inches	Millimeters
DVP	6-5/8	168	16-1/2	419
SLP	5-1/4	133	11-3/8	289



Vent Type	X	
	Inches	Millimeters
DVP	16-1/4	413
SLP	11-1/4	286

Figure 4.6 Vertical and Horizontal Offset for DVP and SLP Elbows

E. Measuring Standards

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

- Pipe measurements are shown using the effective length of pipe. See Section 12.A (Figure 12.1 for DVP, Figure 12.6 for SLP) for information on effective length of pipe components.
- Horizontal terminations are measured to the outside mounting surface (flange of termination cap) (see Figure 4.7).
- Vertical terminations are measured to top of last section of pipe. See Figure 4.8.
- Horizontal pipe installed level with no rise.

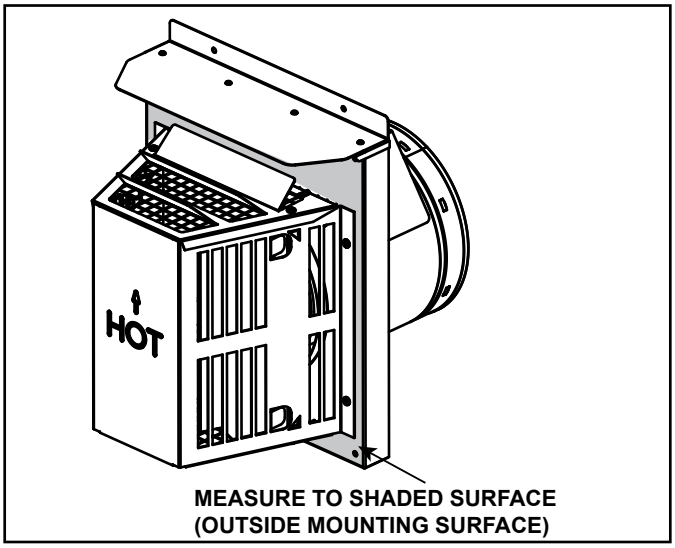


Figure 4.7 Measure to Outside Mounting Surface

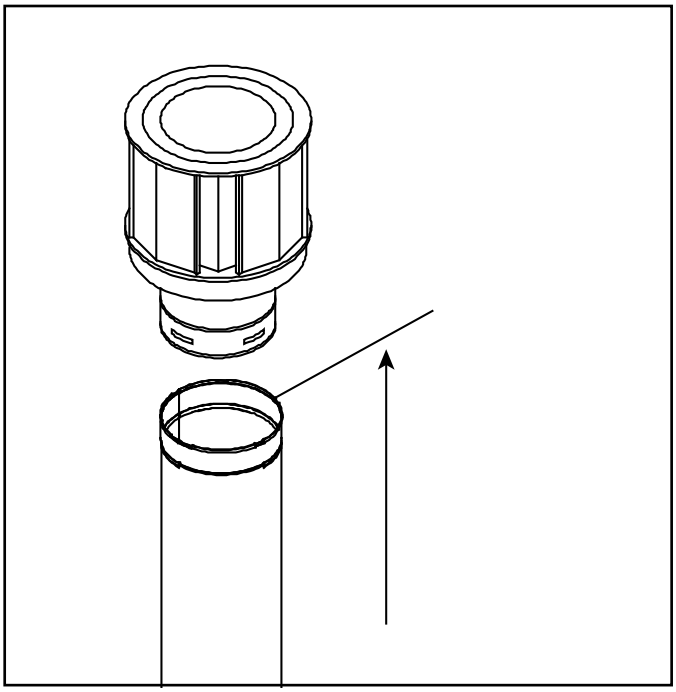


Figure 4.8 Measure to Top of Last Section of Pipe

F. Use of Flex Vent (SLP-FLEX Series 6-5/8 Inch)

The flex vent must be supported with the spacing between support intervals not exceeding 4 feet, with no more than ½ inch sag between supports.

A support is required at each change in venting direction, and in any location where it is necessary to maintain the necessary clearance to combustibles. A simple “up and out” installation (Figure 4.9) requires only enough support to maintain the necessary clearance to combustibles. However, the vent attachment point and the firestop location are considered to be supports.

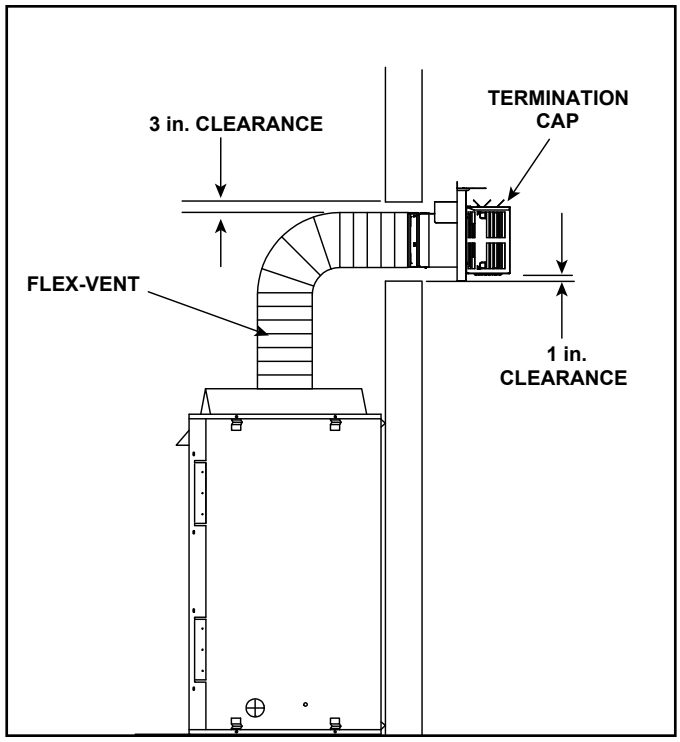


Figure 4.9

G. Vent Diagrams

General Rules:

- SUBTRACT 3 ft. from the total H measurement for each 90º elbow installed horizontally.
- SUBTRACT 1-1/2 ft. from the total H measurement for each 45º elbow installed horizontally.
- **Rear Vented:** A maximum of three 90º elbows (or six 45º elbows) may be used in any vent configuration. Some elbows may be installed horizontally. See Figure 4.24 and 4.25.
- **Top Vented:** A maximum of four 90º elbows (or eight 45º elbows) may be used in any vent configuration. Some elbows may be installed horizontally. See Figure 4.17 and 4.18.
- Elbows may be placed back to back anywhere in the system.
- Any 90º elbow may be replaced with two back to back 45º elbows.
- 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.
- Horizontal termination cap should have a 1/4 inch downward slant to allow any moisture in cap to be released. See Figure 4.10.

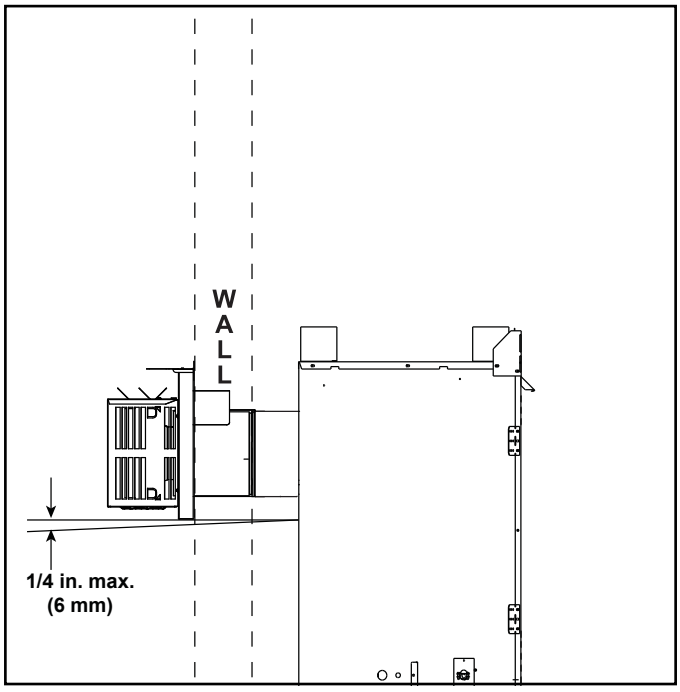


Figure 4.10

Top Vent - Horizontal Termination

One Elbow

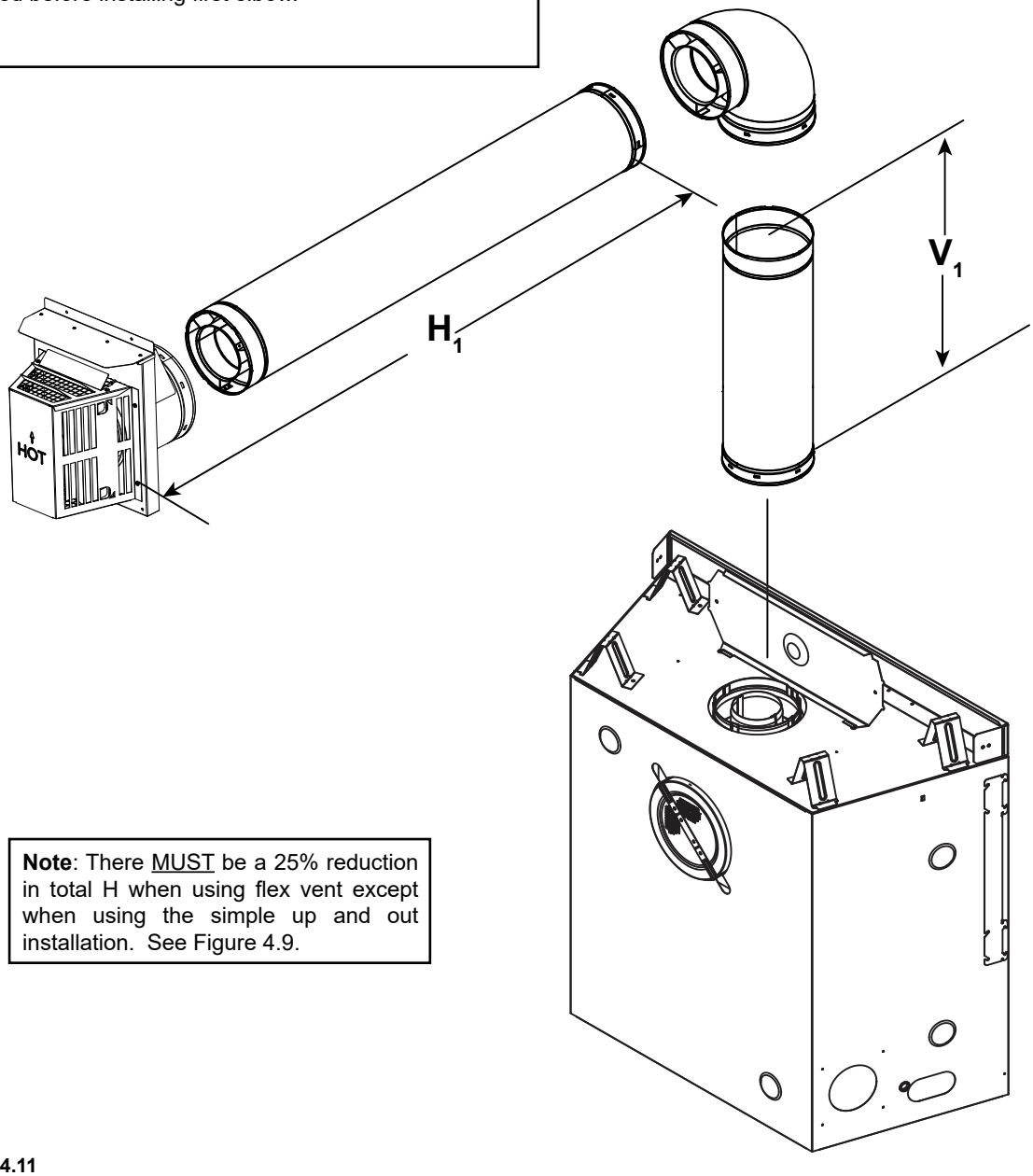
Note: Use SLP Series components only.

V_1 Minimum**		H_1 Maximum	
90 Elbow Only**		2 ft.	610 mm
1/2 ft.**	152 mm	2 ft.	610 mm
1-1/2 ft.**	457 mm	3 ft.	914 mm
2-1/2 ft.**	762 mm	5 ft.	1.5 m
3-1/2 ft.	1.1 m	7 ft.	2.1 m
4-1/2 ft.	1.4 m	15 ft.	4.6 m
H_1 MAX. =15 ft. (4.6 m) $V_1 + H_1$ MAX. = 40 ft. (12.2 m) ** See Warning.			

⚠ WARNING**

Fire Risk.

- When using SLP-HRC-SS termination cap on top vented fireplaces, a one foot minimum vertical vent section is required before installing first elbow.
- Installation of the elbow heat shield is required when the clearance to combustible material above the first vent elbow is six inches or less. See Section 5.A and 5.B.
- When using DVP-TB1 termination cap on top vented fireplaces, a three foot minimum vertical vent section is required before installing first elbow.



Note: There MUST be a 25% reduction in total H when using flex vent except when using the simple up and out installation. See Figure 4.9.

Figure 4.11

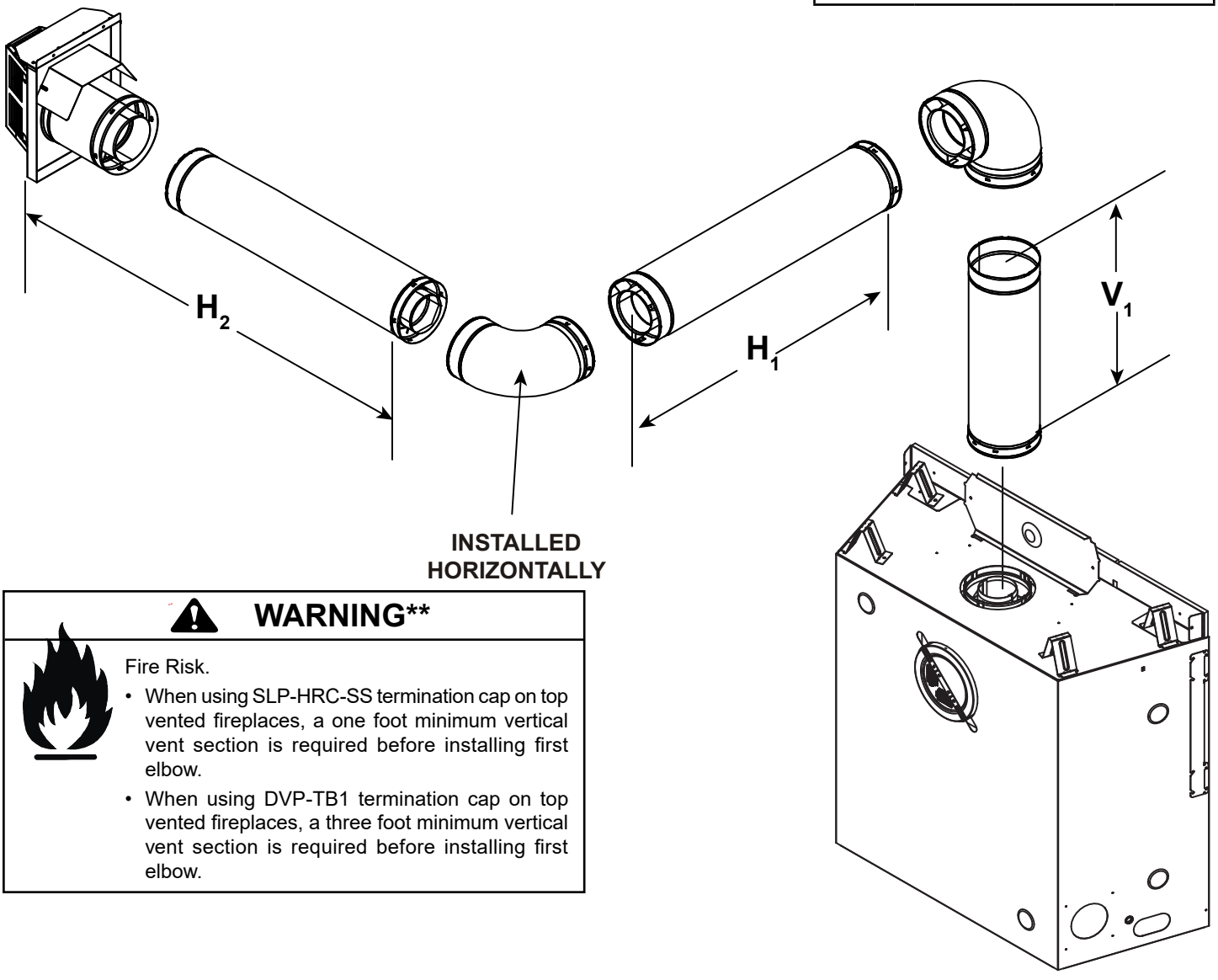
Top Vent - Horizontal Termination - (continued)

Two Elbows

Note: Use SLP Series components only.

Note: There MUST be a 25% reduction in total H when using flex vent except when using the simple up and out installation. See Figure 4.9.

V_1 Minimum**		$H_1 + H_2$ Maximum	
90 Elbow Only**		1/2 ft.	152 mm
1/2 ft.**	152 mm	1 ft.	305 mm
1-1/2 ft.**	457 mm	2 ft.	610 mm
2-1/2 ft.**	762 mm	4 ft.	1.2 m
3-1/2 ft.	1.1 m	6 ft.	1.8 m
4-1/2 ft.	1.4 m	14 ft.	4.3 m
$H_1 + H_2$ MAX. =14 ft. (4.3 m) $V_1 + H_1 + H_2$ MAX. = 40 ft. (12.2 m) **See Warning Below.			



WARNING**

Fire Risk.

- When using SLP-HRC-SS termination cap on top vented fireplaces, a one foot minimum vertical vent section is required before installing first elbow.
- When using DVP-TB1 termination cap on top vented fireplaces, a three foot minimum vertical vent section is required before installing first elbow.

Figure 4.12

Three Elbows

Note: Use SLP Series components only.

V_1 Minimum**		H_1 Maximum		$H_1 + H_2$ Maximum		V_2	$V_1 + V_2$ Minimum
90 Elbow Only**		1-1/2 ft.	457 mm	2 ft.	610 mm	*	*
1/2 ft.**	152 mm	1-1/2 ft.	457 mm	4 ft.	1.2 m	*	*
1-1/2 ft.	457 mm	3 ft.	914 mm	6 ft.	1.8 m	*	*
2-1/2 ft.	762 mm	5 ft.	1.5 m	10 ft.	3.0 m	*	*
3-1/2 ft.	1.1 m	7 ft.	2.1 m	14 ft.	4.3 m	*	*
4-1/2 ft.	1.4 m	14 ft.	4.3 m	14 ft.	4.3 m	*	*

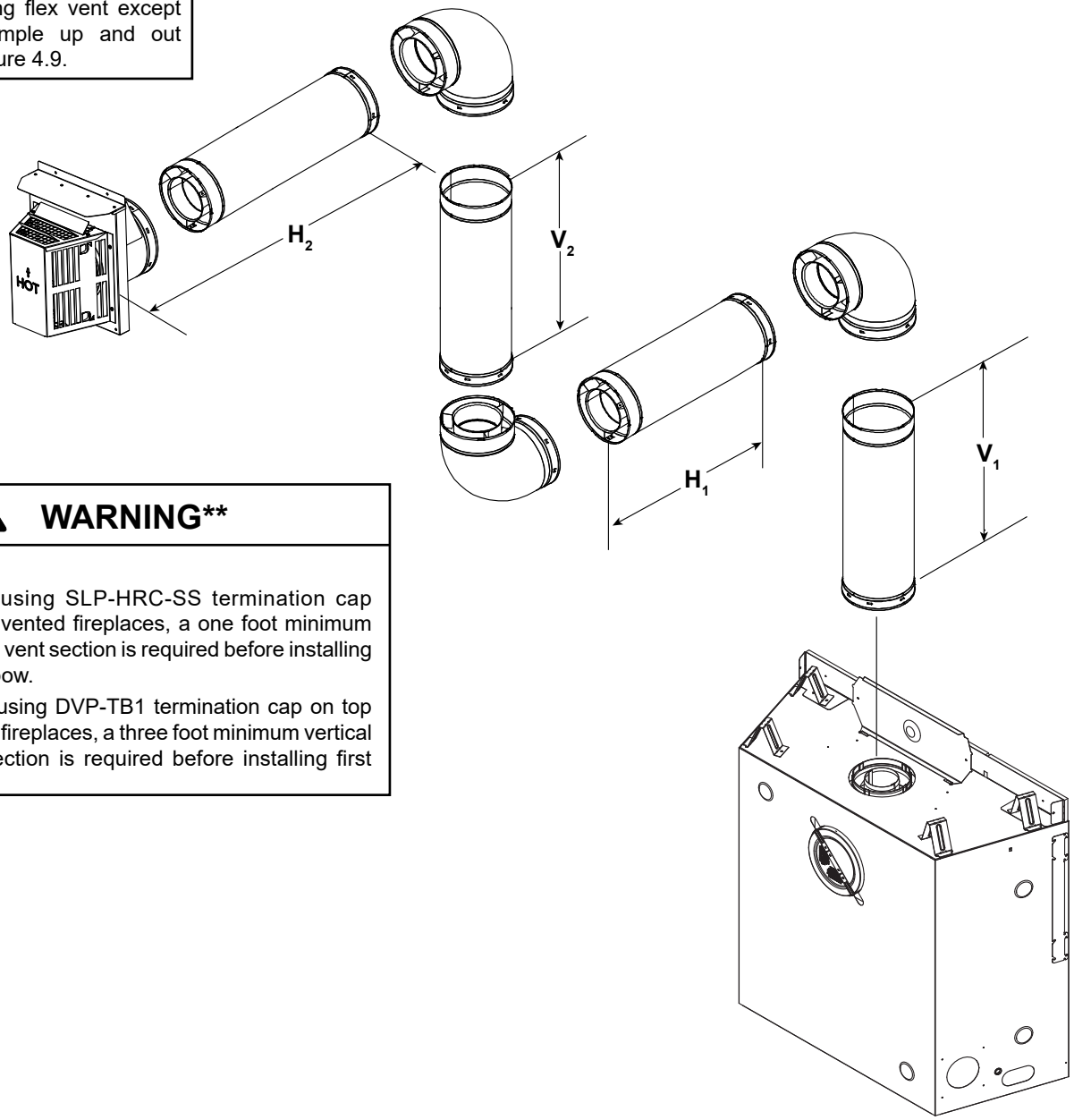
$H_1 + H_2$ MAX. =14 ft. (4.3 m)

*No specific restrictions on this value EXCEPT $V_1 + V_2 + H$ CANNOT exceed 40 ft. (12.2 m)

$V_1 + V_2 + H_1 + H_2$ MAX. = 40 ft. (12.2 m)

** See Warning Below.

Note: There MUST be a 25% reduction in total H when using flex vent except when using the simple up and out installation. See Figure 4.9.



⚠ WARNING**

Fire Risk.

- When using SLP-HRC-SS termination cap on top vented fireplaces, a one foot minimum vertical vent section is required before installing first elbow.
- When using DVP-TB1 termination cap on top vented fireplaces, a three foot minimum vertical vent section is required before installing first elbow.

Figure 4.13

Top Vent - Vertical Termination

No Elbows

V_1 = 60 ft. Max. (18.3 m)

Note: If installing a vertical vent/termination off the top of the appliance, the optional vertical termination baffle may be needed.

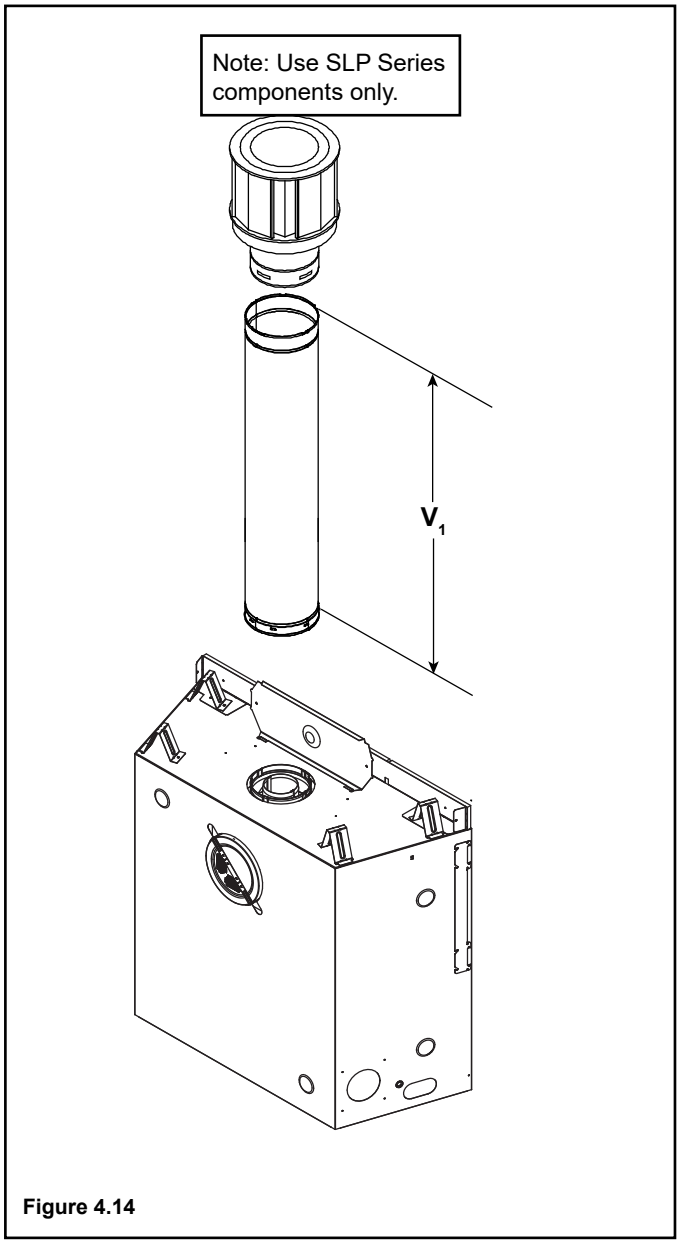


Figure 4.14

Exhaust restrictors are recommended for these vertically terminated products which have excessive draft. Exhaust restrictors will compensate for high draft, and restore visual flame height. If the vent configuration has a total vertical of 15-60 feet, an exhaust restrictor may be needed. The exhaust restrictor can be located in the appliance manual bag.

Exhaust restrictor Instructions

1. Install the exhaust restrictor over the center of the exhaust outlet in the firebox. See Figure 4.15.
2. Center the exhaust restrictor in the open end of the exhaust outlet and secure through the slots on the exhaust restrictor with the 2-1/4 in. self-tapping screws provided in the appliance manual bag.

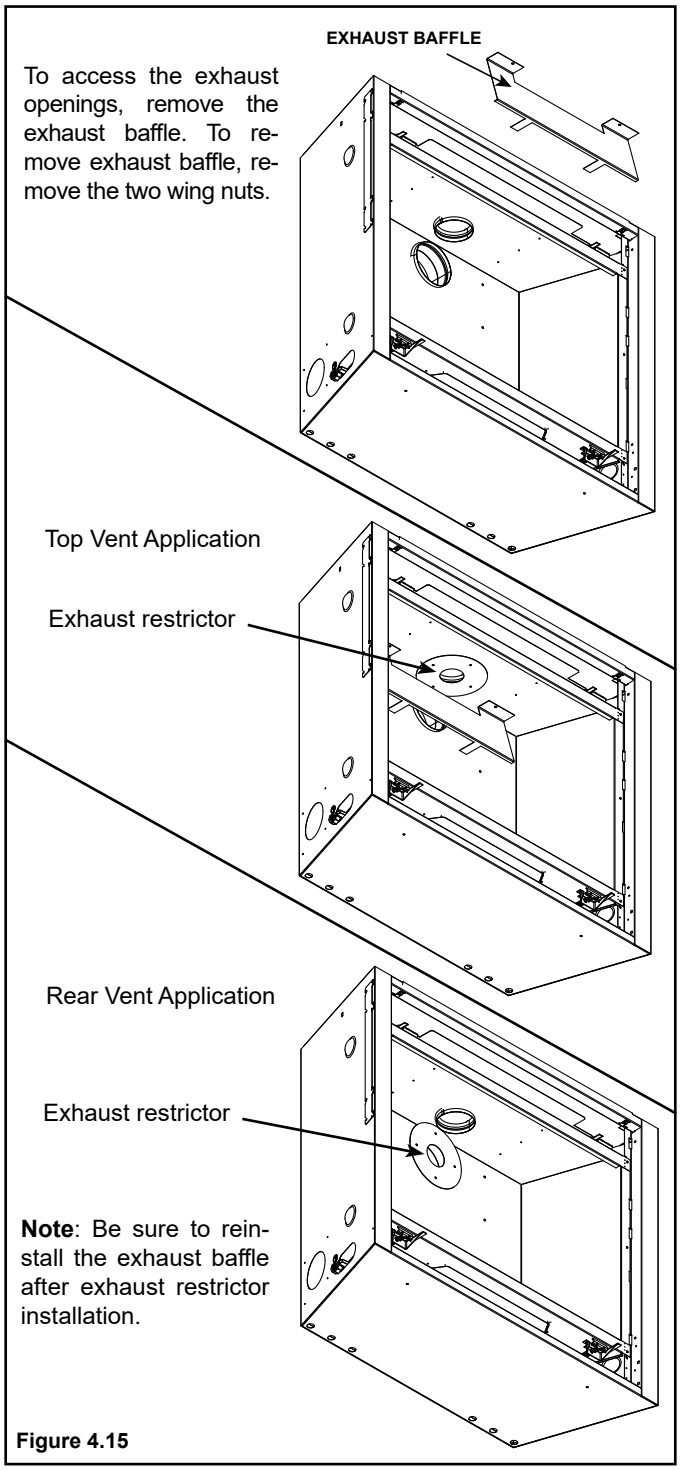


Figure 4.15

Top Vent - Vertical Termination - *(continued)*

Two Elbows

Note: Use SLP Series components only.

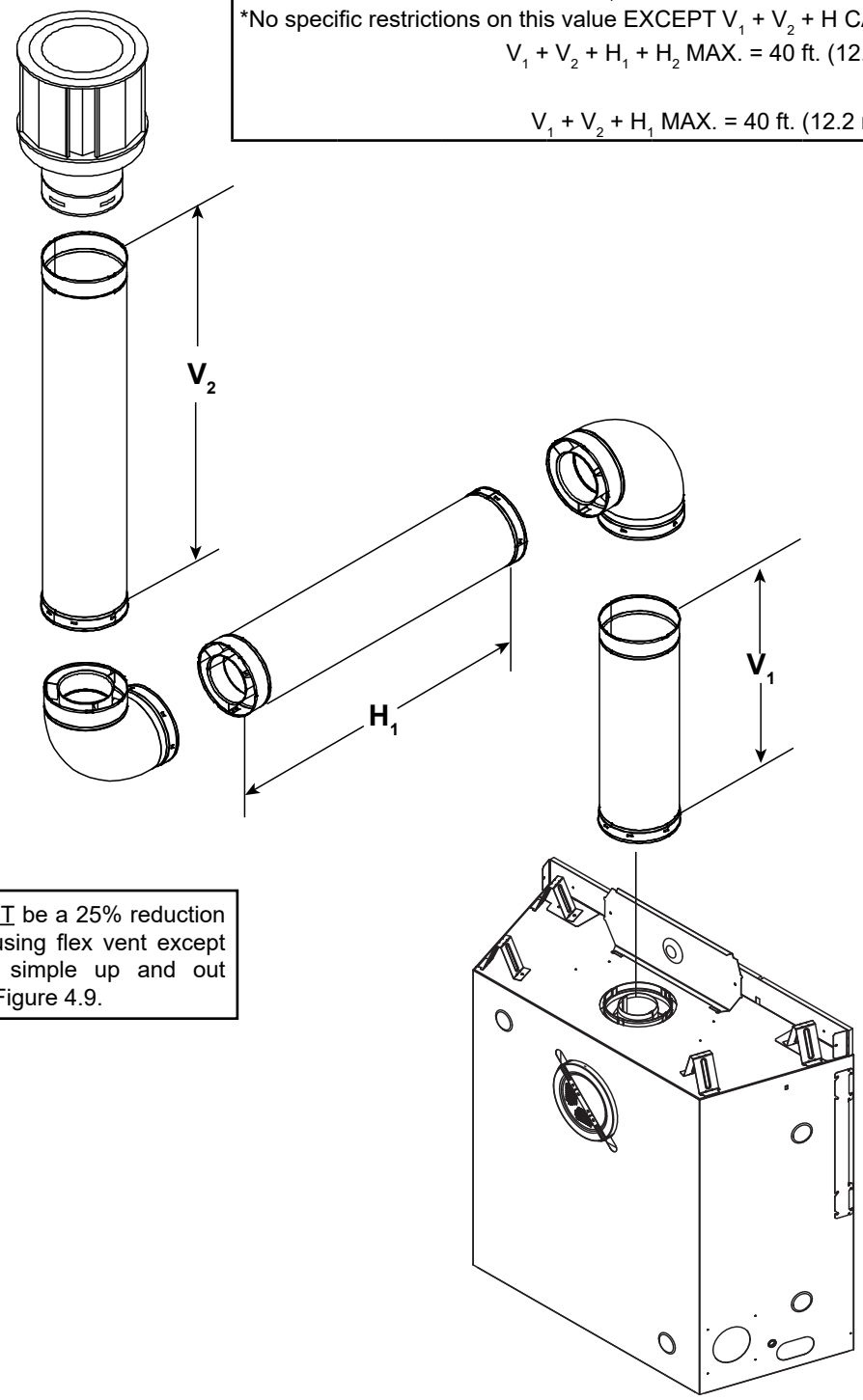
V_1 Minimum		H_1 Maximum		V_2	$V_1 + V_2$ Minimum
90 Elbow Only		1-1/2 ft.	457 mm	*	*
1/2 ft.	152 mm	2 ft.	610 mm	*	*
1-1/2 ft.	457 mm	3 ft.	914 mm	*	*
2-1/2 ft.	762 mm	5 ft.	1.5 m	*	*
3-1/2 ft.	1.1 m	7 ft.	2.1 m	*	*
4-1/2 ft.	1.4 m	15 ft.	4.6 m	*	*

H_1 MAX. =15 ft. (4.6 m)

*No specific restrictions on this value EXCEPT $V_1 + V_2 + H$ CANNOT exceed 40 ft. (12.2 m).

$V_1 + V_2 + H_1 + H_2$ MAX. = 40 ft. (12.2 m)

$V_1 + V_2 + H_1$ MAX. = 40 ft. (12.2 m)



Note: There MUST be a 25% reduction in total H when using flex vent except when using the simple up and out installation. See Figure 4.9.

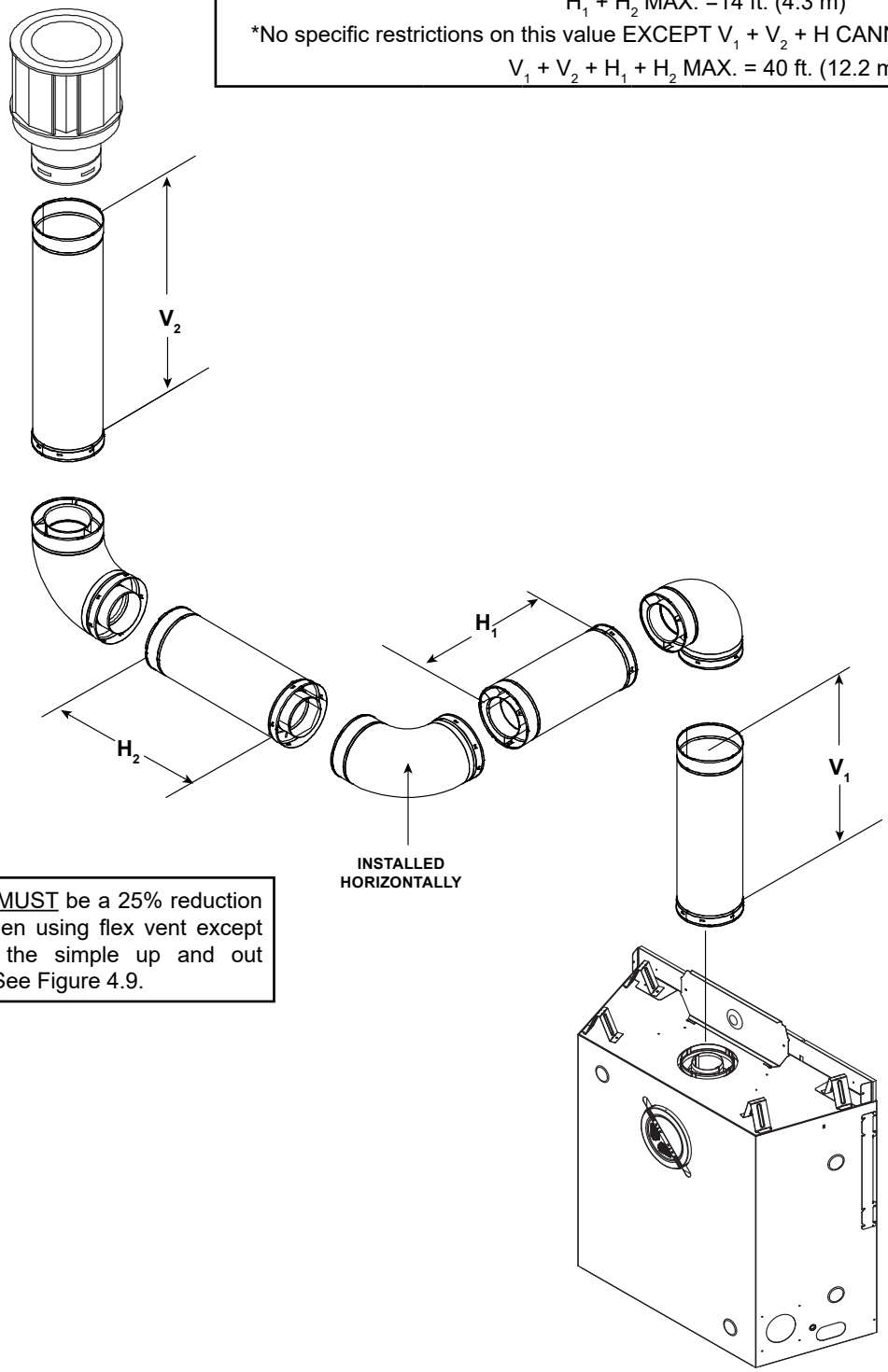
Figure 4.16

Top Vent - Vertical Termination - *(continued)*

Three Elbows

Note: Use SLP Series components only.

V_1 Minimum		$H_1 + H_2$ Maximum		V_2	$V_1 + V_2$ Minimum
90 Elbow Only		1/2 ft.	152 mm	*	*
1/2 ft.	152 mm	1 ft.	305 mm	*	*
1-1/2 ft.	457 mm	2 ft.	610 mm	*	*
2-1/2 ft.	762 mm	4 ft.	1.2 m	*	*
3-1/2 ft.	1.1 m	6 ft.	1.8 m	*	*
4-1/2 ft.	1.4 m	14 ft.	4.3 m	*	*
$H_1 + H_2$ MAX. =14 ft. (4.3 m) *No specific restrictions on this value EXCEPT $V_1 + V_2$ + H CANNOT exceed 40 ft. (12.2 m). $V_1 + V_2 + H_1 + H_2$ MAX. = 40 ft. (12.2 m)					



Note: There MUST be a 25% reduction in total H when using flex vent except when using the simple up and out installation. See Figure 4.9.

Figure 4.17

Four 90º Elbows

V_1 MIN.		H_1 MAX.		V_2 MIN.		H_2 MAX.		V_3 MIN.	
1-1/2 ft.	457 mm	4 ft.	1.2 m	4 ft.	1.2 m	4 ft.	1.2 m	3-1/2 ft.	1.1 m
$V_1 + V_2 + V_3 + H_1 + H_2$ Maximum= 40 ft. (12.2 m)									

Note: Use SLP Series components only.

Note: There MUST be a 25% reduction in total H when using flex vent except when using the simple up and out installation. See Figure 4.9.

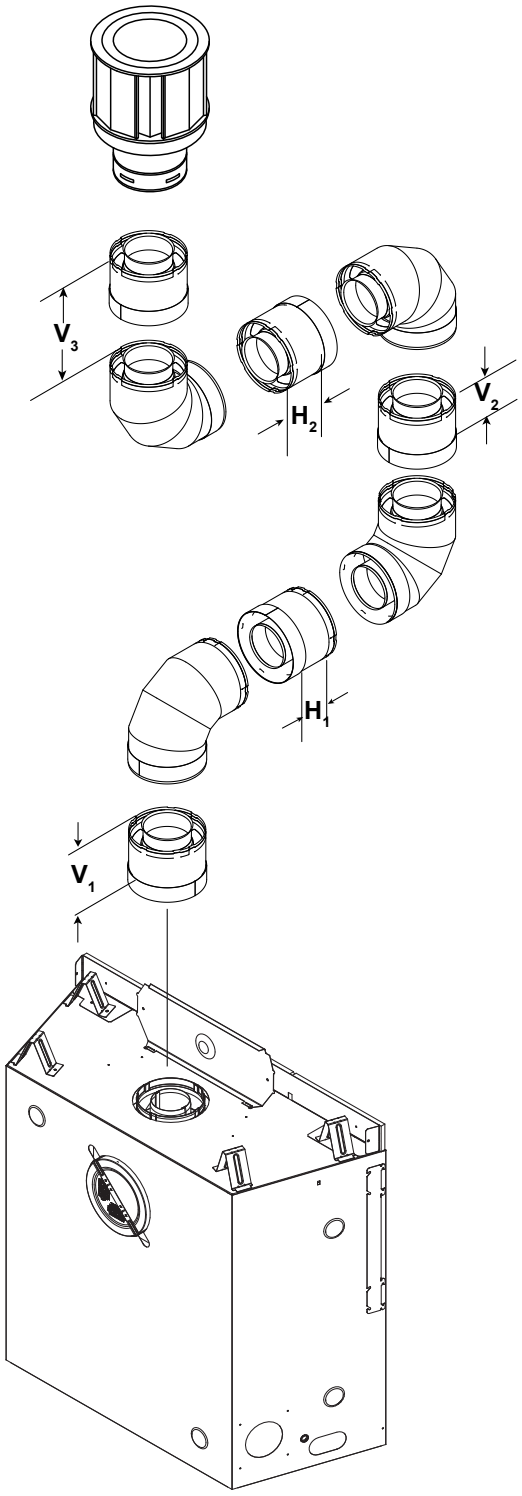


Figure 4.18

Rear Vent - Horizontal Termination

No Elbow

H_1 = 24 in. Max. (610 mm)

Note: Use DVP Series components only.

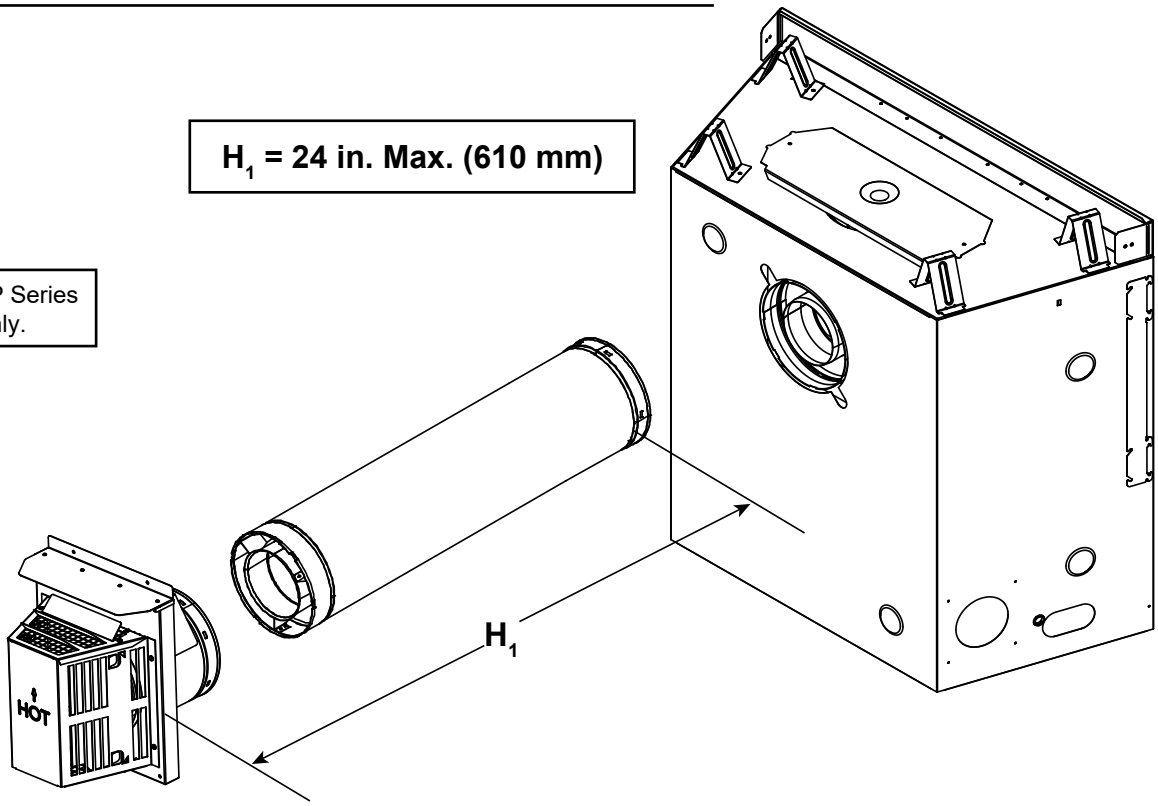


Figure 4.19

One 45º Elbow

H_1 = 9 in. (229 mm) Maximum

Note: Use DVP Series components only.

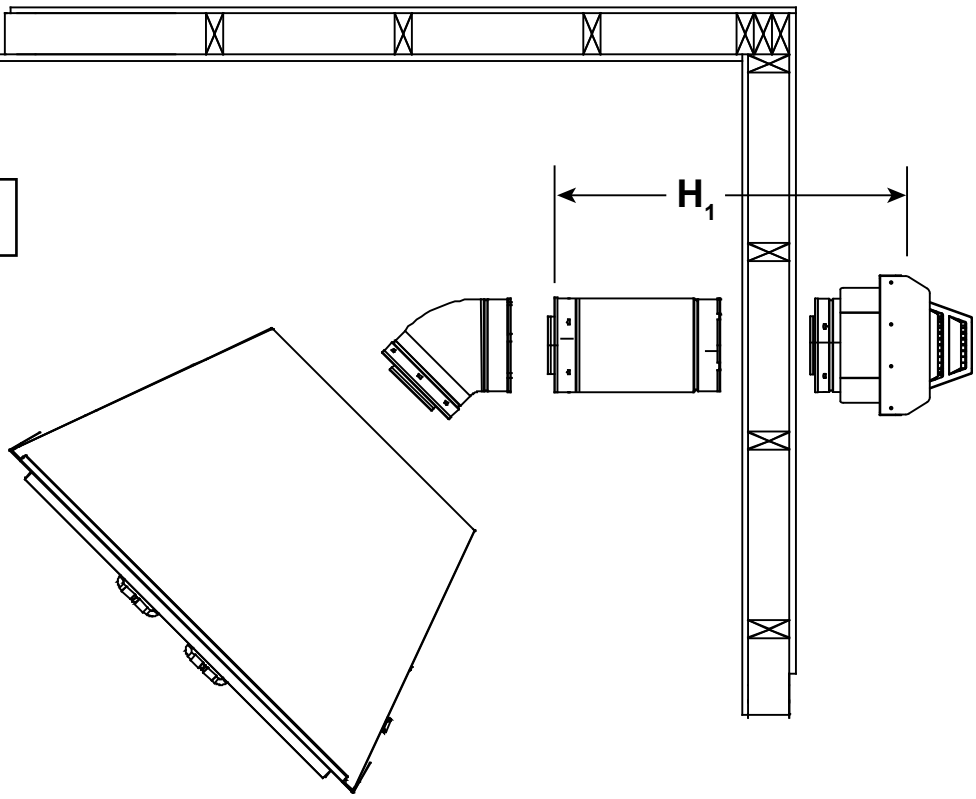


Figure 4.20

Two Elbows

Note: Use DVP Series components only.

H_1 MAX.		V_1 MIN.		H_2 MAX.		$H_1 + H_2$ MAX.	
1-1/2 ft.	457 mm	Back to back elbows		1 ft.	305 mm	2-1/2 ft.	762 mm
3 ft.	914 mm	1 ft.	305 mm	3 ft.	914 mm	6 ft.	1.8 m
5 ft.	1.5 m	3 ft.	914 mm	5 ft.	1.5 m	10 ft.	3.0 m
7 ft.	2.1 m	5 ft.	1.5 m	7 ft.	2.1 m	14 ft.	4.3 m
H_1 MAX. = 7 ft. (2.1 m) $H_1 + H_2$ MAX. = 14 ft. (4.3 m) $V_1 + H_1 + H_2$ MAX. = 40 ft. (12.2 m)							

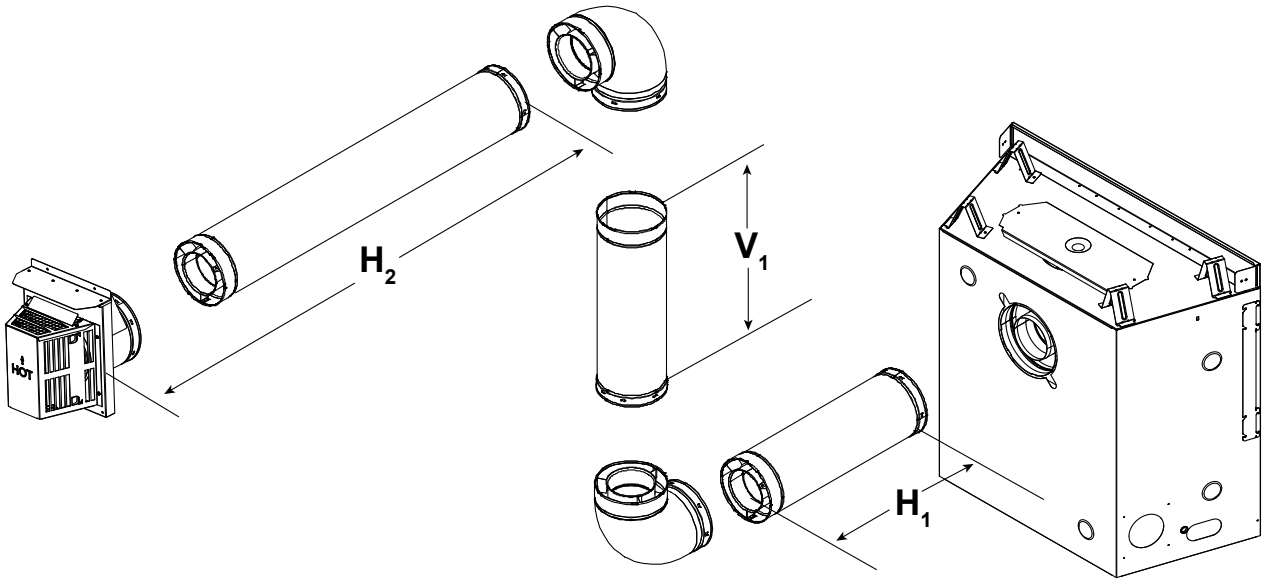


Figure 4.21

Three Elbows

Note: Use DVP Series components only.

H_1 MAX.		V_1 MIN.		$H_2 + H_3$ MAX.		$H_1 + H_2 + H_3$ MAX.	
1-1/2 ft.	457 mm	Back to back elbows		1 ft.	305 mm	2-1/2 ft.	762 mm
3-1/2 ft.	1.1 m	1 ft.	305 mm	2 ft.	610 mm	5-1/2 ft.	1.7 m
5-1/2 ft.	1.7 m	2 ft.	610 mm	4 ft.	1.2 m	9-1/2 ft.	2.9 m
7-1/2 ft.	2.3 m	3 ft.	914 mm	6 ft.	1.8 m	13-1/2 ft.	4.1 m
H_1 MAX. = 7-1/2 ft. (2.3 m) $H_1 + H_2 + H_3$ MAX. = 13-1/2 ft. (4.1 m) $V_1 + H_1 + H_2 + H_3$ MAX. = 40 ft. (12.2 m)							

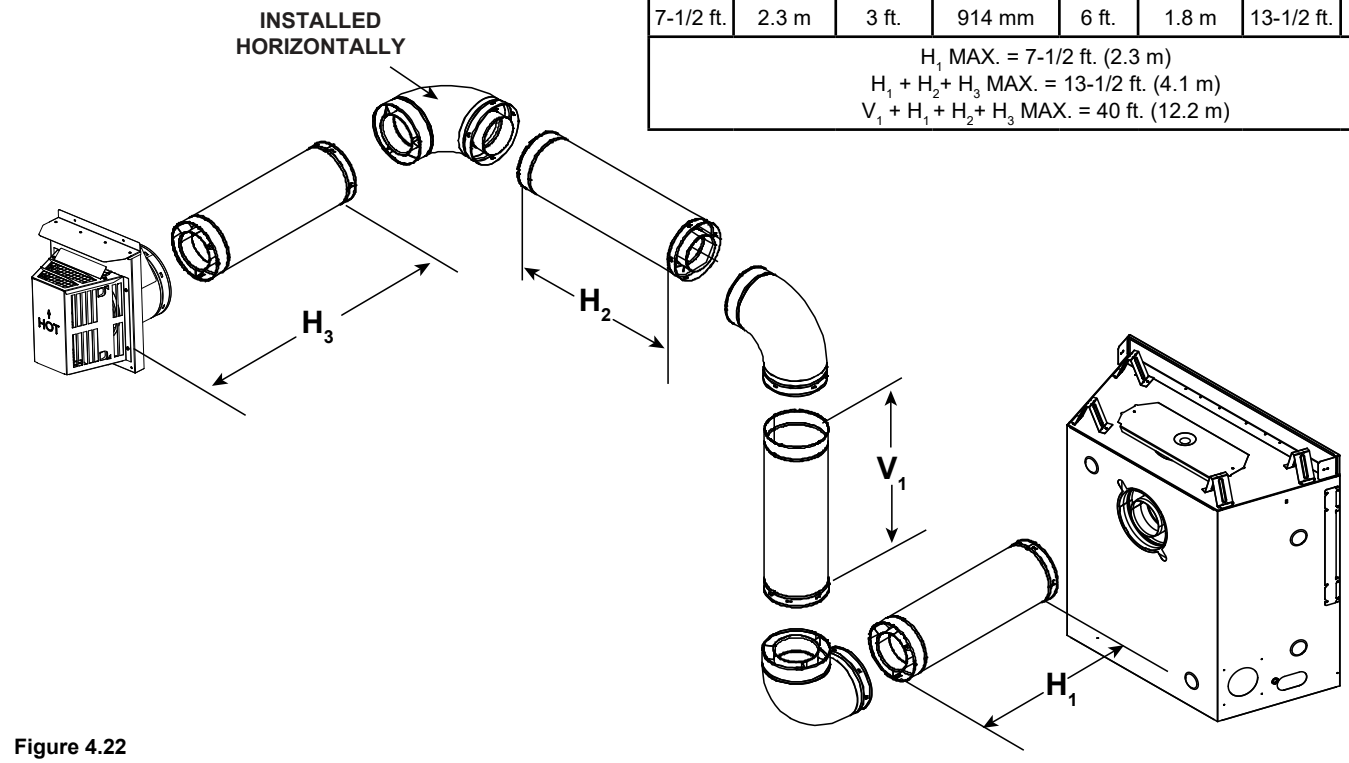


Figure 4.22

Rear Vent - Vertical Termination

One Elbow

Note: Use DVP Series components only.

V_1 MIN.		H_1 MAX.	
1 ft.	305 mm	3-1/2 ft.	1.1 m
2 ft.	610 mm	5-1/2 ft.	1.7 m
3 ft.	914 mm	7-1/2 ft.	2.3 m
H MAX. = 7-1/2 ft. (2.3 m) $V_1 + H_1$ MAX. = 40 ft. (12.2 m)			

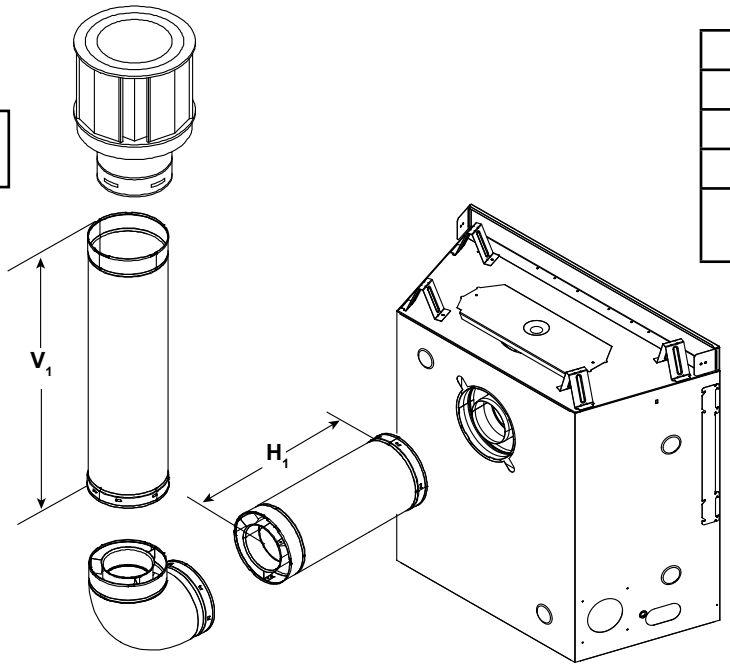


Figure 4.23

Two Elbows

Note: Use DVP Series components only.

$H_1 + H_2$ MAX		V_1 MIN.	
Back to back elbows		1/2 ft.	152 mm
2-1/2 ft.	762 mm	1 ft.	305 mm
4-1/2 ft.	1.4 m	2 ft.	610 mm
6-1/2 ft.	2.0 m	3 ft.	914 mm
H MAX. = 6-1/2 ft. (2 m) V + H+ H_1 MAX. = 40 ft. (12.2 m)			

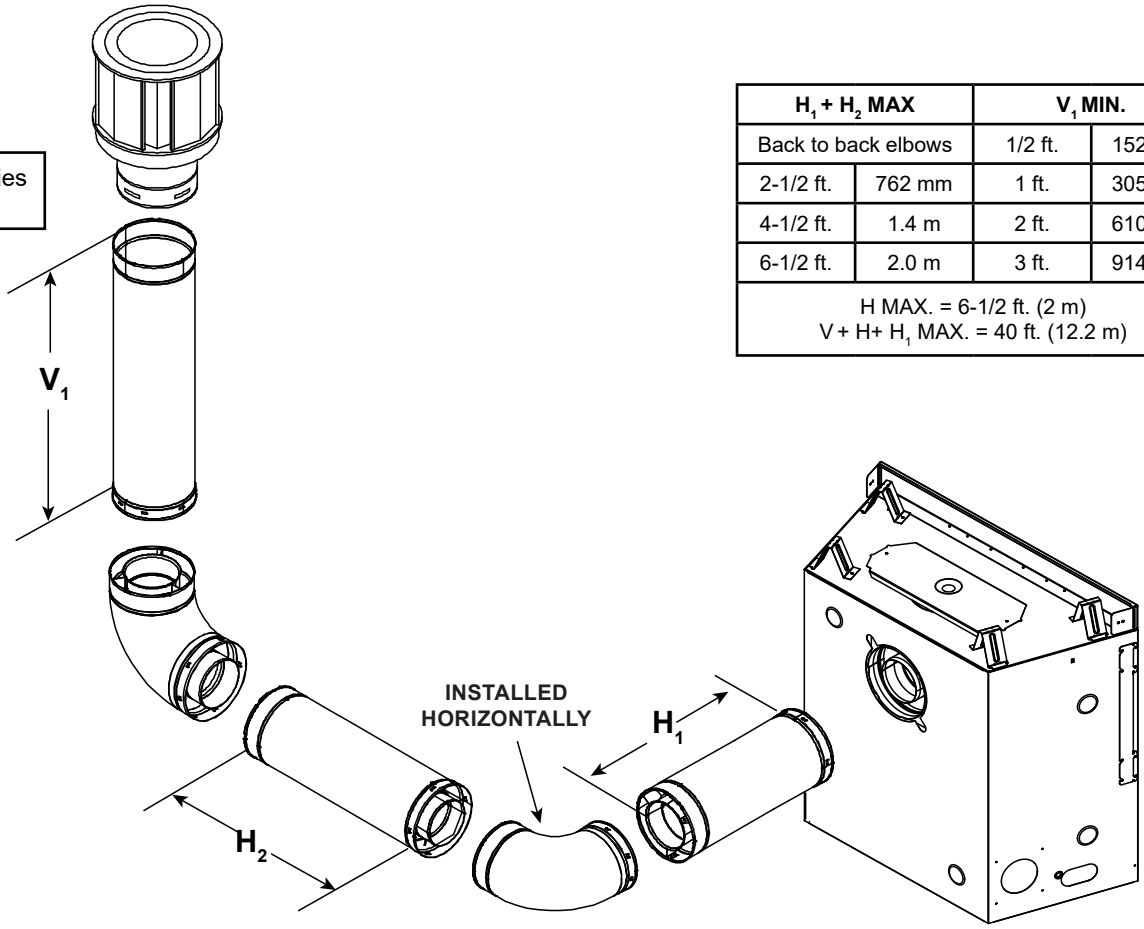


Figure 4.24

Rear Vent - Vertical Termination - (continued)

Three Elbows

V_1 MIN.		H_1 MAX.		H_2 MAX.		$H_1 + H_2$ MAX.		V_2	$V_1 + V_2$ Minimum
Back to back elbows		1-1/2 ft.	457 mm	1 ft.	305 mm	2-1/2 ft.	762 mm	*	*
1 ft.	305 mm	3-1/2 ft.	1.1 m	3 ft.	914 mm	6-1/2 ft.	2.0 m	*	*
2 ft.	610 mm	5-1/2 ft.	1.7 m	5 ft.	1.5 m	10-1/2 ft.	3.2 m	*	*
3 ft.	914 mm	7-1/2 ft.	2.3 m	7 ft.	2.1 m	14-1/2 ft.	4.4 m	*	*
H_1 MAX. = 7-1/2 ft. (2.3 m) $H_1 + H_2$ MAX. = 14-1/2 ft. (4.4 m) $V_1 + V_2 + H_1 + H_2$ MAX. = 40 ft. (12.2 m) *No specific restrictions on this value EXCEPT $V_1 + V_2$ + H CANNOT exceed 40 ft. (12.2 m).									

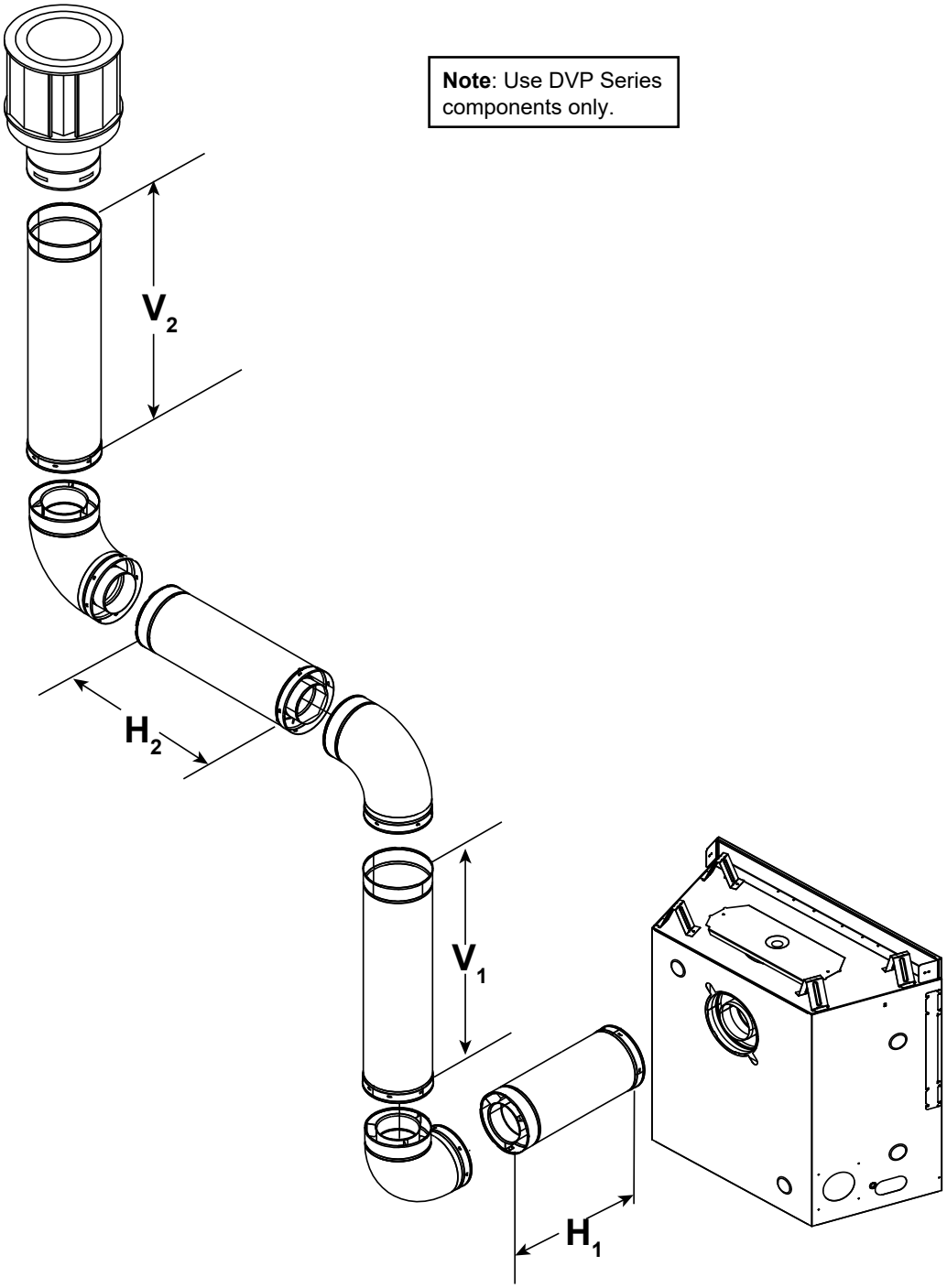


Figure 4.25

Coaxial to Colinear Venting

The coaxial to colinear adapter (DV-46DVA-GCL) is approved for installations into solid fuel masonry or factory built fireplaces that have been installed in accordance with the National, Provincial, State and local building codes. The DV-46DVA-GCL must be recessed into existing masonry fireplace. See Table 1 and Figure 4.26.

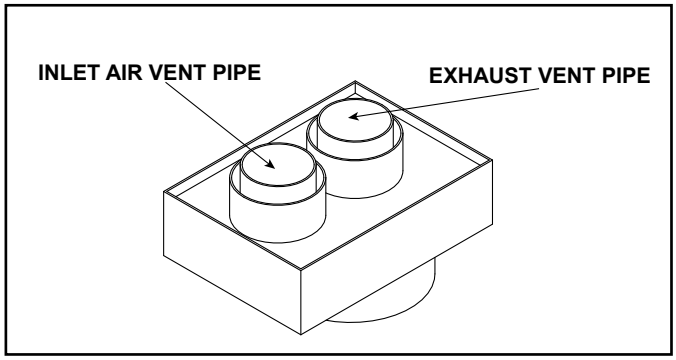


Figure 4.26 Coaxial/Colinear Appliance Connector

WARNING! Risk of Fire! *Coaxial to colinear venting configuration may only be used in existing non-combustible chimney. Installation in any other venting application could cause fire.*

Prior to installing the gas appliance:

- Have the chimney and adjacent structure inspected and cleaned by qualified professionals. Hearth & Home Technologies recommends that NFI or CSIA certified professionals, or technicians under the direction of certified professionals, conduct a minimum of a NFPA 211 Level 2 inspection of the chimney.
- Replace component parts of the chimney and fireplace as specified by the professionals.
- Ensure all joints are properly engaged and the chimney is properly secured.

Table 1

CLEARANCE TO COMBUSTIBLES REQUIREMENTS	
DV-46DVA-GCL	3 IN.
Exhaust Vent Pipe	5 IN.

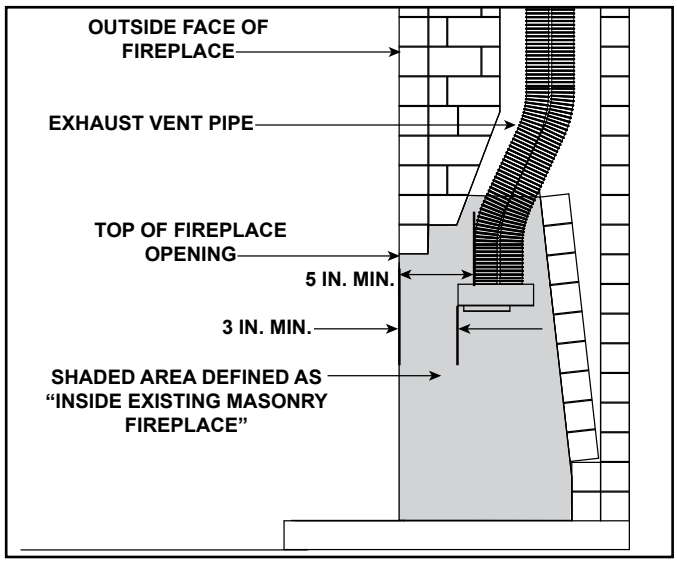


Figure 4.27 Existing Fireplace DV-46DVA-GCL Clearance Requirements

Clearances to Combustibles:

Refer to Section 3 for clearances to the appliance, mantel, mantel legs and wall projection.

Refer to Section 5 for pipe clearances to combustibles.

Termination Cap

For installation of termination cap see minimum vent heights for various pitched roofs. See Section 4.A.

Flue Damper

Fully lock the solid fuel fireplace's flue damper in the open position, OR completely remove it.

Venting Components

The LINK-DV30B is approved for use with the coaxial/colinear venting application. The LINK-DV30B kit includes:

- Two 30 foot sections of flexible vent pipe (3 inches Ø). One section is used to draw combustion air and the other section is used to expel exhaust gases.
- One vertical termination cap.

CAUTION! DO NOT use any flue restrictor when venting with the DV-46DVA-GCL adapter and LINK-DV30B kit. *This could result in poor flame appearance, sooting, pilot malfunction, or overheating.*

Connecting the DV-46DVA-GCL Adapter to Appliance

Top Vent

- Remove top seal cap and insulation if equipped. See Section 6 Appliance Preparation.

  SLP Collar: Install the DV-46DVA-GCL adapter to the appliance starting collar with 3-1/2 in. self-tapping screws. See Figure 4.28.

Rear Vent

- Remove the rear seal cap and insulation if equipped. Connect the DVP-2SL adapter to the vertically positioned elbow. Follow installation instructions included with DVP-2SL kit. Secure DV-46DVA-GCL adapter to DVP-2SL with 3-1/2 in. self-tapping screws. See Figure 4.27.

Connecting the LINK-DV30B to the DV-46DVA-GCL adapter

- Insert the two sections of flexible vent pipe down the existing chimney.
- Attach one section of flexible vent pipe to the exhaust collar on top of the DV-46DVA-GCL adapter with three self-tapping screws.
- Attach one section of flexible vent pipe to the inlet collar on top of the DV-46DVA-GCL adapter with three self-tapping screws.
- To minimize cold air drafts, seal around the flex vents at the damper inside the chimney with non-combustible unfaced fiberglass or rock wool insulation.

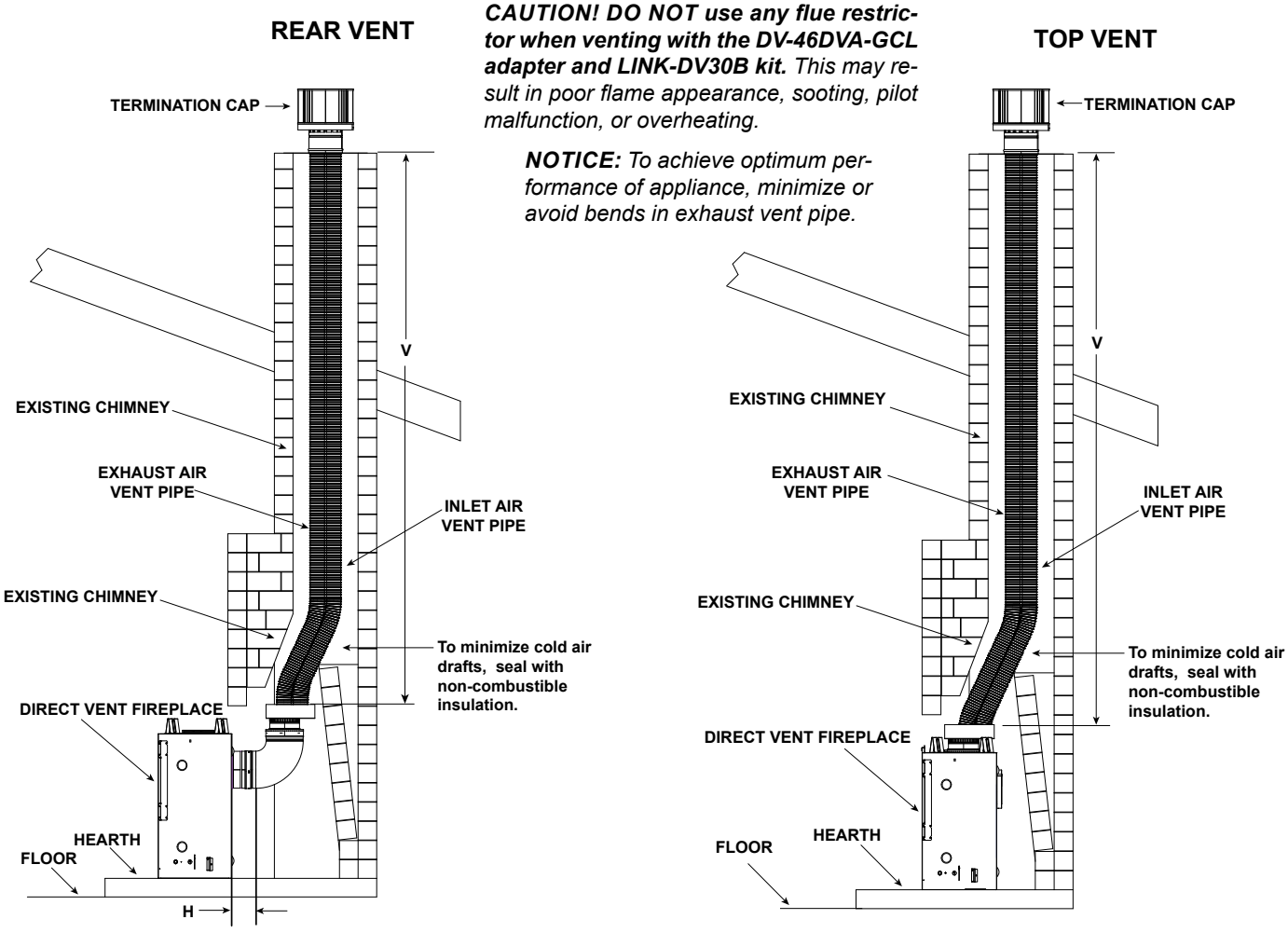
The DV-46DVA-GCL adapter must be recessed into existing masonry fireplace. This measurement is taken from the top of the fireplace opening. See Table 1 and Figure 4.27.

WARNING! Risk of Fire, Explosion or Asphyxiation! *Do NOT connect this gas appliance to a chimney flue serving a separate solid fuel or gas burning appliance.*

- *Could impair safe operation of this appliance or other appliances connected to the flue.*
- *Vent this appliance directly outside.*
- *Use separate vent system for this appliance.*

CAUTION! DO NOT use any flue restrictor when venting with the DV-46DVA-GCL adapter and LINK-DV30B kit. *This may result in poor flame appearance, sooting, pilot malfunction, or overheating.*

NOTICE: *To achieve optimum performance of appliance, minimize or avoid bends in exhaust vent pipe.*



	V		H	
Minimum	10 ft.	3.05 m	0 ft.	0 mm
Maximum	40 ft.	12.2 m	2 ft.	610 mm

V		
Minimum	10 ft.	3.05 m
Maximum	40 ft.	12.2 m

Figure 4.28

5 Vent Clearances and Framing

A. Pipe Clearances to Combustibles

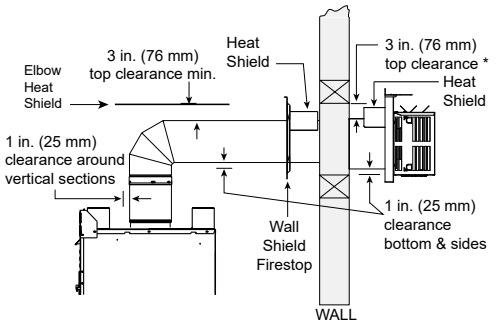
WARNING! Risk of Fire! *Maintain air space clearance to vent.* ***DO NOT*** *pack insulation or other combustibles:*

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

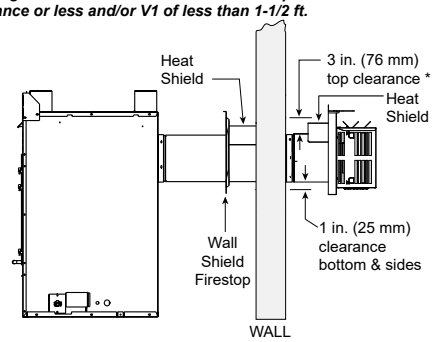
Failure to keep insulation or other material away from vent pipe could cause overheating and fire.

Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm).
- **DVP heat shield** - designed to be used on a wall 4 in. to 7-1/4 in. (102 mm to 184 mm) thick.
- If wall thickness is less than 4 in. the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. a DVP-HSM-B will be required.
- **SLP heat shield** - designed to be used on a wall 4-3/8 in. to 7-5/8 in. (111 mm to 194 mm thick).
- If wall thickness is less than 4-3/8 the existing heat shields must be field trimmed. If wall thickness is greater than 7-5/8 in. a DVP-HSM-B will be required.

(DVP-SLP Pipe Shown)



Warning! Risk of Fire: Elbow heat shield required with 3-6 inch top clearance or less and/or V1 of less than 1-1/2 ft.



* When using SLP pipe, minimum clearances from the vent pipe to combustible materials at inside wall firestops are: Top: 2-1/2 in. (64 mm); Bottom: 1/2 in. (13 mm); Sides: 1 in. (25 mm)

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 six inches or less. See Figure 5.2.

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

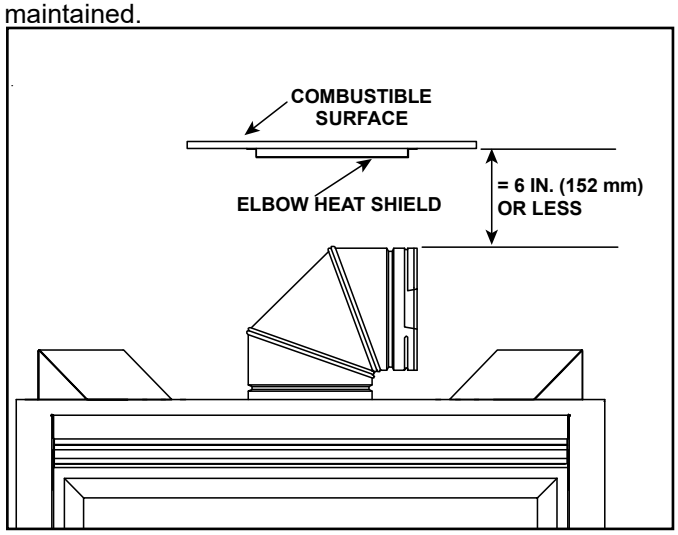


Figure 5.2 Conditions Requiring Elbow Heat Shield Installation

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 13 1/8 inch 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 5.3.

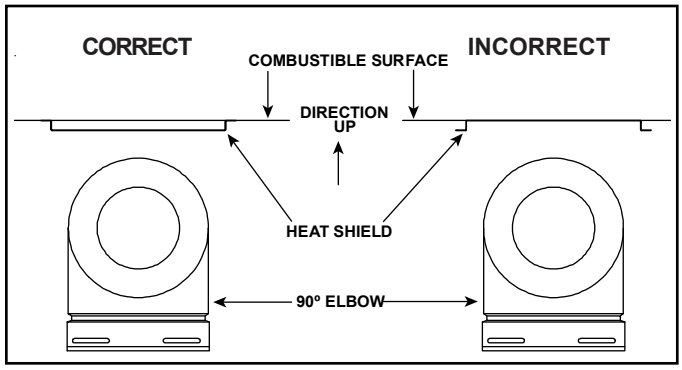


Figure 5.3

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.

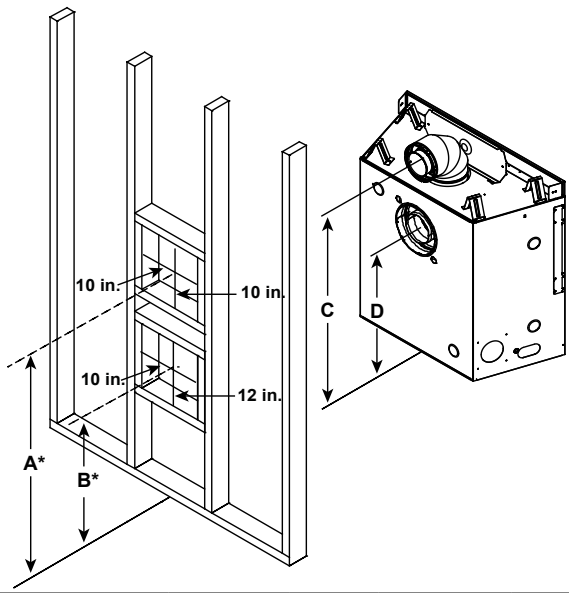
- The opening must be framed on all four sides using the same size framing materials as those used in the wall construction.
- SLP pipe - A wall shield firestop must be placed on each side of an interior wall. A minimum 1-1/2 in. (38 mm) overlap of attached heat shields must be maintained.
- DVP pipe - 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.

WARNING! Risk of Fire! *Elbow heat shield required when the clearance to combustible material above the first vent elbow is six inches or less. Clearances to combustibles must be maintained. See Section 5.A.*



		A*	B*	C	D
DV3732-B DV3732L-B	in.	37-7/16	24-3/8	36-7/16	23-3/8
	mm	951	619	926	594
DV4236-B	in.	41	27-7/8	40	26-7/8
	mm	1041	708	1016	683

* Shows center of vent framing hole for top or rear venting. The center of the hole is one (1) in. (25.4 mm) above the center of the horizontal vent pipe.

Figure 5.4 Wall Penetration

C. Ceiling Firestop/Floor Penetration Framing

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 with three fasteners on each side.

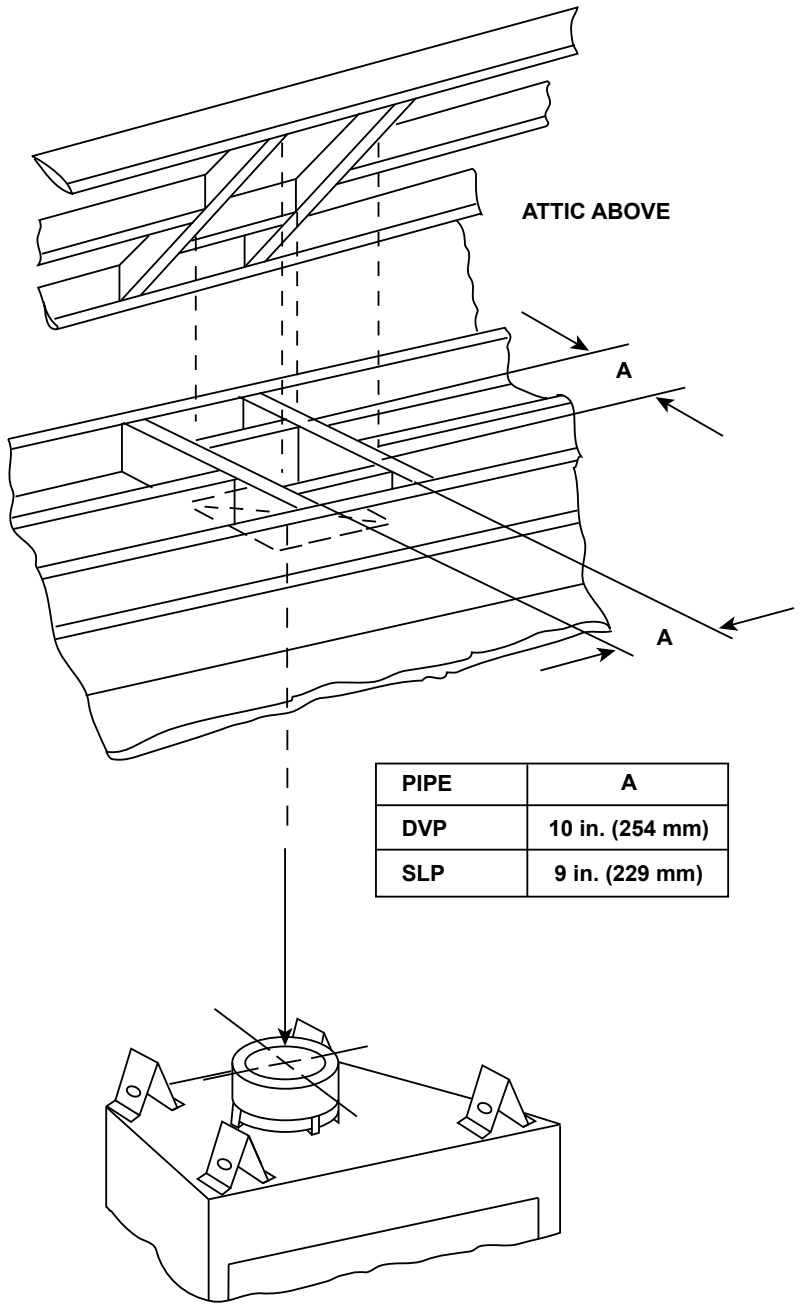
WARNING! Risk of Fire! DO NOT pack insulation around the vent. Insulation must be kept back from the pipe to prevent overheating.

D. Install Attic Insulation Shield

***WARNING! Fire Risk. DO NOT** allow loose materials or insulation to touch vent. Hearth & Home Technologies requires the use of an attic shield.*

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.



PIPE	A
DVP	10 in. (254 mm)
SLP	9 in. (229 mm)

Figure 5.5 Installing Ceiling Firestop

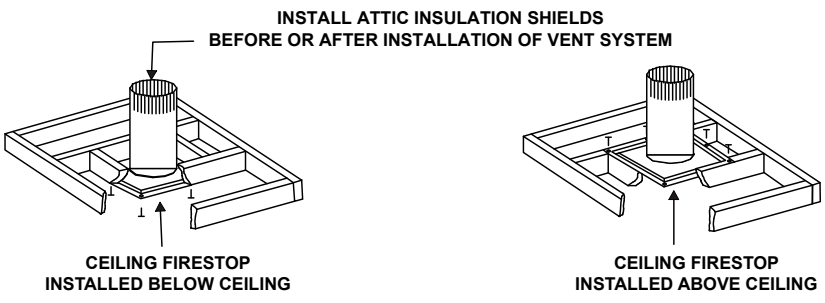


Figure 5.6 Installing the Attic Shield

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

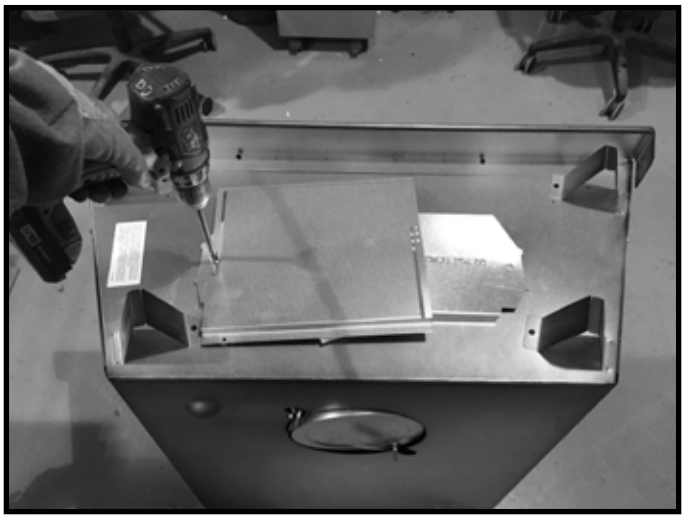


Figure 6.1 For top vent, remove the screw holding the elbow heat shield in place.



Figure 6.2 For top vent, remove the two screws holding the top heat shield in place.

WARNING! Risk of Fire! *Do not remove heat shield. Elevated header temperatures may cause a fire.*



Figure 6.3 Rotate the top heat shield to the vertical position as shown above. The heat shield must remain in the vertical position.

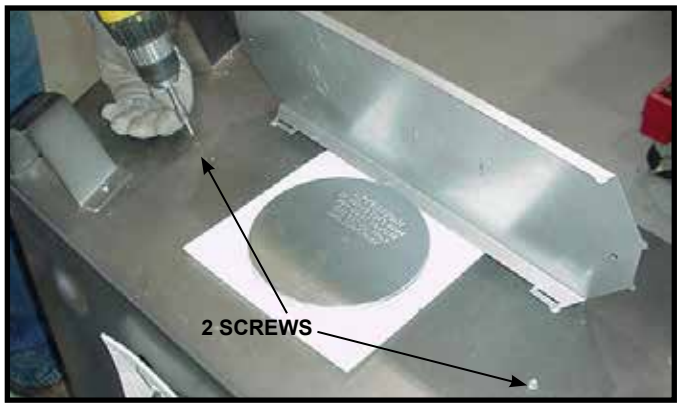


Figure 6.4 Replace the two screws as shown.

Note: Actual unit may look different than the fireplace shown in this section.



Figure 6.5 Remove the seal cap.

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



Figure 6.6 Remove the insulation basket and white insulation from the center vent pipe.



Figure 6.7 Remove the insulation from the outer vent pipe.



Figure 6.8 To attach the first section of vent pipe, make sure to use the fiberglass gasket to seal between the first vent component and the outer fireplace wrap. Use 2 self tapping screws to secure the gasket to the outer wrap.

Note: Once the seal cap has been removed, it cannot be reattached.

Rear Vent

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

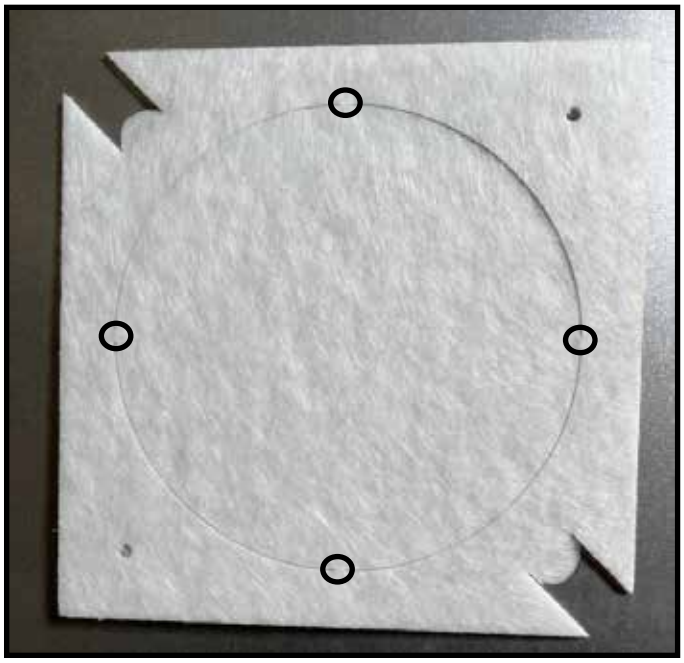


Figure 6.9 Remove the insulation gasket.

Remove the center of the gasket by manually detaching at the 4 points shown in Figure 6.9. Discard the center of the gasket.



Figure 6.10 Cut the metal retaining band.

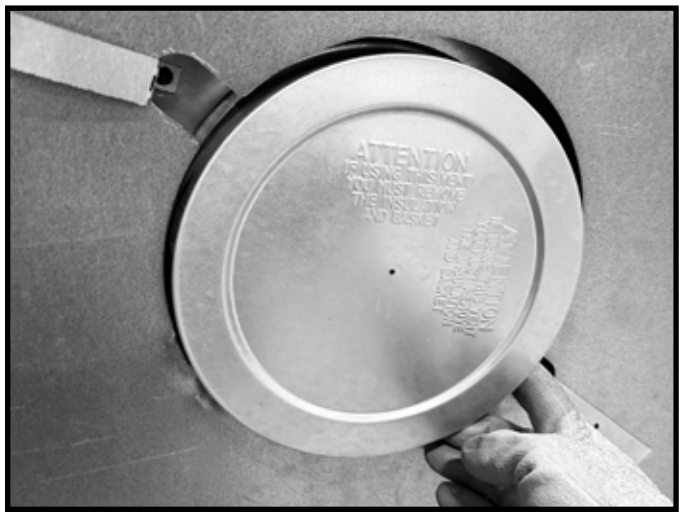


Figure 6.11 Fold the straps away from cap. Remove seal cap utilizing cutouts.

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

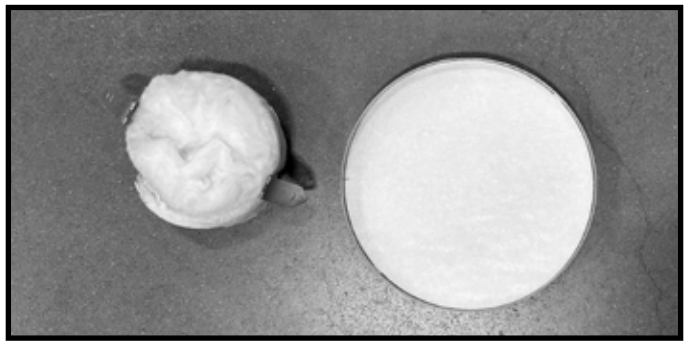


Figure 6.12 Discard the seal cap. Remove and discard the insulation basket.

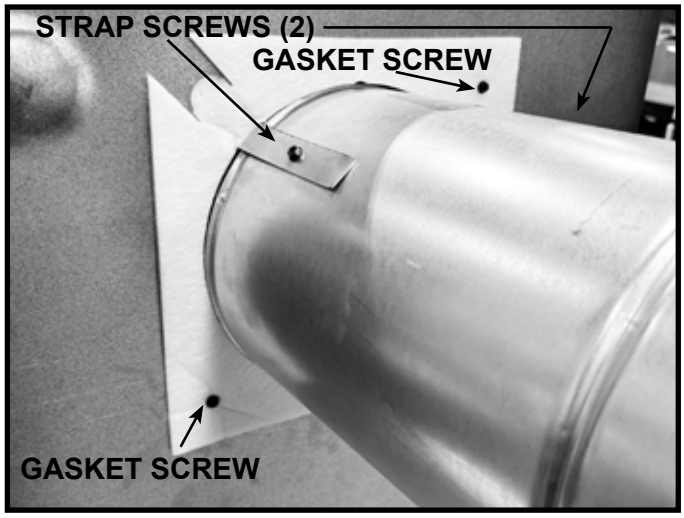


Figure 6.13 Attach the first vent section (it will snap into place). Slide the insulation gasket onto the vent section, up against the appliance. Use two self-tapping screws to secure the corners opposite the gasket tabs. Secure the first section of venting to the fireplace by screwing through the two strap ends left over from cutting the seal cap strap.

B. 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*

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

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

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

The diagram shows how to properly position, level, and secure the appliance. See Figure 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.
- 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.
- Optional: Secure the appliance to the floor by inserting two screws through the pilot holes at the bottom of the appliance.

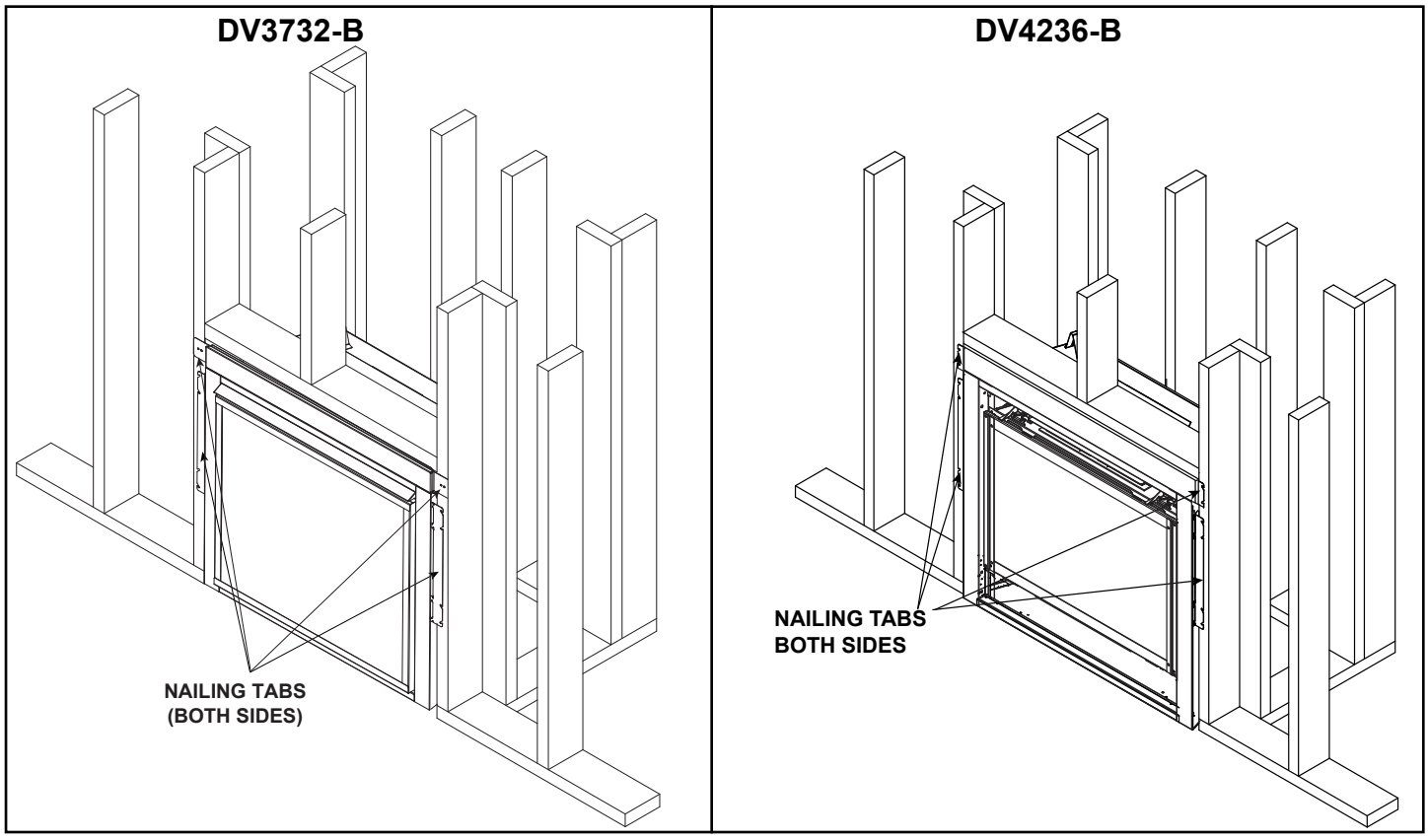


Figure 6.14 Proper Positioning, Leveling And Securing Of An Appliance

7 Venting and Chimneys

A. Assemble Vent Sections

(DVP Pipe Only)

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

All outer pipe joints must be sealed with 100% silicone (300º F minimum continuous exposure rating), including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant (300º 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 (300º F minimum continuous exposure rating) to the outside of connecting joint after joining sections **OR**

  Apply aluminum foil tape (300º 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.*

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 90º and 45º 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.

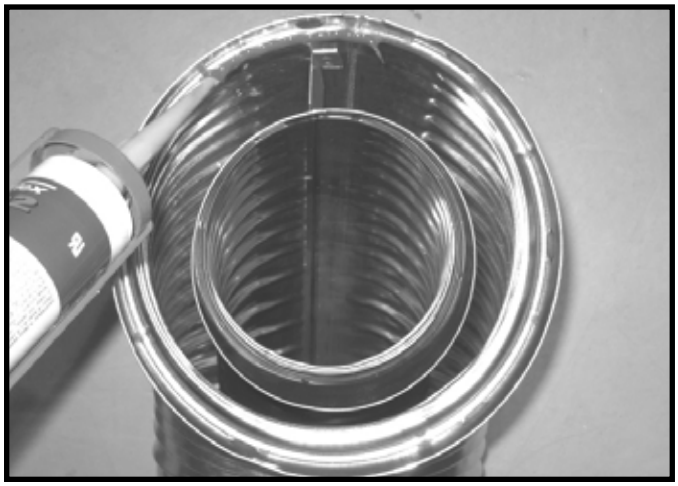


Figure 7.1 High Temperature Silicone Sealant

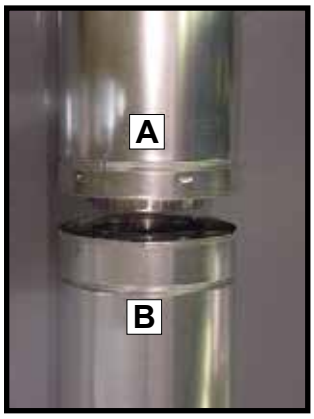
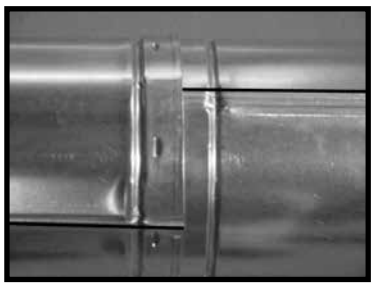


Figure 7.2

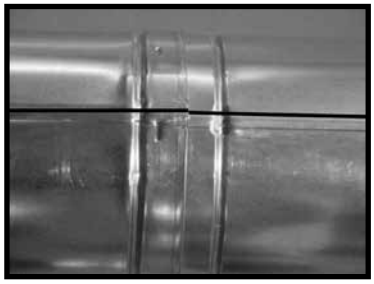


Figure 7.3

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



CORRECT



INCORRECT

Figure 7.4 Seams

Assemble Vent Sections

(SLP Only)

To attach the first vent component to the starting collars 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 ºF 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

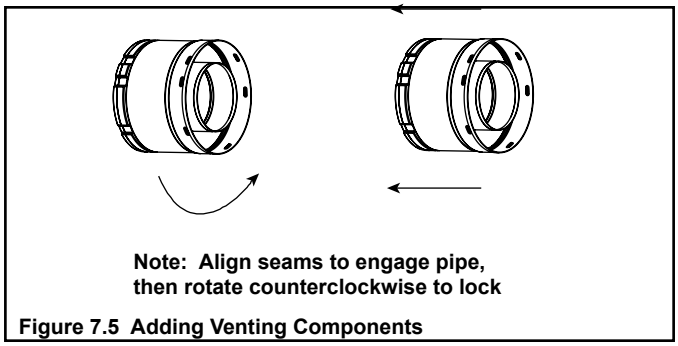
All outer pipe joints must be sealed with high temperature silicone (300º F minimum continuous exposure rating), including the slip section that connects directly to the horizontal termination cap.

- Apply a bead of silicone sealant (300º 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 (300º F minimum continuous exposure rating) to the outside of connecting joint after joining sections **OR**

  Apply aluminum foil tape (300º 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.*



Note: Align seams to engage pipe, then rotate counterclockwise to lock

Figure 7.5 Adding Venting Components

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.

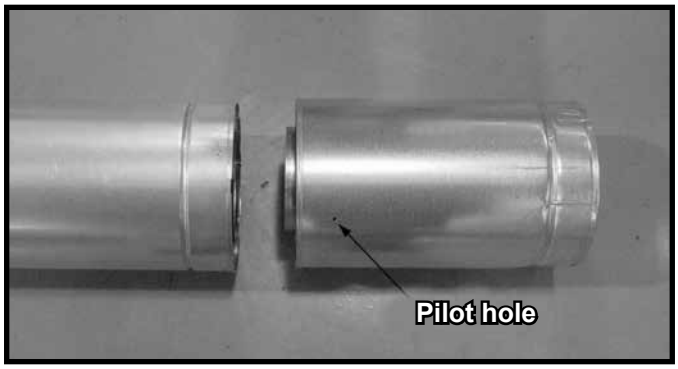


Figure 7.6 Slip Section Pilot Holes

- 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.

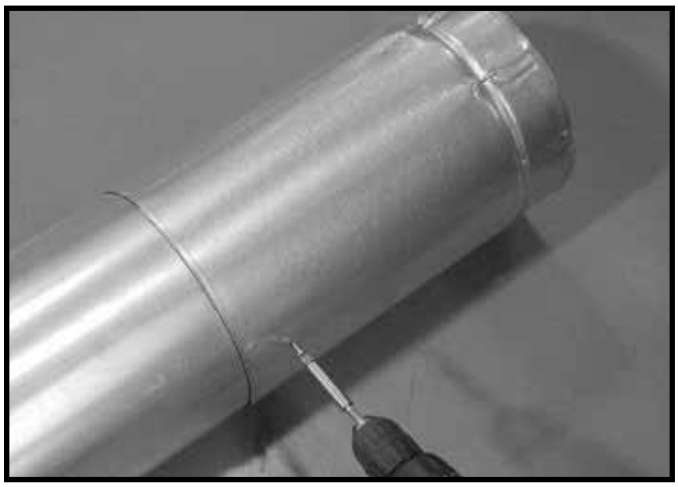


Figure 7.7 Screws into Slip Section

- 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.*

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

- *Apply a bead of silicone sealant (300º 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.*

C. Secure the Vent Sections

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

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.*

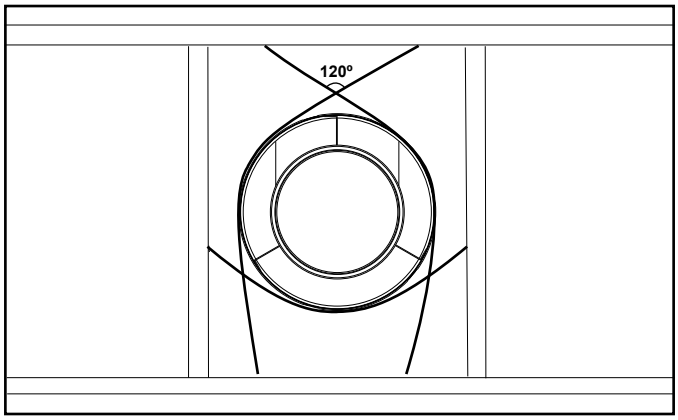


Figure 7.8 Securing Vertical Pipe Sections

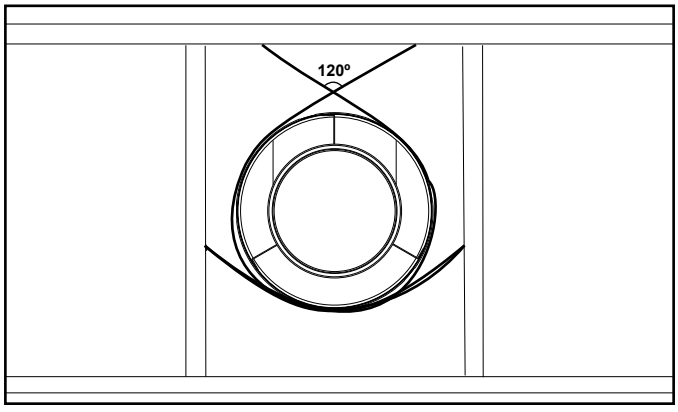


Figure 7.9 Securing Horizontal Pipe Sections

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.

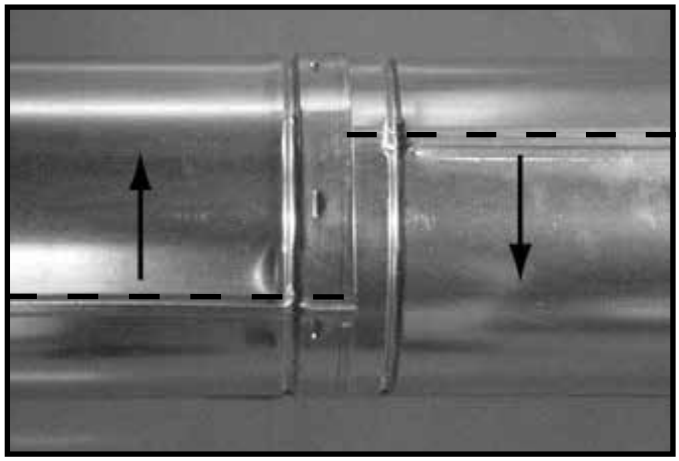


Figure 7.10 Rotate Seams for Disassembly

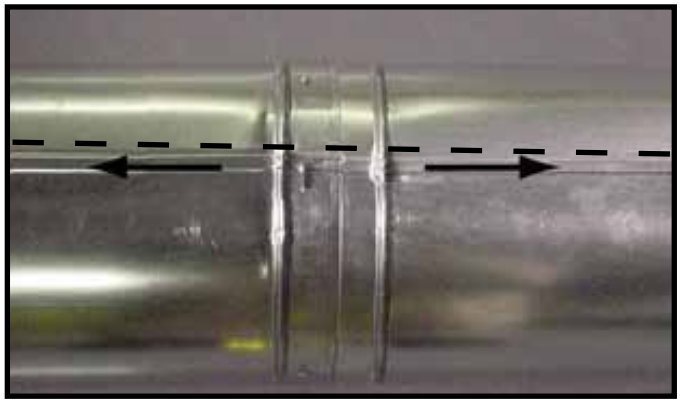


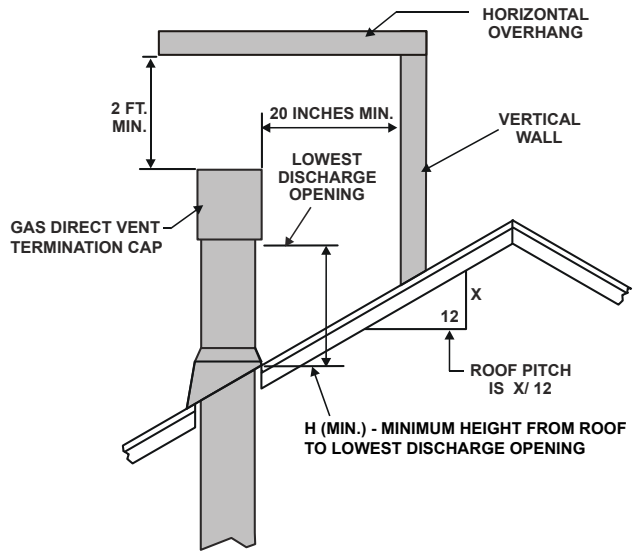
Figure 7.11 Align and Disassemble Vent Sections

E. Vertical Termination Requirements

Install Metal Roof Flashing

- See minimum vent heights for various pitched roofs (Figure 7.12) 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 7.13.

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.



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 7.12 Minimum Height From Roof To Lowest Discharge Opening

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

- Caulk the gap between the roof flashing and the outside diameter of the pipe.
- Caulk the perimeter of the flashing where it contacts the roof surface. See Figure 7.13.
- Caulk the overlap seam of any exposed pipe sections that are located above the roof line.

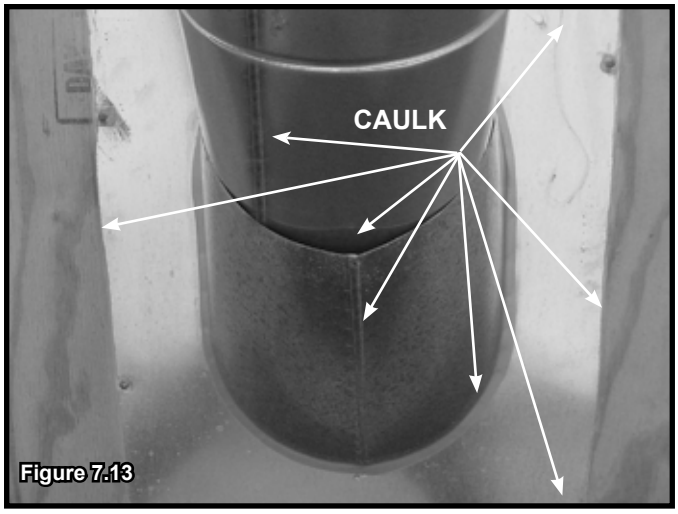


Figure 7.13

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 7.14 Insert Bolt into Brackets

- Slide the assembled storm collar down the pipe section until it rests on the roof flashing (see Figure 7.14).
- Tighten nut and make sure the collar is tight against the pipe section.
- Caulk around the top of the storm collar. See Figure 7.15.

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 7.15).



Figure 7.15

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 7.16).*
- *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 7.16.

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 diagrams in the back of this manual.
- 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 <u>not</u> 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.

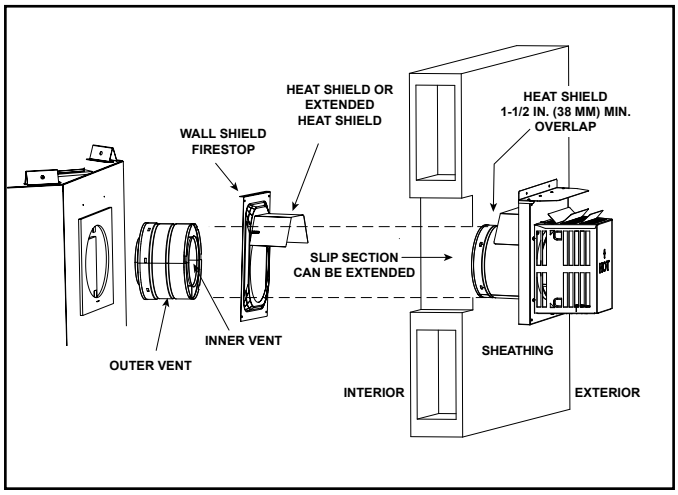


Figure 7.16 Venting through the Wall

8 Electrical Information

A. General Information

WARNING! Risk of Shock or Explosion! DO NOT *wire 110-120 VAC to the valve 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 junction box 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.

Junction Box Installation

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).
- 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.

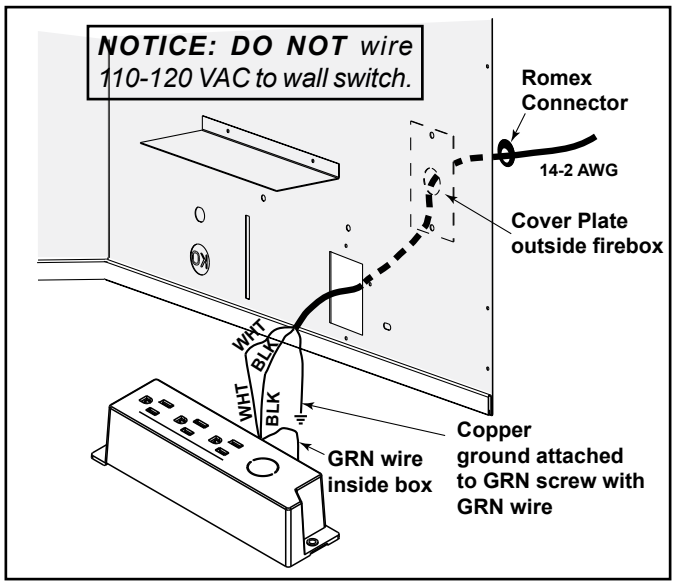


Figure 8.1 Junction Box Detail

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 105º C rated wire. Wire must have high temperature insulation.*

B. Wiring Requirements

Intellifire® 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 8.2, Intellifire Pilot Ignition (IPI) Wiring Diagram.
- This appliance is equipped with an Intellifire control valve which operates on a 3 volt system.
- Plug the 3-volt AC transformer into the appliance junction box to supply power to the unit OR install two D cell batteries (not included) into the battery pack before use.

NOTICE: *Batteries should not be placed in the battery pack while using the transformer. Remove batteries before using the transformer, and unplug the transformer before installing the batteries. Battery polarity must be correct or module damage will occur.*

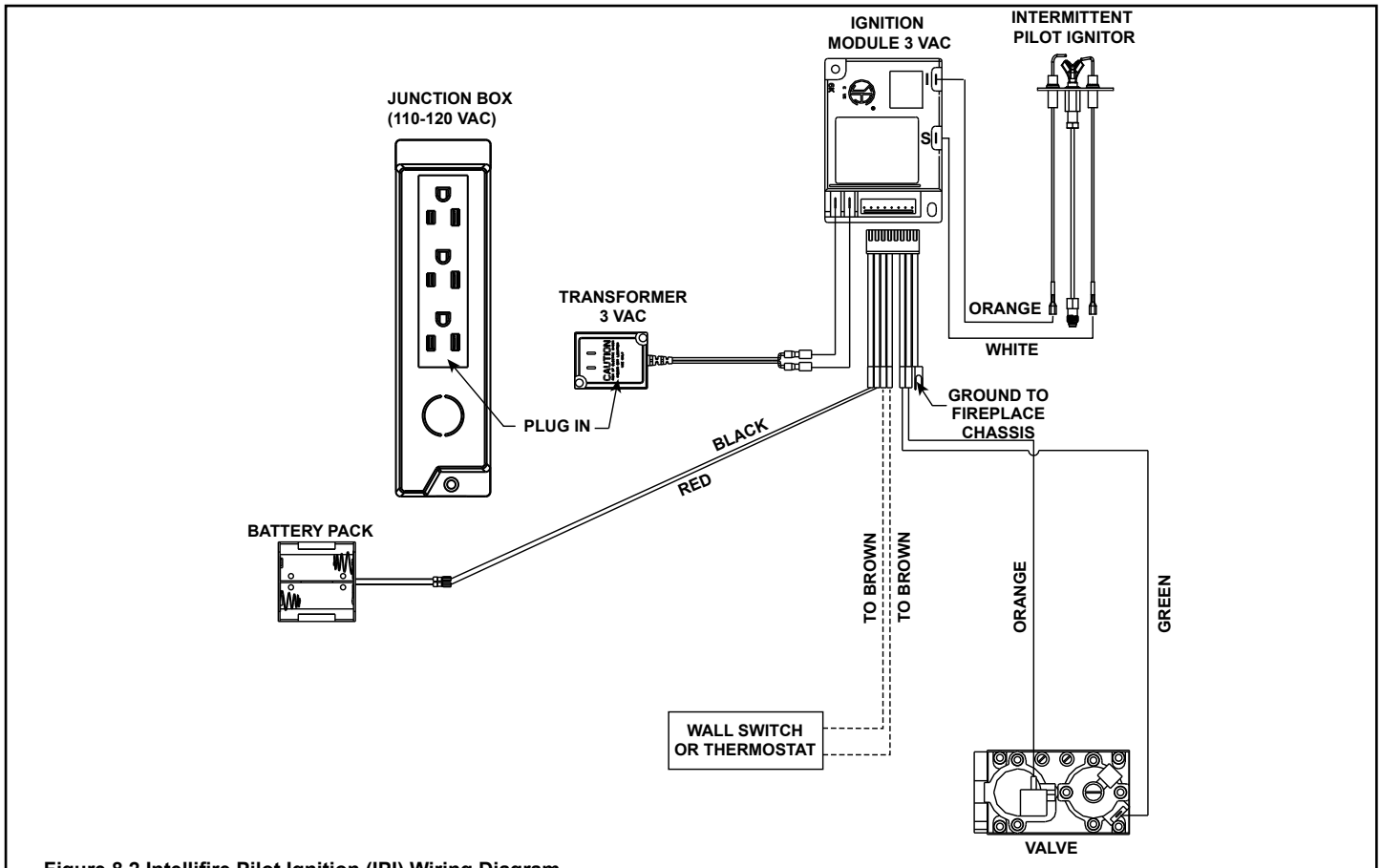


Figure 8.2 Intellifire Pilot Ignition (IPI) Wiring Diagram

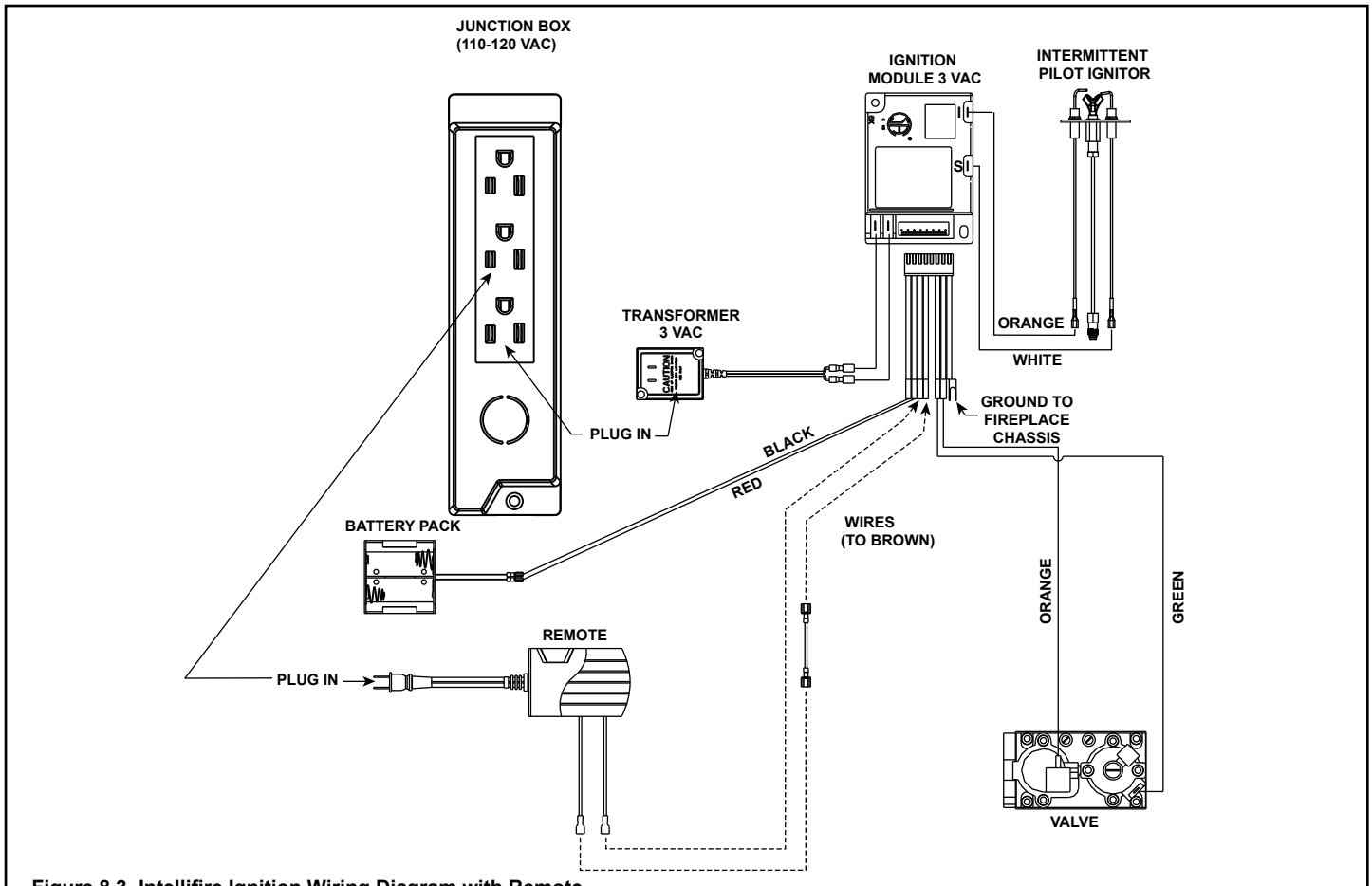


Figure 8.3 Intellifire Ignition Wiring Diagram with Remote

9 Gas Information

⚠ WARNING



Risk of Fire! Risk of Explosion! Risk of Asphyxiation!

Follow all instructions and warnings for installing and servicing gas line.



- Gas line installation and service must be performed by a qualified installer or licensed plumber in accordance with all applicable codes for the installation location (NFPA 54 / ANSI Z223.1, the current International Fuel Gas Code, or CAN/CSA B149 in Canada) (In the Commonwealth of Massachusetts installation must be performed by a licensed plumber or gas fitter).
- Check all fittings and connections by means of a listed combustible gas detector, a noncorrosive leak detection fluid, or other approved leak detection method. ***DO NOT*** use open flame.

⚠ WARNING



Risk of Fire! Risk of Explosion!

Pressure exceeding 1/2 PSIG (14 in. w.c. / 3.5 kPa) will damage gas valve control.



- Disconnect appliance and its manual shutoff valve BEFORE line pressure testing.
- Cap outlet on piping system at appliance connection BEFORE line pressure testing.
- Connect appliance AFTER confirming piping system pressure is equal or less than 1/2 PSIG (14 in. w.c./ 3.5 kPa).

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

- Install pressure regulator upstream of gas valve if line inlet pressure exceeds 1/2 PSIG.
- Recommended inlet pressure for optimal appliance performance: 7.0 in. w.c. (NG) 12.0 in. w.c. (Propane)
- 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.

- Verify inlet pressure is within specified range, including when other household gas appliances are operating.

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 and Gas Line Purging

⚠ WARNING



Risk of Fire! Risk of Explosion!

Gas buildup during line connection and purging could ignite.



- Support gas control when attaching pipe to prevent bending gas line.
- Gas line installation and purging of the gas fuel line MUST be performed by a qualified service technician or a licensed plumber in accordance with the applicable gas code for the installation location (NFPA 54 / ANSI Z223.1, the current International Fuel Gas Code, or CAN/CSA B149 in Canada).
- Use a listed combustible gas detector, a noncorrosive leak detection fluid, or other approved leak detection method to check all fittings and connections for gas leaks before lighting the appliance.
- Ensure ventilation.
- Eliminate ignition sources, such as sparks or open flames.

- Refer to Section 3 for location of gas line access in appliance.
- Pipe incoming gas line into valve compartment.
- The gap between supply piping and gas access hole may be sealed with caulk or aluminum foil tape with a minimum of 300 ºF 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.
- Connect incoming gas line to the 1/2 in. (13 mm) NPT connection on manual shutoff valve.
- A small amount of air will be in the gas supply line and must be purged. Light the appliance to allow air to purge through the pilot assembly.

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

Air shutter settings should be adjusted by a qualified installer at the time of installation. The air shutter is set at the factory for minimum vertical vent run. Adjust air shutter for longer vertical runs.

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

Air Shutter Settings

Models	NG	Propane
DV3732-B	3/16 in.	1/2 in.
DV4236-B	1/4 in.	Full Open

10 Finishing

A. Facing Material

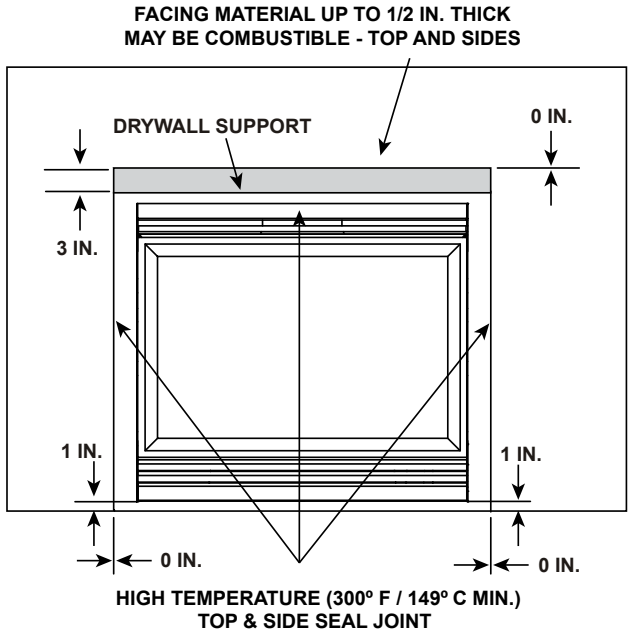
- Metal front faces may be covered with non-combustible materials only.
- Facing and/or finishing materials must not interfere with air flow through louvers, operation of louvers or doors, or access for service.
- Facing and/or finishing materials must never overhang into the glass opening.
- Observe all clearances when applying combustible materials.
- Seal joints between the finished wall and appliance top using a 300 ºF minimum sealant. Refer to Figure 10.1.

***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. Overlapping materials could ignite and will interfere with proper operation of doors and louvers.*

***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 190ºF.*

For installations with vinyl flooring, see Section 3.D.

When using combustible flooring materials, such as carpeting and padding, the combustible flooring material must not extend higher than one inch from the base of the appliance when the appliance is mounted at floor level.



Note: Generic Decorative Front shown.

Figure 10.1 Non-combustible Facing Diagram - DV3732-B, DV4236-B

B. Mantel and Wall Projections

***WARNING! Risk of Fire!** Comply with all minimum clearances as specified. Framing closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).*

Note: Measurement is taken from top of the opening, NOT the top of the fireplace.

Combustible Mantels

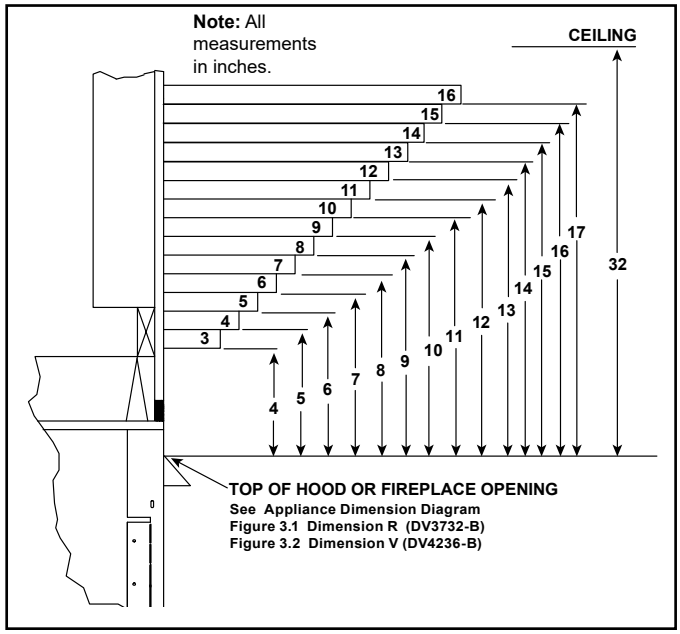


Figure 10.2 Minimum Vertical and Maximum Horizontal Dimensions of Combustibles

Non-Combustible Mantels

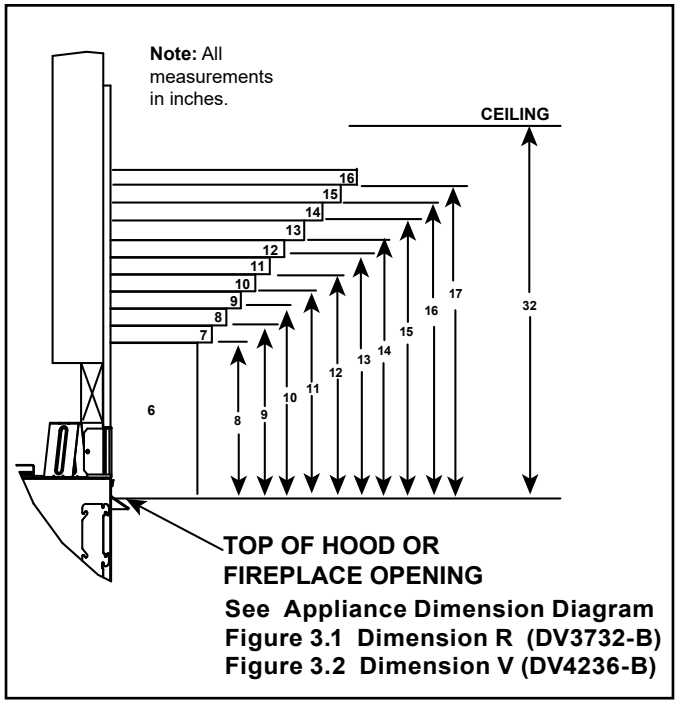


Figure 10.3 Minimum Vertical and Maximum Horizontal Dimensions of Non-Combustibles

Combustible Mantel Legs or Wall Projections

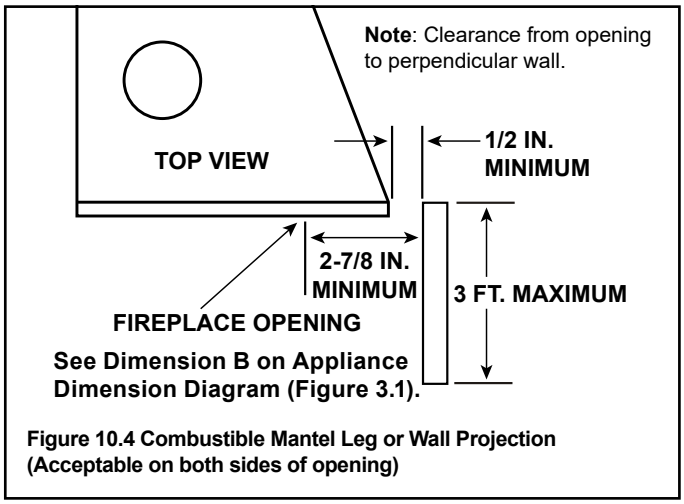


Figure 10.4 Combustible Mantel Leg or Wall Projection (Acceptable on both sides of opening)

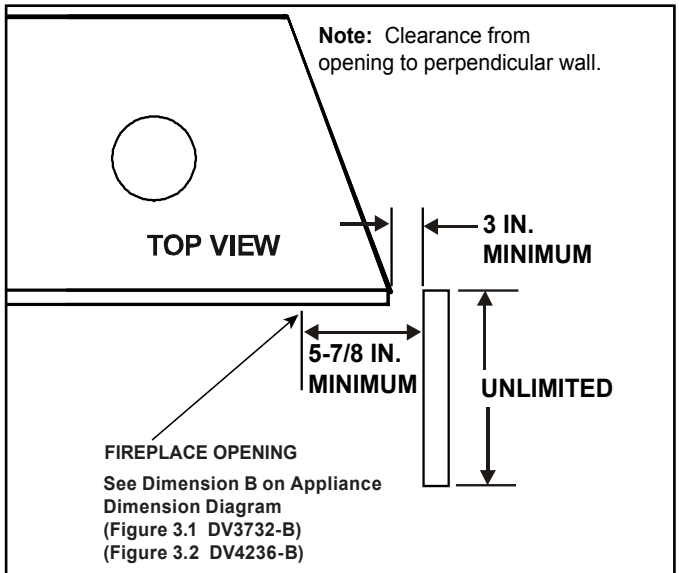


Figure 10.5 Combustible Mantel Leg or Wall Projections (Acceptable on one side of opening)

Non-Combustible Mantel Legs or Wall Projections

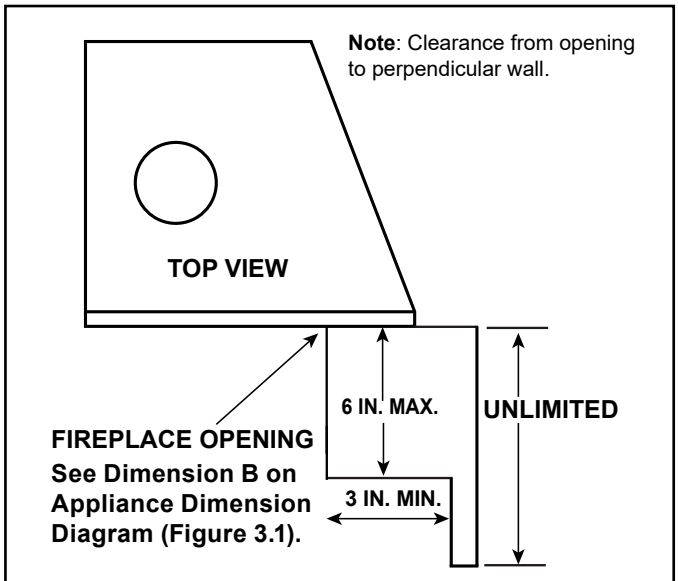


Figure 10.6 Non-Combustible Mantel Leg or Wall Projections (Acceptable on both sides of opening)

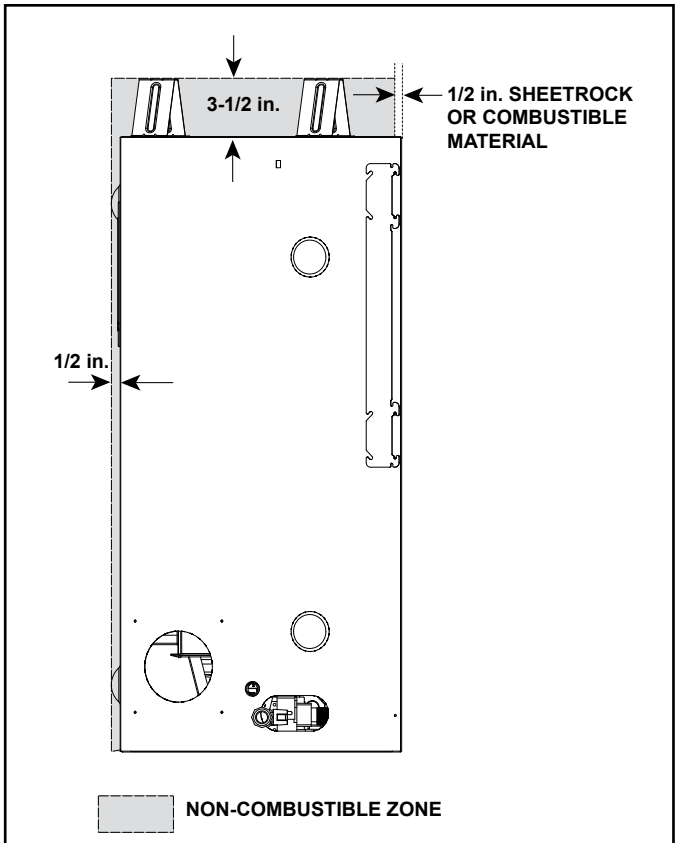
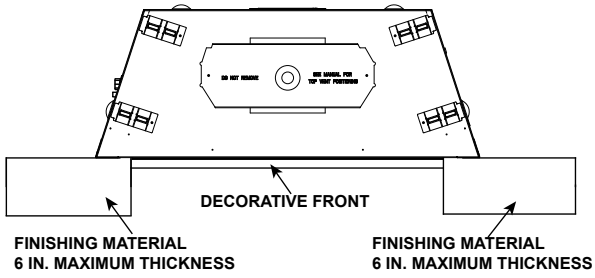


Figure 10.7 Non-Combustible Zone

C. Decorative Front Dimensions for Finishing



Stop finishing material flush with fireplace surround opening.

Figure 10.8 Inside Fit

11 Appliance Setup

A. Fixed Glass Assembly

Removing Fixed Glass Assembly

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 out of the groove on the glass frame. Remove glass door from the appliance. See Figure 11.1.

Replacing Fixed Glass Assembly

- Replace the glass door on the appliance. Pull out and latch the four glass assembly latches into the groove on the glass frame.

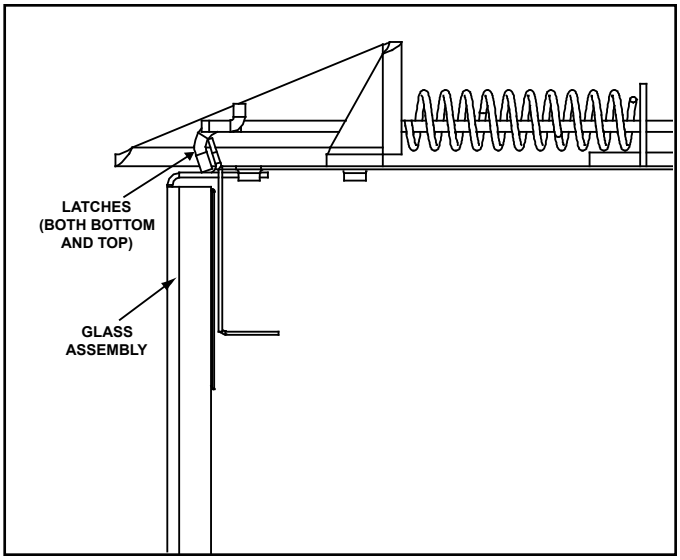


Figure 11.1 Fixed Glass Assembly

B. Remove the Shipping Materials

Remove shipping materials from inside or underneath the firebox.

- 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 may be factory installed or accompany the door of the unit, depending on the fireplace model. Splatter guards must be removed before appliance is fired.

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.*

C. Clean the Appliance

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

Log Set Assembly: LOGS-3732, LOGS-DV4236
Models: DV3732, DV3732L, MDV3732, DV4236, DV3732-B, DV3732L-B, DV4236-B, MDV3732-B, MDV3732-C

CAUTION: *Logs are fragile, handle with care.*
See Figure 1 for log identification.

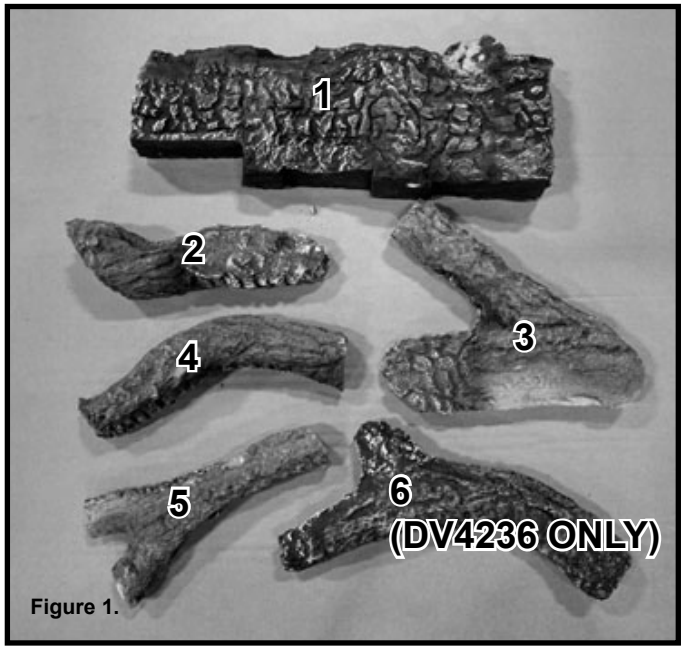


Figure 1.

NOTICE: *DO NOT bend handbend tabs in basepan. They must remain flat for proper log placement.*

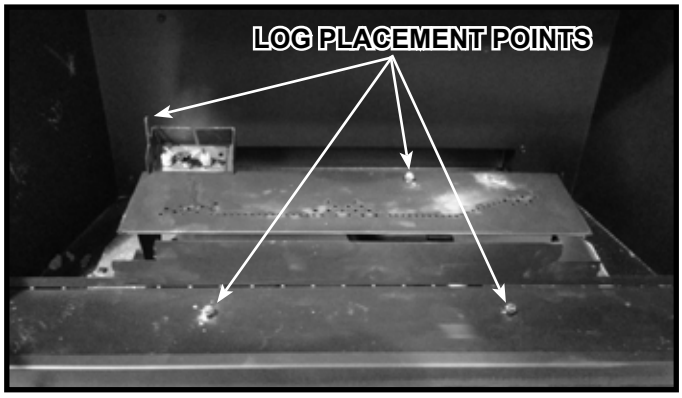


Figure 2.

Figure 2 shows the log placement points for LOGS-3732 and LOGS-DV4236. There are three shoulder screws and a tab on the pilot hood.

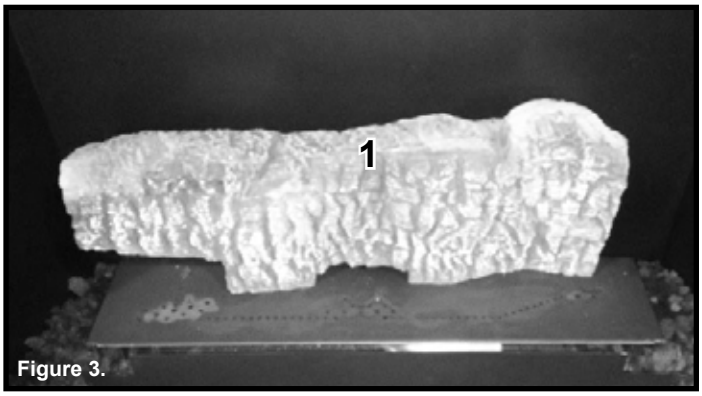


Figure 3.

Log #1 SRV2355-701 (LOGS 3732) and SRV2399-701 (LOGS-DV4236): Locate the bottom right hole on Log #1 with the shoulder screw on the burner top. Locate the bottom left hole on Log#1 with the tab on the pilot hood. See Figure 3.

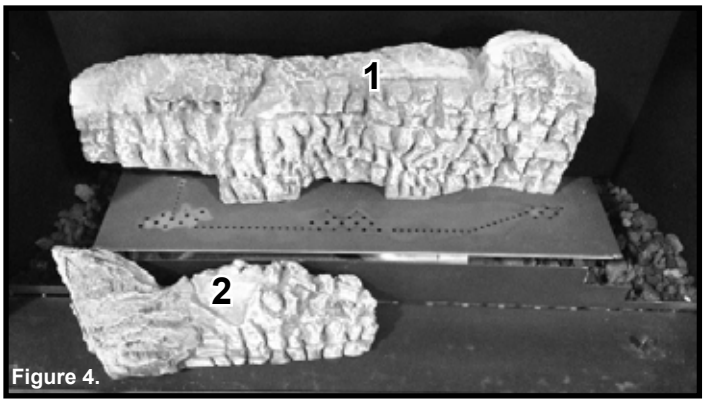


Figure 4.

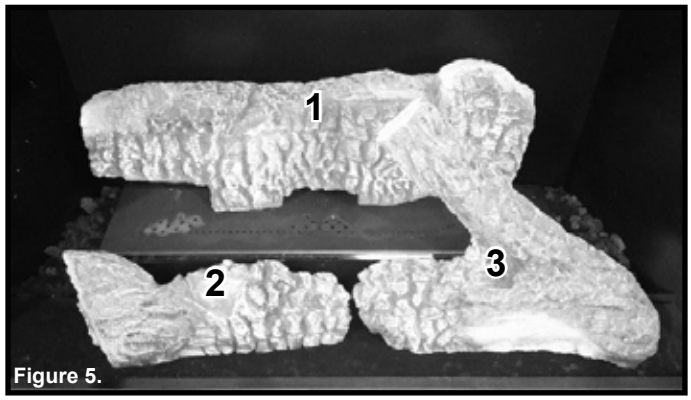


Figure 5.

Log #2 SRV2355-702(LOGS-3732 and LOGS-DV4236): Locate the bottom hole on Log #2 with the shoulder screw on the left front side of the base pan. See Figure 4.

Log #3 SRV2355-703 (LOGS-3732 and LOGS-DV4236): Locate the bottom hole on Log #3 with the shoulder screw on the right front side of the base pan. See Figure 5.

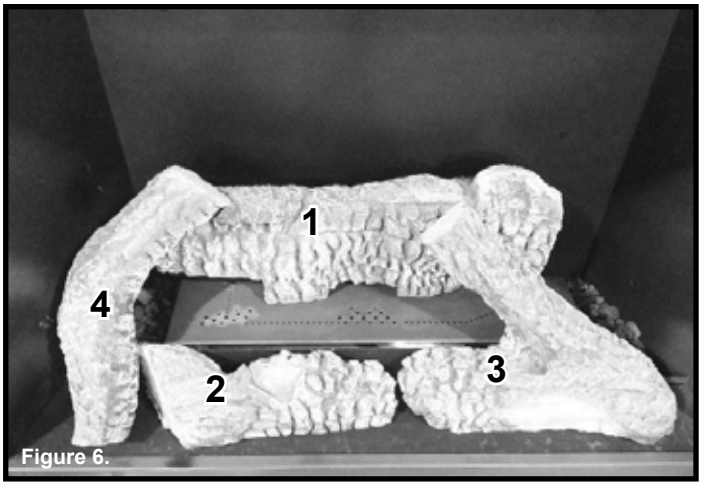


Figure 6.

Log #4 SRV2033-711 (LOGS-3732 and LOGS-DV4236):

LOGS-3732: Place the right end of Log #4 on the flat spot on the left side of Log #1 and the left end of Log #4 on the base pan. See Figure 6.

LOGS-DV4236: Place the bottom of Log #4 on the base pan, resting it on the return bend. Then place the top end of the log on the flat spot on the left side of Log #1.

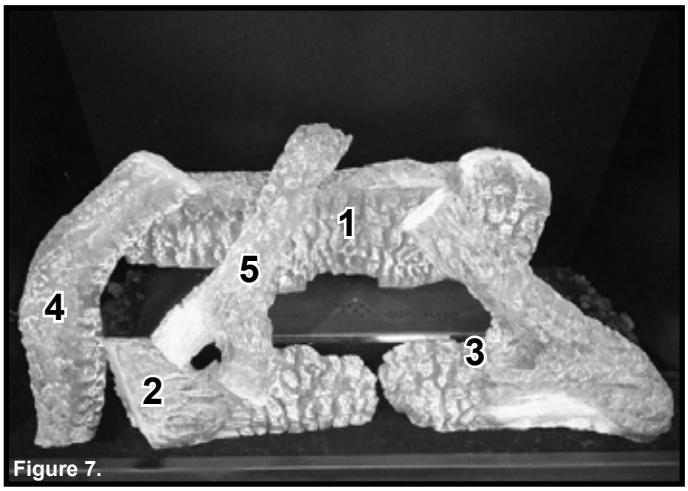


Figure 7.

Log #5 (SRV2033-710): Place Y section of Log #5 on the flat spot of Log #2 and the right end of Log #5 on the flat spot of Log #1. See Figure 7.

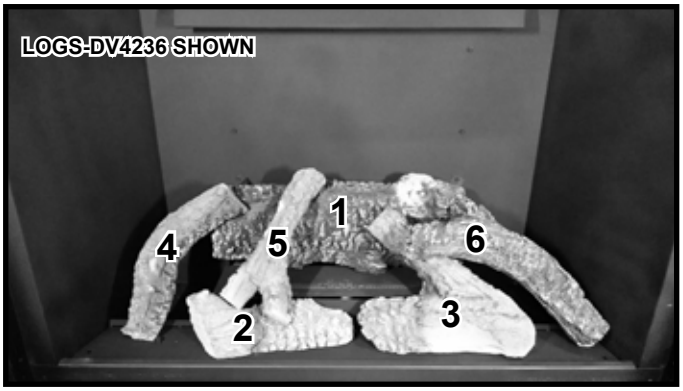


Figure 8. LOGS-DV4236 Installed

LOGS-DV4236 ONLY

Log #6 SRV2391-711 (LOGS-DV4236): Place the right end of Log #6 on the base pan and the left end onto Logs #1 and #3, so that one limb is touching each log as shown in Figure 8.

2355-910H

E. Ember and Lava Rock Placement

Placing the Ember Material

WARNING! Risk of Explosion! *Follow ember placement instructions in manual. DO NOT place embers directly over burner ports. 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 be placed in pilot bracket area. See Figure 11.2. Care should be taken not to cover the lighting trail of ports (from back to front).
- When placing Glowing Embers® onto the burner care should be taken so that the ports are not covered. Place the dime-size ember pieces near the port holes in the burner top (see Figure 11.2). Failure to follow this procedure will likely cause lighting and sooting problems..
- Save the remaining ember materials for use during appliance servicing. The embers provided should be enough for 3 to 5 applications.

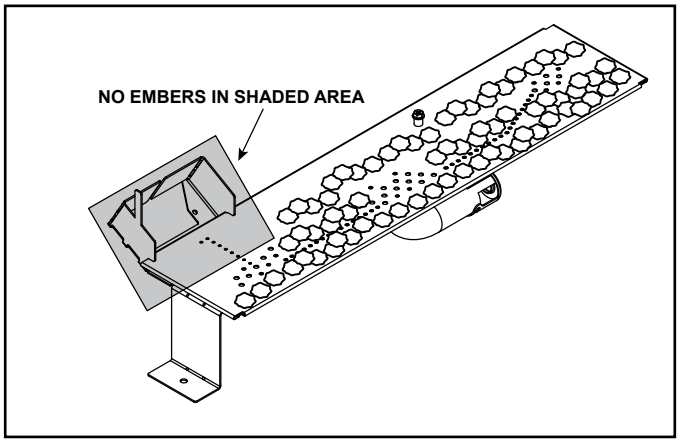


Figure 11.2 Placement of Embers

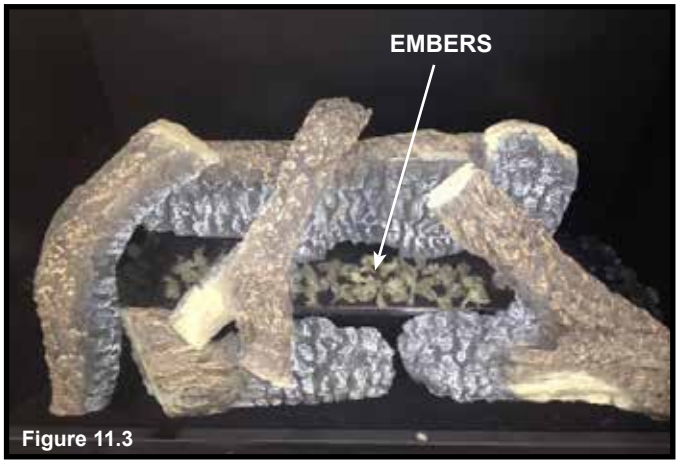


Figure 11.3

Placing the Lava Rock

Place lava rock over the remaining base pan surfaces. **(DO NOT COVER THE BURNER PORTS WITH THE LAVA ROCK)** See Figure 11.4.

⚠ WARNING

RISK OF EXPLOSION!

- Place lava rock according to instructions.
- Do NOT place lava rock on burner top.
- Use ONLY Hearth & Home Technologies-approved optional media with this appliance.
- Do NOT use more than 3 pounds of lava rock per fireplace.

Improperly placed lava rock interferes with proper burner operation.

Delayed ignition may occur.

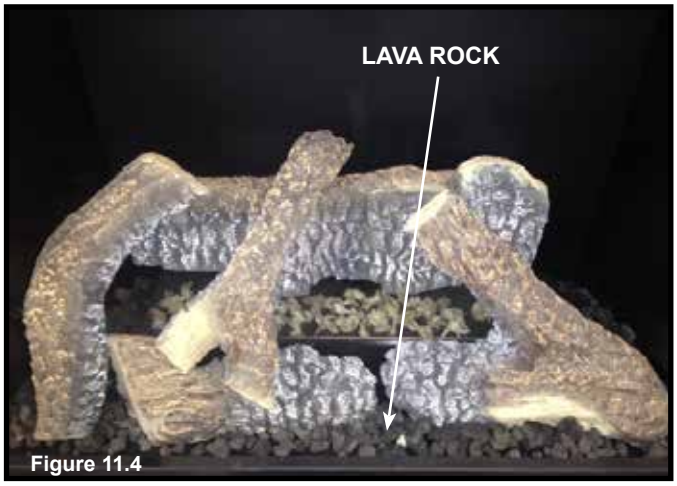


Figure 11.4

F. Install Decorative Front/Hood

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

This fireplace has been supplied with an integral barrier to prevent direct contact with the fixed glass panel. 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.

1. Remove decorative front by lifting up and away from appliance.
2. Install four shoulder bolts as shown in figure 11.5.
3. Hang decorative front onto shoulder bolts.
4. Install hood on appliance by inserting into the two hood clips. See Figure 11.5.

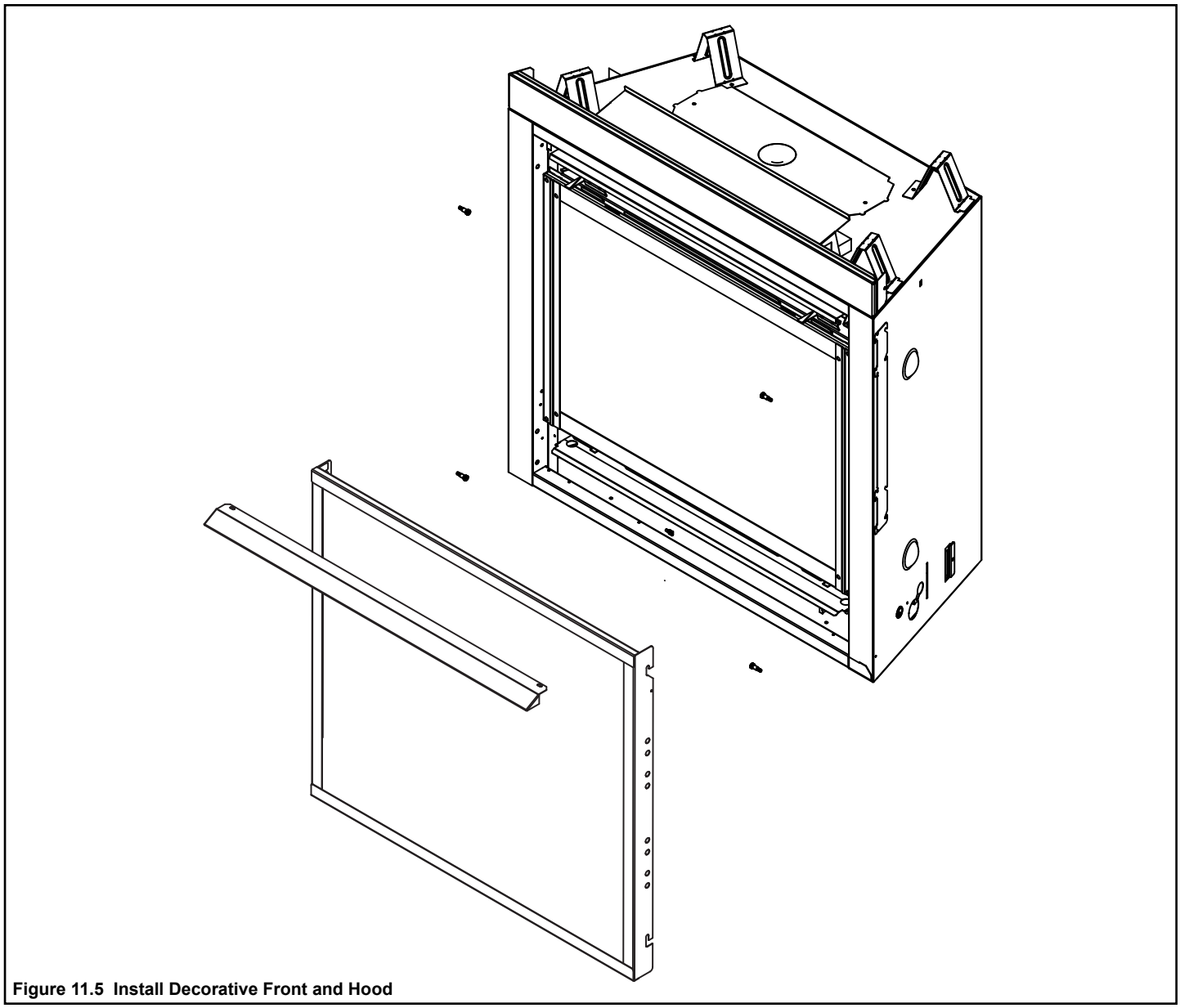


Figure 11.5 Install Decorative Front and Hood

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)
DVP-90ST	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	Vinyl Siding 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
SLP-FLEX-PIPE		SLP-WT-BK	Wall Thimble Black
SLK-SNKD	Snorkel Termination Cap	SLP-FLEX-TRAP	Horizontal Termination Cap
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	SLP-RDS	Roof Deck Insulation Shield
SLP-FLEX-XX	SLP Flexible Pipe (3/5/10 ft.)		
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
Coaxial / Colinear Components			
LINK-DV30B	Flex Liner Kit	DV-46DVA-GCL	Coaxial / Colinear Appliance Connector
DVP-2SL	Adapter		
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

Install approved accessories per instructions included with accessories. Contact your dealer for a list of approved 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.*

Fan Kit (optional)

If desired, a fan kit may be added. Contact your dealer to order the correct fan kit.

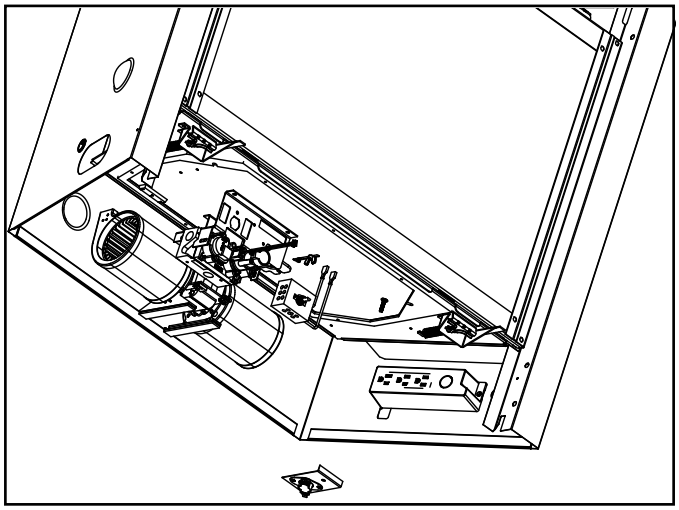


Figure 12.12 Fan Wiring with Rheostat

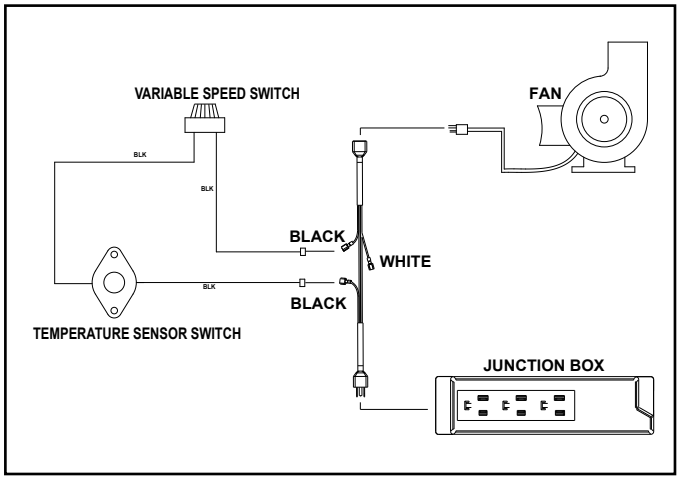


Figure 12.13 Detail of Fan Wiring with Rheostat

Remote Controls, Wall Controls and Wall Switches

Follow the instructions supplied with the control installed to operate your fireplace:

For safety:

- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.

See your dealer if you have questions.

Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044
www.hearthnhome.com

Please contact your Hearth & Home Technologies dealer with any questions or concerns.
For the location of your nearest Hearth & Home Technologies dealer,
please visit www.hearthnhome.com.

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