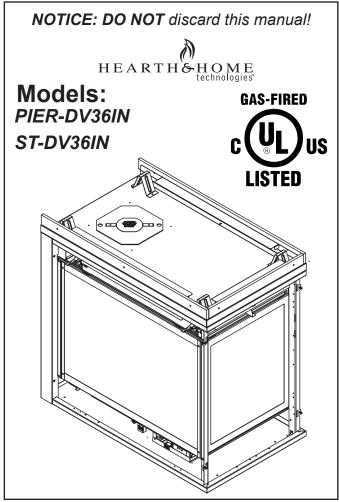
# Installation Manual Installation and Appliance Setup

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

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



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.



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

# A 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<sup>®</sup>.

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# **Installation Standard Work Checklist**

# **ATTENTION INSTALLER:**

Follow this Standard Work Checklist

installation manual. Customer: Lot/Address:			Date Installed: _ Location of Fireplace: _ Installer: _				
Model (circle one):	PIER-DV36IN	ST-DV36IN	Dealer/Distributor Phone #				
to a fire or e	explosion. Install C	xplosion! Failure to inst DNLY components and a accessories could cause t	ccessories	approved by			
Appliance Install Verified that the chas Required non-combu Verified clearances to Fireplace is leveled a	stible board is inst combustibles. (P	alled. (Pg.41) g. 13-16)		YES IF	F NO, WHY?		
(May need to orde	complies to vent o ked and secured in		nce.				
Firestops installed. No insulation or foam ceiling/wall shield fire Attic insulation shield Exterior wall/Roof fla Terminations installed	estops. l installed. shing installed and	act with venting or betwee sealed.	en				
Electrical Section 8	<b>8 (Pg 50-53)</b> 10-120 VAC) provi	ded to the appliance.					
<b><u>Gas</u></b> Section 9 (Pg Proper appliance for Was a conversion pe Leak check performe Verified proper air sh	fuel type. rformed? ed and inlet pressu						
Verified all clearance	ls not installed in n s meet installation	on-combustible areas. manual requirements. th installation manual req	uirements.				
Refractories, logs, la Glass assembly insta Accessories installed Mesh, decorative bar	tective materials ren va rock and ember alled and secured. I properly. rier front properly i	noved (inside & outside of s installed correctly.	appliance).				
the appliance and Started appliance an Hearth & Home Tec • Photographing the • That this checklist Comments: Further	f its contents are ro given to party res d verified no gas le <b>hnologies recom</b> installation and co remain visible at al	emoved from inside/unde ponsible for use and oper eaks exist. <b>mends the following:</b> pying this checklist for yo I times on the appliance o ssues, who is responsible	ration. our file. until the ins			and corrective	
action needed Comments Commun	icated to party rest	oonsible	b	V		on	
→ = Contains updat		(Builder / Gen. C	· · · · · · · ·	/		(Date) 2658-982B 12/2	

# A. Appliance Certification

MODELS: PIER-DV36IN, ST-DV36IN LABORATORY: Underwriters Laboratories, Inc. (UL) TYPE: Direct Vent Heater STANDARD: CSA / ANSI Z21.88-2019 • CSA 2.33-2019

This product is listed to ANSI standards for "Vented Gas Fireplace Heaters" and applicable sections of "Gas Burning Heating Appliances for Manufactured Homes and Recreational Vehicles", and "Gas Fired Appliances for

➔ Use at High Altitudes". Also Certified for Installation in a Bedroom or a Bedsitting Room.

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

#### NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE.

This appliance is tested and approved as either supplemental room heat or as a decorative appliance. It should not be factored as primary heat in residential heating calculations.

# **B. Glass Specifications**

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

This statement is in compliance with **CPSC 16 CFR Sec**tion **1201.5** "Certification and labeling requirements" which refers to **15** U.S. Code **(USC) 2063** stating "...Such certificate shall accompany the product or shall otherwise be furnished to any distributor or retailer to whom the product is delivered."

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

# C. BTU Specifications

Models (U.S. or Canad	a)	Maximum Input BTU/h	Minimum Input BTU/h	Orifice Size (DMS)
PIER-DV36IN (NG)	(0-2000 FT)	38,000	21,000	32
PIER-DV36IN (Propane)	(0-2000 FT)	35,500	20,000	50
ST-DV36IN (NG)	(0-2000 FT)	38,000	21,000	32
ST-DV36IN (Propane)	(0-2000 FT)	35,500	20,000	50

# D. High Altitude Installations

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

When installing above 2000 feet elevation:

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

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

# E. Non-Combustible Materials Specification

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

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

# F. Combustible Materials Specification

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

# G. Electrical Codes

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

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

# H. California

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

**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 OB-STRUCTIONS".

#### 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.

# A. Design and Installation Considerations

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

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

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

Before installing, determine the following:

- · Where the appliance is to be installed.
- · The vent system configuration to be used.
- · Gas supply piping requirements.
- · 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.





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

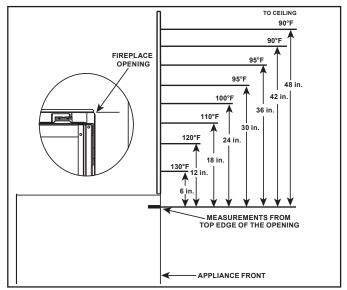
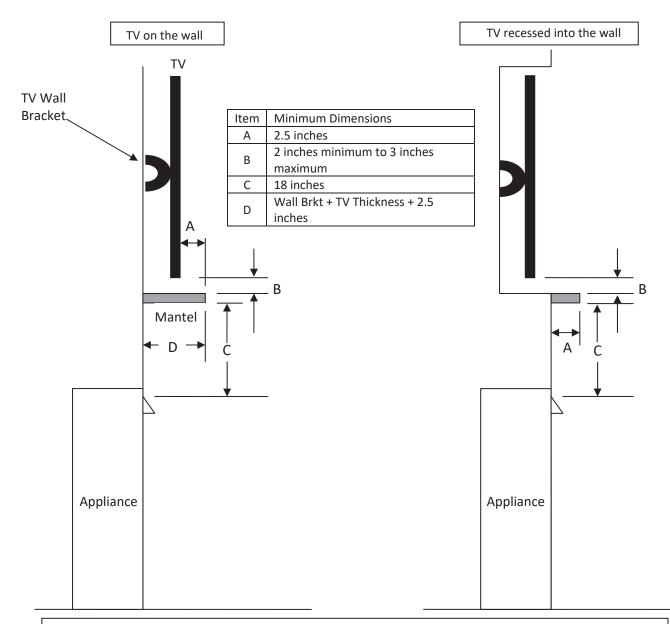


Figure 2.1 Good Faith Wall Surface Temperatures Above Appliance

**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.

# Good Faith Guidelines for TV Installations Above Appliance



#### Notes:

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

#### Figure 2.2 Good Faith TV Guidelines

# 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 (300°F minimum continuous exposure rating)

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

#### D. Inspect Appliance and Components

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

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

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

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

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

# A. Appliance Weights and Dimensions

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

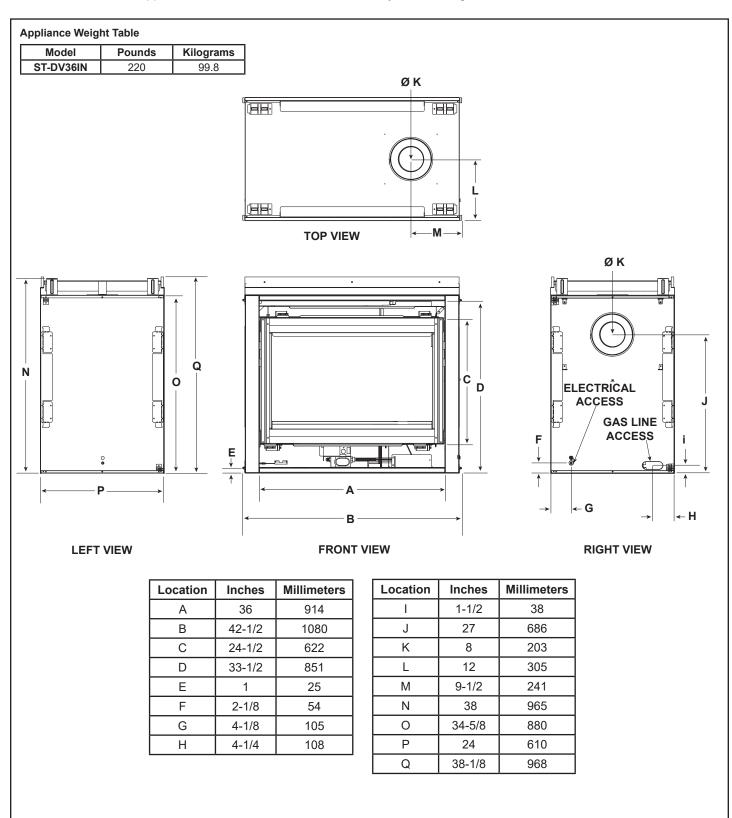
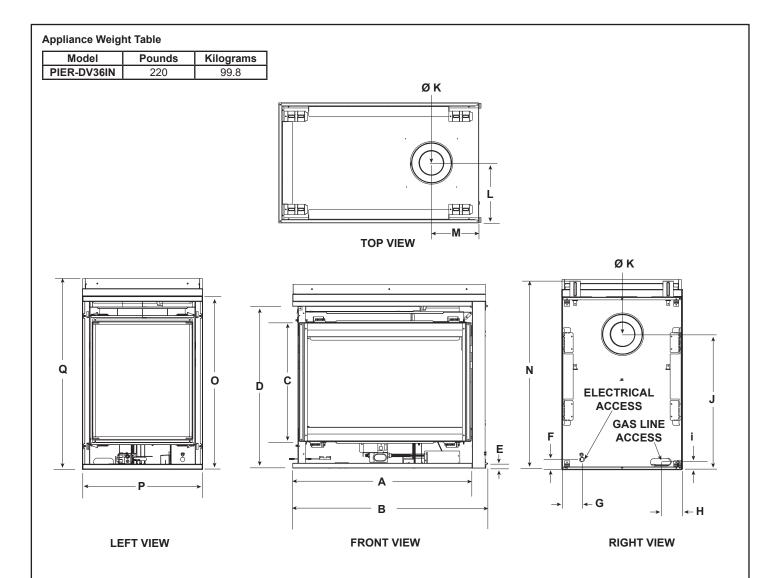


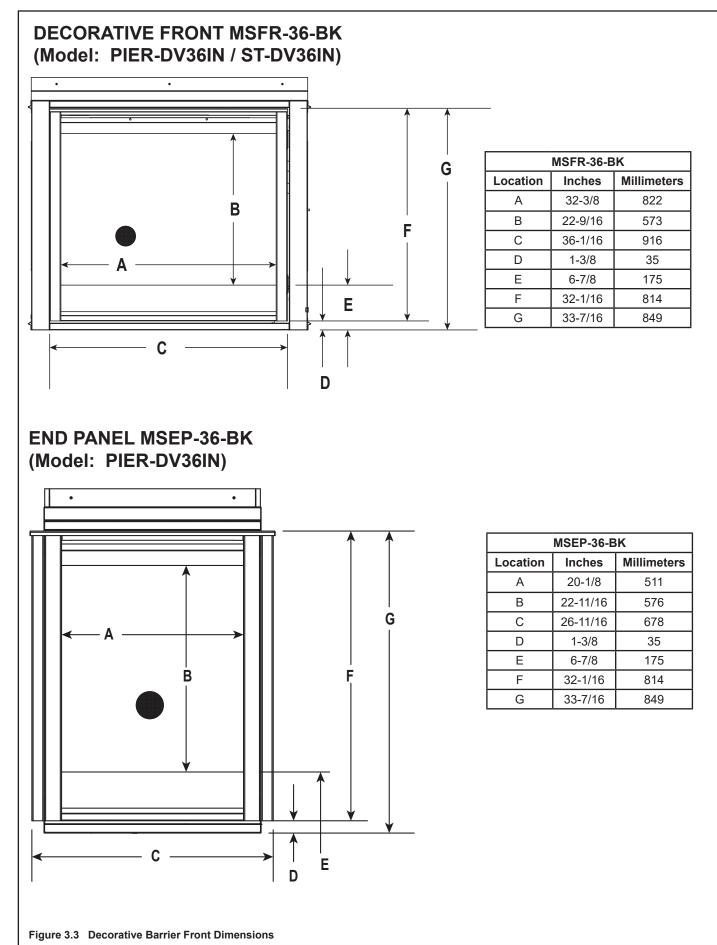
Figure 3.1 Appliance Dimensions - ST-DV36IN



Location	Inches	Millimeters
А	37-1/8	943
В	40-1/2	1029
С	24-1/2	622
D	33-1/2	851
E	1	25
F	2-1/8	54
G	4-1/8	105
Н	4-1/4	108

Location	Inches	Millimeters
I	1-1/2	38
J	27	686
K	8	203
L	12	305
М	9-1/2	241
Ν	38	965
0	34-5/8	880
Р	24	610
Q	38-1/8	968

Figure 3.2 Appliance Dimensions - PIER-DV36IN



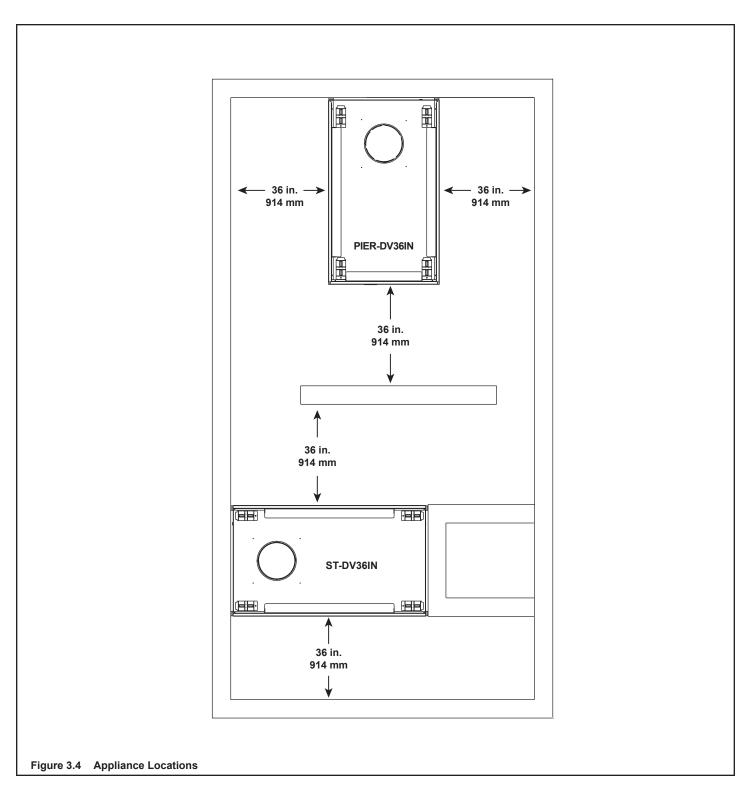
# C. Appliance Location and Clearances to Combustibles

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.

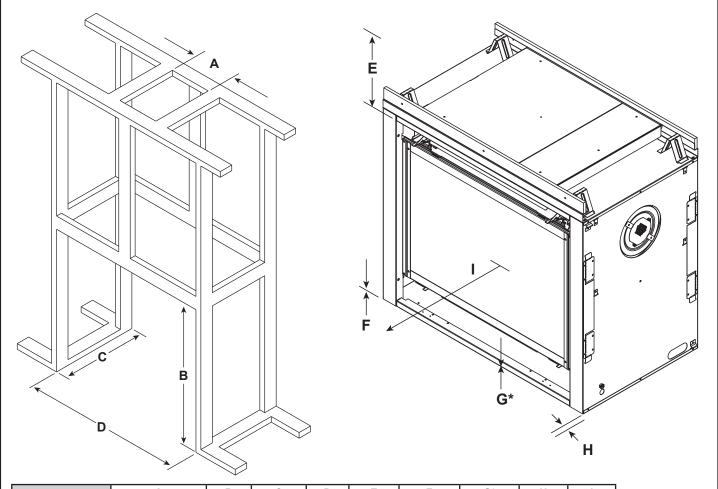
**NOTICE:** This See-Through appliance is NOT designed or approved for an indoor/outdoor application.



**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.

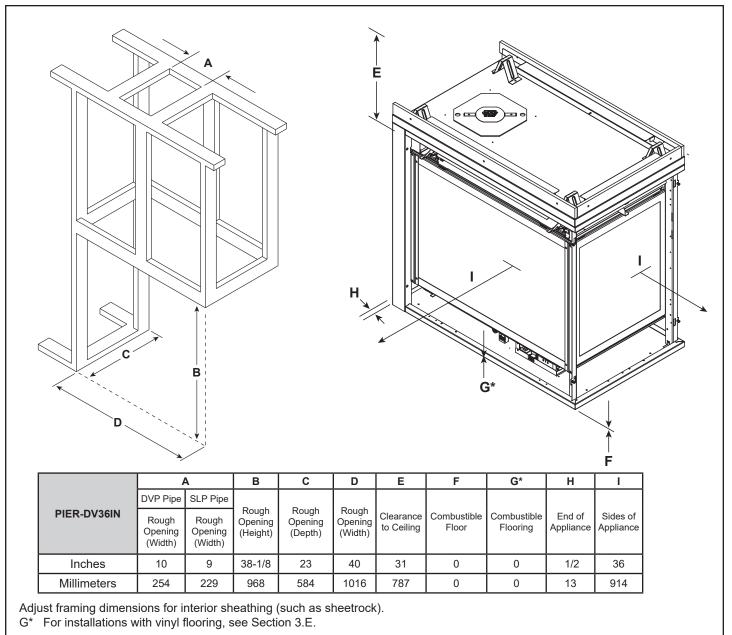
**WARNING!** Risk of Fire! Maintain specified air space clearances to appliance and vent pipe:

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

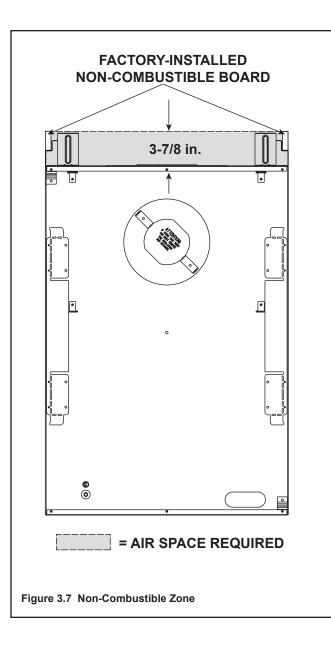


		4	В	С	D	E	F	G*	н	I
	DVP Pipe	Pipe SLP Pipe								
ST-DV36IN	Rough Opening (Width)	Rough Opening (Width)	Rough Opening (Height)	Rough Opening (Depth)	Rough Opening (Width)	Clearance to Ceiling	Combustible Floor	Combustible Flooring	Ends of Appliance	Sides of Appliance
Inches	10	9	38-1/8	23	43	31	0	0	1/2	36
Millimeters	254	229	968	584	1092	787	0	0	13	914

Figure 3.5 Clearances to Combustibles - ST-DV36IN



#### Figure 3.6 Clearances to Combustibles - PIER-DV36IN



# D. Constructing the Appliance Chase

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

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

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

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

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

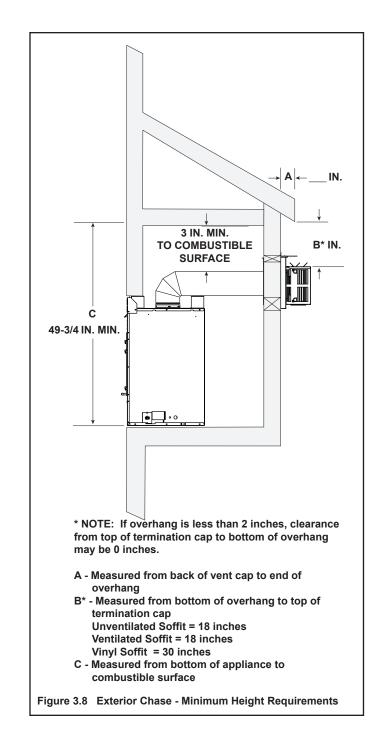
#### NOTICE: Where required by code, install only sprinkler heads with a sprinkler activation temperature classified as Extra High.

• Sprinklers inside of chase: Keep sprinkler head away from vent and chimney.

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

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

Minimum height requirements for an exterior chase on a topvented appliance are shown in Figure 3.8. Reference Figure 4.5 for additional clearances.



# E. Floor Protection

#### **Vinyl Flooring**

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



## A. Approved Pipe

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

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

#### **B. Vent Termination Minimum Clearances**

# WARNING Fire Risk. Maintain vent clearance to combustibles as specified. DO NOT pack air space with insulation or other materials.

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

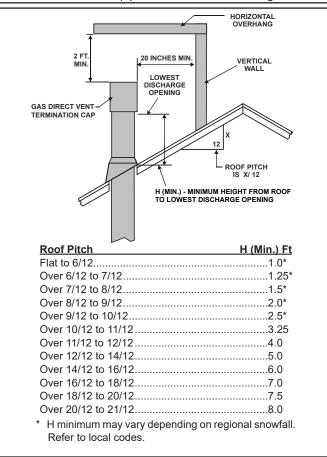


Figure 4.1 Minimum Height From Roof to Lowest Discharge Opening

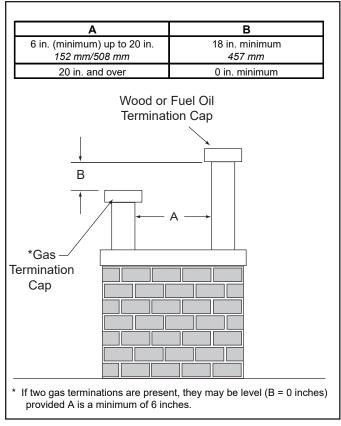


Figure 4.2 Staggered Termination Caps

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

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

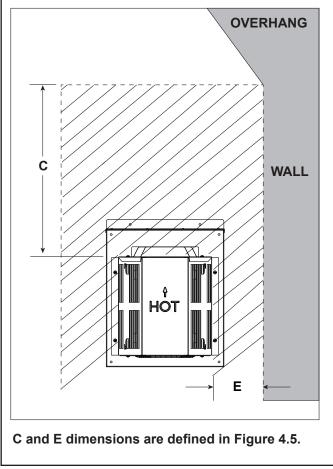
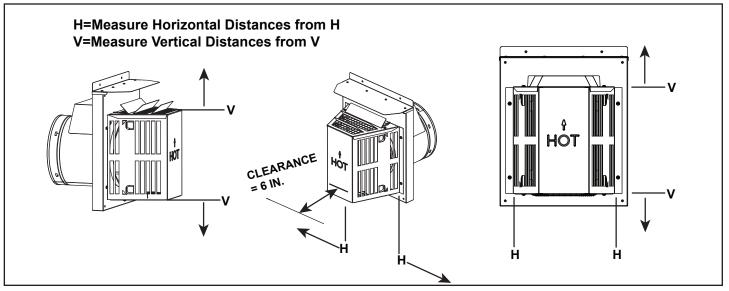
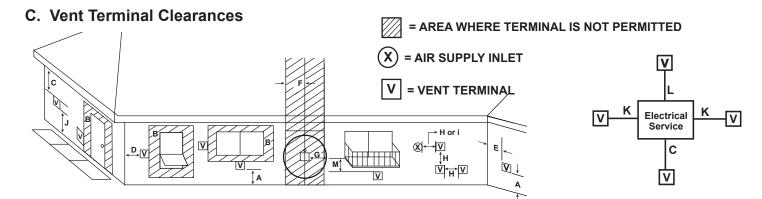


Figure 4.4 Measure Horizontal and Vertical Termination Clearance to Trapezoid Portion of Cap





**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
А	Clearance above grade,veranda, porch, deck, balcony or roof.	12 in. (305 mm)	12 in. (305 mm)
В	Clearance to window or door that may be opened, or to permanently closed window	9 in. min. (229 mm)	12 in. min. (305 mm)
	clearance below unventilated soffit	18 in. (457 mm)	18 in. (457 mm)
С	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	clearance to each side of center line extended above gas meter/regulator assembly	Clearance in ac- cordance with local installation codes and the requirements of the gas supplier.	3 ft (914 mm) within a height 15 ft (4.5 m) above the meter/ regulator assembly
G	clearance to gas service regulator vent outlet	3 ft (914 mm)	3 ft (914 mm)
н	clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance termination (mechanical or non-mechanical)	12 in. min.	12 in. 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 (1.8m)
	On <b>public</b> property: clearance above paved sidewalk or a paved driveway.	7 ft (2.1 m)	7 ft (2.1 m)**
J	**(A vent shall not terminate directly above a sidewalk or paved driveway which is loc serves both dwellings.)	ated between two single	e family dwellings and
	clearance from sides of electrical service	6 in. (152 mm)	6 in. (152 mm)
К	Location of the vent termination must not interfere with access to the electrical service		
	clearance above electrical service	12 in. (305 mm)	12 in. (305 mm)
L	Location of the vent termination must not interfere with access to the electrical service		
М	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)

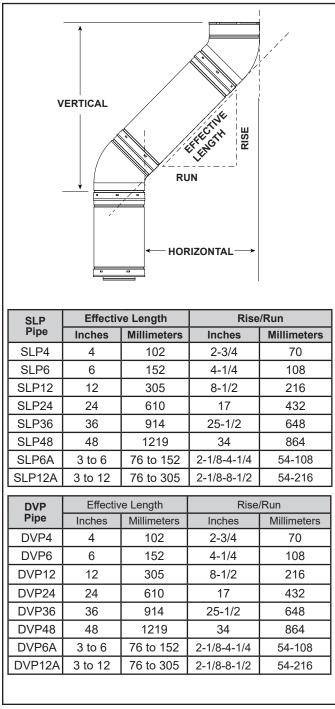
#### Figure 4.5 Minimum Clearances for Termination

# D. Use of Elbows

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

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

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



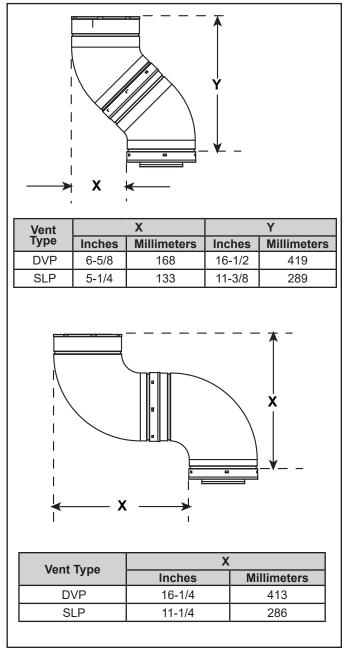


Figure 4.7 Vertical and Horizontal Offset for DVP and SLP Elbows

# E. Vent Diagrams

To replace the first starter elbow with two  $45^{\circ}$  elbows, refer to Figure 4.8. All other 90° elbows can be replaced with two  $45^{\circ}$  elbows.

#### General Rules:

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

If venting configuration differs from the vent diagrams on the following pages (Figure 4.12-4.29), these rules also apply:

- SUBTRACT 3 ft from the total H measurement for each 90° elbow installed horizontally.
- SUBTRACT 1-1/2 ft from the total H measurement for each 45° elbow installed horizontally.
- A maximum of three 90° elbows (or six 45° elbows) may be used in any vent configuration. Some elbows may be installed horizontally such as in Figure 4.15.
- Elbows may be placed back to back anywhere in the system.
- Any 90° elbow may be replaced with two back to back 45° elbows.
- 2 x 45° elbow jog directly off the top of the fireplace is allowed but has no V or H value, is permitted when reducing to SLP pipe, and DOES NOT count towards total elbow count.

#### Note: The ST-DV36IN and PIER-DV36IN fireplaces can adapt to SLP series vent pipe, if desired.

When venting off the top of the unit, use a DVP-2SL adapter and a minimum 48 inch vertical section of SLP series vent pipe.

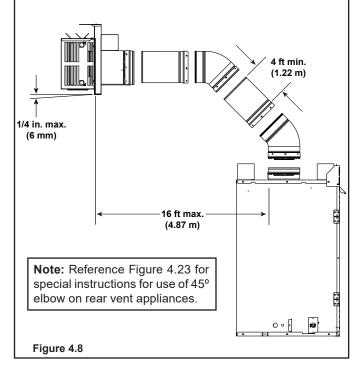
A DVP-SLP24 adapter may also be used with a 24 inch vertical section of SLP series vent pipe.

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

**Example:** DVP pipe 1 ft. min. vertical = 3 ft. max. horizontal SLP pipe 5 ft. min. vertical = 3 ft. max. horizontal

# Top Vent Horizontal Termination Two 45° Elbows

Installation requirements to replace the first  $90^\circ$  elbow with two  $45^\circ$  elbows:



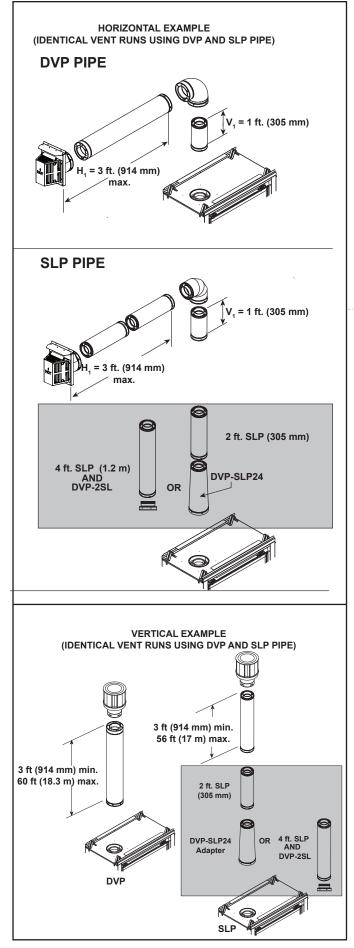


Figure 4.9 Adapt DVP Pipe to SLP Using DVP-SLP24 & DVP-2SL

#### Measuring Standards:

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

- Pipe measurements are shown using the effective length of pipe. See Section 12.A (Figure 12.1 for DVP, Figure 12.8 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 4.10.
- Vertical terminations are measured to top of last section of pipe. See Figure 4.11.
- Horizontal pipe installed level with no rise.

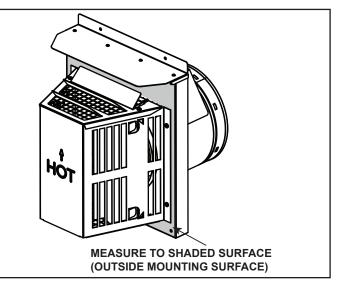


Figure 4.10 Measure to Outside Mounting Surface

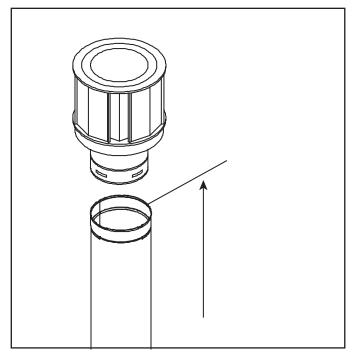
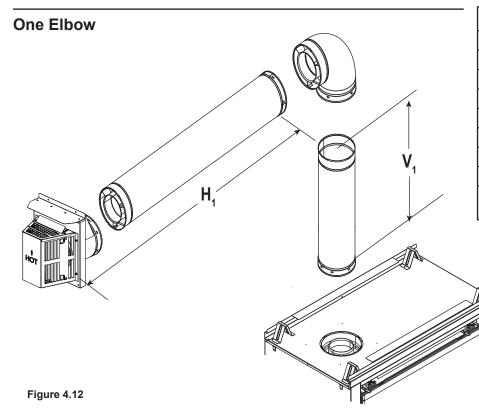


Figure 4.11 Measure to Top of Last Section of Pipe

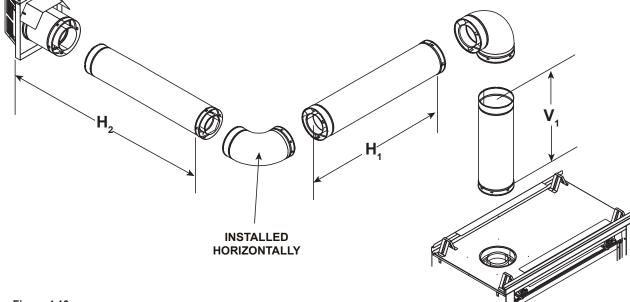
# **Top Vent - Horizontal Termination**



V <sub>1</sub> Min	iimum	H₁ Max	kimum			
Elbov	v only	1-1/2 ft.	457 mm			
6 in.	152 mm	2-1/2 ft.	610 mm			
1 ft.	305 mm	3 ft.	914 mm			
2 ft.	610 mm	6 ft	1.8 m			
3 ft.	914 mm	9 ft.	2.7 m			
4 ft.	1.2 m	12 ft.	3.7 m			
5 ft.	1.5 m	15 ft.	4.6 m			
6 ft. 1.8 m 18 ft. 5.5 m						
$V_1 + H_1 = 50$ ft. (15.2 m) Maximum $H_1 = 18$ ft. (5.5 m) Maximum						

## **Two Elbows**

V <sub>1</sub> Mir	nimum	H <sub>1</sub> + H <sub>2</sub> N	laximum				
Elbov	v only	6 in.	152 mm				
1 ft.	305 mm	2 ft.	610 mm				
2 ft.	610 mm	4 ft.	1.2 m				
3 ft.	3 ft. 914 mm		2.7 m				
4 ft	1.2 m	12 ft.	3.7 m				
5 ft.	1.5 m	15 ft.	4.6 m				
6 ft.	1.8 m	18 ft.	5.5 m				
	$V_1 + H_1 + H_2 = 50$ ft. (15.2 m) Maximum $H_1 + H_2 = 18$ ft. (5.5 m) Maximum						



# Top Vent - Horizontal Termination - (continued) Three Elbows

V <sub>1</sub> Mi	nimum	H <sub>1</sub> Ma	ximum	V <sub>2</sub> Mi	nimum	H <sub>2</sub> Ma	ximum	$V_{1} + V_{2}$	Minimum	H <sub>1</sub> + H <sub>2</sub>	Maximum
Elbo	w only	1 ft.	305 mm	6 in.	152 mm	1 ft.	305 mm	6 in.	152 mm	1 ft.	305 mm
6 in.	152 mm	3 ft.	914 mm	6 in.	152 mm	2 ft.	610 mm	1 ft.	305 mm	3 ft.	914 mm
1 ft.	305 mm	6 ft	1.8 m	1 ft.	305 mm	6 ft	1.8 m	2 ft.	610 mm	12 ft.	3.7 m
2 ft.	610 mm	10 ft.*	3 m	2 ft.	610 mm	10 ft.*	3 m	4 ft	1.2 m	18 ft.	5.5 m
3 ft.	914 mm	12 ft.*	3.7 m	3 ft.	914 mm	12 ft.*	3.7 m	6 ft	1.8 m	18 ft	5.5 m
	*H <sub>1</sub> + H <sub>2</sub> = 18 ft. (5.5 m) Maximum						$+ H_1 + H_2 =$	50 ft. (15	.2 m) Maxim	um	

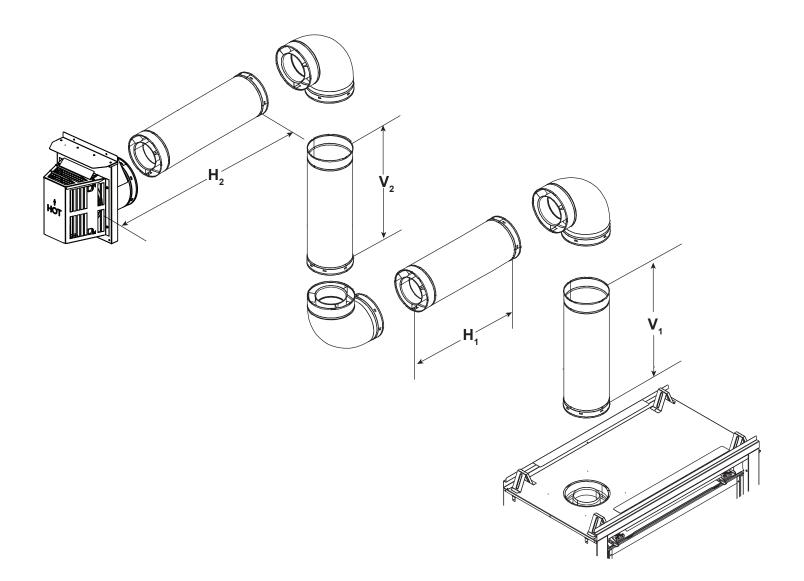


Figure 4.14

# Top Vent - Horizontal Termination - (continued)

# **Three Elbows**

V <sub>1</sub> Mir	iimum	H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> Maximum					
Elb	WO	no	t allowed				
6 in.	152 mm	no	t allowed				
1 ft.	305 mm	1 ft.	305 mm				
2 ft.	610 mm	2 ft.	610 mm				
3 ft.	914 mm	3 ft.	914 mm				
4 ft.	1.2 m	4 ft.	1.2 m				
5 ft.	1.5 m	5 ft.	1.5 m				
6 ft.	1.8 m	6 ft.	1.8 m				
	$V_1 + H_1 + H_2 + H_3 = 50$ ft. (15.2 m) Maximum $H_1 + H_2 + H_3 = 18$ ft. (5.5 m) Maximum						

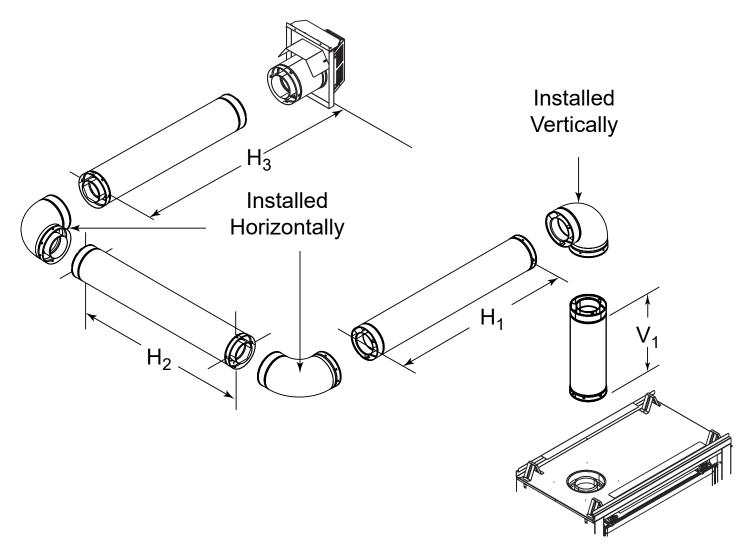
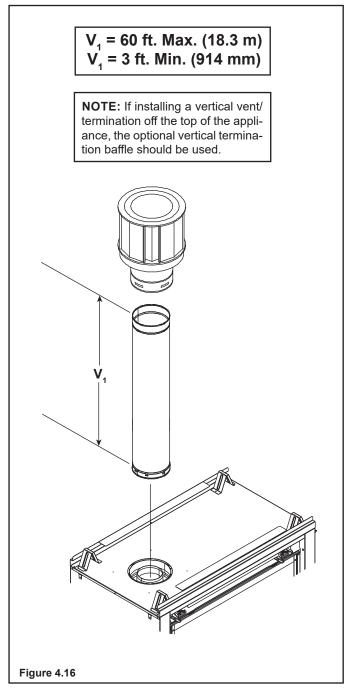


Figure 4.15

# **Top Vent - Vertical Termination**

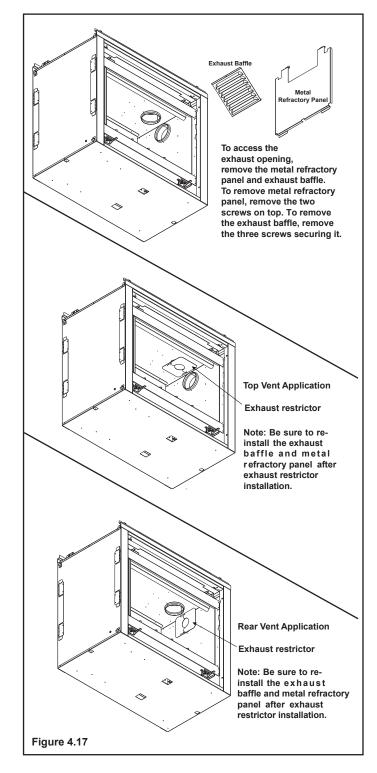
# No Elbow



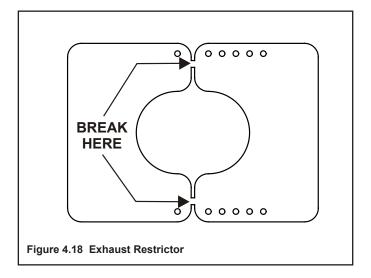
Exhaust restrictors are recommended for these vertically terminated products which have excessive draft. Exhaust restrictors will compensate for high draft, and restore visual flame height. If the vent configuration has a total vertical of 10-60 feet, an exhaust restrictor may be needed. The exhaust restrictor can be located in the appliance manual bag.

#### **Exhaust restrictor Instructions**

1. Remove metal refractory panel and exhaust baffle from pilot side of appliance. To remove the refractory panel use a 1/4 inch nut driver and remove the two screws that secure it in place. To remove the exhaust baffle, remove the three screws securing it in place. See Figure 4.17.



2. Break the exhaust restrictor into two pieces. Do this by bending the part back and forth until it breaks (see Figure 4.18).



3. Use Table 4.1 to match the amount of vertical you have in the system to find the appropriate position to set the exhaust restrictor. See Figure 4.19.

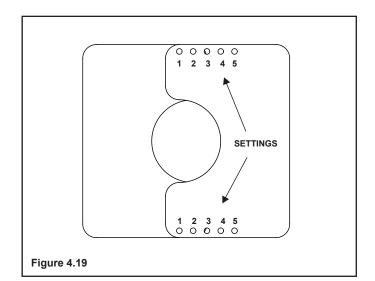
Vertical	TOP VENT			VENT	
Vertical	NG	Propane	NG	Propane	
10 ft.	1-1	1-1	1-1	1-1	
20 ft.	2-2	2-2	2-2	2-2	
30 ft.	2-2	2-2	2-2	2-2	
40 ft.	3-3	3-3	3-3	3-3	
50 ft.	3-3	3-3	3-3	3-3	
60 ft.	3-3	3-3	3-3	3-3	

#### Table 4.1

**Note**: If the DVP-2SL and DVP-SLP24 adapter and SLP pipe is used, you MUST subtract one number from the table above.

**Example:** Top vent 60 ft vertical with DVP pipe = 3-3 Top vent 60 ft vertical with SLP pipe = 2-2

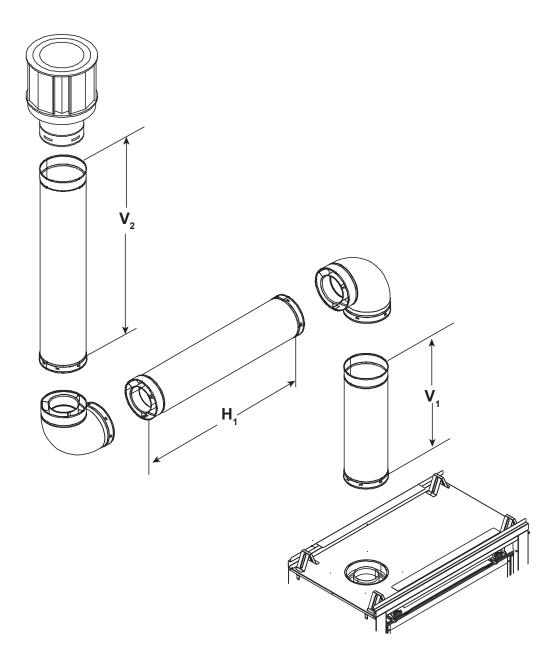
- 4. Center the exhaust restrictor in the open end of the exhaust outlet and secure through the slots on the exhaust restrictor with the 2-1/4 in. self-tapping screws provided in the appliance manual bag.
- 5. Reinstall the exhaust baffle and the refractory panel.



# Top Vent - Vertical Termination - (continued)

# **Two Elbows**

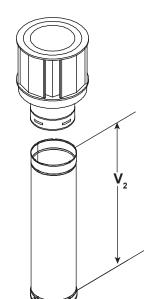
	<b>V</b> <sub>1</sub>	H₁ Maximum		V <sub>2</sub>	<b>V</b> <sub>1</sub> + <b>V</b> <sub>2</sub>	Minimum			
Elbo	w Only	2-1/2 ft.	762 mm	*	*	*			
2 ft.	607 mm	6 ft.	*	*	*				
4 ft.	1.2 m	12 ft.	*	*	*				
6 ft.	*	*							
	$V_1 + V_2 + H_1 = 50$ ft (15.2 m) Maximum *No specific restrictions on this value EXCEPT $V_1 + V_2 + H_1$ cannot exceed 50 ft (15.2 m)								

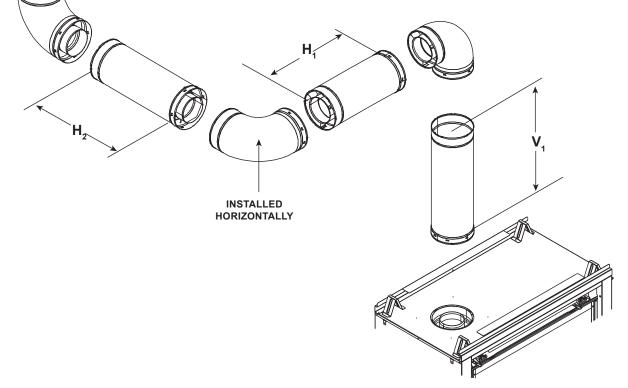


# Top Vent - Vertical Termination - (continued)

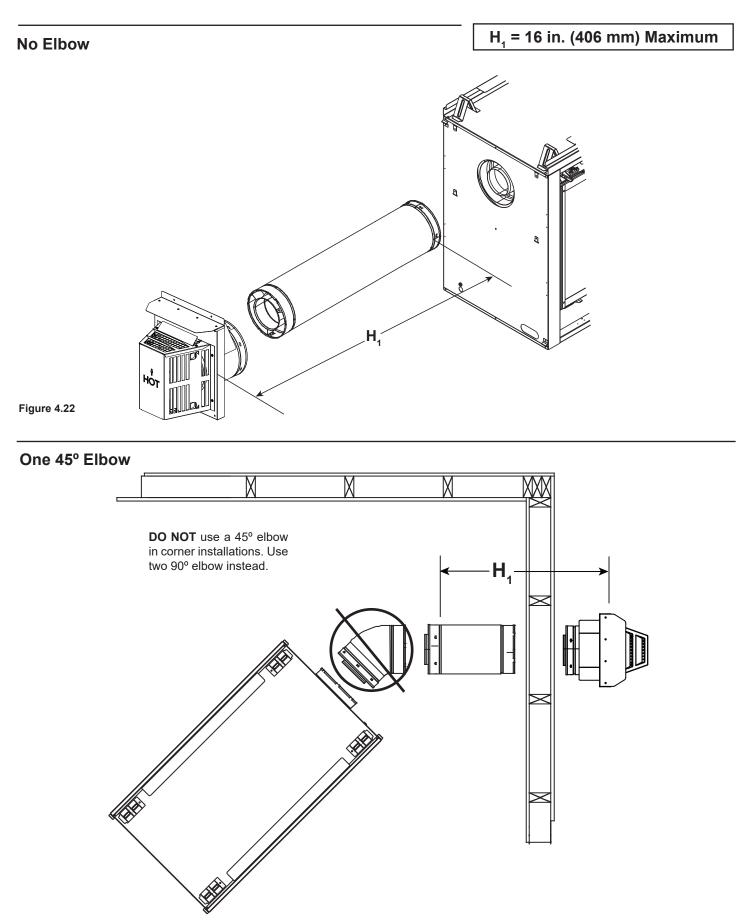
# **Three Elbows**

\ \	/ <sub>1</sub>	H <sub>1</sub> +	H <sub>2</sub>	<b>V</b> <sub>2</sub>	V <sub>1</sub> + V <sub>2</sub> M	Minimum	H <sub>1</sub> + H <sub>2</sub> N	laximum	
ELBOV	V ONLY	1 ft.	305 mm	*	*	*	1 ft.	305 mm	
1 ft.	305 mm	2 ft.	610 mm	*	*	*	2 ft.	610 mm	
2 ft.	610 mm	4 ft	1.2 m	*	*	*	4 ft	1.2 m	
3 ft. 914 mm 9 ft. 2.7 m * * 9 ft. 2.7 m								2.7 m	
4 ft	4 ft 1.2 m 12 ft. 3.7 m * * * 12 ft. 3.7 m								
6 ft. 1.8 m 18 ft. 5.5 m * * * 18 ft. 5.5 m								5.5 m	
	$H_1 + H_2 = 18$ ft (5.5 m) Maximum *No specific restrictions on this value EXCEPT $V_1 + V_2 + H_1 + H_2$ cannot exceed 50 ft (15.2 m)								





# **Rear Vent - Horizontal Termination**



# Rear Vent - Horizontal Termination - (continued)

# **Two Elbows**

H <sub>1</sub> Maximum V <sub>1</sub> Minimum H <sub>2</sub> Maximum						$H_1 + H_2 N$	<i>l</i> laximum	
1 ft.	305 mm	6 in.	152 mm	1 ft.	1 ft. 305 mm		305 mm	
2 ft.	610 mm 1 ft. 305 mm 2 ft. 610 mm		3 ft.	914 mm				
3 ft.	914 mm	2 ft.	610 mm	4 ft	1.2 m	6 ft.	1.8 m	
3 ft. 914 mm 3 ft. 914 mm 7 ft. 2.1 m 9 ft. 2.7 m					2.7 m			
3 ft. 914 mm 4 ft. 1.2 m 10 ft. 3 m 12 ft. 3.7 m								
3 ft.	914 mm	5 ft.	1.5 m	12 ft.	3.7 m	15 ft.	4.6 m	
3 ft. 914 mm 6 ft. 1.8 m 15 ft. 4.6 m 18 ft. 5.5 m								
V	$V_1 + H_1 + H_2 = 50$ ft (15.2 m) Maximum $H_1 = 3$ ft (914 mm) Maximum * $H_1 + H_2 = 18$ ft (5.5 m) Maximum							

Η,

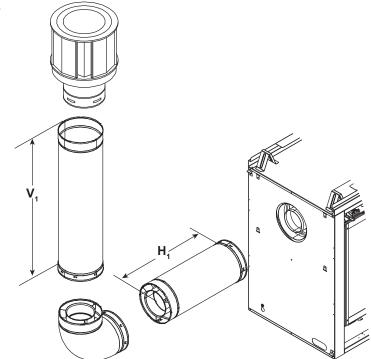
Figure 4.24

# Thre

H, Maximum       V, Minimum       H, H + H2 + H3       Maximum         6 in.       152 mm       6 in.       152 mm       1 ft.       305 mm         1 ft.       305 mm       1 ft.       305 mm       1 ft.       305 mm       1 ft.       <							
INSTALLED         HORIZONTALLY         Ift.         3ft.         914 mm         2ft.         6in.         1ft.         305 mm         1ft.         31ft.         914 mm         4ft.         1.2 m         8ft.         2.4 m         V1+H1+H2+H3=40 ft (12.2 m) Maximum         H1+H2+H3=12 ft (3.7 m) Maximum	ree Elbows	H₁ N	laximum	<b>V</b> <sub>1</sub> M	linimum	H <sub>1</sub> + H <sub>2</sub> + F	I <sub>3</sub> Maximum
INSTALLED         HORIZONTALLY         3 ft.       914 mm       2 ft.       610 mm       4 ft.       1.2 m         3 ft.       914 mm       3 ft.       914 mm       6 ft.       1.8 m         3 ft.       914 mm       4 ft.       1.2 m       8 ft.       2.4 m         V <sub>1</sub> + H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 40 ft (12.2 m) Maximum       H <sub>1</sub> = 3 ft (94 mm) Maximum       H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 12 ft (3.7 m) Maximum		6 in.	152 mm	6 in.	152 mm	1 ft.	305 mm
HORIZONTALLY HORIZONTALLY HORIZONTALLY HORIZONTALLY HORIZONTALLY HORIZONTALLY 13 ft. 914 mm 2 ft. 010 mm 4 ft. 1.2 m 3 ft. 914 mm 3 ft. 914 mm 6 ft. 1.8 m 3 ft. 914 mm 4 ft. 1.2 m 8 ft. 2.4 m V <sub>1</sub> + H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 40 ft (12.2 m) Maximum H <sub>1</sub> = 3 ft (94 mm) Maximum H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 12 ft (3.7 m) Maximum H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 12 ft (3.7 m) Maximum		1 ft.	305 mm	1 ft.	305 mm	2 ft.	610 mm
3 ft.       914 mm       3 ft.       914 mm       6 ft.       1.8 m         3 ft.       914 mm       4 ft.       1.2 m       8 ft.       2.4 m         V <sub>1</sub> + H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 40 ft (12.2 m) Maximum         H       H       H       H       H       1.2 m       8 ft.       2.4 m		3 ft.	914 mm	2 ft.	610 mm	4 ft.	1.2 m
V <sub>1</sub> + H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 40 ft (12.2 m) Maximum H <sub>1</sub> = 3 ft (94 mm) Maximum H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 12 ft (3.7 m) Maximum		3 ft.	914 mm	3 ft.	914 mm	6 ft.	1.8 m
H <sub>1</sub> = 3 ft (94 mm) Maximum H <sub>1</sub> + H <sub>2</sub> + H <sub>3</sub> = 12 ft (3.7 m) Maximum		3 ft.	914 mm	4 ft.	1.2 m	8 ft.	2.4 m
			V <sub>1</sub> + H <sub>1</sub> + F H <sub>1</sub> + F	H <sub>2</sub> + H <sub>3</sub> : H <sub>1</sub> = 3 ft H <sub>2</sub> + H <sub>3</sub> =	= 40 ft (12.2 (94 mm) Ma 12 ft (3.7 m	2 m) Maxim aximum 1) Maximun	n

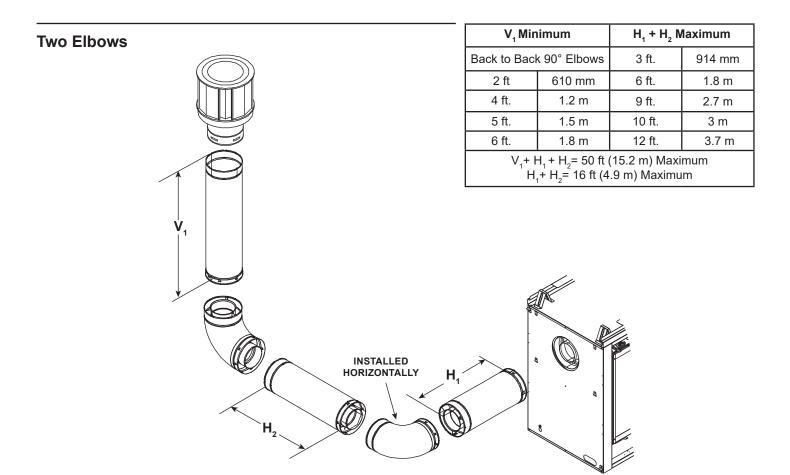
# **Rear Vent - Vertical Termination**

# **One Elbow**



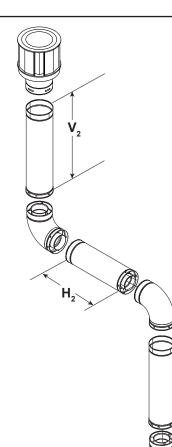
V₁ Mir	nimum	H₁ Maximum					
1 ft.	305 mm	3 ft.	914 mm				
2 ft.	610 mm	5 ft.	1.5 m				
3 ft.	914 mm	7 ft.	2.1 m				
4 ft.	1.2 m	8 ft	2.4 m				
5 ft. 1.5 m 8 ft 2.4 m							
$V_1 + H_1 = 40$ ft (12.2 m) Maximum							

Figure 4.26



# Rear Vent - Vertical Termination - (continued)

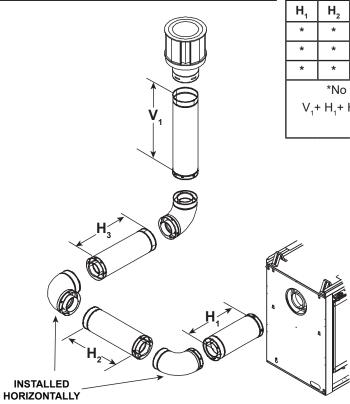
# **Three Elbows**



H <sub>1</sub> M	aximum		/linimum		H <sub>2</sub>	H <sub>1</sub> + H <sub>2</sub> Maximum		
1 ft.	305 mm	1 ft.	305 mm	1 ft.	305 mm	2 ft.	610 mm	
2 ft.	610 mm	2 ft.	610 mm	3 ft.	914 mm	5 ft.	1.5 m	
4 ft.	1.2 m	3 ft.	914 mm	4 ft.	1.2 m	8 ft.	4.6 m	
5 ft.	5 ft. 1.5 m 4 ft. 1.2 m 6 ft. 1.8 m 11 ft. 3.4 m							
6 ft. 1.8 m 5 ft. 1.5 m 8 ft. 2.4 m 14 ft. 4.3 m								
8 ft. 2.4 m 6 ft. 1.8 m 9 ft. 2.7 m 17 ft. 5.2 m								
	$H_1 = 8 \text{ ft} (2.4 \text{ m}) \text{ Max.}$ $V_1 + V_2 + H_1 + H_2 = 50 \text{ ft} (15.2 \text{ m}) \text{ Max.}$							
	$H_1 + H_2 = 17$ ft (5.2 m) Max.							

Figure 4.28

# **Three Elbows**



H <sub>1</sub>	H <sub>2</sub>	$H_{3}$	V₁ Mir	nimum	$H_{1} + H_{2} +$	H <sub>3</sub> Maximum		
*	*	*	8 ft. 2.4 m		4 ft.	1.2 m		
*	*	*	9 ft.	2.7 m	5 ft.	1.5 m		
*	* * * 10 ft. 3.1 m 6 ft.					1.8 m		
	*No specific restrictions on this value EXCEPT $V_1$ + $H_1$ + $H_2$ + $H_3$ cannot exceed 50 ft. (15.2 m) Maximum							
<b>1</b>	$H_1 + H_2 + H_3 = 6$ ft. (1.8 m) Maximum							

Figure 4.29



#### A. Vent Clearances to Combustibles

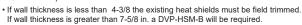
**WARNING!** Risk of Fire! Maintain air space clearance to vent. **DO NOT** pack insulation or other combustibles:

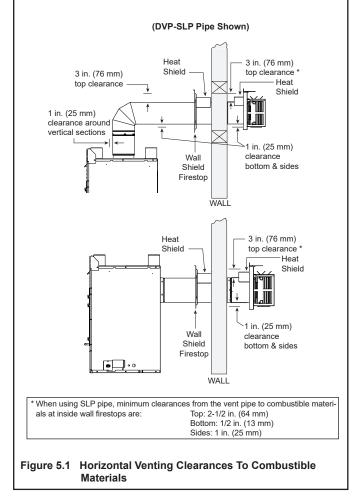
- Between ceiling firestops
- · Between wall shield firestops
- Around vent system

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

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).





#### **Elbow and Offset Clearances to Combustibles**

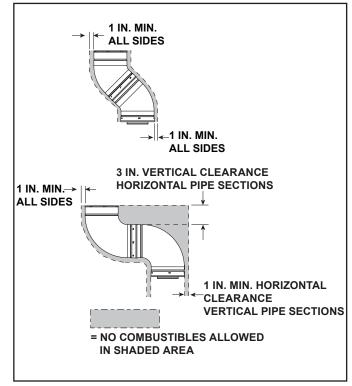


Figure 5.2 Clearances from Vent to Combustible Framing Materials

# **B. Wall Penetration Framing/Firestops**

#### **Combustible Wall Penetration**

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

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

#### **Non-Combustible Wall Penetration**

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

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

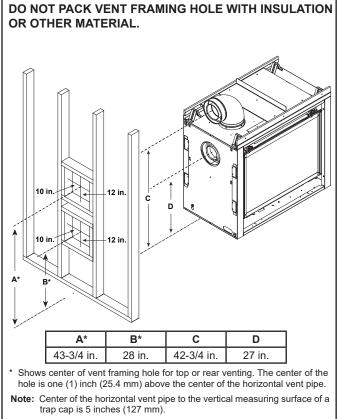


Figure 5.3 Wall Penetration

## C. Ceiling Firestop/Floor Penetration Framing

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

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

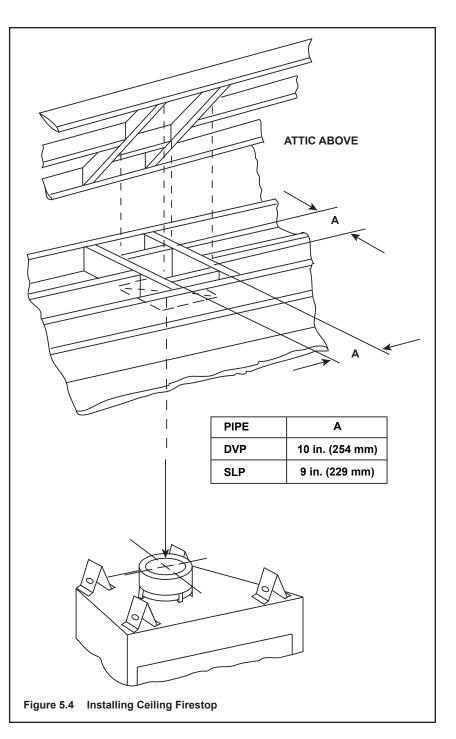
- **DVP pipe only** Frame an opening 10 in. by 10 in. (254 mm by 254 mm) whenever the vent penetrates a ceiling/floor (see Figure 5.4).
- **SLP pipe only** Frame opening 9 in. x 9 in. (229 mm x 229 mm) whenever the vent penetrates a ceiling/floor (see Figure 5.4).
- Frame the area with the same sized 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 5.5.
- · Secure in place with nails or screws.

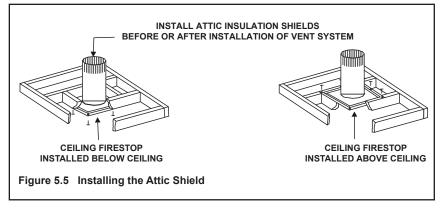
## D. Install Attic Insulation Shield

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

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

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







## 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 ST-DV36IN Only: Remove screws from top heat shield.



**Figure 6.2 ST-DV36IN Only:** Fold heat shield back and secure with screw. Bend heat shield flange to make it flat. This step is necessary to allow for framing header clearance.

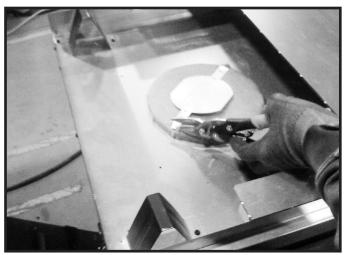


Figure 6.3 Cut the metal retaining band and fold the sides out.



**Figure 6.4** Fold the center parts of the retaining band up and use to remove the vent cap.



**Figure 6.5** Remove and discard the seal cap, insulation donut, insulation plug, and the insulation basket. Attach the first vent section (it will snap into place). Slide the vent gasket onto the vent section and then, up against the appliance. Secure the vent gasket to the appliance with two self-tapping screws found in the manual bag. Note: The vent gasket can found in the manual bag.

## Proceed to Section 6.B.

## **Rear Vent**

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

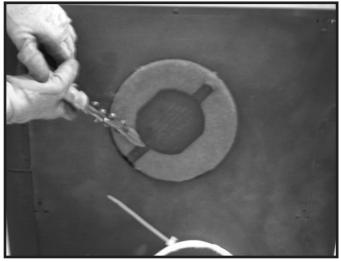


Figure 6.6 Cut the metal retaining band.

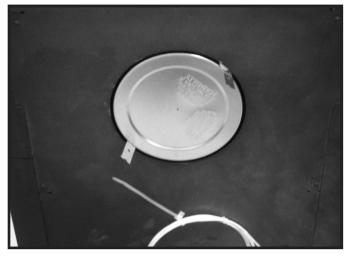
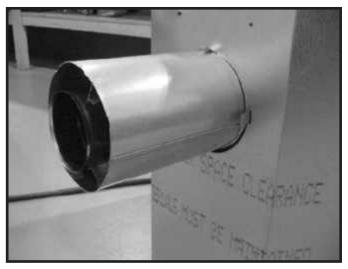


Figure 6.7 Remove the seal cap.

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



**Figure 6.8** Discard the seal cap, insulation plug and the insulation basket.



**Figure 6.9** Attach the first vent section (it will snap into place). Slide the vent gasket onto the vent section and then, up against the appliance. Secure the vent gasket to the appliance with two self-tapping screws found in the manual bag. Note: The vent gasket can found in the manual bag.

## A WARNING



## Risk of Fire!

Prevent contact with:

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

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

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

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

**NOTICE:** Failure to ensure that the fireplace opening is square could result in the decorative front not fitting properly.

The diagrams show how to properly position and secure the appliance. See Figure 6.10. Nailing tabs are provided to secure the appliance to the framing members. See Figure 6.11.

- Bend out nailing tabs on each side.
- Place the appliance into position.
- Keep nailing tabs flush with the framing.
- Level the appliance from side to side and front to back.
- "Square" the unit by securing diagonal dimensions to within 1/4 inch of each other. See Figure 6.12.
- Shim the appliance as necessary. It is acceptable to use wood shims underneath the appliance.
- Secure the appliance to the framing by using nails or screws through the nailing tabs. Use a minimum of one fastener per nailing tab.
- Optional: Secure the appliance to the floor by inserting two screws through the pilot holes at the bottom of the appliance.

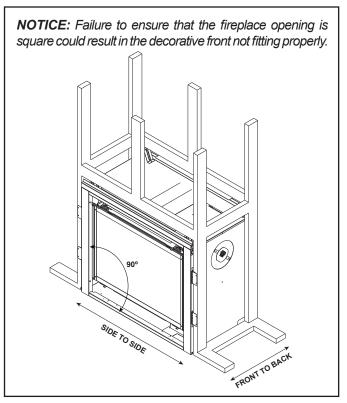


Figure 6.10 Proper Positioning and Leveling of an Appliance

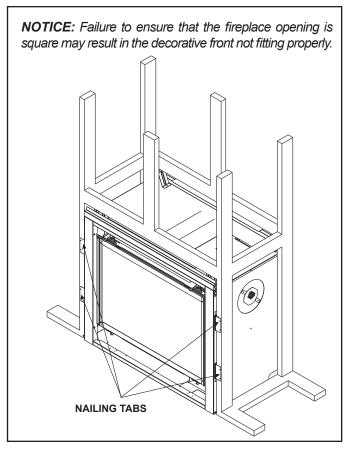
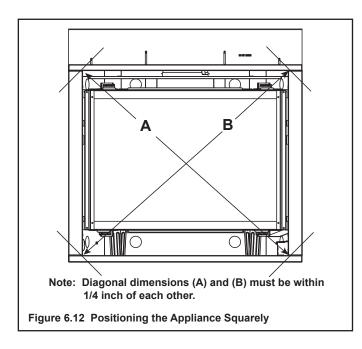


Figure 6.11 Securing An Appliance



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

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

The factory-installed non-combustible board spans the distance from the top of the fireplace to the framing header. This board must be used. Do not remove. See Figure 6.13.



Figure 6.13 Non-combustible Board

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

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

#### Attach Vent to the Firebox Assembly

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

Attach the first pipe section to the starting collar:

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

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

Recommended: Vent Configurations with multiple pipe joints/pipe connections

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

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

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

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

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

#### **Assemble Pipe Sections**

Per Figure 7.2:

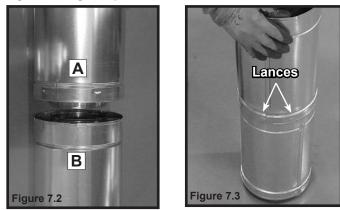
- Start the inner pipe on the lanced end of section A into the flared end of section B.
- Start the outer pipe of section A over the outer pipe of section B.
- Once both vents sections are started, push firmly until all lanced tabs lock into place.
- Lightly tug on the pipe to confirm the tabs have locked.

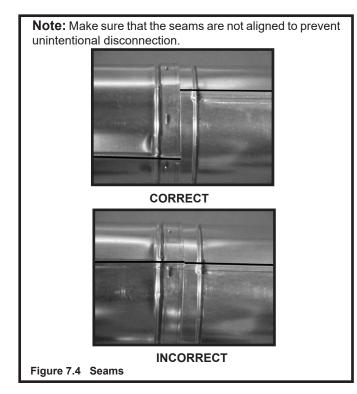
It is acceptable to use screws no longer than 1/2 in. (13 mm) to hold outer pipe sections together. If predrilling holes, **DO NOT** penetrate inner pipe.

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



Figure 7.1 High Temperature Silicone Sealant





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

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

## B. Assemble Vent Sections (SLP Only)

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

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

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

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

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

## Recommended: Vent Configurations with multiple pipe joints/pipe connections

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

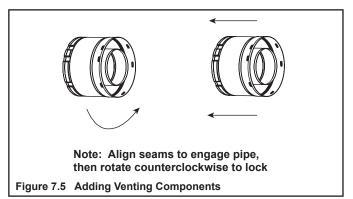
All outer pipe joints must be sealed using one of the methods below, including the slip section that connects directly to the horizontal termination cap.

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

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

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

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



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

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

## C. 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.

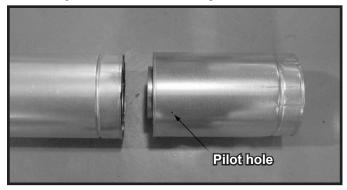


Figure 7.6 Slip Section Pilot Holes

- 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.

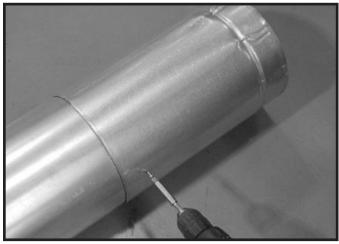


Figure 7.7 Screws into Slip Section

• 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.

## D. Secure the Vent Sections

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

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

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

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

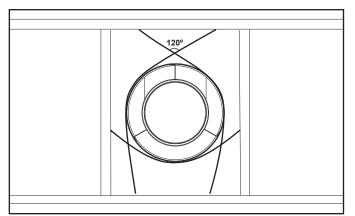


Figure 7.8 Securing Vertical Pipe Sections

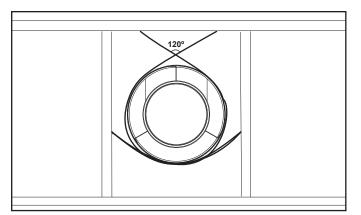


Figure 7.9 Securing Horizontal Pipe Sections

## E. 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.

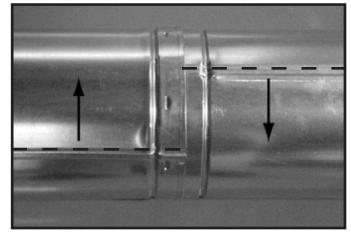


Figure 7.10 Rotate Seams for Disassembly

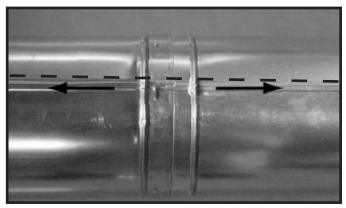


Figure 7.11 Align and Disassemble Vent Sections

## F. Vertical Termination Requirements

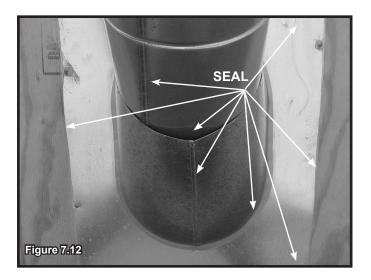
## Install and Seal Metal Roof Flashing

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

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

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

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



## Assemble and Install Storm Collar

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

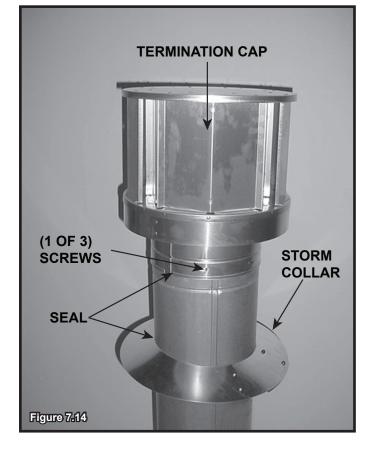
- Slide the storm collar onto the exposed pipe section and align brackets.
- Insert a bolt (provided) through the brackets and install nut. Do not completely tighten. See Figure 7.13.



- 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.
- Seal around the top of the storm collar. See Figure 7.14.

## **Install Vertical Termination Cap**

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



## G. Horizontal Termination Requirements

# Heat Shield Requirements for Horizontal Termination

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

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

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

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

- If the wall thickness is less than 4 in./102 mm (DVP) or 4-3/8 in./ 111 mm (SLP), the heat shields on the cap and wall shield firestop must be trimmed. A minimum 1-1/2 in. (38 mm) overlap MUST be maintained.
- Use an extended heat shield if the finished wall thickness is greater than 7-1/4 in. (184 mm).
- The extended heat shield may need to be cut to length maintaining sufficient length for a 1-1/2 in. (38 mm) overlap between heat shields.
- Attach the extended heat shield to either of the existing heat shields using the screws supplied with the extended heat shield. Refer to vent components 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 not be field constructed.

# Install Horizontal Termination Cap (DVP and SLP Pipe)

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

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

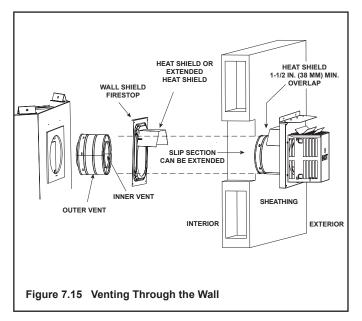
Failure to maintain overlap could cause overheating and fire.

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

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

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

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



Electrical Information

#### A. General Information

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

Incorrect wiring will damage controls.

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

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

#### **Junction Box Installation**

The junction box must be wired from the **INSIDE** of the appliance:

- Determine which side of the appliance the junction box is located on.
- Pull the electrical wires from outside the appliance through the knockout making sure to use a Romex connector to fasten the electrical wires to the unit.
- Pull enough wire into the valve compartment to easily reach the junction box location.
- Remove the screw attaching the junction box to the junction box bracket and set it aside.
- Route the wire through the knockout in the junction box bracket.
- Wire the junction box and reattach it to the bracket by inserting the tab in the slot and attaching with screw previously removed. Ensure that a Romex connector is used to attach the electrical wires to the junction box.

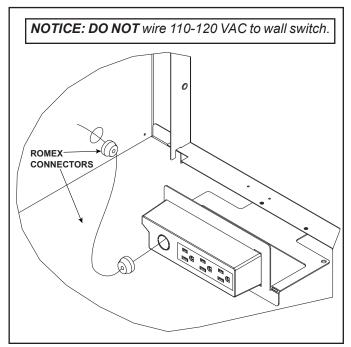


Figure 8.1 Junction Box Detail

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

## **B. Wiring Requirements**

## IntelliFire Touch<sup>®</sup> 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 Touch (IFT) Wiring Diagram.
- This appliance is equipped with an IntelliFire control valve which operates on a 6 volt system.

**NOTICE:** Batteries should only be used as a power source in the event of an emergency power outage. Batteries should not be used as a primary long-term power source. Batteries tend to corrode over time. When using batteries as a power source, the 6 volt transformer must be unplugged from the receptacle.

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

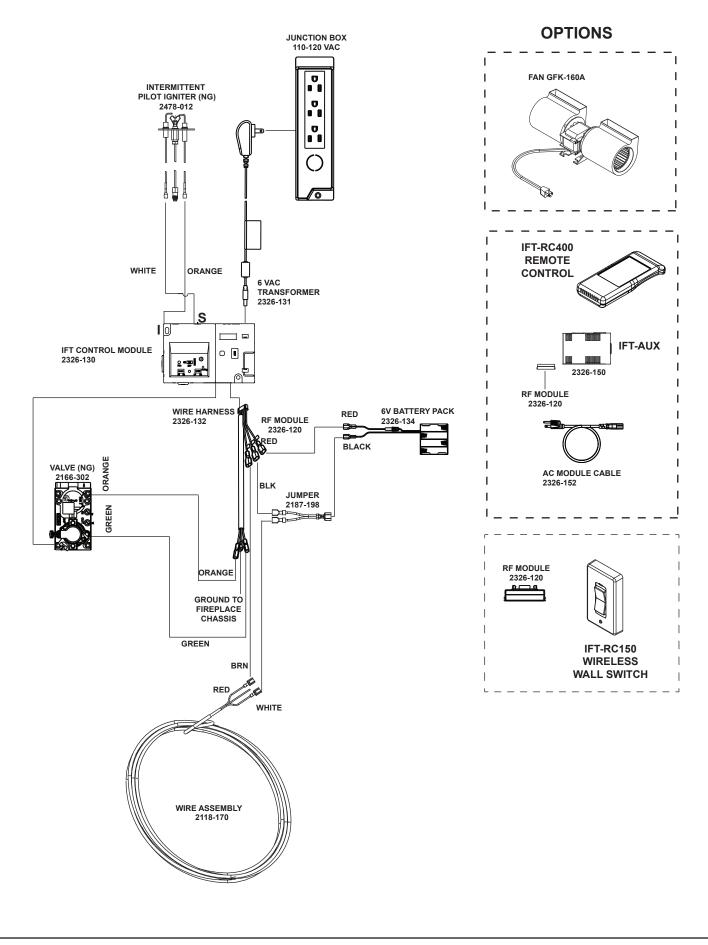


Figure 8.2 IntelliFire Touch Wiring With Wall Switch

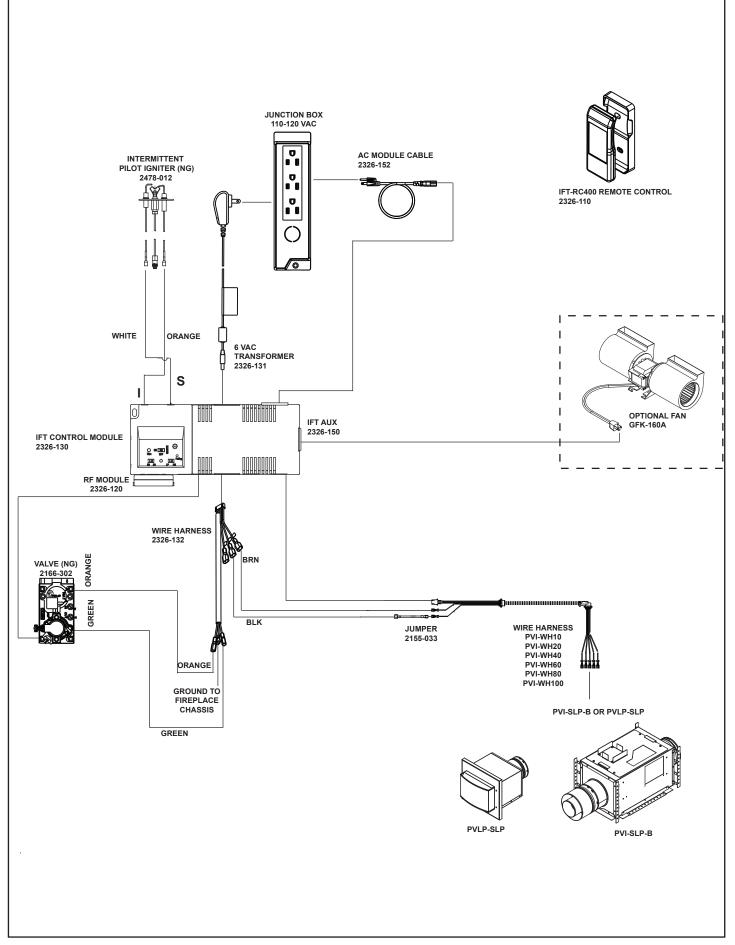


Figure 8.3 IntelliFire Touch Wiring With Optional Power Vent



## 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

Fire Risk.



## 

Risk of Fire! Risk of Explosion!

High pressure will damage valve.

- Isolate gas supply piping BEFORE pressure testing gas line.
- Close the manual shutoff valve BEFORE pressure testing gas line.
- Optimum appliance performance requires proper input pressures.
- Gas line sizing requirements will be determined in ANSI Z223.1 National Fuel Gas Code in the USA and CAN/ CGA B149 in Canada.
- Pressure requirements when in operation are:

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

- Verify inlet pressures. Verify minimum pressures when other household gas appliances are operating.
- Install regulator upstream of valve if line pressure is greater than 1/2 psig.

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

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

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

## C. Gas Connection

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

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

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

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

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

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

## 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.

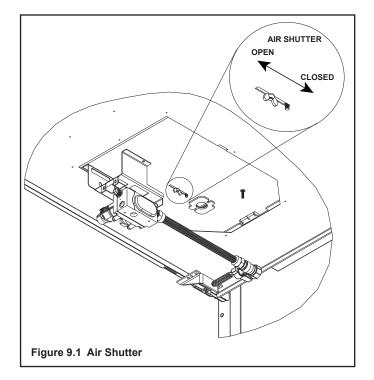
## E. Air Shutter Setting

Air shutter settings should be adjusted by a qualified service technician at the time of installation. The air shutter is set at the factory for minimum vertical vent run. Minimum vent run consists of enough horizontal vent pipe to exit 2 X 6 wall construction (approximately 8 inches). Adjust air shutter for longer vertical runs. See Figure 4.12.

- · Loosen the wing nut.
- Move the wing nut to adjust the air shutter. See Figure 9.1.
- Tighten the wing nut when adjustment is complete.

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

**Note:** Adjust air shutter after flame has reached full maturity (approximately 20-40 minutes).



#### Air Shutter Settings (Factory Set to Minimum Vent Run)

GAS TYPE	MIN. VENT RUN	MAX. VENT RUN
NG	1/8 in.	Full Open
PROPANE	Full Open	Full Open

Minimum and maximum shutter settings were determined per the vent configuration shown in Figure 4.22.

- Minimum vent run consists of enough horizontal vent pipe to exit 2 X 6 wall construction (approximately 8 inches).
- Maximum vent run consists of "H<sub>1</sub> Maximum" shown in Figure 4.22.

**Note:** All vent runs may need to be evaluated for ideal shutter settings. Shutter distances may vary due to vent run, fuel quality, and elevation.

#### **Shutter Setting Verification / Flame Appearance**

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

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



## A. Facing Material

## A WARNING

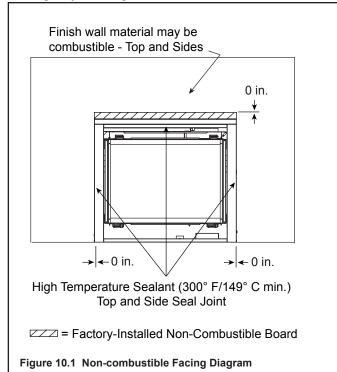
#### **Risk of Fire!**

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

- Metal front of appliance may be covered with noncombustible materials only.
- Facing and/or finishing materials must not interfere with air flow through decorative barrier fronts, removal of decorative barrier fronts or access for service.
- Facing and/or finishing materials must never overhang into the glass opening.
- Observe all clearances when applying combustible materials.
- Seal gaps between the finished wall and appliance top and sides using a 300 °F minimum sealant. Refer to Figure 10.1 and Figure 10.2.

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

If using vinyl flooring, refer to Section 3.E.



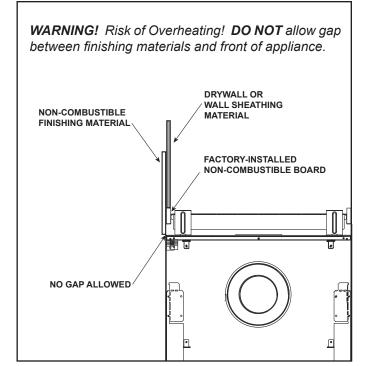


Figure 10.2 Finishing Material Installed

## B. Installing a Television

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

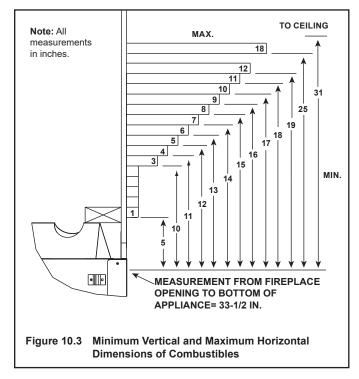
## C. Mantel and Wall Projections

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

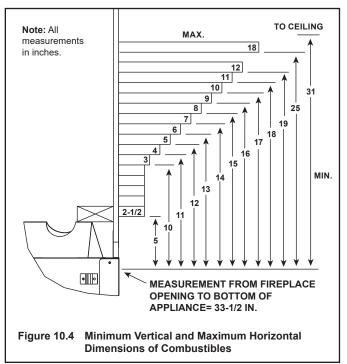
- Framing closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).
- No gaps allowed between the wall and the bottom of the mantel.
- Combustible mantel legs and wall projections may be applied over the non-combustible board supplied with the appliance. Follow guidelines as shown in the figures below for mantels, mantel legs and wall projections.

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

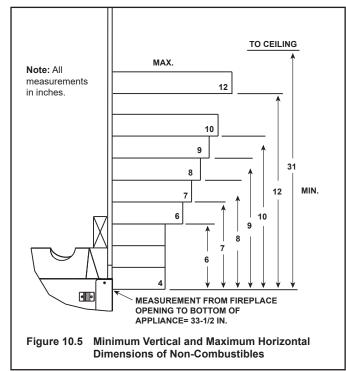
## Combustible Mantels PIER-DV36IN Combustible Mantel



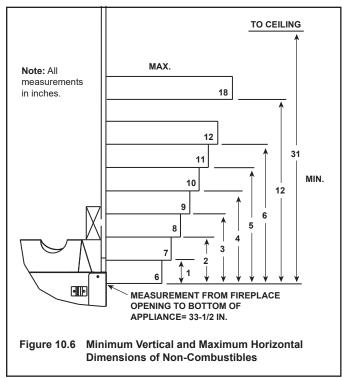
#### **ST-DV36IN** Combustible Mantel



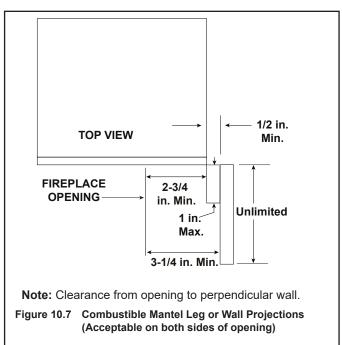
## Non-Combustible Mantels PIER-DV36IN Non-Combustible Mantel

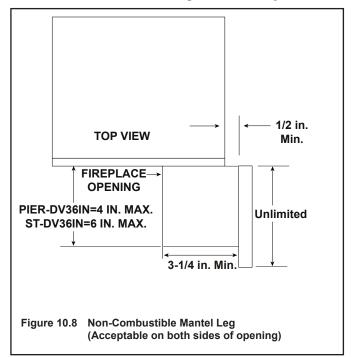


#### ST-DV36IN Non-Combustible Mantel



## **Combustible Mantel Legs or Wall Projections**





#### Non-Combustible Mantel Legs or Wall Projections

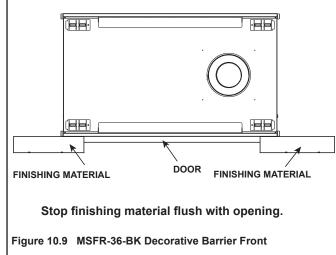
## D. Decorative Barrier Front Dimensions for Finishing

The MSFR-36-BK decorative barrier front is certified for use with the ST-DV36IN and PIER-DV36IN. The MSEP-36-BK end panel is approved for use with the PIER-DV36IN. Only decorative barrier fronts certified for use with these appliance models may be used. The MSFR-36-BK and MSEP-36-BK are inside fit fronts.

## Decorative Barrier Front MSFR-36-BK (ST-DV36IN / PIERDV36IN)

See Figure 10.9.

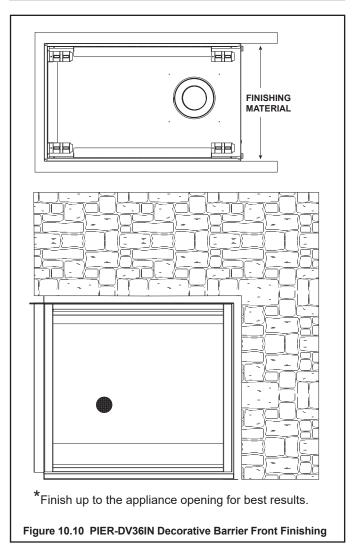
MODEL	FIT	FINISH MATERIAL MAXIMUM THICKNESS	SEE FIGURE
PIER-DV36IN	Inside	4 IN.	10.8
ST-DV36IN	Inside	6 IN.	10.8



## Decorative Barrier End Panel MSEP-36-BK (PIER-DV36IN Only)

See Figure 10.10.

MODEL	FIT	FINISH MATERIAL MAXIMUM THICKNESS	SEE FIGURE
PIER-DV36IN	Inside	4 IN.	10.9





#### A. Remove the Shipping Materials

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

Remove shipping materials from inside or underneath the firebox.

 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 decorative barrier front of the appliance, depending on the fireplace model. Splatter guards must be removed before appliance is fired.

For instructions on removing and replacing the fixed glass assembly, see Section 11.F.

## B. Clean the Appliance

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

## C. Install the Refractory (Optional)

Optional glass or brick refractory kits are available for use with these models. Install the glass refractory per instructions included with the kit.

## D. Glowing Ember and Lava Rock Placement

Place glowing embers as shown in Figure 11.1.

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.

#### **Placing the Ember Material**

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

- Embers may only be placed in areas as shown in Figure 11.1. Care should be taken not to cover the lighting trail of ports near pilot assembly as shown in Figure 11.1.
- When placing Glowing Embers® onto the burner care should be taken so that the ports are not covered. Place the dime-size ember pieces. See Figure 11.1. Failure to follow this procedure will likely cause lighting and sooting problems.
- Place Lava Rock on areas of base pan away from the burner as shown in Figure 11.2. Do not place lava rock on burner. Use this material to give the appliance a realistic ash bed.
- Save the remaining ember materials for use during appliance servicing. The embers provided should be enough for 3 to 5 applications.

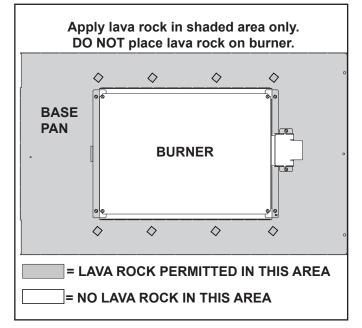
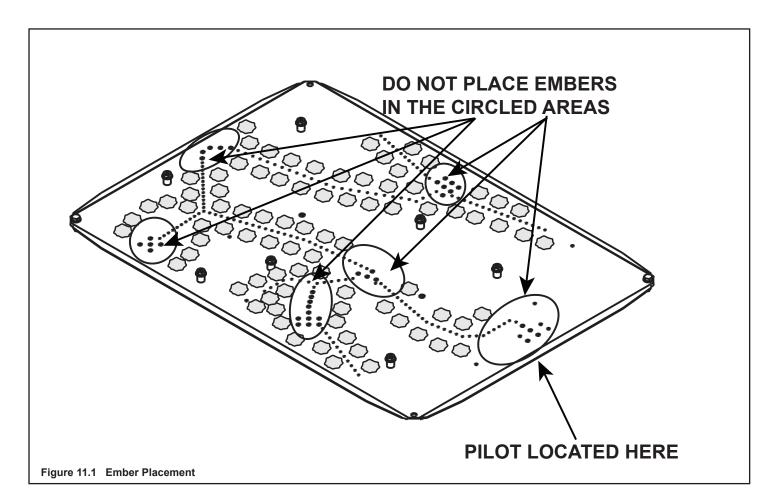


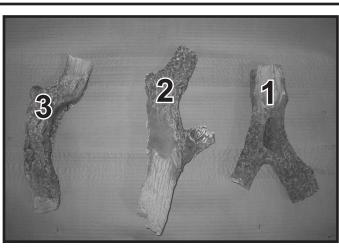
Figure 11.2 Placement of Lava Rock



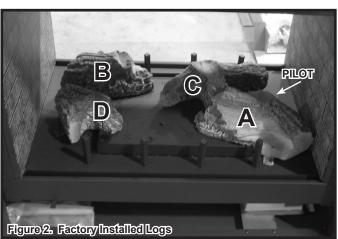
## LOG PLACEMENT INSTRUCTIONS

## E. Install the Log Assembly LOG PLACEN Log Set Assembly: LOGS-2128 Models: ST-36TRB-IPI, PIER-36TRB-IPI ST-36TVB-IPI, LCOR-36TRB-IPI, RCOR-36TRB-IPI ST-36TRB-IFT, PIER-36TRB-IFT, ST-DV36IN, PIER-DV36IN

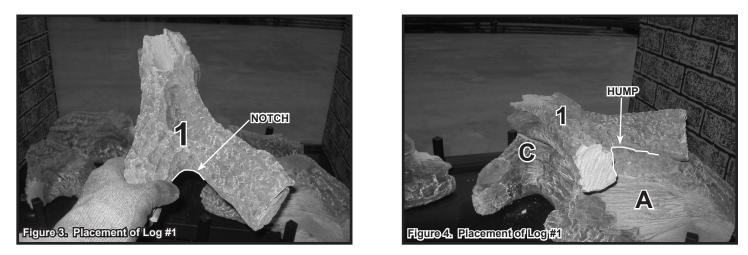
**CAUTION: DO NOT reposition logs that have been factory installed!** Follow these instructions to position the logs that were packaged separately.



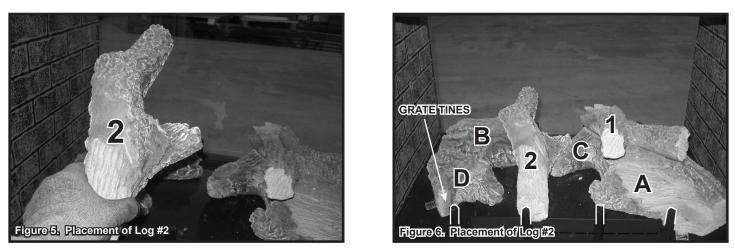




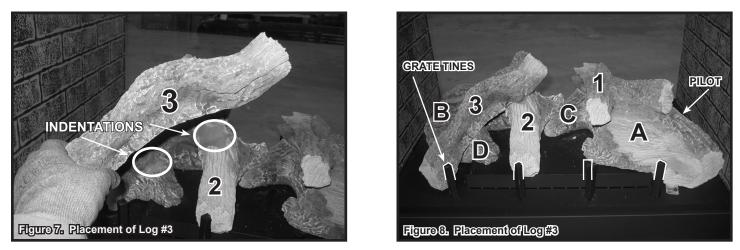
**STEP 1.** *CAUTION! Logs are fragile!* Carefully remove the logs and cardboard tray from the inside of the fireplace. See Figure 1. Remove the microfoam and inspect the logs for damage. Inspect the four factory installed logs for damage. Locate the pilot in order to verify your position in relation to the appliance. See Figure 2.



**STEP 2.** Log #1 (SRV2128-704): Mate the notch on the end of log # 1 with the hump on top of log A. Set the other end of Log #1 onto the smooth area on top of Log C.



**STEP 3.** Log #2 (SRV2128-705): The Y-shaped end of log #2 should rest on log B and log C. The other end should come in contact with the second grate tine from the left. Mate the bottom of log # 2 with the notches on top of log B and the smooth area on top of the end of log C.



**STEP 4.** Log #3 (SRV2128-707): The bottom end of log #3 should come in contact with the far left grate tine. Mate the bottom of log # 3 with the indentations on Log D and the top of Log #2.

2128-935C

## F. IntelliFire Touch® Control System Setup

- Detailed instructions for electrical wiring and connections are provided in Section 8.
- Determine if this appliance is equipped with a Module Reset Switch. See Section 8. Verify this switch is in the ON position.
- Verify that the 3-Position switch on the IFT-ECM is switched to the REMOTE position. Detailed Operating Instructions for the IFT-ECM are provided in Section 3.K of the Owner's Manual.

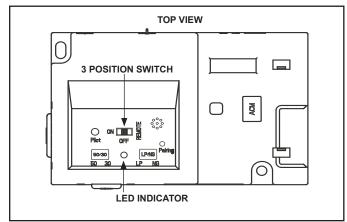


Figure 11.3 IFT-ECM

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

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

## G. Install 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.

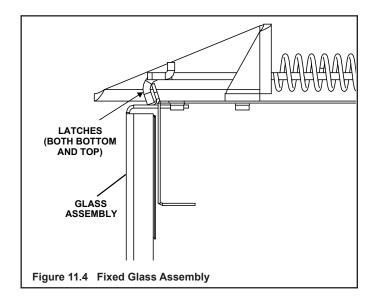
- DO NOT strike, slam or scratch glass.
- **DO NOT** operate fireplace with glass removed, cracked, broken or scratched.
- Replace as a complete assembly.
- Replace the glass assembly on the appliance.
- Pull out the four glass latches and place in the grooves on the glass frame top and bottom.
- · Make sure all sides are replaced properly.

#### **Removing Fixed Glass Assembly**

- Pull the four glass latches out of the grooves on the glass frame top and bottom.
- Remove the glass assembly from the appliance.
- Multiple sides may be able to be removed based upon model.

#### **Replacing Fixed Glass Assembly**

- · Replace the glass assembly on the appliance.
- Pull out the four glass latches and place in the grooves on the glass frame top and bottom.
- Make sure all sides are replaced properly.



## H. Install Decorative Barrier Front

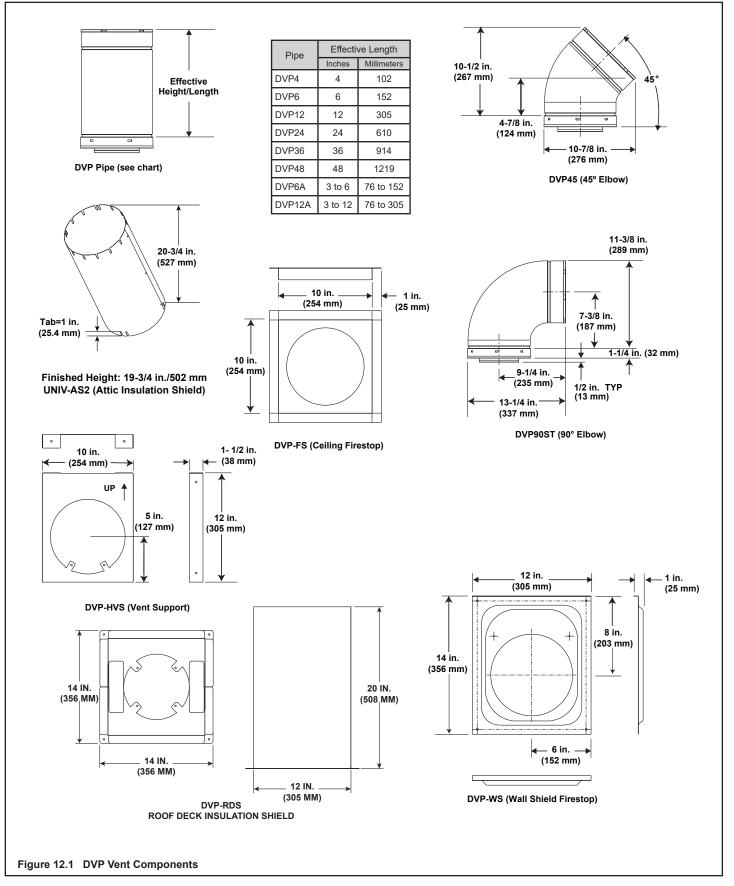
**WARNING! Risk of Fire!** Install ONLY decorative barrier fronts approved by Hearth & Home Technologies. Unapproved decorative barrier fronts could cause fireplace to overheat.

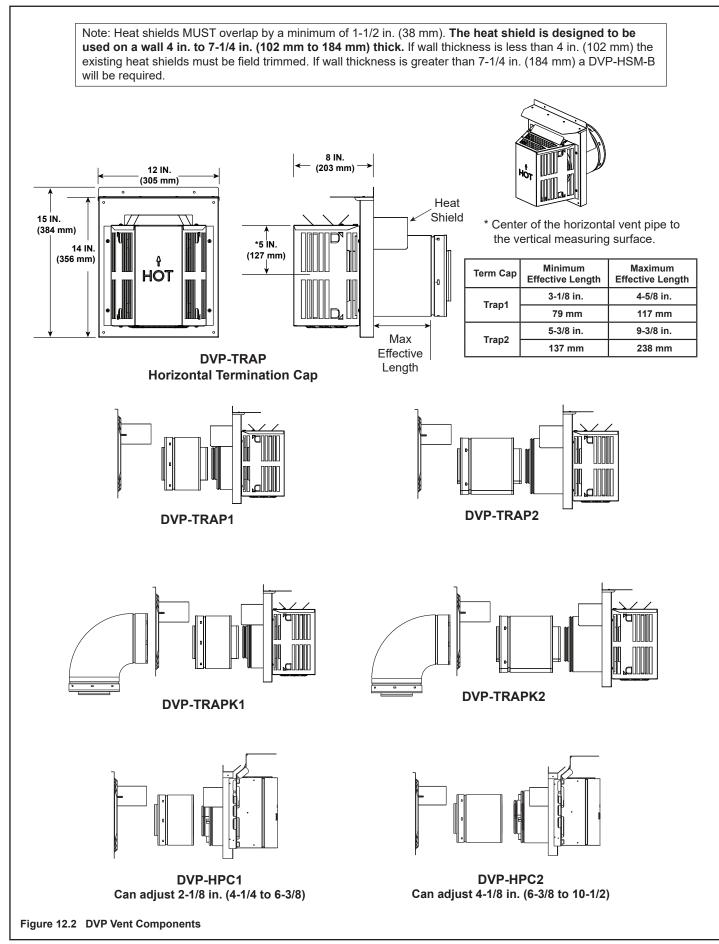
IMPORTANT! This fireplace requires an installed decorative barrier front to prevent direct contact with the hot viewing glass. DO NOT operate the fireplace with the barrier removed.

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

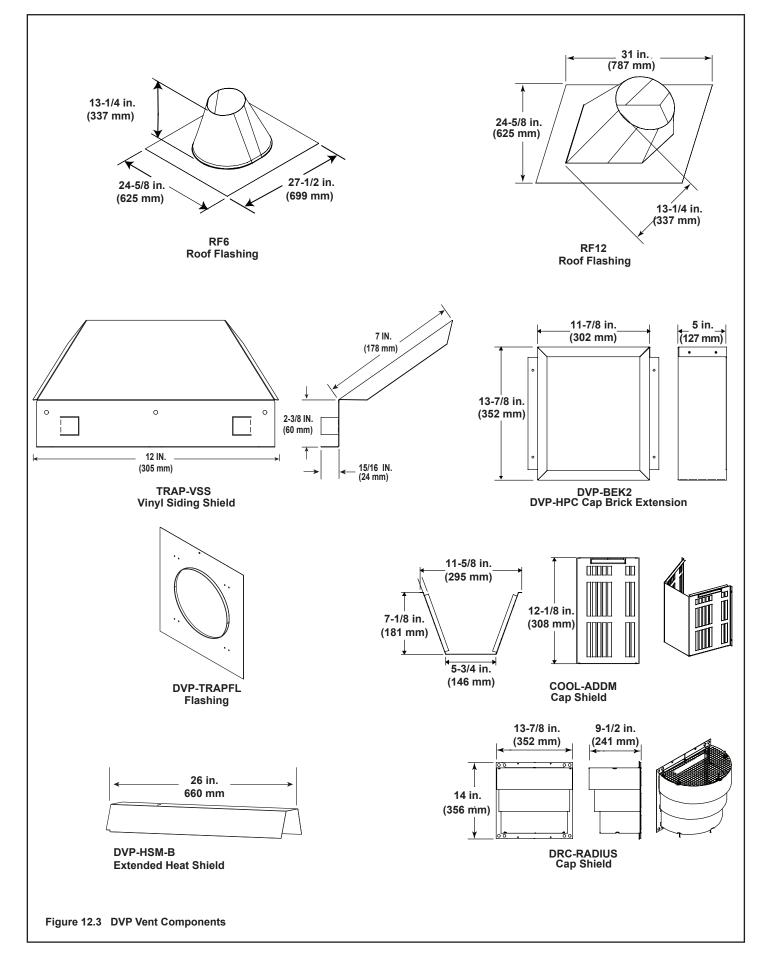
For more information refer to the instructions supplied with your decorative barrier front.

## A. Vent Components Diagrams

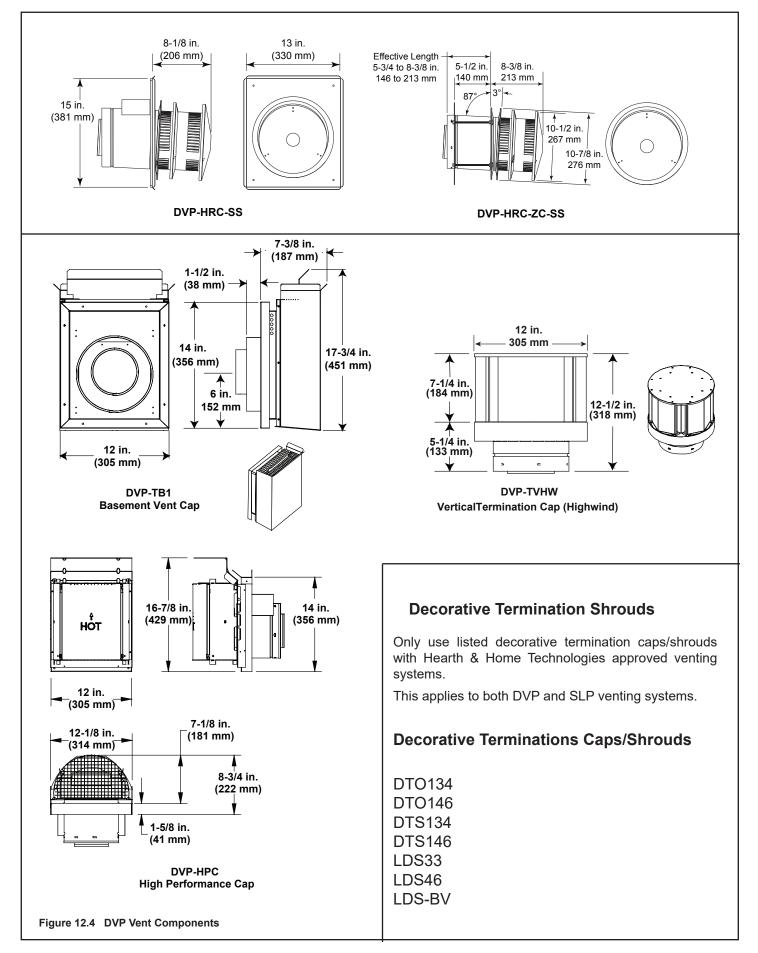


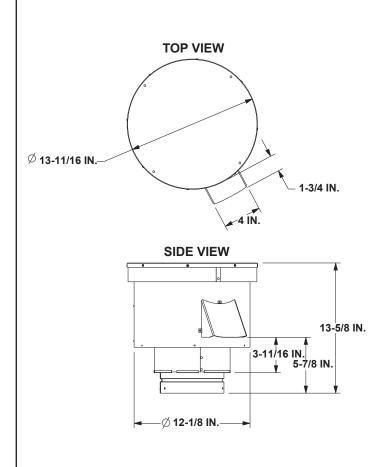






## A. Vent Components Diagrams (continued)





Optional Wire Harness	
DESCRIPTION	PART NUMBER
10 FT PV Wire Harness	PVI-WH10
20 FT PV Wire Harness	PVI-WH20
40 FT PV Wire Harness	PVI-WH40
60 FT PV Wire Harness	PVI-WH60
80 FT PV Wire Harness	PVI-WH80
100 FT PV Wire Harness	PVI-WH100

PVV-SLP Vertical Power Vent

**Note:** A wire harness is required to power the PVV-SLP and connect it to the appliance. It is ordered separately from the PVV-SLP. Contact your dealer to order.

**Note:** The PVV-SLEEVE-12 and/or PVV-SLEEVE-48 is required to be installed with the PVV-SLP. It is ordered separately from the PVV-SLP. Contact your dealer to order.

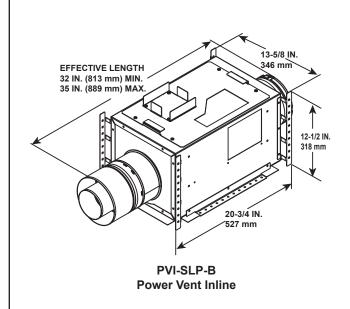
Note: The PVV-SLP requires one of the following options to be installed on this appliance.

Option A: IFT-RC400 and/or IFT-WFM, IFT-ACM and IntelliFire App that can be downloaded from the app store. **OR** 

Option B: IFT-RC150, IFT-ACM, IFT-WFM and an IntelliFire App that can be downloaded from the app store. These accessories are purchased separately from the PVV-SLP. Contact your dealer to order.

Figure 12.5 PVV-SLP Vent Components

## A. Vent Components Diagrams (continued)



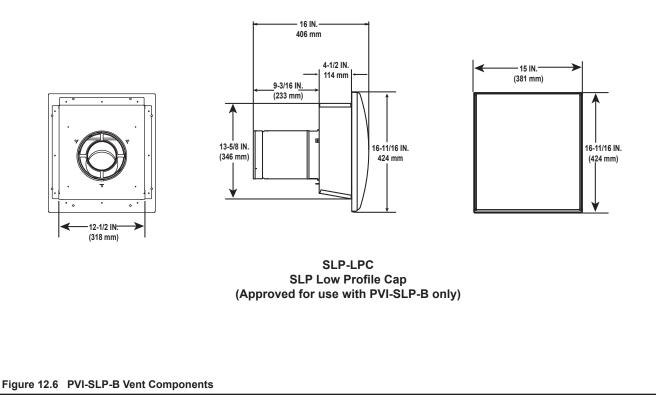
Optional Wire Harness	
DESCRIPTION	PART NUMBER
10 FT PV Wire Harness	PVI-WH10
20 FT PV Wire Harness	PVI-WH20
40 FT PV Wire Harness	PVI-WH40
60 FT PV Wire Harness	PVI-WH60
80 FT PV Wire Harness	PVI-WH80
100 FT PV Wire Harness	PVI-WH100

**Note:** Wire harnesses required to power the PVI-SLP-B connect to the appliance and are ordered separately from PVI-SLP-B. Contact your dealer to order.

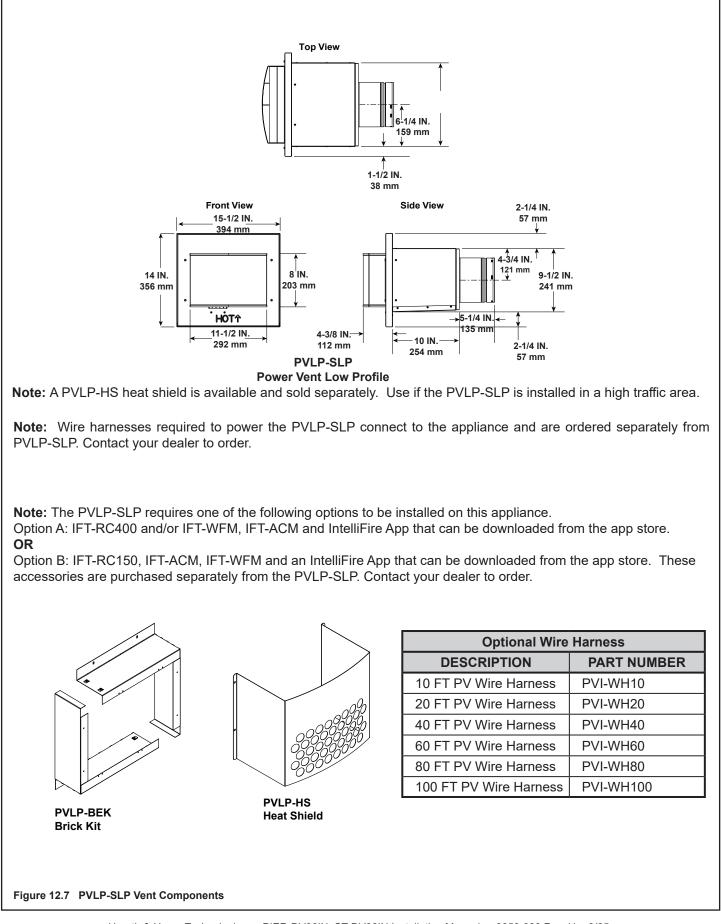
Note: The PVI-SLP-B requires one of the following options to be installed on this appliance.

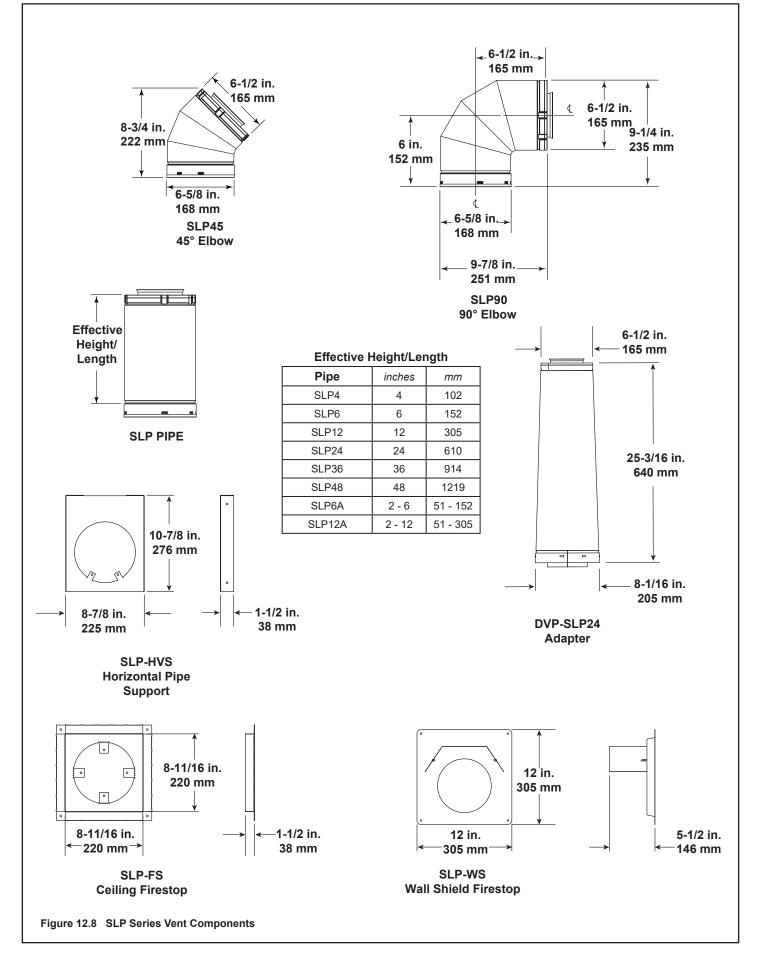
Option A: IFT-RC400 and/or IFT-WFM, IFT-ACM and IntelliFire App that can be downloaded from the app store. **OR** 

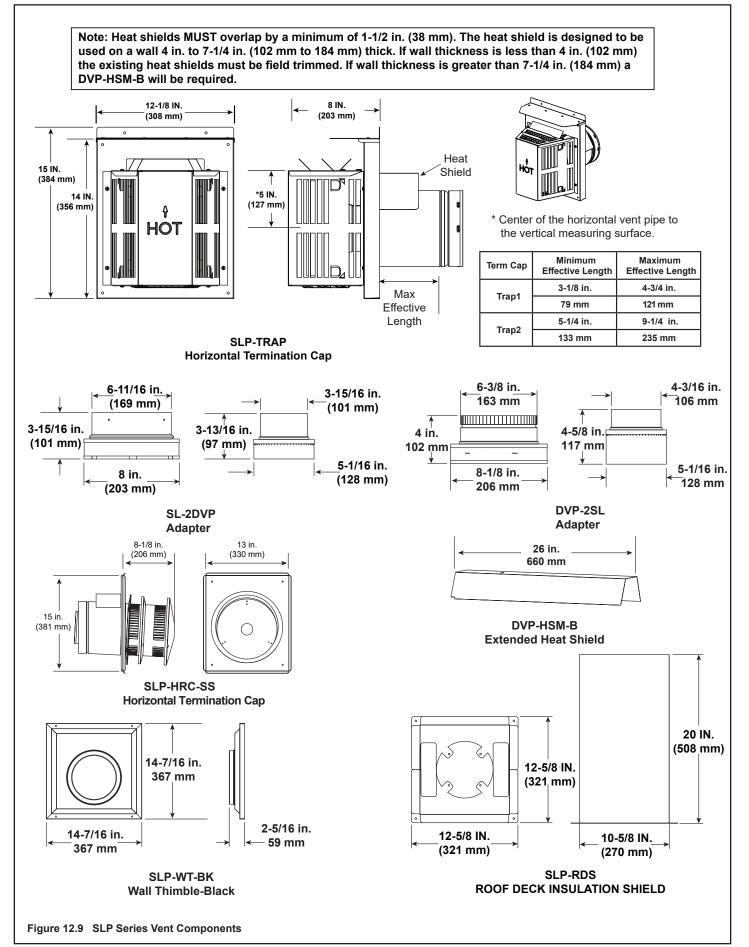
Option B: IFT-RC150, IFT-ACM, IFT-WFM and an IntelliFire App that can be downloaded from the app store. These accessories are purchased separately from the PVI-SLP-B. Contact your dealer to order.



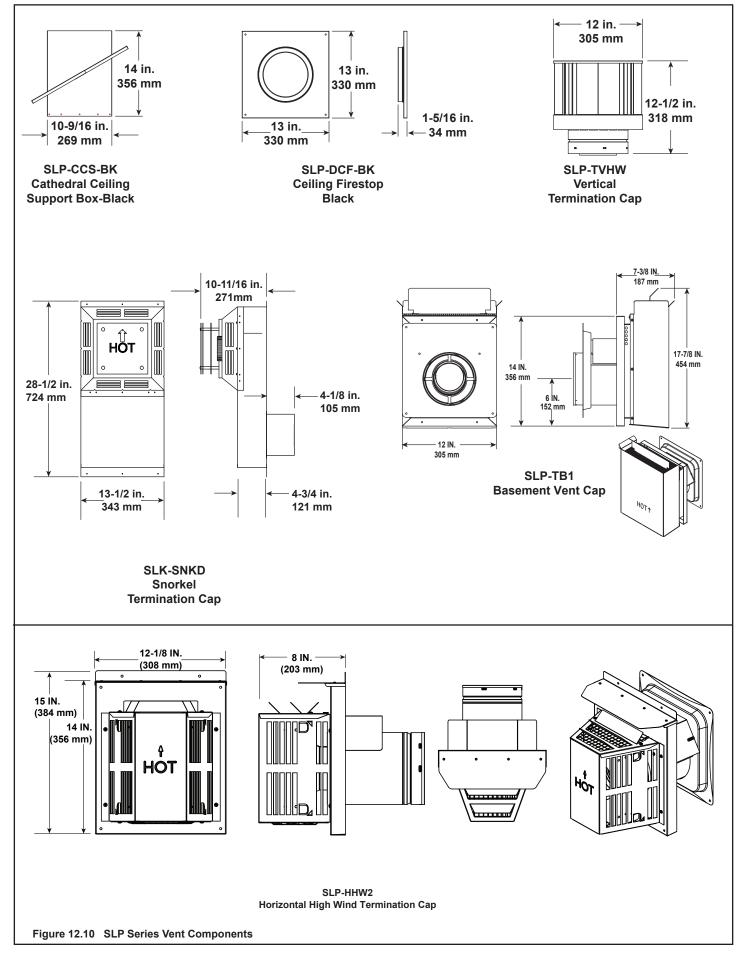








## A. Vent Components Diagrams (continued)



#### **B.** Accessories

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

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

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

### **Options:**

Remote Controls, Wall	Controls and Wall Switches	
IFT-RC150-HNG	IntelliFire Touch wireless wall switch	
IFT-RC400	IntelliFire Touch remote control, docking station and auxiliary control module	
IntelliFire Wi-Fi module	IntelliFire Wi-Fi module with IntelliFire App	
IFT-WFM		
Refractory Kit		
LINER-36ST	Glass Liner Kit - See Through	
LINER-36PIER	Glass Liner Kit - Pier	
WTB36-ST	Weathered Brown Refractory Kit - See Through	
WTB36-PR	Weathered Brown Refractory Kit - See Through	
Fan		
GFK-160A	Fan Kit	
Modern Conversion Kit		
STPR-MOD-KIT	Modern Conversion Kit	

Hearth & Home Technologies 7571 215<sup>th</sup> 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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