# Installation Manual
## Installation and Appliance Setup

*CAUTION! Risk of Fire! DO NOT* store instruction manuals inside appliance 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.**

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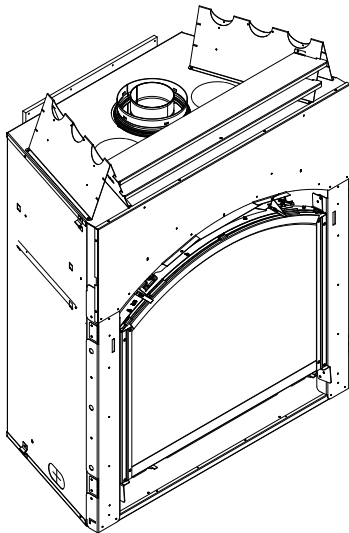*NOTICE: DO NOT discard this manual!*

## HEAT&GLO®
No one builds a better fire

## Model(s):

### CERONA-36-IFT
### CERONA-42-IFT

GAS-FIRED
C (UL) US
LISTED



This appliance may be installed as an OEM installation in manufactured home (USA only) or mobile home and must be installed in accordance with the manufacturer's instructions and the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280* in the United States, or the *Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series,* in Canada.

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

Pour demander un exemplaire en français de ce manuel d'installation, visitez www.heatnglo.com.

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⚠ **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.

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⚠ **DANGER**



**HOT GLASS** WILL CAUSE BURNS.

**DO NOT TOUCH** GLASS UNTIL COOLED.

**NEVER** ALLOW CHILDREN TO TOUCH GLASS.

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

Decorative barrier front must be ordered separately.

## ⚠ Safety Alert Key:

- **DANGER!** *Indicates a hazardous situation which, if not avoided <u>will</u> result in death or serious injury.*
- **WARNING!** *Indicates a hazardous situation which, if not avoided <u>could</u> 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®.*

# Table of Contents

➔ = Contains updated information.

**Installation Standard Work Checklist**

# ATTENTION INSTALLER:
## *Follow this Standard Work Checklist*

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

| | |
|---|---|
| Customer: _____ | Date Installed: _____ |
| Lot/Address: _____ | Location of Fireplace: _____ |
| _____ | Installer: _____ |
| **Model (circle one): CERONA-36-IFT** | **Dealer/Distributor Phone #** _____ |
| **CERONA-42-IFT** | Serial #: _____ |

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

| | YES | IF NO, WHY? |
|---|:---:|---|
| **Appliance Install** | | |
| Verified that the chase is insulated and sealed. (Pg 15) | ☐ | _____ |
| Required non-combustible board is installed.   (Pg 29) | ☐ | _____ |
| Verified clearances to combustibles. (Pg 10-11) | ☐ | _____ |
| Appliance is leveled and secured. (Pg 28) | ☐ | _____ |
| **Venting/Chimney  Section 7 (Pg 31-35)** | | |
| Venting configuration complies to vent diagrams. | ☐ | _____ |
| Venting installed, locked and secured in place with proper clearance. (May need to order separately.) | ☐ | _____ |
| Firestops installed. | ☐ | _____ |
| Attic insulation shield installed. | ☐ | _____ |
| Exterior wall/Roof flashing installed and sealed. | ☐ | _____ |
| Terminations installed and sealed. | ☐ | _____ |
| **Electrical  Section 8 (Pg 36-38)** | | |
| Unswitched power (110-120 VAC) provided to the appliance. | ☐ | _____ |
| Switch wires properly installed. | ☐ | _____ |
| **Gas  Section 9 (Pg 39-40)** | | |
| Proper appliance for fuel type. | ☐ | _____ |
| Was a conversion performed? | ☐ | _____ |
| Leak check performed and inlet pressure verified. | ☐ | _____ |
| Verified proper air shutter setting for installation type. | ☐ | _____ |
| **Finishing  Section 10 (Pg 41-46)** | | |
| Combustible materials not installed in non-combustible areas. | ☐ | _____ |
| Verified all clearances meet installation manual requirements. | ☐ | _____ |
| Mantels and wall projections comply with installation manual requirements. | ☐ | _____ |
| **Appliance Setup  Section 11 (Pg 47-52)** | | |
| All packaging and protective materials removed (inside & outside of appliance). | ☐ | _____ |
| Refractories, logs, media and embers installed correctly. | ☐ | _____ |
| Glass assembly installed and secured. | ☐ | _____ |
| Accessories installed properly. | ☐ | _____ |
| Mesh, decorative barrier front, or decorative front properly installed. (May need to order separately.) | ☐ | _____ |
| Manual bag and all of its contents are removed from inside/under the appliance and given to party responsible for use and operation. | ☐ | _____ |
| Started appliance and verified no gas leaks exist. | ☐ | _____ |

**Hearth & Home Technologies recommends the following:**
• Photographing the installation and copying this checklist for your file.
• That this checklist remain visible at all times on the appliance until the installation is complete.

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

_____

_____

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

➔ = Contains updated information.

2558-982C  8/23

# 1 Product Specific and Important Safety Information

## A. Appliance Certification

MODELS: CERONA-36-IFT, CERONA-42-IFT

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

This appliance is equipped with 5 mm ceramic glass with an anti-reflective coating. Replace glass only with 5 mm ceramic glass. Please contact your dealer for replacement glass.

## C. BTU Specifications

| Model (U.S. or Canada) | | Maximum Input BTU/h | Minimum Input BTU/h | Orifice Size (DMS) |
|---|---|---|---|---|
| CERONA-36-IFT (NG) | (0-2000 FT) | 36,000 | 20,000 | 32 |
| CERONA-42-IFT (NG) | (0-2000 FT) | 48,000 | 25,000 | 29 |
| CERONA-36-IFT (PROPANE) | (0-2000 FT) | 35,000 | 19,000 | 50 |
| CERONA-42-IFT (PROPANE) | (0-2000 FT) | 38,000 | 22,000 | 48 |

## D. High Altitude Installations

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

When installing above 2000 feet elevation:

• In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.

• In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m) above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).

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

## E. Non-Combustible Materials Specification

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

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

## F. Combustible Materials Specification

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

## G. Electrical Codes

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

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

## H. California

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

# I. Requirements for the Commonwealth of Massachusetts

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

## Installation of Carbon Monoxide Detectors

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

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

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

## Approved Carbon Monoxide Detectors

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

## Signage

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

## Inspection

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

## Exemptions

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

- The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and

- Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

## MANUFACTURER REQUIREMENTS

### Gas Equipment Venting System Provided

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

- Detailed instructions for the installation of the venting system design or the venting system components; and

- A complete parts list for the venting system design or venting system.

### Gas Equipment Venting System <u>NOT</u> Provided

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

- The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and

- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

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

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

# 2 Getting Started

## A. Design and Installation Considerations

*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.

• Provisions for optional heat management system.

• Electrical wiring requirements.

• Framing and finishing details.

• Whether optional accessories—devices such as a fan, wall switch, or remote control—are desired.

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

hearthED FACTORY TRAINING *Fuel Your Fire*

NFI NATIONAL FIREPLACE INSTITUTE A CERTIFICATION AGENCY

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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.

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## B. Good Faith Wall Surface



**Figure 2.1  Good Faith Wall Surface Temperatures Above Appliance**



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

If installing a television (TV) above the appliance, see Section 3 of the appliance Owner's Manual.

*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.*

## C. Tools and Supplies Needed

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

| Hand Tools | Tape measure |
|---|---|
| Level | Framing material |
| Manometer | Framing square |
| Voltmeter | Electric drill and bits (1/4 in.) |
| Plumb line | Safety glasses/Gloves |
| Wrenches | Reciprocating saw |

1/4 in. nut driver

Non-corrosive leak check solution

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

Caulking material (300 ºF minimum continuous exposure rating)

## D. Inspect Appliance and Components

***WARNING! Risk of Fire or Explosion!*** *Damaged parts could impair safe operation.* ***DO NOT i****nstall 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.
- This product is factory-equipped with an IntelliFire Touch® remote control, which was paired to the appliance at the factory. This specific remote control needs to remain with the contents of the manual bag. Do not install batteries in the remote control until performing the final appliance setup and checklist.

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

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

# 3 Framing and Clearances

## A. Appliance/Decorative Front Dimension Diagrams

Dimensions are actual appliance dimensions. Use for reference only. For framing dimensions and clearances refer to Sections 3 and 5.



**Model: CERONA-36-IFT**

| | Inches | Millimeter | | Inches | Millimeter |
|---|---|---|---|---|---|
| A | 7 | 178 | K | 5-1/8 | 130 |
| B | 2-1/8 | 54 | L | 65-1/2 | 1664 |
| C | 43 | 1092 | M | 41-1/8 | 1046 |
| D | 23-1/2 | 597 | N | 21-3/4 | 551 |
| E | 30-1/4 | 767 | O | 28-1/2 | 724 |
| F | 33-7/8 | 860 | P | 14-1/4 | 362 |
| G | 6-5/8 | 169 | Q | 12-1/2 | 316 |
| H | 34-1/2 | 877 | R | 8 | 204 |
| I | 49-7/8 | 1268 | S | 9-1/8 | 232 |
| J | 2-1/4 | 56 | T | 6-1/4 | 159 |

**Model: CERONA-42-IFT**

| | Inches | Millimeter | | Inches | Millimeter |
|---|---|---|---|---|---|
| A | 9-1/4 | 235 | K | 5-3/8 | 137 |
| B | 2-1/4 | 56 | L | 70 | 1778 |
| C | 47-1/8 | 1196 | M | 48-1/8 | 1223 |
| D | 27-3/4 | 704 | N | 21-3/4 | 551 |
| E | 35-7/8 | 912 | O | 35-3/8 | 900 |
| F | 39-1/2 | 1003 | P | 17-3/4 | 450 |
| G | 6-3/4 | 170 | Q | 12-5/8 | 319 |
| H | 38-5/8 | 981 | R | 8 | 204 |
| I | 54 | 1372 | S | 9-1/8 | 232 |
| J | 2-1/4 | 57 | T | 7-3/4 | 197 |

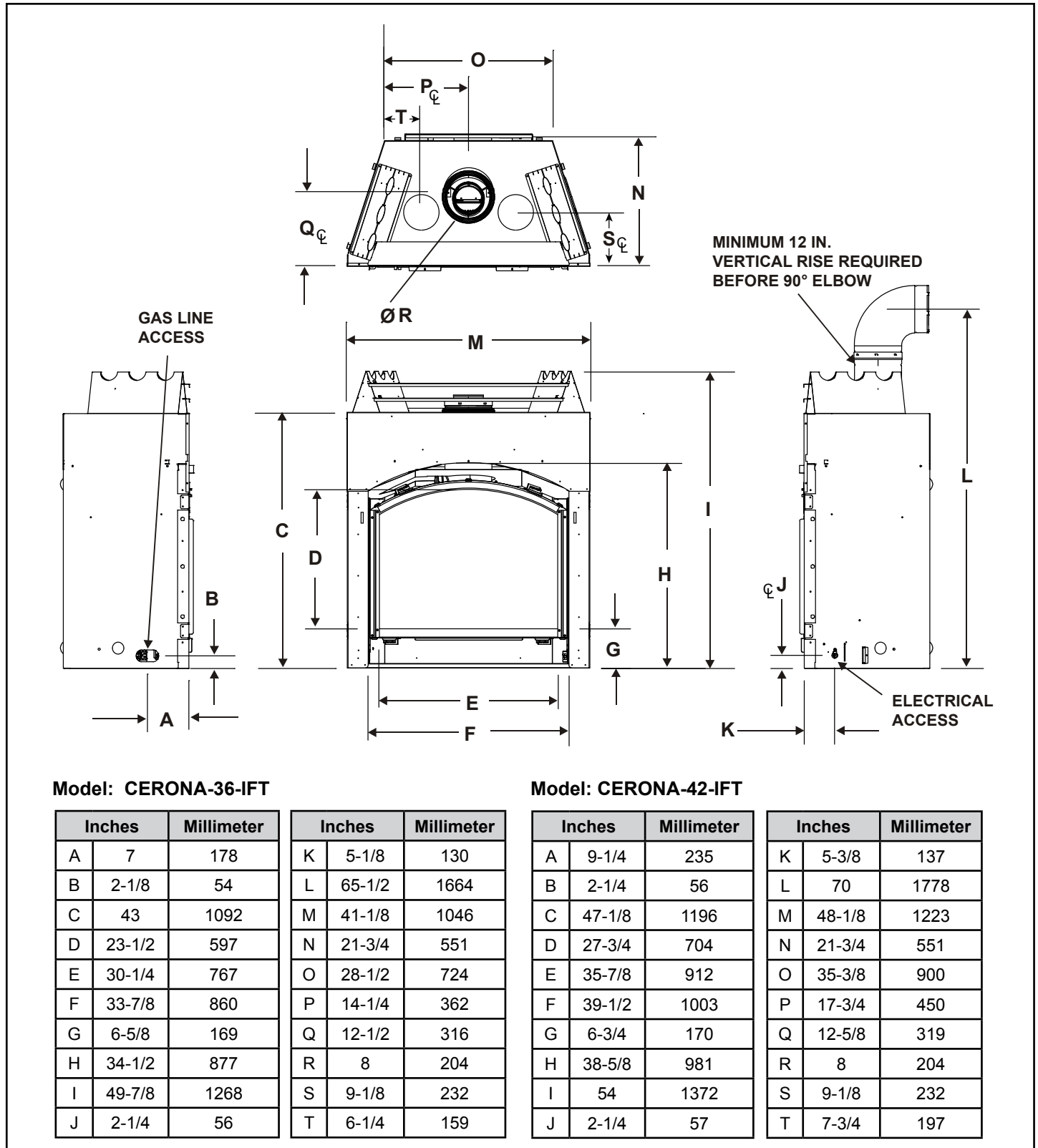**Figure 3.1  Appliance Dimensions**

# FIRESCREEN FRONT (FS-C36, FS-C42)

## CERONA-36-IFT



34-1/4 IN. (870 mm)
28-11/16 IN. (729 mm)
30-7/8 IN. (784 mm)
2-13/16 IN. (71 mm)
1-1/8 IN. (29 mm)
34-1/8 IN. (867 mm)
37-1/2 IN. (953 mm)

## CERONA-42-IFT



38-5/8 IN. (981 mm)
32-7/16 IN. (824 mm)
35-1/4 IN. (895 mm)
2-13/16 IN. (71 mm)
1-1/8 IN. (29 mm)
39-3/4 IN. (1010 mm)
43-1/8 IN. (1095 mm)

# IRON AGE DECORATIVE FRONT (IA-C36, IA-C42)

## CERONA-36-IFT



34-1/4 IN. (870 mm)
28-11/16 IN. (729 mm)
30-1/2 IN. (775 mm)
2-13/16 IN. (71 mm)
1-1/8 IN. (29 mm)
33-3/4 IN. (857 mm)
37-1/2 IN. (953 mm)

## CERONA-42-IFT



38-5/8 IN. (981 mm)
32-3/16 IN (818 mm)
34-7/8 IN. (886 mm)
3 IN. (76 mm)
1-1/8 IN. (29 mm)
39-3/8 IN. (1000 mm)
43-1/8 IN. (1095 mm)

# CHATEAU FORGE DECORATIVE FRONT (CHAF-C36, CHAF-C42)

## CERONA-36-IFT



34-1/4 IN. (870 mm)
28-11/16 IN (729 mm)
30-1/4 IN. (768 mm)
3-1/8 IN. (79 mm)
1-1/8 IN. (29 mm)
33-1/2 IN. (851 mm)
37-1/2 IN. (953 mm)

## CERONA-42-IFT



38-5/8 IN. (981 mm)
32-3/16 IN. (818 mm)
34-5/8 IN. (879 mm)
3-1/8 IN. (79 mm)
1-1/8 IN. (29 mm)
39-1/8 IN. (994 mm)
43-1/8 IN. (1095 mm)

**Figure 3.2  Decorative Front Dimensions**

# B. Appliance Location and Clearances to Combustibles

When selecting a location for the appliance it is important to consider the required clearances to walls and allow sufficient clearance for heat management systems venting. See Figure 3.3.

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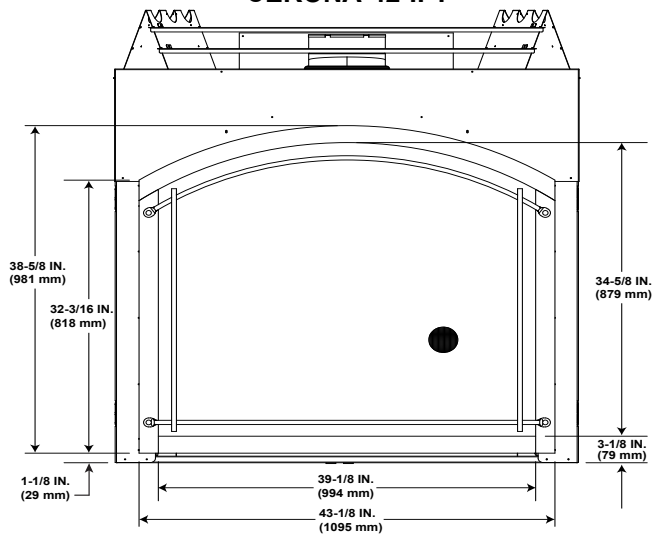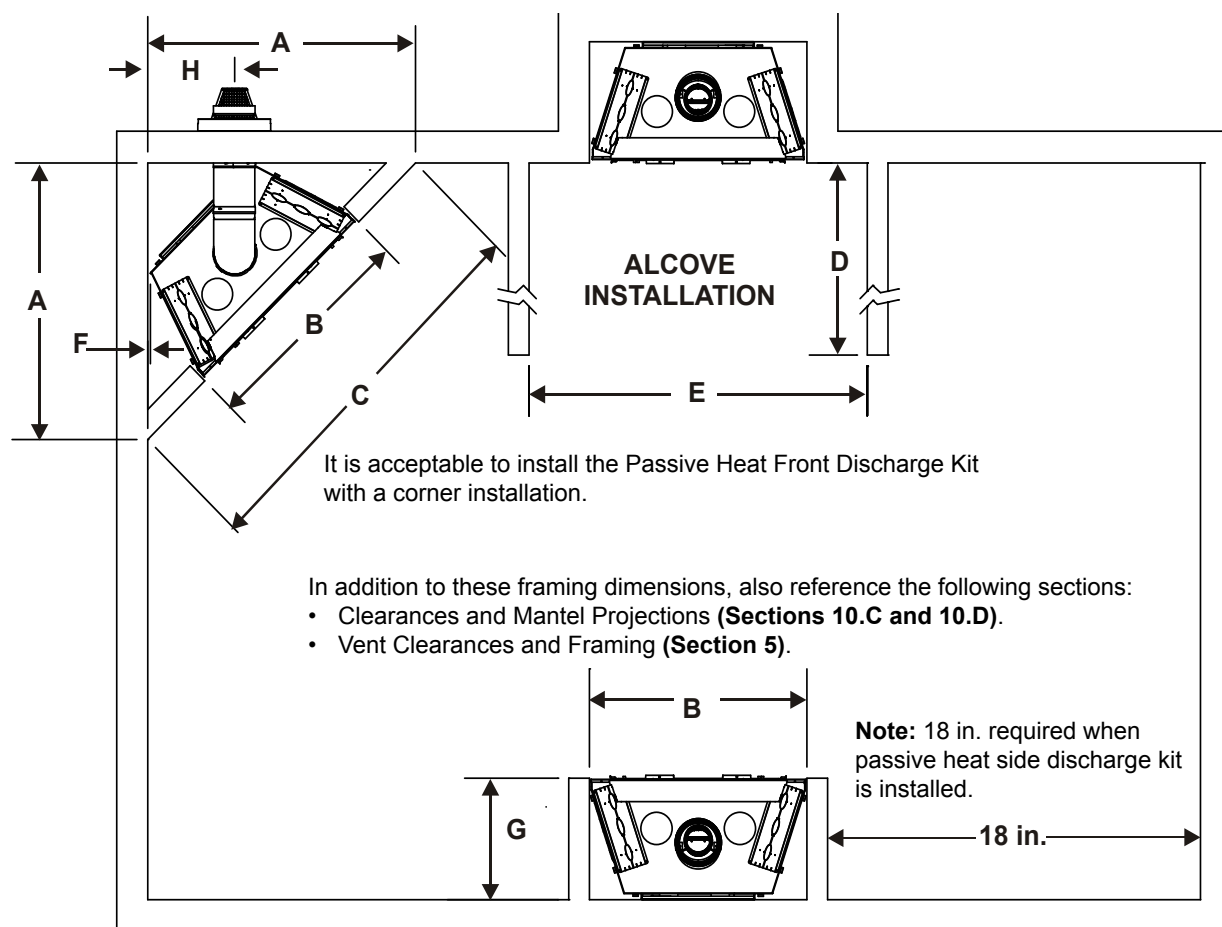
*NOTICE: Illustrations reflect typical installations and are FOR DESIGN PURPOSES ONLY. Illustrations/diagrams are not drawn to scale. Actual installation may vary due to individual design preference.*



ALCOVE INSTALLATION

It is acceptable to install the Passive Heat Front Discharge Kit with a corner installation.

In addition to these framing dimensions, also reference the following sections:
• Clearances and Mantel Projections **(Sections 10.C and 10.D)**.
• Vent Clearances and Framing **(Section 5)**.

**Note:** 18 in. required when passive heat side discharge kit is installed.

18 in.

| CERONA-36-IFT | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| Inches | 51 | 42-1/8 | 73-1/4 | 36 | 65-1/2 | 1/2 | 22-1/4 | 16 |
| Millimeters | 1295 | 1070 | 1861 | 914 | 1664 | 13 | 565 | 406 |

| CERONA-42-IFT | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| Inches | 56-5/8 | 49-1/8 | 80-1/8 | 36 | 72-1/2 | 1/2 | 22-1/4 | 18-3/4 |
| Millimeters | 1438 | 1248 | 2035 | 914 | 1842 | 13 | 565 | 476 |

**Figure 3.3  Appliance Locations**

## Framing

This appliance is designed to be recessed into combustible framing with non-combustible material pre-installed on top and side. Drywall or combustible materials (minimum 1/2 inch thick) are designed to contact the non-combustible material/appliance as called out in Section 10 Finishing.
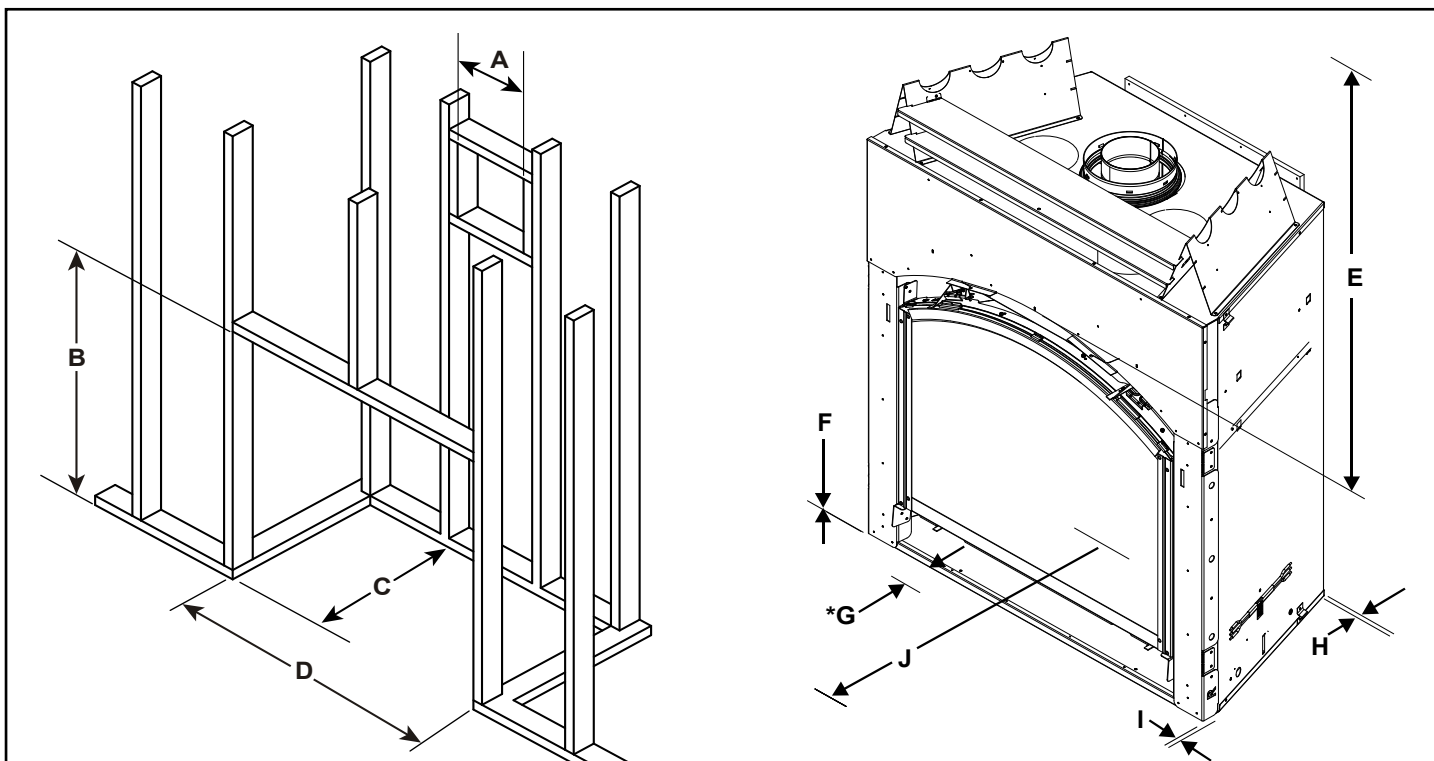
This appliance has been thoroughly tested to minimize drywall cracking and/or the protrusion of screws "screw pops" when framed as shown below.

Framing should be done in a manner similar to framing a window or door: Double-2x4/2x6 as a header for horizontal strength and utilizing Jack or Trimmer stud fastened to the King studs for vertical strength.

If elevating the appliance, the base of the appliance should also be constructed in a similar manner to prevent settling.

Refer to Figures 3.5, 3.6 and 3.7 for information regarding framing when the Passive Heat Kit is installed. Install the Passive Heat Kit per the instructions provided with the kit.

> Note: Refer to Section 10 for important information related to facing, drywall specifications and decorative barrier front information.



*NOTE: E will change if Passive Heat option is installed. Reference the instructions included with the Passive Heat Kit.*

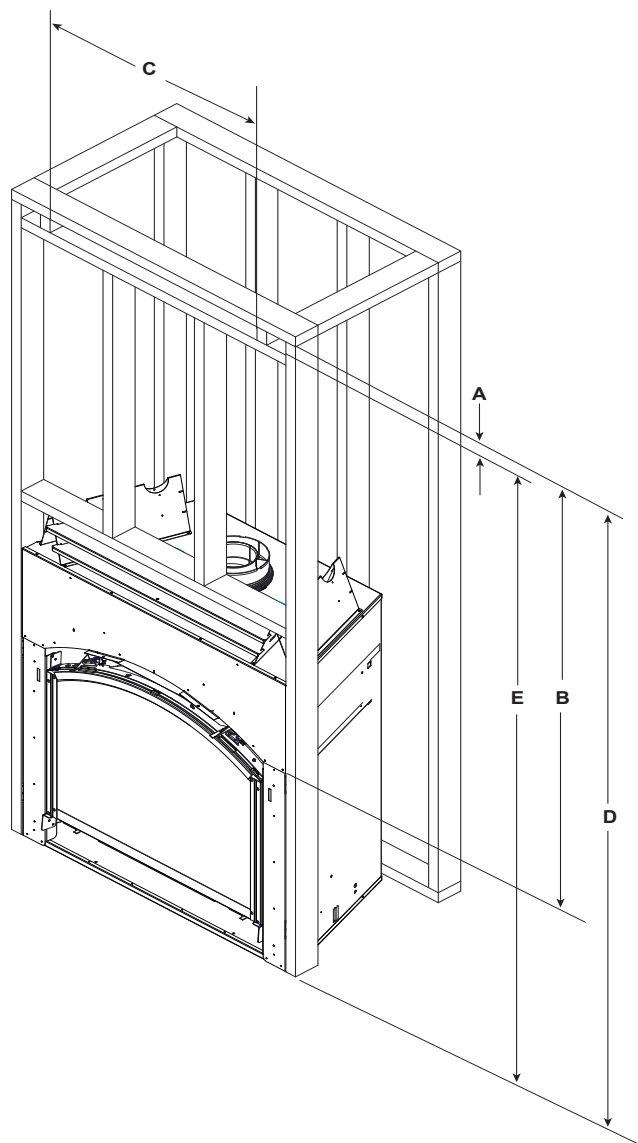| CLEARANCES TO COMBUSTIBLES: | | | A | B | C | D | E | F | *G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rough Opening (Vent Pipe) | Rough Opening (Height) | Rough Opening (Depth) | Rough Opening (Width) | Clearance to Room Ceiling from Top of Arch Opening | Combustible Floor | Minimum Hearth Required | Behind Appliance | Sides of Appliance | Front of Appliance |
| CERONA-36-IFT | in | | 10 | 50-1/2 | 22-1/4 | 42-1/8 | 38-1/2 | 0 | 8 | 1/2 | 1/2 | 36 |
| | mm | | 254 | 1283 | 565 | 1070 | 978 | 0 | 203 | 13 | 13 | 914 |
| CERONA-42-IFT | in | | 10 | 54-1/2 | 22-1/4 | 49-1/8 | 38-7/8 | 0 | 8 | 1/2 | 1/2 | 36 |
| | mm | | 254 | 1384 | 565 | 1248 | 988 | 0 | 203 | 13 | 13 | 914 |

* The area in front of the appliance must be protected by a noncombustible hearth extension, unless the appliance is raised a minimum of 6 inches above the combustible floor or hearth. For installations with vinyl flooring, special clearance requirements apply. See Section 3.D.

Note: If appliance is installed off of floor, maintain required clearances to combustibles. Construct platform in accordance with local building codes.
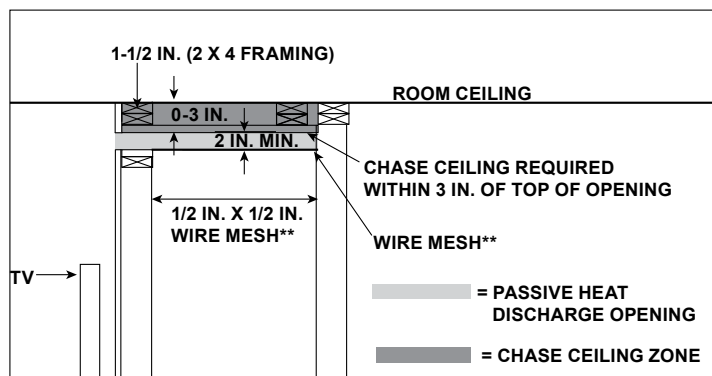
**Figure 3.4  Clearances to Combustibles**

## Framing Dimensions- Passive Heat Front Discharge

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



#### CHASE DETAIL

1-1/2 IN. (2 X 4 FRAMING)

ROOM CEILING

0-3 IN.

2 IN. MIN.

CHASE CEILING REQUIRED WITHIN 3 IN. OF TOP OF OPENING

1/2 IN. X 1/2 IN. WIRE MESH**

WIRE MESH**

TV

= PASSIVE HEAT DISCHARGE OPENING

= CHASE CEILING ZONE

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

| FRONT DISCHARGE MINIMUM FRAMING DIMENSIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | A | | B | C | D | E |
| | | TRIM KIT* INSTALLED (PHTRIM-LINEAR) | NO TRIM KIT** | | | | |
| | | Required Height of Discharge Opening | Height of Discharge Opening | Clearance to Top of Discharge Opening | Width of Discharge Opening | Clearance to Top of Discharge Opening From Bottom of Appliance | Clearance to Bottom of Discharge Opening from Bottom of Appliance |
| CERONA-36-IFT | Inches | 3-1/2 | 2 | 48 | 36-1/2 | 82-1/2 | 80-1/2 |
| | millimeters | 89 | 51 | 1219 | 927 | 2096 | 2045 |
| CERONA-42-IFT | Inches | 3-1/2 | 2 | 48 | 42-3/8 | 86-5/8 | 84-5/8 |
| | millimeters | 89 | 51 | 1219 | 1076 | 2200 | 2150 |

* Measurement for Trim Kit = 3-1/2 in. + Additional Finishing Material Thickness
** Measurement without Trim Kit = 2 in. + Additional Finishing Material Thickness. If finished discharge opening height is greater than 3 inches, wire mesh is required.
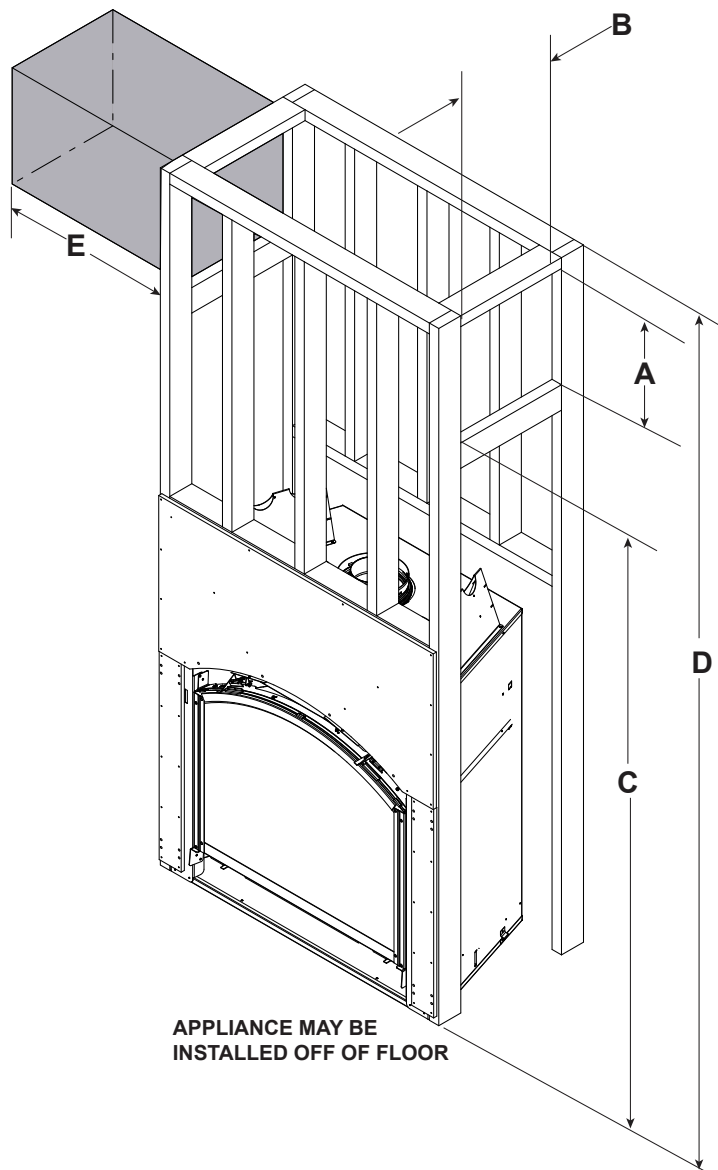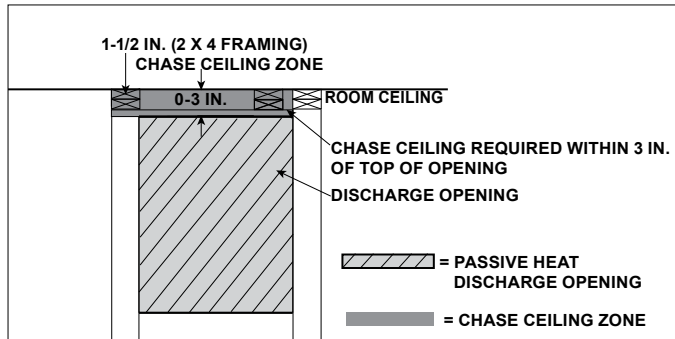
**Figure 3.5 Passive Heat Front Discharge Framing Dimensions With and Without a Trim Kit**

## Framing Dimensions - Passive Heat Side Discharge

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

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

### CHASE DETAIL

1-1/2 IN. (2 X 4 FRAMING) CHASE CEILING ZONE

0-3 IN.

ROOM CEILING

CHASE CEILING REQUIRED WITHIN 3 IN. OF TOP OF OPENING

DISCHARGE OPENING

= PASSIVE HEAT DISCHARGE OPENING

= CHASE CEILING ZONE

APPLIANCE MAY BE INSTALLED OFF OF FLOOR

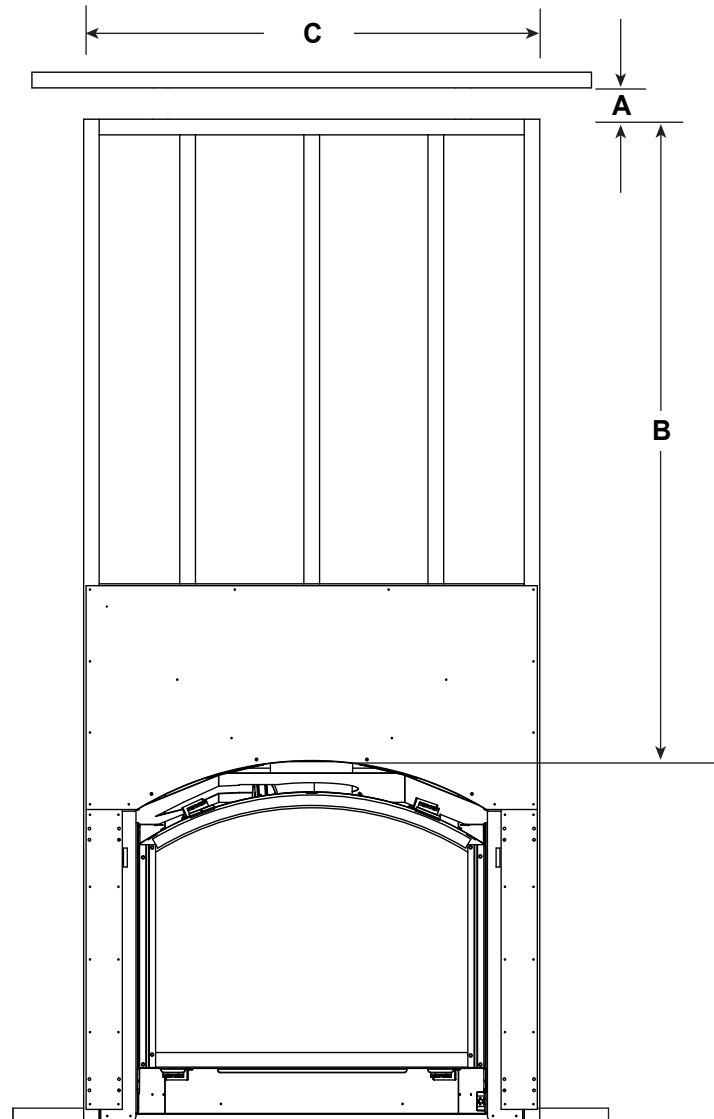| SIDE DISCHARGE FRAMING DIMENSIONS | | | | | | |
|---|---|---|---|---|---|---|
| | | **A** | **B** | **C** | **D** | **E** |
| | | Height of Discharge Opening | Width of Discharge Opening | Minimum Clearance to Discharge Opening From Bottom of Appliance | Minimum Clearance to Ceiling from Bottom of Appliance | Minimum Clearance to Combustible Materials |
| CERONA-36-IFT | Inches | 12-1/4 | 8-3/4 | 70-1/4 | 84 | 18 |
| | millimeters | 311 | 222 | 1784 | 2134 | 457 |
| CERONA-42-IFT | Inches | 12-1/4 | 8-3/4 | 74-3/8 | 88-1/8 | 18 |
| | millimeters | 311 | 222 | 1889 | 2238 | 457 |

**Figure 3.6   Passive Heat Side Discharge Framing Dimensions**

## Framing Dimensions - Passive Heat Open Top Discharge

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

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



| OPEN TOP DISCHARGE MINIMUM FRAMING DIMENSIONS | | | A* | B | C |
|---|---|---|---|---|---|
| | | | Height of Discharge Opening | Clearance to Discharge Opening | Width of Discharge Opening |
| CERONA-36-IFT | | Inches | 2 | 48 | 45-1/8 |
| | | millimeters | 51 | 1219 | 1146 |
| CERONA-42-IFT | | Inches | 2 | 48 | 52-1/8 |
| | | millimeters | 51 | 1219 | 1324 |

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

**Figure 3.7   Passive Heat Minimum Framing Dimensions Open Top Discharge**

## C. 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 appliance or chimney.*

• *Failure to maintain airspace may cause overheating and a fire.*

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

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

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

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

• *Heat Management applications: Maintain 36 inches of clearance to openings from which heat is discharged. such as convection slots, passive heat registers, heat zone registers, etc. Refer to Section 6.E for Heat Management options allowed for this appliance.*

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

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

Minimum height requirements for an exterior chase on a top-vented appliance are shown in Figure 3.8. Reference Figure 4.4 for additional clearances.
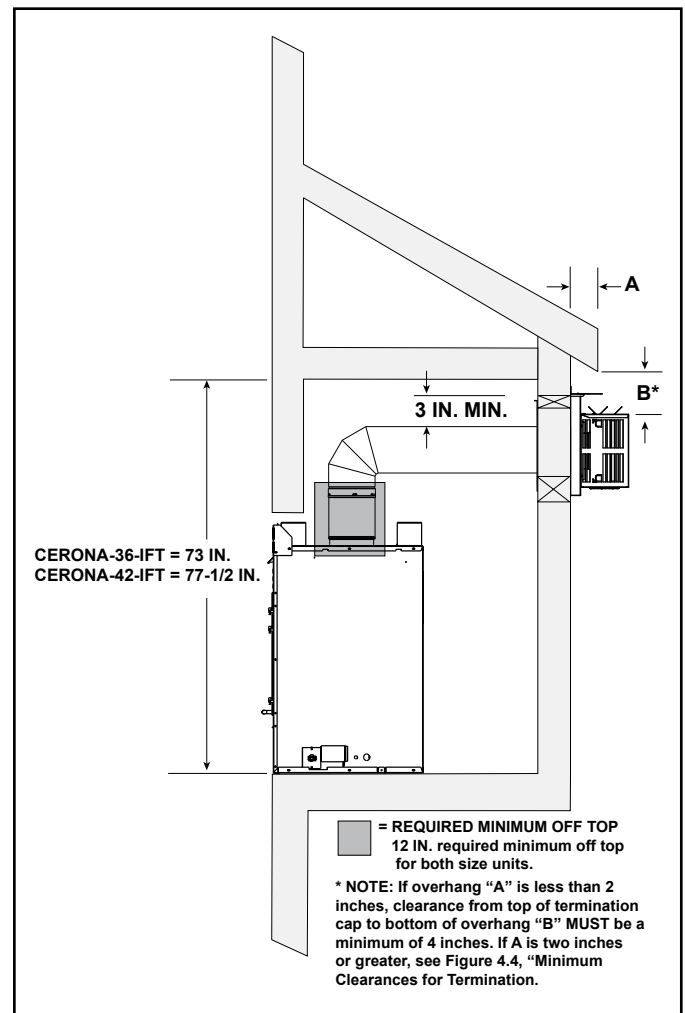


**Figure 3.8 Exterior Chase - Minimum Height Requirements**

## D. Floor Protection

### Vinyl Flooring

Vinyl flooring is sensitive to heat. To avoid damage to the vinyl flooring, a 12 inch minimum x 12 inch minimum hearth is recommended when using vinyl flooring up to the wall. See Figure 3.9. If no hearth is used, it is recommended to provide a minimum of 36 inches of clearance in front of the appliance to the vinyl flooring OR the bottom of the appliance should be raised a minimum of 24 inches off of the floor to allow the vinyl flooring to be installed up to the wall.

*NOTICE: Clearances that do not meet the minimum guidelines could result in damage or buckling to the vinyl flooring and is done at the installer's or homeowner's risk.*

Hearth and Home Technologies does not recommend adhesive based vinyl flooring products due to thermal expansion during operation. Floating style flooring can be used, but will reach temperatures up to 110 °F (based on ambient temperature of 70 °F). Consult the manufacturer's flooring specifications to ensure compatibility.
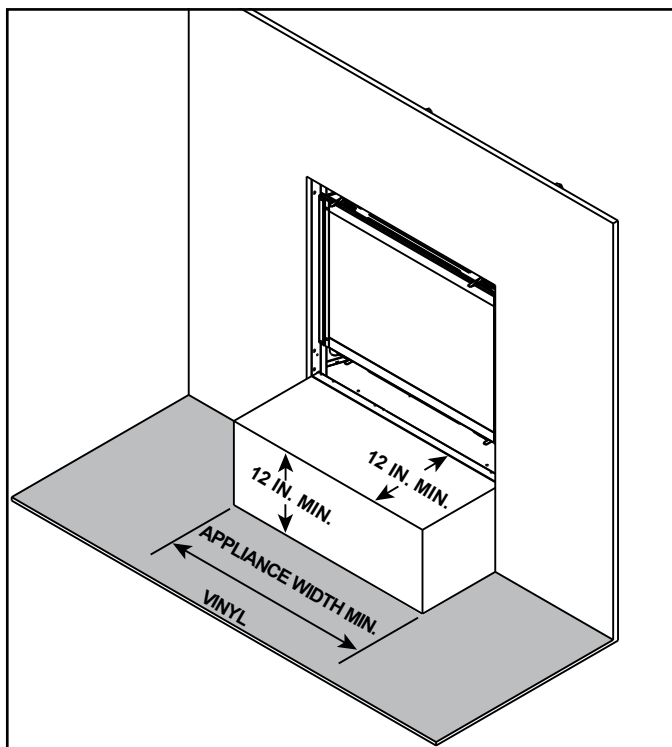


**Figure 3.9   Vinyl Flooring Recommendations**

# 4 Termination Location and Vent Information

## A. Approved Pipe

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

This appliance is only approved for use with Hearth & Home Technologies DVP 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.

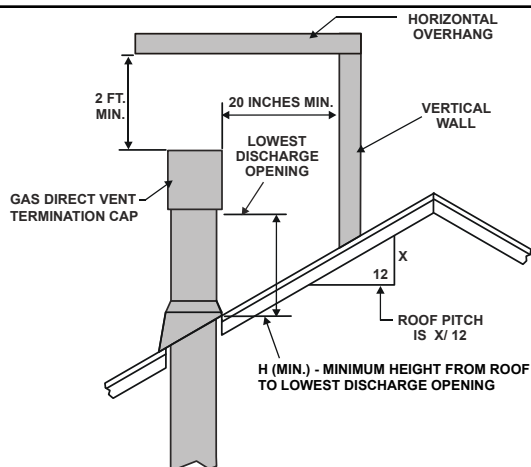## B. Vent Termination Minimum Clearances

⚠ **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.



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

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

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

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



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

\*\* If two gas terminations are present, they may be level (B = 0 inches) provided A is a minimum of 6 inches.
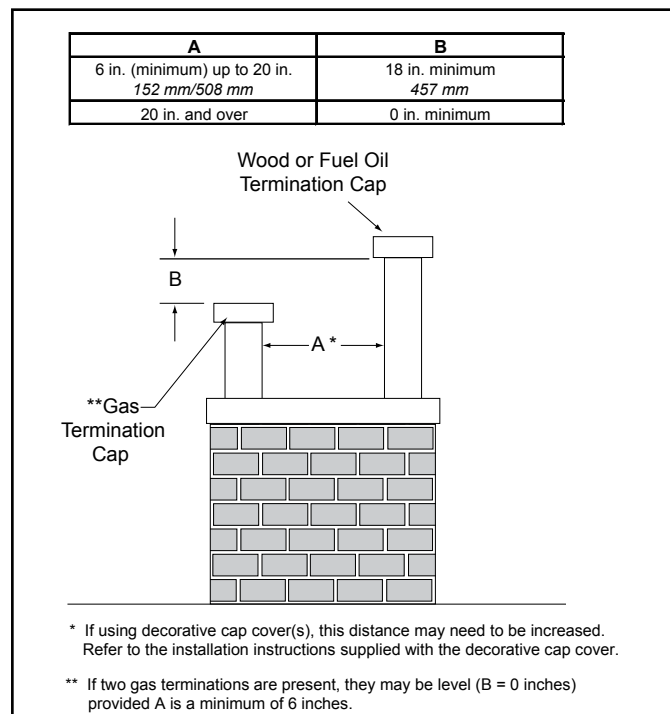
**Figure 4.2  Staggered Termination Caps**

***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.

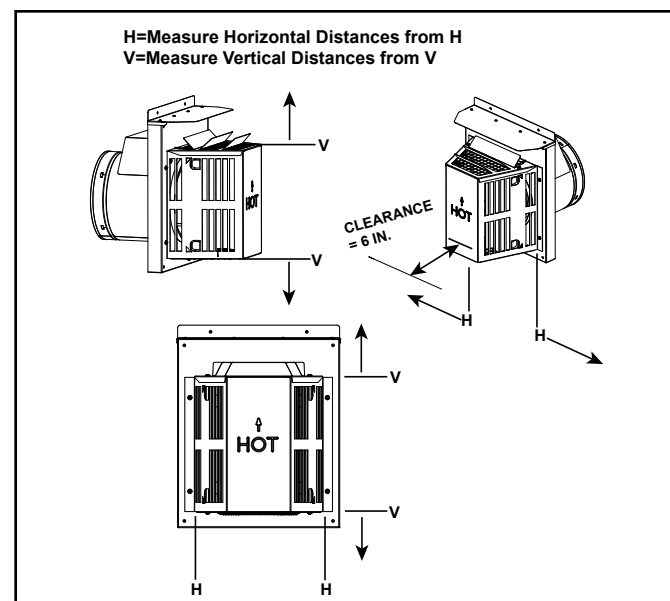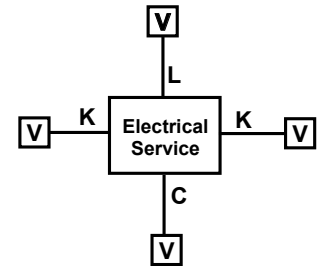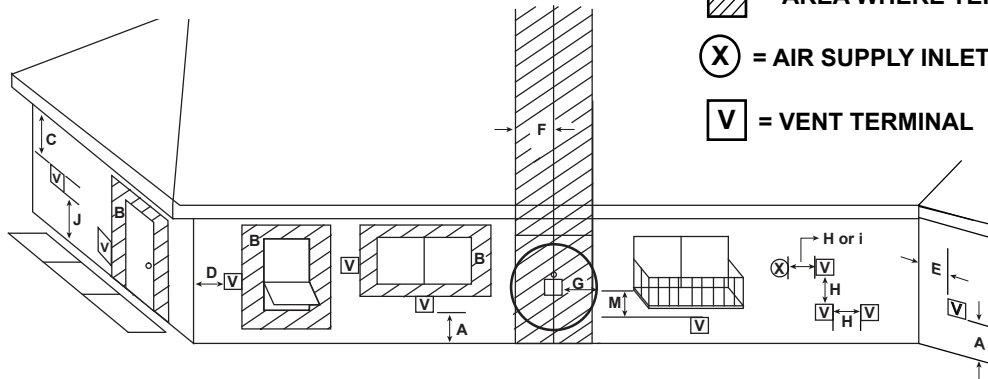• Measure horizontal and vertical termination cap clearances as noted in Figure 4.3.



**Figure 4.3**

## C. Vent Terminal Clearances



= AREA WHERE TERMINAL IS NOT PERMITTED

(X) = AIR SUPPLY INLET

[V] = VENT TERMINAL

**U.S.A. Installations:** In accordance with the current ANSI Z223.1/NFPA 54, National Fuel Gas Code.
**Canadian Installations:** In accordance with the current CSA B149.1, Natural Gas and Propane Installation Code.

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

**Figure 4.4  Minimum Clearances for Termination**

## 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 4.5.

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

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



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

**Figure 4.5**



| Vent Type | X | | Y | |
|---|---|---|---|---|
| | Inches | Millimeters | Inches | Millimeters |
| DVP | 6-5/8 | 168 | 16-1/2 | 419 |



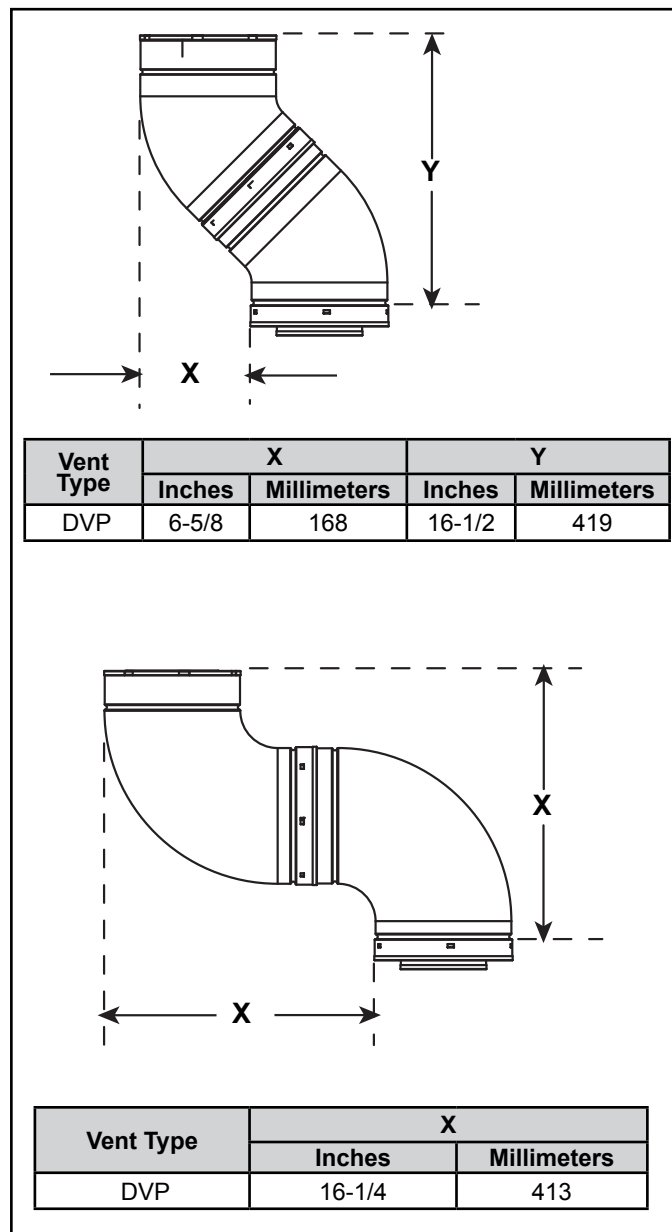| Vent Type | X | |
|---|---|---|
| | Inches | Millimeters |
| DVP | 16-1/4 | 413 |

**Figure 4.6  Vertical and Horizontal Offset for DVP**

## E. Adding Vent Components

### Heat Shield

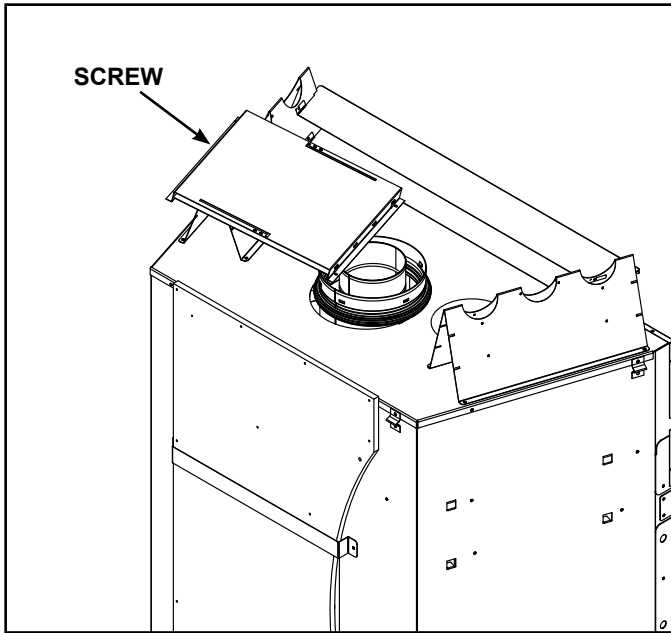1. Remove the screw that secures the heat shield to the top standoff. See Figure 4.7.



**Figure 4.7 Remove Heat Shield**

2. Make sure that the fiberglass rope ring shipped in place seals between the first vent component and the outer appliance wrap. See Figure 4.8.
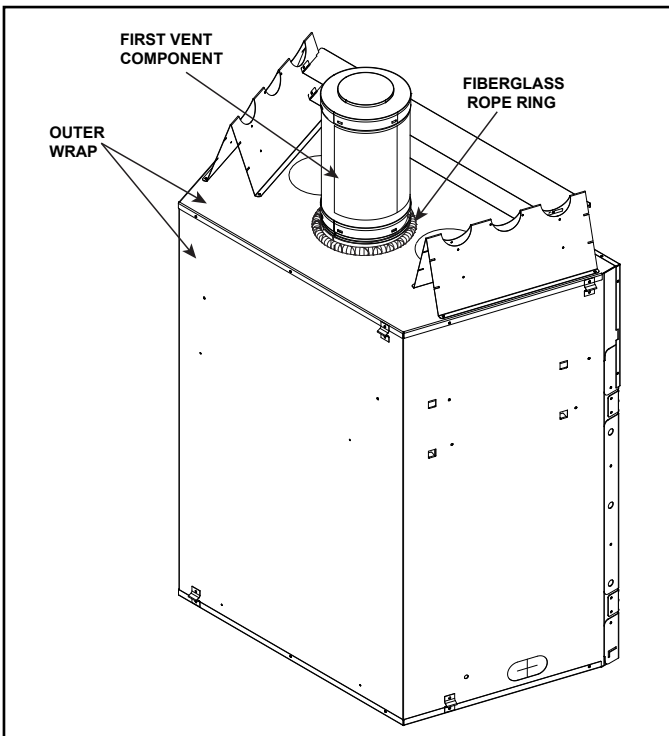


**Figure 4.8 Fiberglass Rope Ring**

## ⚠ WARNING

Fire Risk.

Installation of this appliance may require the use of heat shield 2106-084 above the first 90$^0$ elbow in the venting system.

**Install the Heat Shield:**

3. Determine if the heat shield is required. Do so by measuring the vertical distance between the top horizontal surface of the elbow to any combustible surface above. If the distance is more than 4 inches, the heat shield is **NOT** required. If it is 4 inches or less, the heat shield **IS REQUIRED**. Install per the following steps. See Figure 4.9.
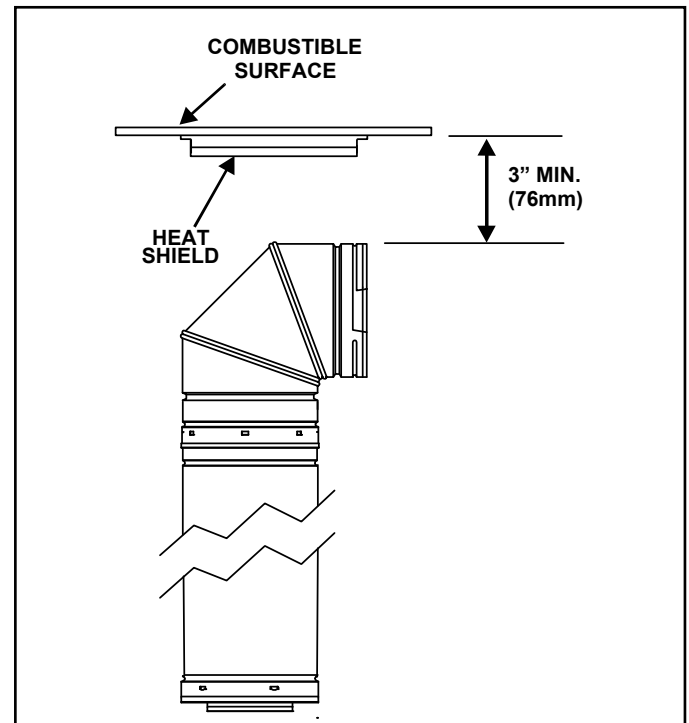


**Figure 4.9**

4. Fasten the shield in place using the four pilot holes provided in the part. The shield should be oriented such that the 12 inch dimension (shorter dimension) is running in the same direction the elbow is pointing. The shield should be centered directly above the elbow, and positioned so that it creates a 1 inch airspace between the shield and the combustible surface. See Figure 4.10.
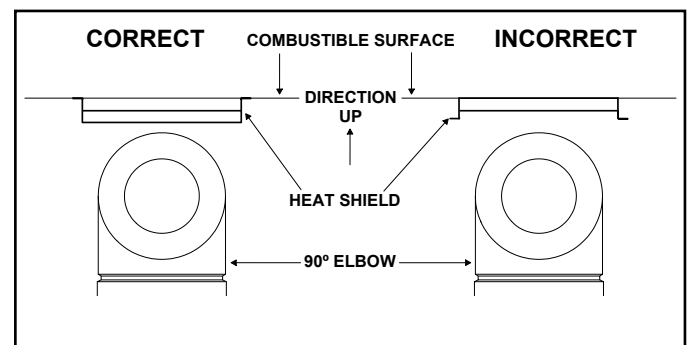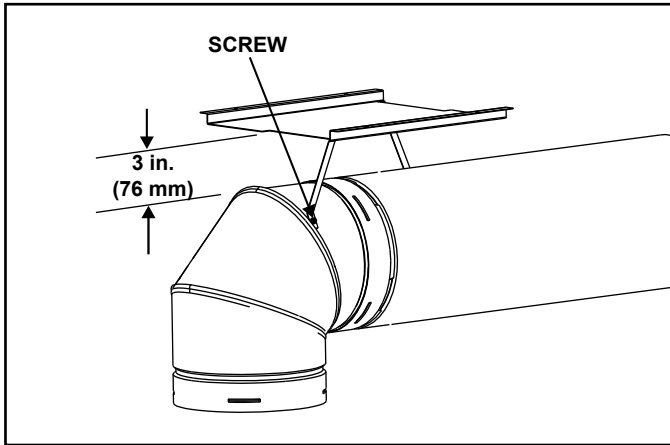


**Figure 4.10**

- If the combustible materials are not in place at the time of install the elbow heat shield may be screwed to the exhaust pipe (see Figure 4.11). Cut the tabs as shown and bend down. Secure the heat shield to the pipe maintaining 3 inch to 4 inch between the pipe and shield.



**Figure 4.11**

Refer to Cinch Pipe and Termination Cap installation instructions.

- 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 in the vent system.

- 90° elbows may be installed and rotated to any point around the preceding component's vertical axis. If an elbow does not end up in a locked position with the preceding component, attach with a minimum of two (2) sheet metal screws.

## F. Install Support Brackets

Refer to Cinch Pipe and Termination Cap installation instructions.

## G. Vent Diagrams

**General Rules:**

- SUBTRACT 3 ft from the total H measurement for each 90° elbow installed horizontally.

- SUBTRACT 1-1/2 ft from the total H measurement for each 45° elbow installed horizontally.

- A maximum of three 90° elbows (or six 45° elbows) may be used in any vent configuration. Some elbows may be installed horizontally. See Figure 4.16.

- Elbows may be placed back to back anywhere in the system.

- Any 90° elbow may be replaced with two back to back 45° elbows.

- When penetrating a combustible wall, a wall shield firestop must be installed.

- When penetrating a combustible ceiling, a ceiling firestop must be installed.

- Horizontal runs of vent do not require vertical rise; horizontal runs may be level.

- Horizontal termination cap should have a 1/4 inch downward slant to allow any moisture in cap to be released.

## 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.) for information on effective length of pipe components.

• Horizontal terminations are measured to the outside mounting surface (flange of termination cap). See Figure 4.12.

• Vertical terminations are measured to top of last section of pipe. See Figure 4.13.

• Horizontal pipe installed level with no rise.

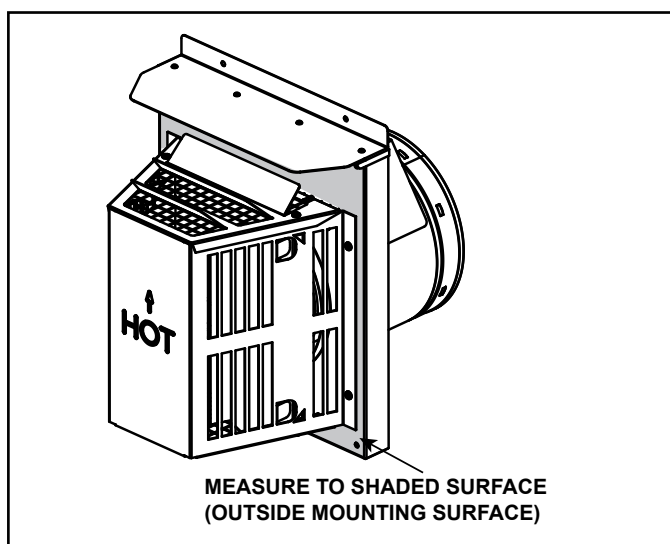• Horizontal and vertical termination clearances measured to trapezoid portion of cap. See Figure 4.3.



**MEASURE TO SHADED SURFACE**
**(OUTSIDE MOUNTING SURFACE)**

**Figure 4.12   Measure to Outside Mounting Surface**
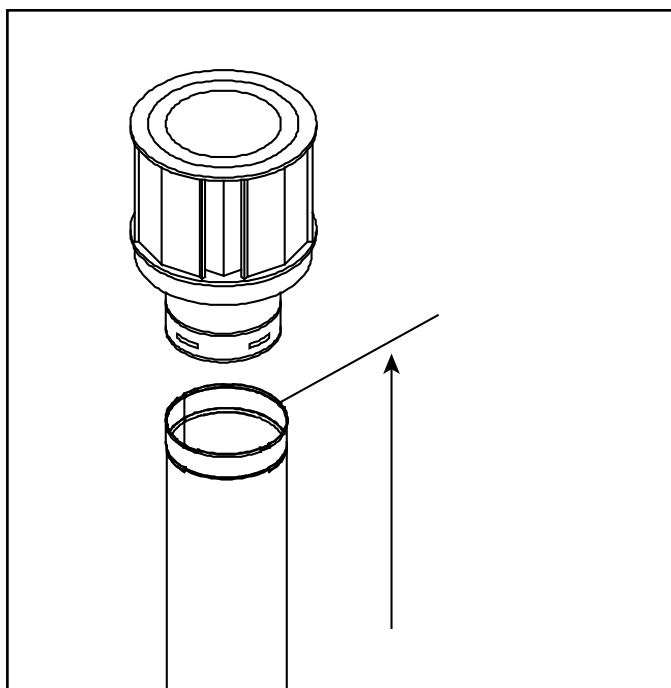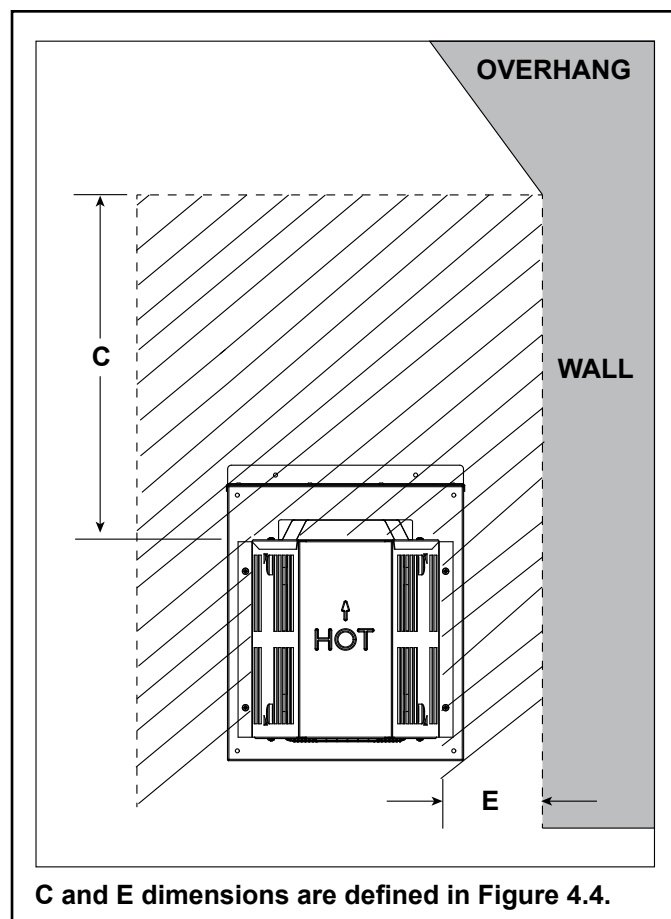


**Figure 4.13   Measure to Top of Last Section of Pipe**



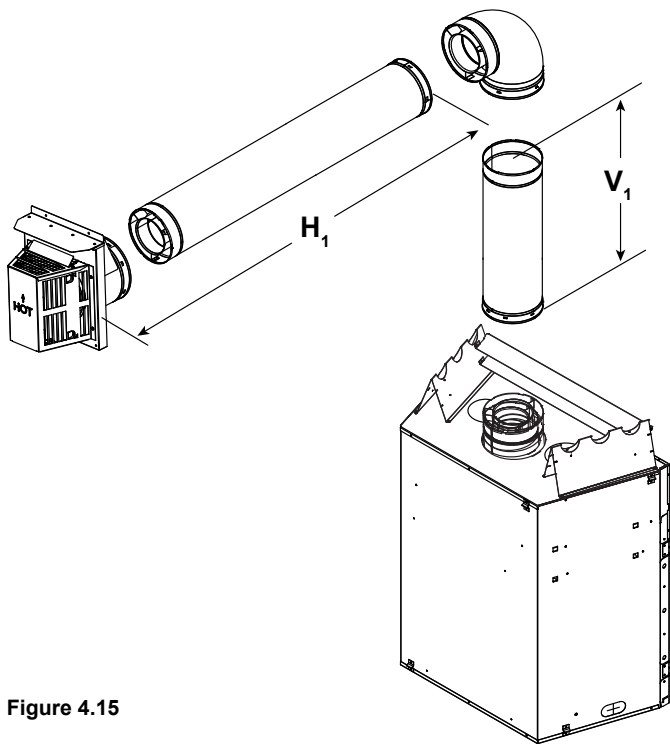**C and E dimensions are defined in Figure 4.4.**

**Figure 4.14     Measure Horizontal and Vertical Termination Clearance to Trapezoid Portion of Cap**
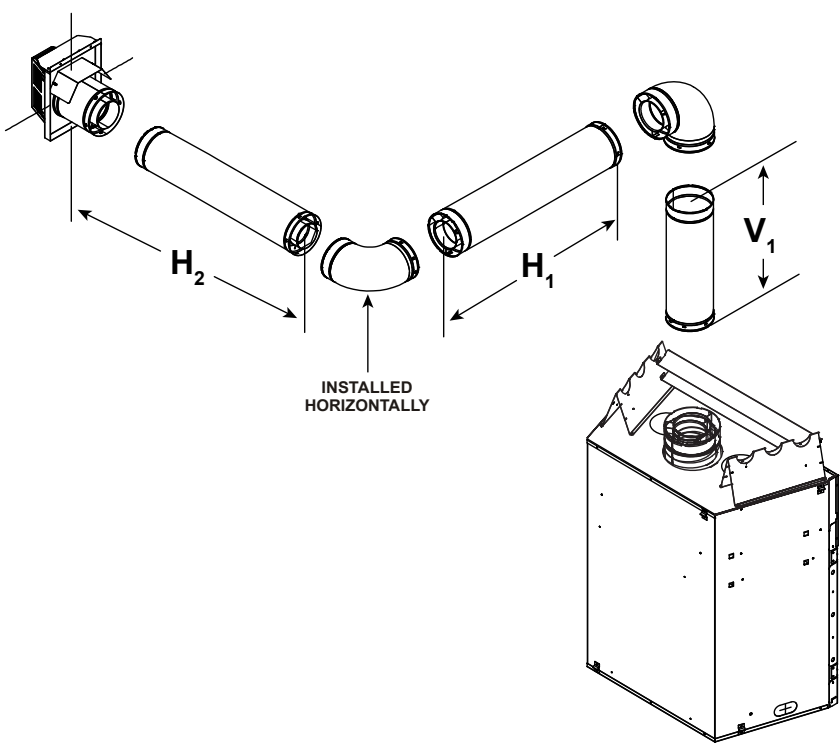
## Top Vent - Horizontal Termination

### One Elbow



**Figure 4.15**

| V₁ Minimum | | H₁ Maximum | |
|---|---|---|---|
| 1 ft | 305 mm | 2 ft | 610 mm |
| 2 ft | 610 mm | 5 ft | 1.5 m |
| 3 ft | 914 mm | 8 ft | 2.4 m |
| 4 ft | 1.2 m | 11 ft | 3.4 m |
| 5 ft | 1.5 m | 14 ft | 4.3 m |
| 6 ft | 1.8 m | 17 ft | 5.2 m |
| 7 ft | 2.1 m | 20 ft | 6.1 m |
| 8 ft | 2.4 m | 23 ft | 7.0 m |
| $V_1$ = 40 ft. (12.2 m) Maximum $H_1$ = 23 ft. (7.0 m) Maximum $V_1 + H_1$ = 63 ft. (19.2 m) Maximum | | | |

| **Note:** Must have a minimum vertical vent before attaching a 90° elbow to the unit. See chart. | **Minimal Vertical Vent** | | |
|---|---|---|---|
| | **Model** | **ft.** | **mm** |
| | **CERONA-36-IFT** | 1 | 305 |
| | **CERONA-42-IFT** | 1 | 305 |

### Two Elbows



INSTALLED HORIZONTALLY

**Figure 4.16**

| V₁ Minimum | | H₁ + H₂ Maximum | |
|---|---|---|---|
| 1 ft | 305 mm | 2 ft | 610 mm |
| 2 ft | 610 mm | 5 ft | 1.5 m |
| 3 ft | 914 mm | 8 ft | 2.4 m |
| 4 ft | 1.2 m | 11 ft | 3.4 m |
| 5 ft | 1.5 m | 14 ft | 4.3 m |
| 6 ft | 1.8 m | 17 ft | 5.2 m |
| 7 ft | 2.1 m | 20 ft | 6.1 m |
| 8 ft | 2.4 m | 23 ft | 7.0 m |
| $V_1 + H_1 + H_2$ = 63 ft. (19.2 m) Maximum $H_1 + H_2$ = 23 ft. (7.0 m) Maximum | | | |

| **Note:** Must have a minimum vertical vent before attaching a 90° elbow to the unit. See chart. | **Minimal Vertical Vent** | | |
|---|---|---|---|
| | **Model** | **ft.** | **mm** |
| | **CERONA-36-IFT** | 1 | 305 |
| | **CERONA-42-IFT** | 1 | 305 |

## Top Vent - Horizontal Termination - (continued)

### Three Elbows



| V$_1$ Minimum | | H$_1$ + H$_2$ Maximum | |
|---|---|---|---|
| 1 ft | 305 mm | 4 ft | 1.2 m |
| 2 ft | 610 mm | 7 ft | 2.1 m |
| 3 ft | 914 mm | 10 ft | 3.0 m |
| 4 ft | 1.2 m | 13 | 4.0 m |
| 5 ft | 1.5 m | 16 | 4.9 m |
| 6 ft | 1.8 m | 17 | 5.2 m |
| 7 ft | 2.1 m | 22 | 6.7 m |

**H$_1$ + H$_2$ = 22 ft. (6.7 m) Max.**
**V$_1$+ V$_2$ + H$_1$ + H$_2$ = 62 ft. (18.9 m) Max.**

**Note:** Must have a minimum vertical vent before attaching a 90° elbow to the unit. See chart.

| Minimal Vertical Vent | | |
|---|---|---|
| **Model** | **ft.** | **mm** |
| **CERONA-36-IFT** | 1 | 305 |
| **CERONA-42-IFT** | 1 | 305 |

**Figure 4.17**

### Top Vent - Vertical Termination
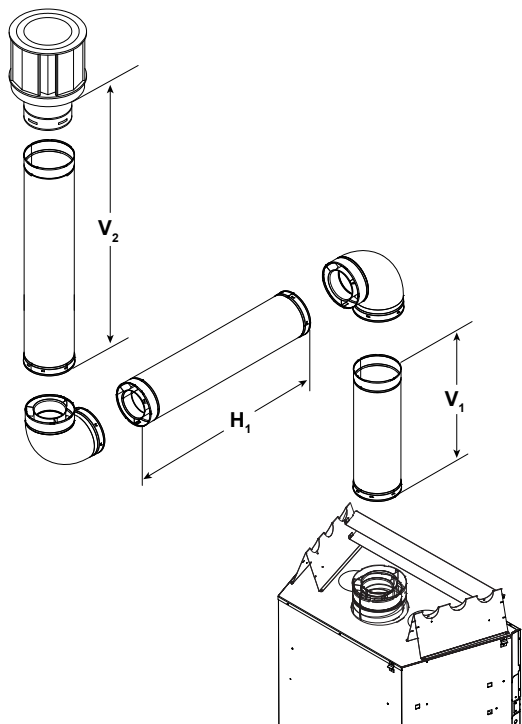### Straight up Vertical Venting



CAP

$V_1$ = 50 ft. Max. (15.2 m)

**Note:** On vertical venting configurations install the flue restrictor found in the appliance manual bag. Follow flue restrictor instructions in **Section 6.D**.
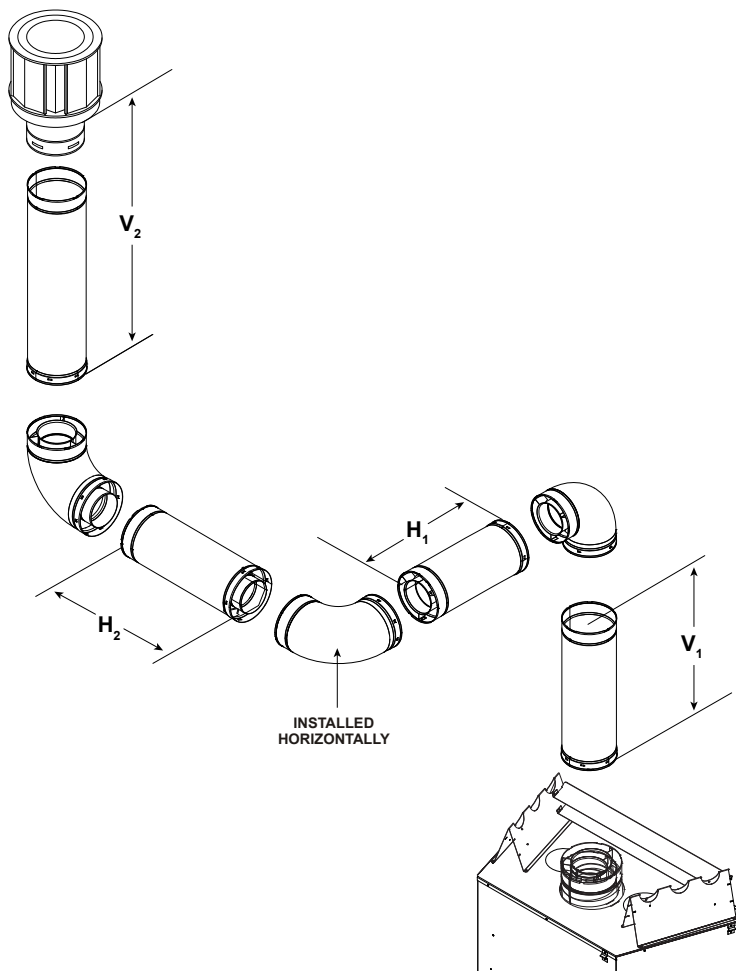
**Figure 4.18**

## Two Elbows



Figure 4.19

| $V_1$ Minimum | | $H_1$ Maximum | |
|---|---|---|---|
| 1 ft | 305 mm | 2 ft | 610 mm |
| 2 ft | 610 mm | 5 ft | 1.5 m |
| 3 ft | 914 mm | 8 ft | 2.4 m |
| 4 ft | 1.2 m | 11 ft | 3.4 m |
| 5 ft | 1.5 m | 14 ft | 4.3 m |
| 6 ft | 1.8 m | 17 ft | 5.2 m |
| 7 ft | 2.1 m | 20 ft | 6.1 m |
| 8 ft | 2.4 m | 23 ft | 7.0 m |
| **$H_1$ = 23 ft. (7.0 m) Maximum** <br> **$V_1 + V_2 + H_1$ = 63 ft. (19.2 m) Maximum** | | | |

| **Note:** Must have a minimum vertical vent before attaching a 90° elbow to the unit. See chart. | **Minimal Vertical Vent** | | |
|---|---|---|---|
| | **Model** | **ft.** | **mm** |
| | **CERONA-36-IFT** | 1 | 305 |
| | **CERONA-42-IFT** | 1 | 305 |

## Three Elbows



INSTALLED HORIZONTALLY

Figure 4.20

| $V_1$ Minimum | | $H_1 + H_2$ Maximum | |
|---|---|---|---|
| 1 ft | 305 mm | 4 ft | 1.2 m |
| 2 ft | 610 mm | 7 ft | 2.1 m |
| 3 ft | 914 mm | 10 ft | 3.0 m |
| 4 ft | 1.2 m | 13 | 4.0 m |
| 5 ft | 1.5 m | 16 | 4.9 m |
| 6 ft | 1.8 m | 17 | 5.2 m |
| 7 ft | 2.1 m | 22 | 6.7 m |
| **$H_1 + H_2$ = 22 ft. (6.7 m) Max.** <br> **$V_1 + V_2 + H_1 + H_2$ = 62 ft. (18.9 m) Max.** | | | |

| **Note:** Must have a minimum vertical vent before attaching a 90° elbow to the unit. See chart. | **Minimal Vertical Vent** | | |
|---|---|---|---|
| | **Model** | **ft.** | **mm** |
| | **CERONA-36-IFT** | 1 | 305 |
| | **CERONA-42-IFT** | 1 | 305 |

# 5 Vent Clearances and Vent Framing

## A. Vent Clearances to Combustibles

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

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

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

---

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.
- If wall thickness is less than 4-3/8 the existing heat shields must be field trimmed. If wall thickness is greater than 7-5/8 in. a DVP-HSM-B will be required.
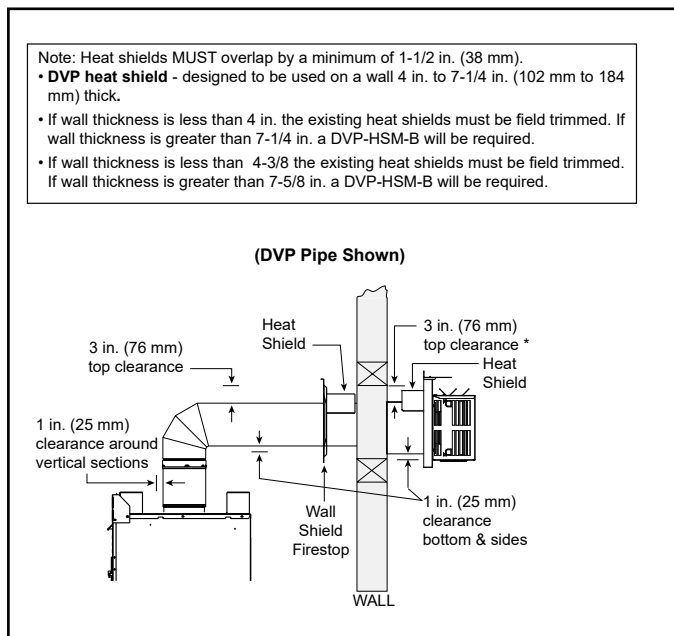
**(DVP Pipe Shown)**



**Figure 5.1 Horizontal Venting Clearances To Combustible 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.

- DVP pipe - A wall shield firestop is required on one side only on interior walls. If your local inspector requires a wall shield firestop on both sides, then both wall shield firestops must have a heat shield (refer to Section 12.A.) attached to them.

- See Section 7.F. for information for regarding the installation of a horizontal termination cap.

### Non-Combustible Wall Penetration

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

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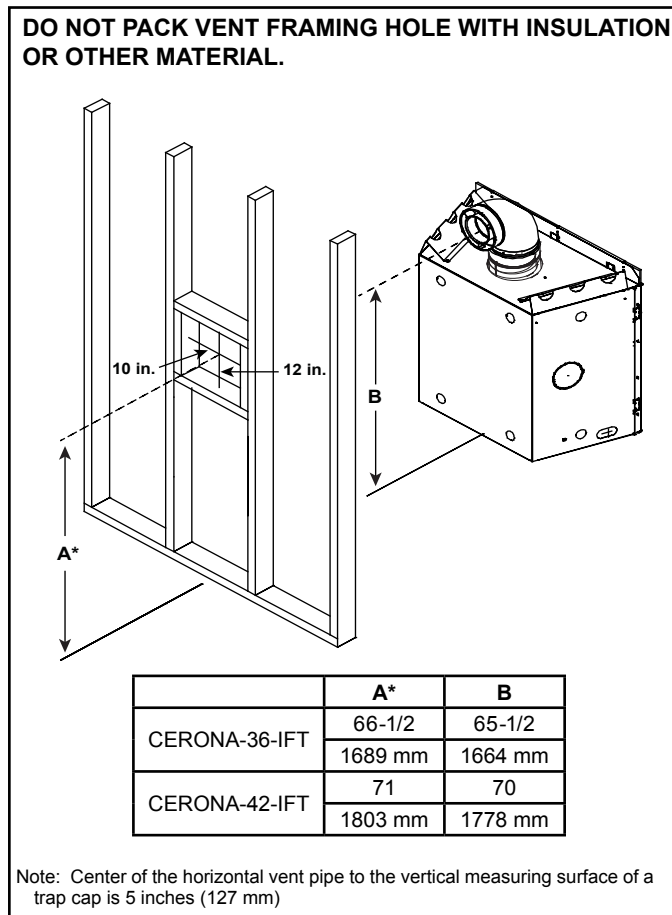
---

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



| | A* | B |
|---|---|---|
| CERONA-36-IFT | 66-1/2 | 65-1/2 |
| | 1689 mm | 1664 mm |
| CERONA-42-IFT | 71 | 70 |
| | 1803 mm | 1778 mm |

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

**Figure 5.2 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 5.3).

- 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 5.4.

- 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.
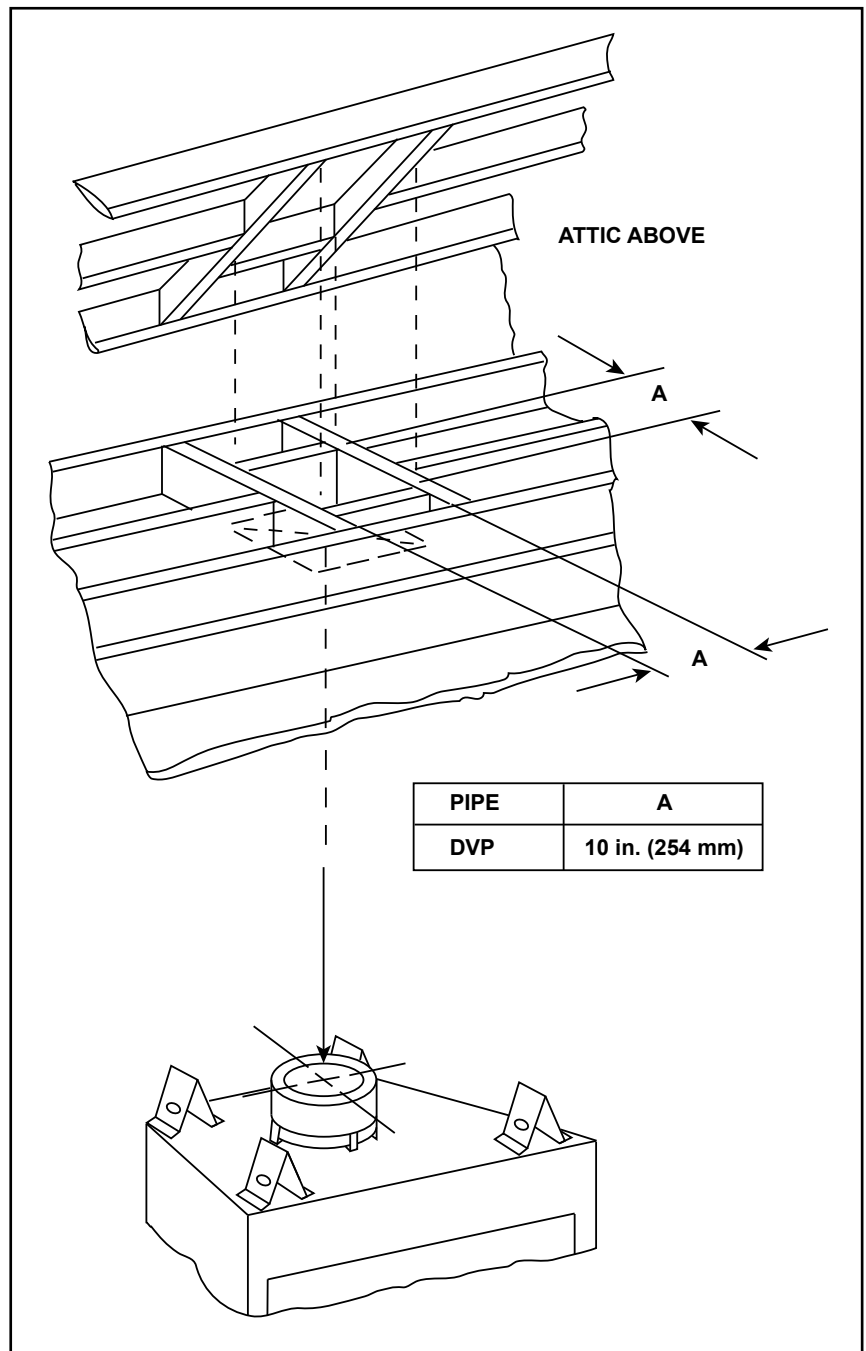


ATTIC ABOVE

| PIPE | A |
|------|------|
| DVP | 10 in. (254 mm) |

**Figure 5.3  Installing Ceiling Firestop**



INSTALL ATTIC INSULATION SHIELDS
BEFORE OR AFTER INSTALLATION OF VENT SYSTEM

CEILING FIRESTOP
INSTALLED BELOW CEILING
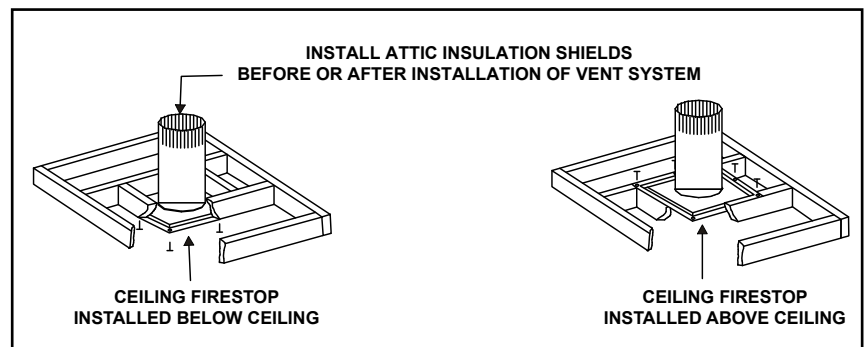
CEILING FIRESTOP
INSTALLED ABOVE CEILING

**Figure 5.4  Installing the Attic Shield**

# 6 Appliance Preparation

## A. Removing Non-combustible Facing Material Assembly and Finishing Trim

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

The non-combustible assembly and finishing trim pieces are located on the back of appliance (see Figure 6.1).
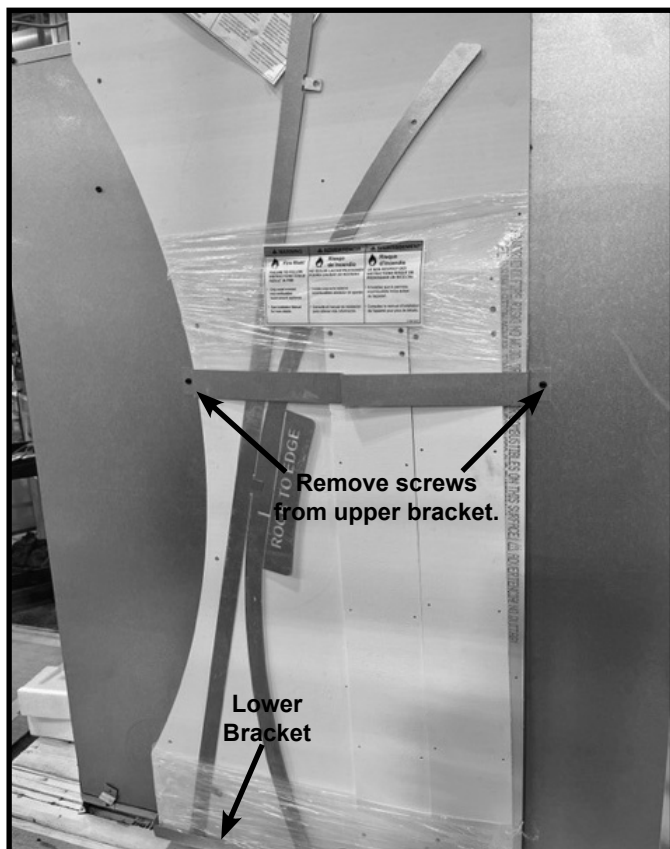


**Remove screws from upper bracket.**

**Lower Bracket**

**Figure 6.1  Non-Combustible Facing Material Assembly**

*CAUTION! Handle with care.  Non-combustible material may be damaged if dropped.*

• Hold non-combustible pieces in place.

• Remove and save two screws from  upper brackets (see Figure 6.1).

• Remove non-combustible pieces and finishing template pieces.

• Remove and save three screws from lower bracket.

• Discard brackets.

• Replace screws in holes where these pieces were attached to appliance.

## B. Securing and Leveling the Appliance

*WARNING! Risk of Fire! Prevent contact with:*

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

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

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

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

The diagram shows how to properly position and secure the appliance (see Figure 6.2). Nailing tabs are provided to secure the appliance to the framing members.

• Bend out nailing tabs on each side.

• Place the appliance into position.

• Keep nailing tabs flush with the framing.

• Level the appliance from side to side and front to back.

• Shim the appliance as necessary. It is acceptable to use wood shims underneath the appliance.

• Secure the appliance to the framing by using nails or screws through the nailing tabs.

• Secure the appliance to the floor by inserting two screws through the pilot holes at the bottom of the appliance.

The diagram shows (Figure 6.2) the location of the nailing tabs provided to secure the appliance to the framing members.
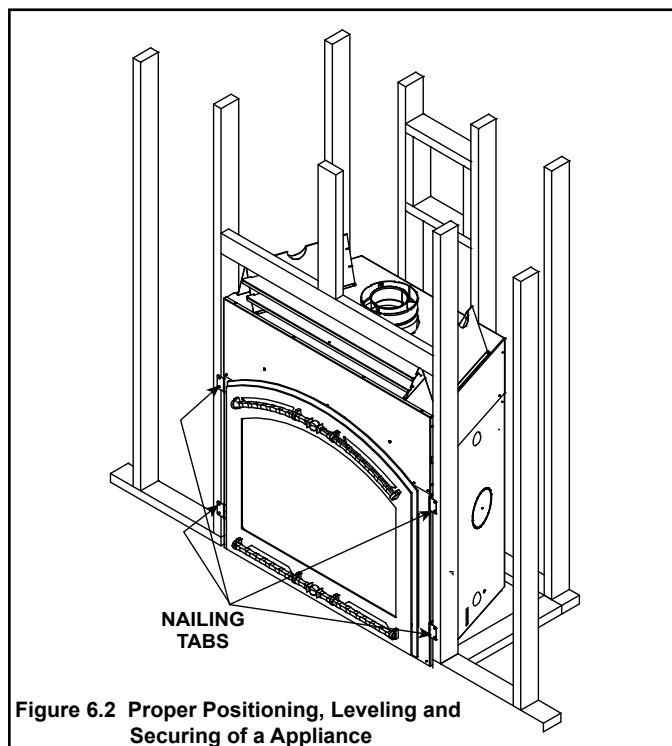


**NAILING TABS**

**Figure 6.2  Proper Positioning, Leveling and Securing of a Appliance**

*WARNING! Fire Risk. Maintain specified clearances around the appliance. DO NOT notch into the framing around the appliance spacers.*

## C. Installing Non-combustible Facing Material

| ⚠ **WARNING** |
|---|
| Fire Risk.<br>• Follow these instructions exactly.<br>• Facing materials must be installed properly to prevent fire.<br>• No materials may be substituted without authorization by Hearth & Home Technologies. |

• Center and attach top board to the framing members (see Figure 6.3).

• Use fasteners from fastener packet (in manual bag) in shaded areas (Figure 6.3).

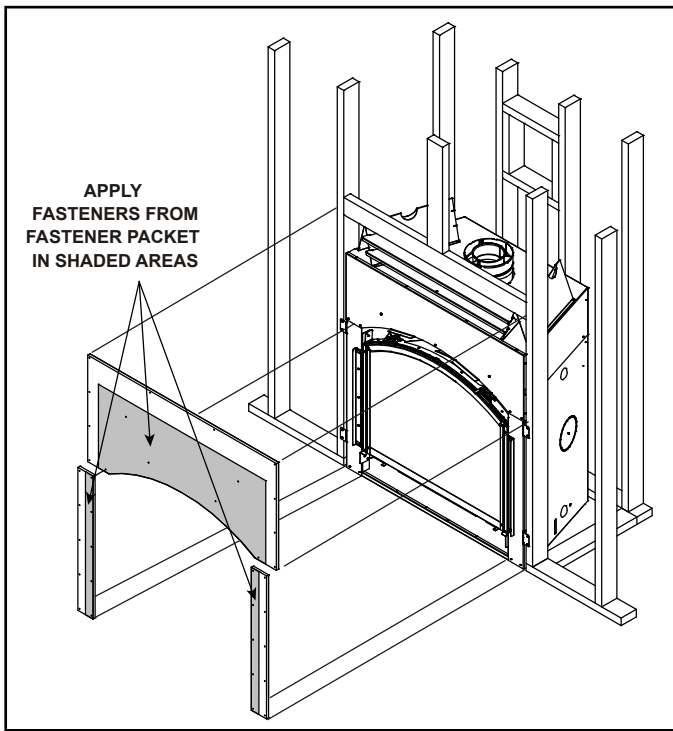• Use regular sheetrock screws in non-shaded areas (see Figure 6.3).



**Figure 6.3  Attaching Non-combustible Facing Material**

• Attach the left and right side pieces to the framing members. (See Figure 6.3).



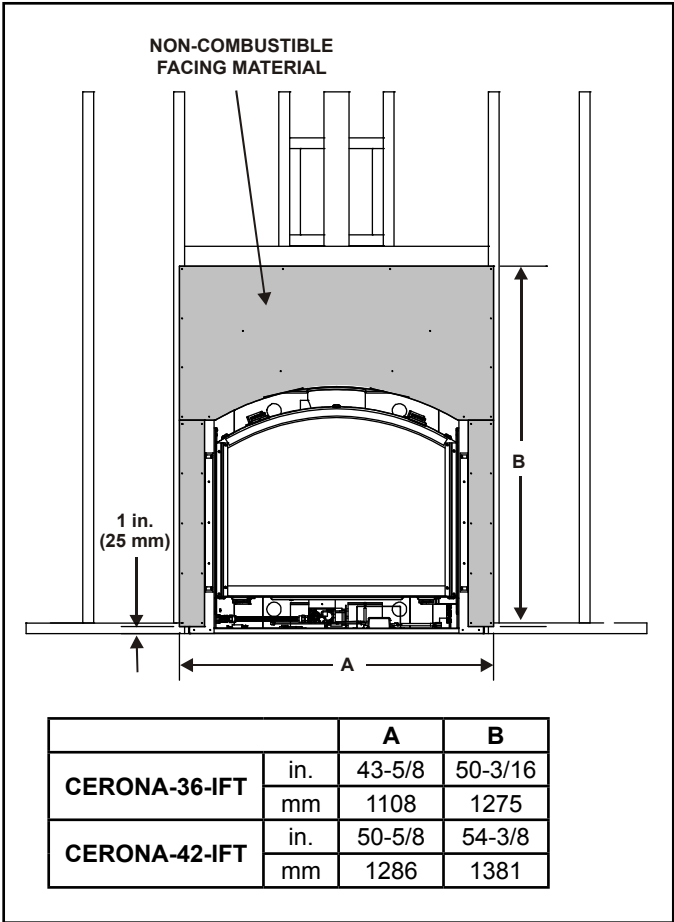|  |  | **A** | **B** |
|---|---|---|---|
| **CERONA-36-IFT** | in. | 43-5/8 | 50-3/16 |
|  | mm | 1108 | 1275 |
| **CERONA-42-IFT** | in. | 50-5/8 | 54-3/8 |
|  | mm | 1286 | 1381 |

**Figure 6.4  Complete Installation of Non-combustible Facing Material**

• Use a wet or dry towel or soft brush to remove dust or dirt from facing material.

• Apply a non-combustible adhesive to attach tile, stone or other non-combustible finishing materials per manufacturer's instructions.

## D. Installing Flue Restrictor

Locate the flue restrictor and two screws inside the manual bag. Use the following table to determine when to use flue restrictor for vent run.

| Vent Run Vertical | 15 ft. - 50 ft. |
|---|---|
| CERONA-36-IFT | 1-1/4 |
| CERONA-42-IFT | 1-1/4 |

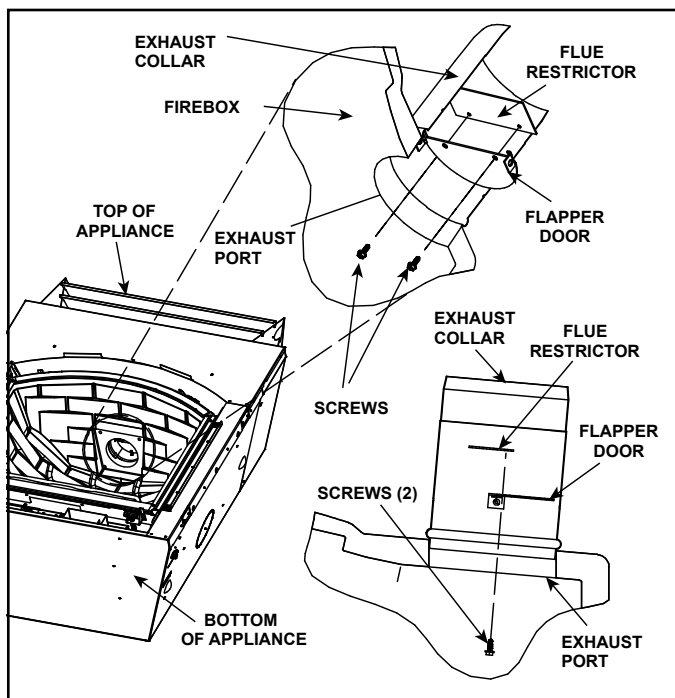Mount the flue restrictor to the flapper door using two screws (see Figure 6.5).



**Figure 6.5**

## E. Prepare For Heat Management

### Introduction

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

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

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

• Determine the heat management system(s) that will be installed.

• Locate the two heat management ports on the top of the appliance. See Figure 6.6. Use a tin snips to remove one knockout for each heat management option being attached to the appliance.

**WARNING! RISK OF FIRE!** If only one heat management option is being used, the unused knockout must remain in place. Overheating of combustible materials will occur.

• Remove insulation plug from insulation blanket visible through the top openings created by each knockout removed. Ensure that no other material or debris is blocking the hole created when removing the insulation plug.

• Center the duct collar or passive heat adapter around the exposed hole and attach it to the appliance.

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

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

Reference the Heat-Zone®-Gas Kit, Heat-Out-Gas Kit or Passive Heat  instructions for the remaining installation steps.

### Heat Management System options are:

• HEAT-ZONE®-GAS:  The heat is diverted into an adjacent room. Up to two HEAT-ZONE-GAS kits may be installed.

• HEAT-OUT-GAS: The heat is diverted outside the home/building.

• Passive Heat (PH-CERONA): The heat is vented into the room in which the appliance is installed through a discharge opening(s).

The CERONA-IFT models may utilize two Heat Management Systems.

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

Passive Heat may be used with HEAT-OUT-GAS or one HEAT-ZONE®-GAS.  The dedicated knockouts, as shown in Figure 6.6, must be used only as indicated.
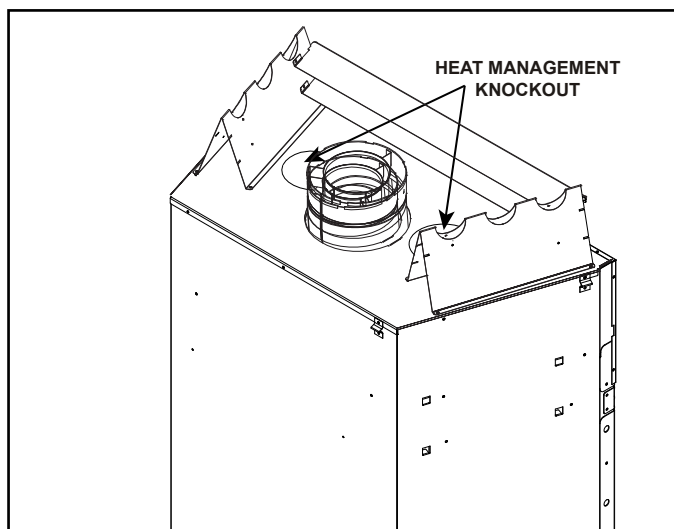


**Figure 6.6**

# 7 Venting

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

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

### Attach Vent to the Firebox Assembly

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

Attach the first pipe section to the starting collar:

• Lanced pipe end of the starting collar.

• Inner pipe over inner collar.

• Push the pipe section until all lanced tabs snap in place.

• Lightly tug on pipe to confirm it has locked.

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

*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 ºF 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 ºF minimum continuous exposure rating) to the outside of connecting joint after joining sections **OR**

  Apply aluminum foil tape (300 ºF 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 90º and 45º elbows that are changing the vent direction from horizontal to vertical, one screw minimum should be put in the outer flue at the horizontal elbow joint to prevent the elbow from rotating. Use screws no longer than 1/2 in. (13 mm). If predrilling screw holes, **DO NOT** penetrate inner pipe.



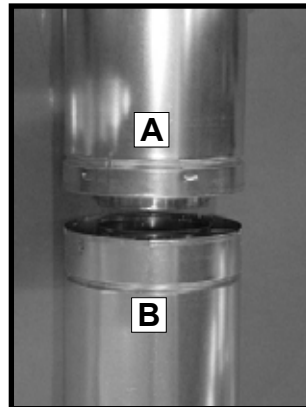**Figure 7.1 High Temperature Silicone Sealant**
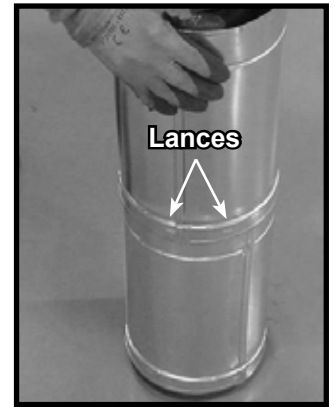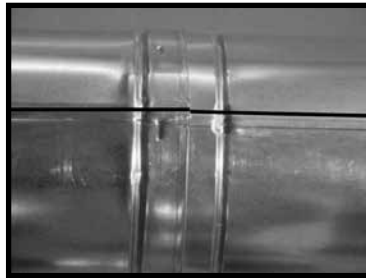


**Figure 7.2**



**Figure 7.3**

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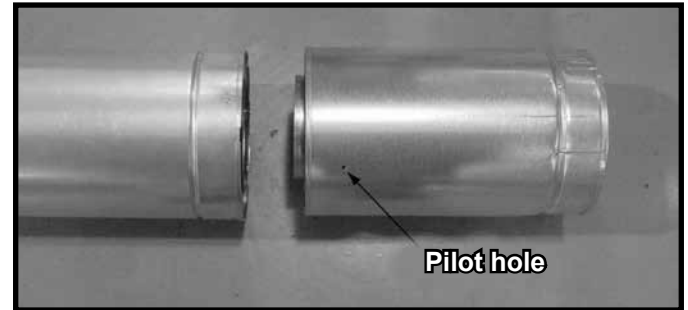

**CORRECT**


**INCORRECT**

**Figure 7.4 Seams**

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

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

- *Only outer pipes are sealed, sealing the inner flue is not required.*

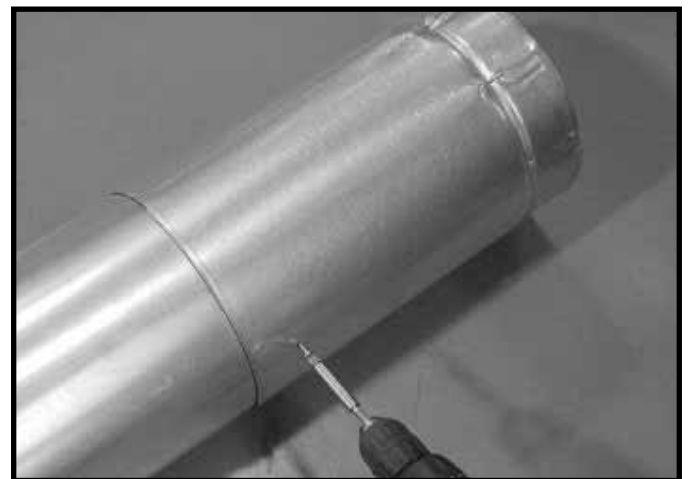- *All unit collar, pipe, slip section, elbow and cap outer flues shall be sealed.*

## B. Assemble Slip Sections

- Slide the inner flue of the slip section into the inner flue of the pipe section and the outer flue of the slip section over the outer flue of the pipe section. See Figure 7.5.

- Slide together to the desired length.


**Figure 7.5  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 7.6.


**Figure 7.6  Screws into Slip Section**

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

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

**NOTICE:** *When installing a vent system with an HRC termination cap, all pipe system joints shall be sealed using a high temperature silicone sealant (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.*



**Figure 7.8  Securing Horizontal Pipe Sections**

## C.  Secure the Vent Sections

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

- Vertical runs originating off the top of the appliance, with no offsets, must be supported every 8 feet (2.44 m) after the maximum allowed 25 feet (7.62 m) of unsupported rise.

- Horizontal runs must be supported every 5 feet (1.52 m).

- Vent supports or plumbers strap (spaced 120º apart) may be used to support vent sections. See Figures 7.7 and 7.8.

- 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.
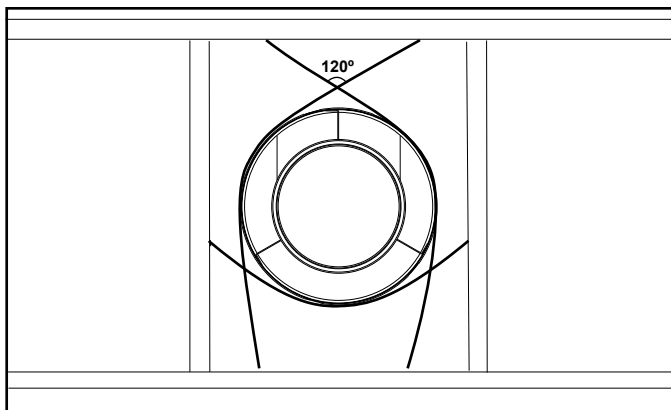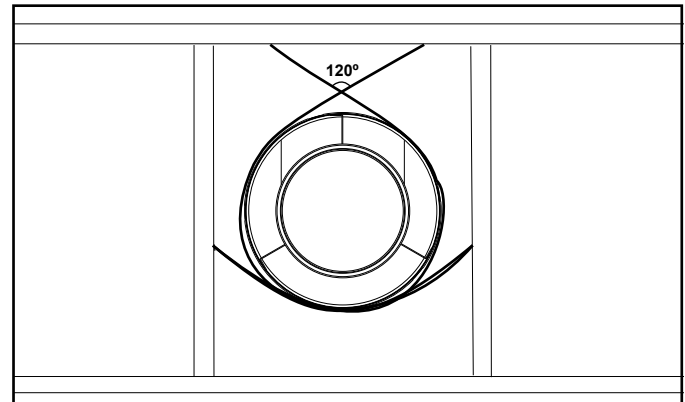
## D.  Disassemble Vent Sections

- Rotate either section (see Figure 7.9) so the seams on both pipe sections are aligned as shown in Figure 7.10.

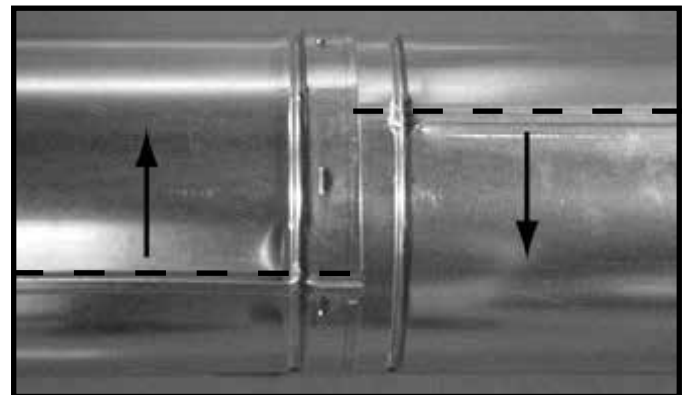- Pull carefully to separate the pieces of pipe.
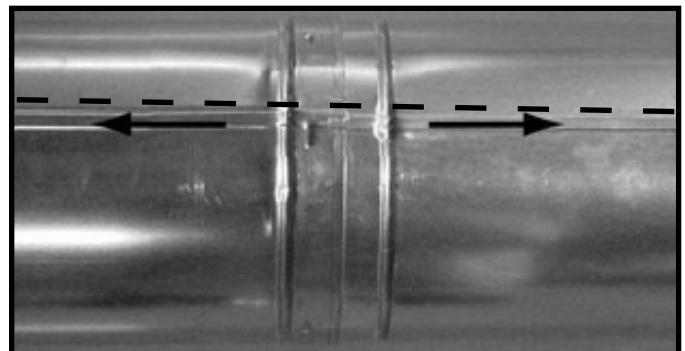


**Figure 7.9  Rotate Seams for Disassembly**



**Figure 7.10  Align and Disassemble Vent Sections**



**Figure 7.7  Securing Vertical Pipe Sections**

## E. Vertical Termination Requirements

### Install and Seal Metal Roof Flashing

• See minimum vent heights for various pitched roofs (Section 4, Figure 4.1) to determine the length of pipe to extend through the roof.

• Slide the roof flashing over the pipe sections extending through the roof as shown in Figure 7.11.

• Use an elastomeric or silicone sealant with a minimum of 150 ºF 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 7.11.

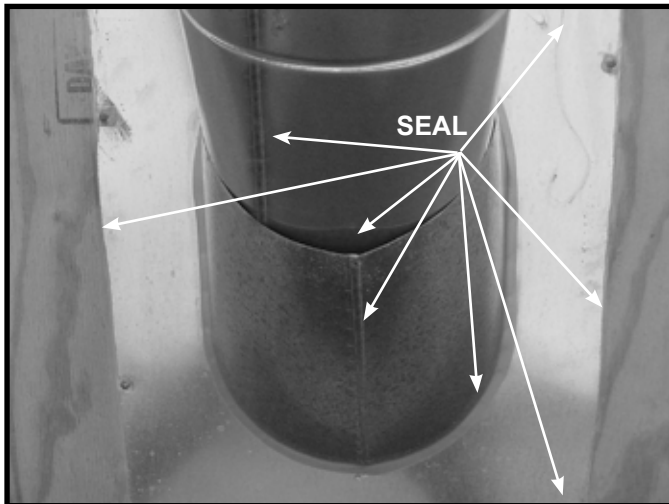• Seal the exposed pipe section seams that are located above the roof.



**Figure 7.11**

### Assemble and Install Storm Collar

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

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



**Figure 7.12  Insert Bolt into Brackets**

• Slide the assembled storm collar down the pipe section until it rests on the roof flashing. See Figure 7.12.

• Tighten nut and make sure the collar is tight against the pipe section.

• Seal around the top of the storm collar. See Figure 7.13.

### 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 7.13.
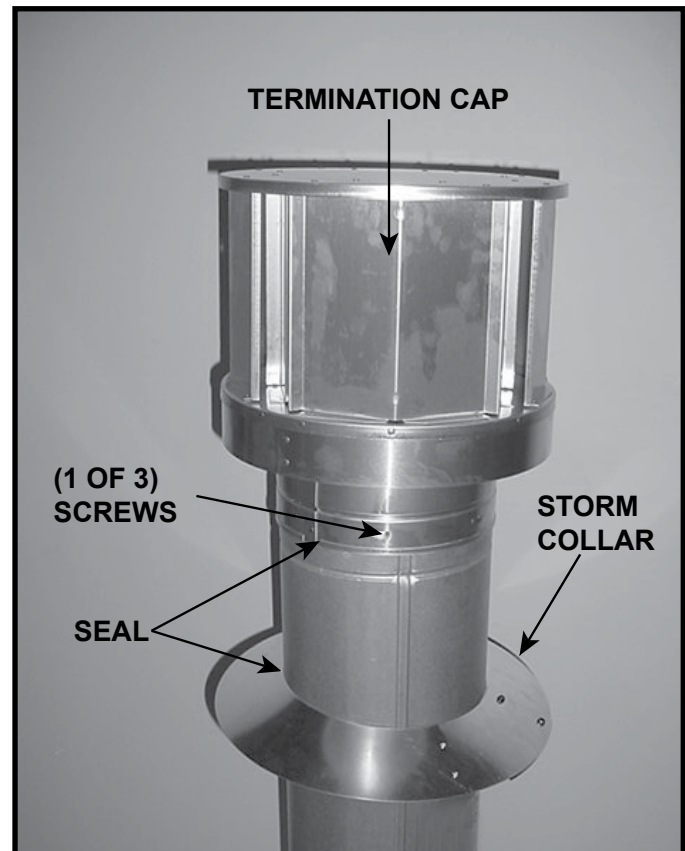


**Figure 7.13**

## F. Horizontal Termination Requirements

### Heat Shield Requirements for Horizontal Termination

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

- *DO NOT remove the heat shields attached to the wall shield firestop and the horizontal termination cap (shown in Figure 7.14).*

- *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 7.14.

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), the heat shields on the cap and wall shield firestop must be trimmed. A minimum 1-1/2 in. (38 mm) overlap MUST be maintained.

- Use an extended heat shield if the finished wall thickness is greater than 7-1/4 in. (184 mm).

- The extended heat shield may need to be cut to length maintaining sufficient length for a 1-1/2 in. (38 mm) overlap between heat shields.

- Attach the extended heat shield to either of the existing heat shields using the screws supplied with the extended heat shield. Refer to vent components diagrams in the back of this manual.

- Rest the small leg on the extended heat shield on top of the pipe section to properly space it from the pipe section.

> **Important Notice:** Heat shields may <u>not</u> be field constructed.

### Install Horizontal Termination Cap

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

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

*Failure to maintain overlap could cause overheating and fire.*

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

- Flash and seal as appropriate for siding material at outside edges of cap.

- When installing a horizontal termination cap, follow the cap location guidelines as prescribed by current **ANSI Z223.1** and **CAN/CGA-B149** installation codes and refer to Section 4 of this manual.

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

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

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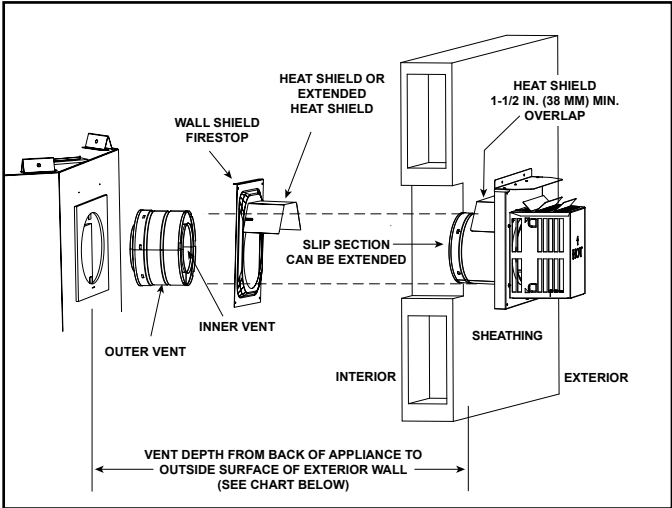


**Figure 7.14 Venting Through the Wall**

**Cap Specification Chart**
**(depth without using additional pipe sections)**

| | DVP-TRAPK1 Top Vent <u>Depth</u> | DVP-TRAP1 Rear Vent <u>Depth</u> | DVP-TRAPK2 Top Vent <u>Depth</u> | DVP-TRAP2 Rear Vent <u>Depth</u> |
|---|---|---|---|---|
| CERONA-36-IFT CERONA-42-IFT | 2-1/2 in. to 4-3/8 in. | N/A | 5 in. to 9 in. | N/A |
| | DVP-HPC1 Top Vent <u>Depth</u> | DVP-HPC1 Rear Vent <u>Depth</u> | DVP-HPC2 Top Vent <u>Depth</u> | DVP-HPC2 Rear Vent <u>Depth</u> |
| | 2-1/2 in. to 4-5/8 in. | N/A | 4-3/4 in. to 8-7/8 in. | N/A |

**DVP-TRAP1 can adjust 1-1/2 in. (3-1/8 to 4-5/8)**
**DVP-TRAP2 can adjust 4 in. (5-3/8 to 9-3/8)**
**DVP-HPC1 can adjust 2-1/8 in. (4-1/4 to 6-3/8)**
**DVP-HPC2 can adjust 4-1/8 in. (6-3/8 to 10-1/2)**

# 8 Electrical Information

## A. General Information

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

Incorrect wiring will damage controls.

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

• Wire the appliance circuit using a minimum 14-2 AWG with ground to unswitched 110-120 VAC. This is required for proper operation of the appliance.

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

• Low voltage and 110-120 VAC voltage cannot be shared within the same wall box.

• In some instances, the spark ignition of the appliance may cause intermittent, non-damaging, interference during the lighting sequence with a TV plugged into the same circuit. It is recommended that the appliance and TV use different circuits to mitigate the interference potential. If interference is occurring on the same circuit, the use of surge protectors may help alleviate the interference.

## Junction Box Wiring

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

• Remove the screw attaching the junction box/receptacle to the outer shell, rotate the junction box inward to disengage it from the outer shell. See Figure 8.1.

• Pull the electrical wires from outside the appliance through the opening into the valve compartment and secure wires with a Romex connector. See Figure 8.1.

• Make all necessary wire connections to the junction box/receptacle and reattach the junction box/receptacle to the outer shell.
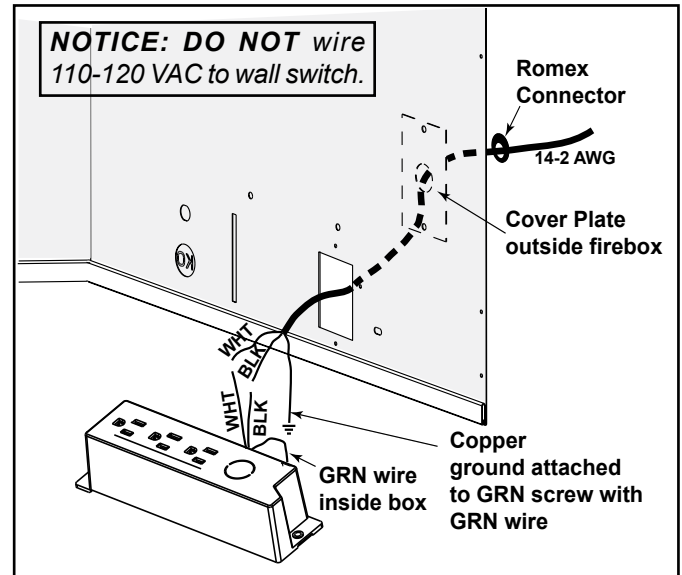


**Figure 8.1 Junction Box Detail**

## Accessories Requirements

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

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

## Electrical Service and Repair

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

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

## Component Tray

The electrical components are installed on the component tray. If it becomes necessary to remove the components, use the information in Figure 8.2 to remove them and reinstall them correctly on the component tray.

The IFT-ECM is held in position by two placement tabs (front and rear) and one plastic pin on the component tray. To remove the IFT-ECM, bend the rear placement tab back slightly and tip the IFT-ECM to disengage it from the pin and the shorter placement tab. To reinstall the IFT-ECM on the component tray, engage the front placement tab first.

The LED controller is held in position by two placement tabs and the four corner guides on the component tray. To disengage the LED Controller, bend either placement tab back slightly. Tip and lift the LED Controller out.

Note the orientation of the LED controller in Figure 8.2. The LED controller must be positioned as shown with the green, white and black wires toward the center of the tray. The LED controller has a rounded profile on the top side and a flat profile on the bottom side. Ensure it is positioned correctly on the component tray.

The IFT-ACM is attached to the IFT-ECM and is held in position by the rear placement tab. To remove the IFT-ACM, bend the rear placement tab back slightly and disengage the IFT-ACM from the IFT-ECM.
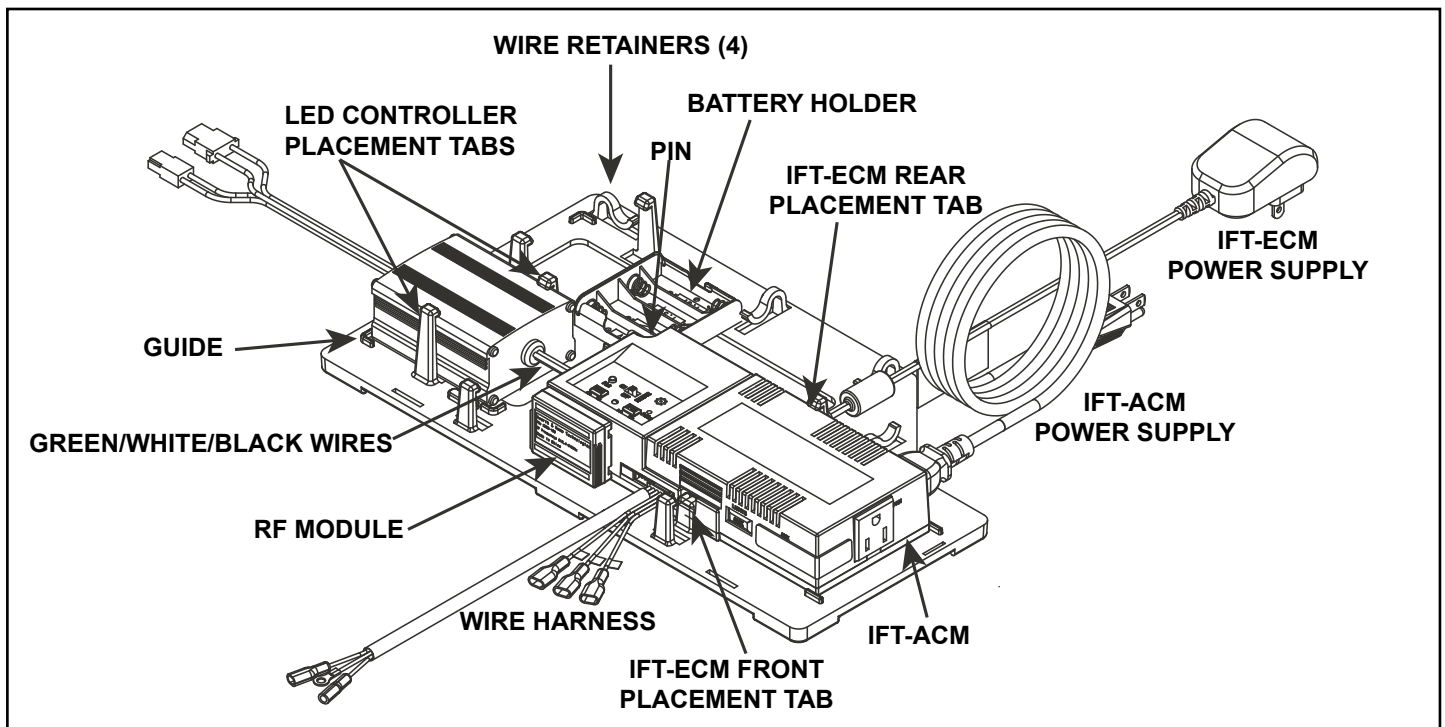


**Figure 8.2  Electrical Component Tray**

## B. Wiring Requirements

### IntelliFire Touch® Ignition System Wiring

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

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

- Refer to Figure 8.3, IntelliFire Touch Wiring Diagram.

- This appliance is equipped with an IntelliFire Touch control valve which operates on a 6 volt/1.5 AMP system.

- Plug the 6 volt transformer plug into the appliance junction box to supply power to the unit OR install 4 AA cell batteries (not included) into the battery pack before use.

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

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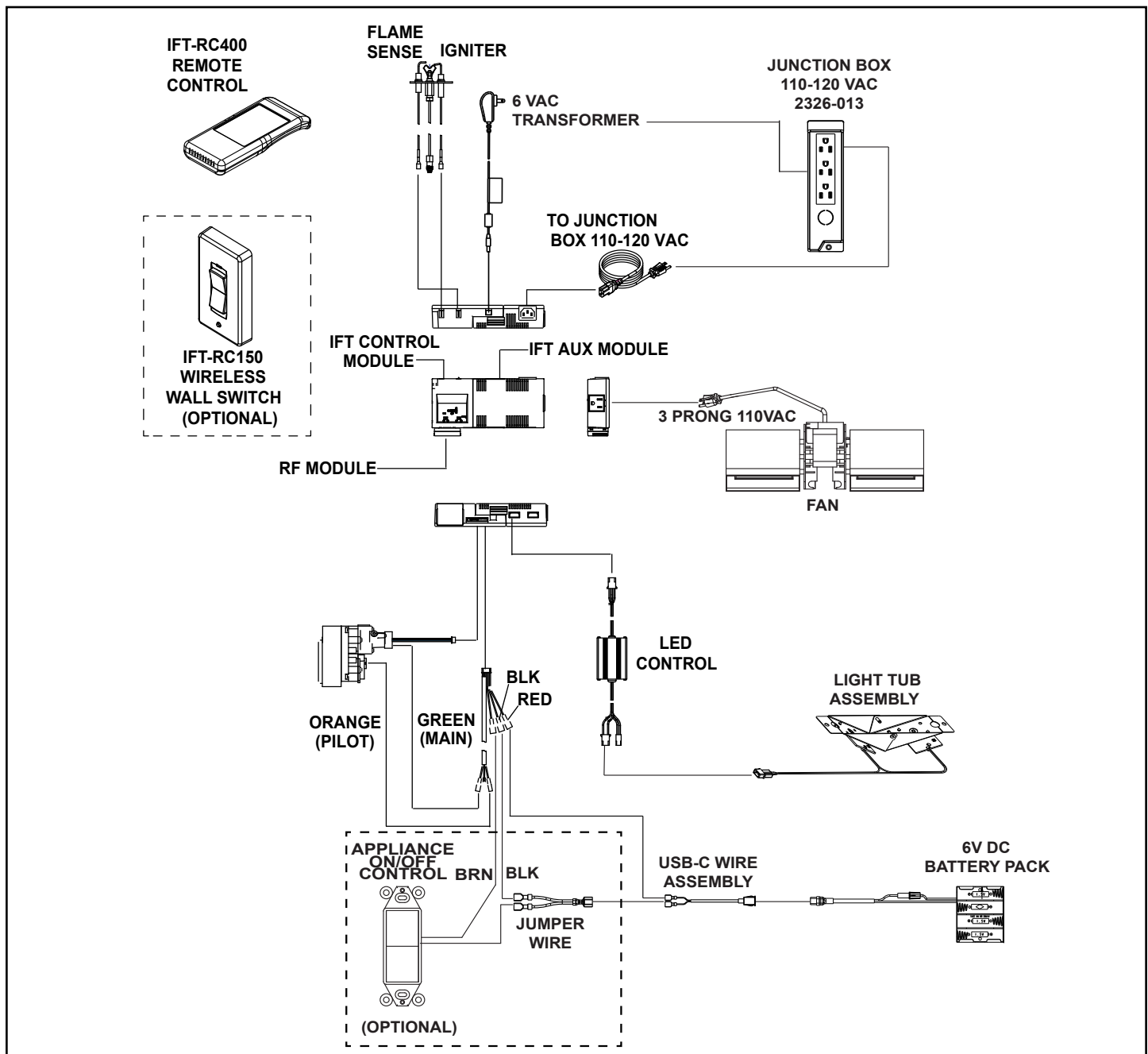


**Figure 8.3  IntelliFire Touch Wiring Diagram**

# 9   Gas Information

## A. Fuel Conversion

• Make sure the appliance is compatible with available gas types.

• Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

## B. Gas Pressure

| ⚠ WARNING |
|---|
| Fire Risk.<br>Risk of Fire!  Risk of Explosion!<br>Incorrect pressure will damage valve.<br>• Isolate gas supply piping BEFORE pressure testing gas line at test pressures above 1/2 psig.<br>• Close the manual shutoff valve BEFORE pressure testing gas line at test pressures equal to or less than 1/2 psig. |

• 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

• 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 ºF continuous exposure rating or stuffed with non-combustible, unfaced insulation to prevent cold air infiltration.

• Ensure that gas line does not come in contact with outer wrap of the appliance. Follow local codes.

• Pipe incoming gas line into valve compartment.

• Connect incoming gas line to the 1/2 in. (13 mm) NPT connection on manual shutoff valve.

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

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

• A small amount of air will be in the gas supply lines.

• *Ensure adequate ventilation.*

• *Ensure there are no ignition sources such as sparks or open flames.*

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

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

## D. High Altitude Installations

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

When installing above 2000 feet  elevation:

• In the USA: Reduce input rate 4% for each 1000 feet above 2000 feet.

• In CANADA: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet (1370 m)above sea level. Please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4500 feet (1370 m).

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

## E. Air Shutter Setting

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

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

Air shutter settings should be adjusted by a qualified service technician at the time of installation. The air shutter is set at the factory for a typical horizontal termination through a 2 X 6 wall:

CERONA-36-IFT and CERONA-42-IFT: 12 inches (305 mm) of vertical off the top of the appliance, 90 degree elbow, 24 inches (610 mm) of horizontal vent pipe.

Adjust air shutter for different vent runs. See Figure 9.1.

• Loosen the wing nut.

• Push the air handle in to close the air shutter.

• Pull the air handle out to open the air shutter.

• Tighten the wing nut.

### 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 of firebox. If flames are dark orange with dark, smoky tips, provide more primary air to the burner by opening the air shutter accordingly.*

**Shutter Settings**

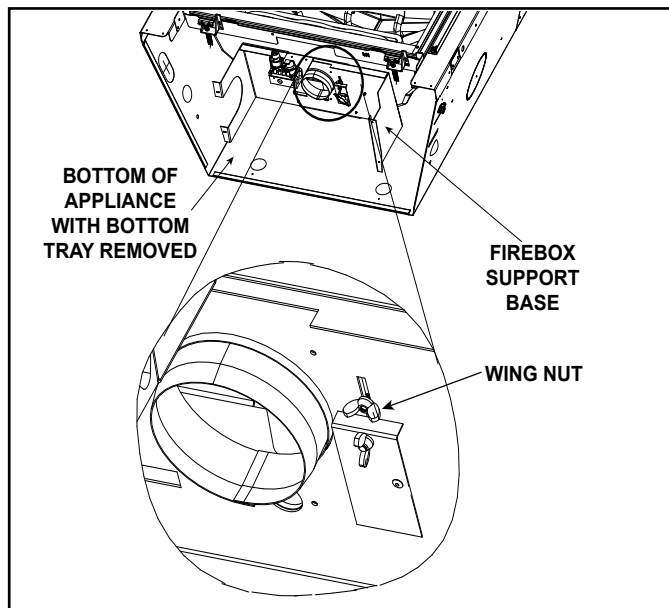| Burner | NG | PROPANE |
|---|---|---|
| CERONA-36-IFT | Full Open | Full Open |
| CERONA-42-IFT | Full Open | Full Open |



**Figure 9.1**

# 10 Finishing

## A. Facing Material

### ⚠ WARNING

**Risk of Fire!**

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

- Metal front of appliance may be covered with non-combustible materials only.

- Facing and/or finishing materials must not interfere with air flow through decorative barrier fronts, removal of decorative barrier fronts or access for service.

- Facing and/or finishing materials must never overhang into the glass opening.

- Observe all clearances when applying combustible materials.

- Seal gaps between the finished wall and appliance top and sides using a 300 °F minimum sealant. Refer to Figure 10.1.
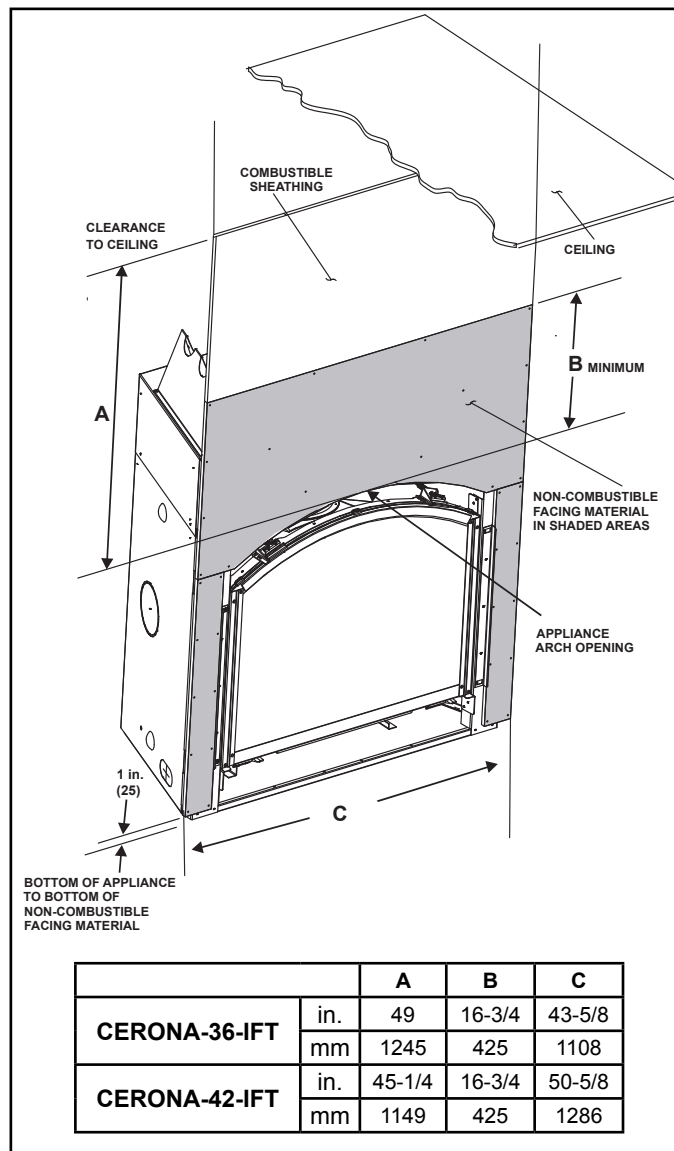


|  |  | A | B | C |
|---|---|---|---|---|
| **CERONA-36-IFT** | in. | 49 | 16-3/4 | 43-5/8 |
|  | mm | 1245 | 425 | 1108 |
| **CERONA-42-IFT** | in. | 45-1/4 | 16-3/4 | 50-5/8 |
|  | mm | 1149 | 425 | 1286 |

**Figure 10.1**

### ⚠ WARNING

Risk of Fire

- Non-combustible clearances **MUST** be maintained.

- Sheetrock, wood or other combustibles must **NOT** be used as sheathing or facing in the non-combustible zone.

- See **Section 3** for proper clearances.

- See **Section 1** for combustible/non-combustible definitions.

## B. Finishing Material Options

### Finishing Material Thickness up to 1-1/4 inch

Finishing material within this thickness range can be brought behind the decorative front's top and sides to the edge of the factory supplied non-combustible board. These non-combustible finishing materials must never overlap or obstruct the air outlet/inlet grille areas.
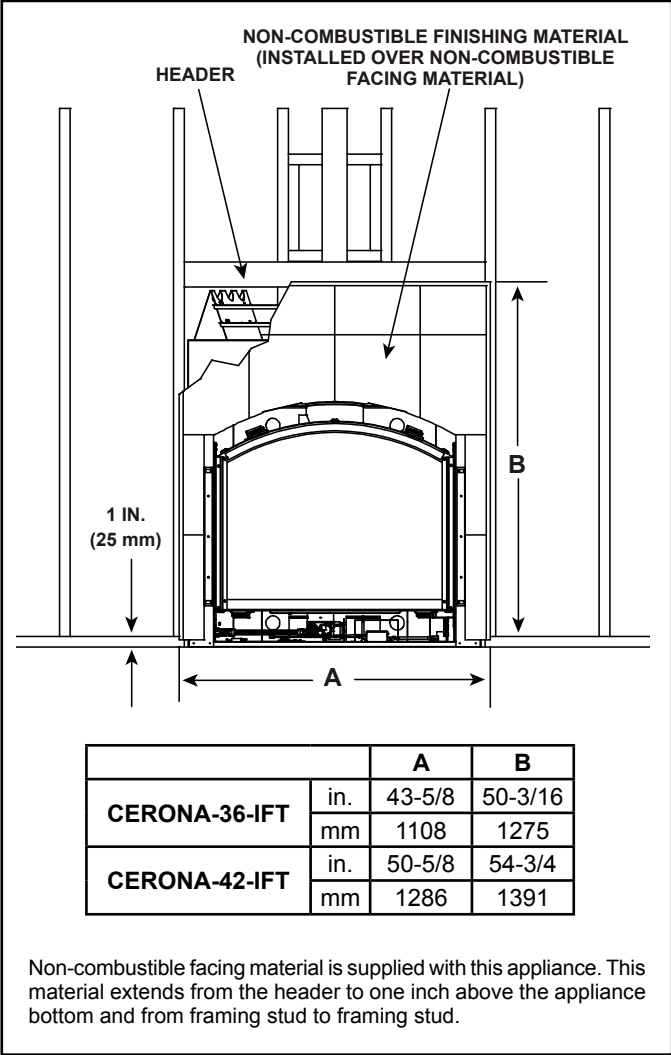


| | | A | B |
|---|---|---|---|
| **CERONA-36-IFT** | in. | 43-5/8 | 50-3/16 |
| | mm | 1108 | 1275 |
| **CERONA-42-IFT** | in. | 50-5/8 | 54-3/4 |
| | mm | 1286 | 1391 |

Non-combustible facing material is supplied with this appliance. This material extends from the header to one inch above the appliance bottom and from framing stud to framing stud.

**Figure 10.2**

---

### IMPORTANT INSTALLATION

**Note:** There are eight holes on the template pieces that are to be lined up with the holes in the non-combustible boards to ensure proper placment of the door after finishing materials are installed.

---

**Note:** See Section 3 (Figure 3.2) for decorative front dimensions.

### Finishing Material Thickness greater than 1-1/4 inch

A 3 piece steel template is provided with the appliance and should be mounted over the factory supplied non-combustible board before applying finishing material. The non-combustible finishing materials may be installed to the edge of the finishing template.

**Note:** If finishing material is installed past the finishing template then the decorative front will not fit properly.
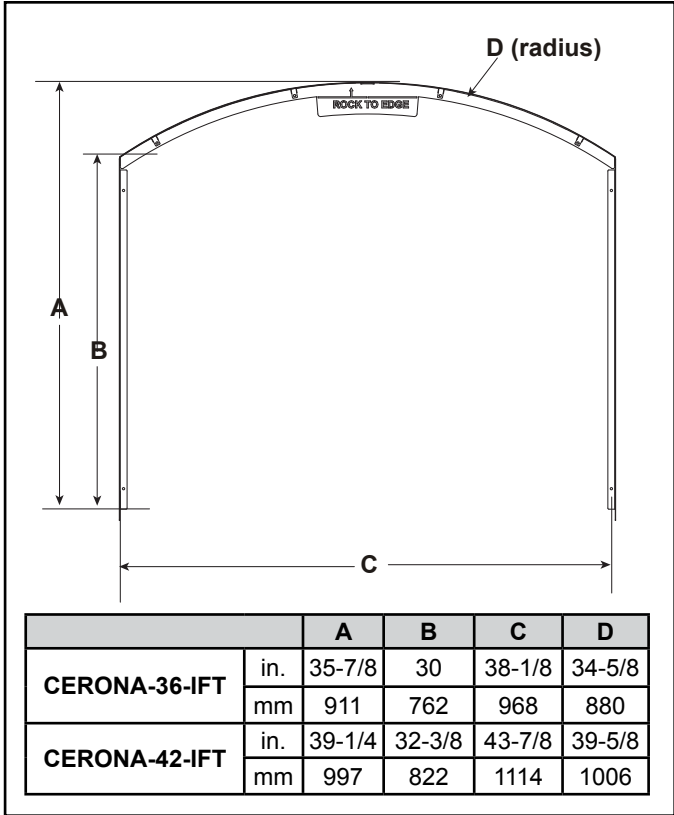


| | | A | B | C | D |
|---|---|---|---|---|---|
| **CERONA-36-IFT** | in. | 35-7/8 | 30 | 38-1/8 | 34-5/8 |
| | mm | 911 | 762 | 968 | 880 |
| **CERONA-42-IFT** | in. | 39-1/4 | 32-3/8 | 43-7/8 | 39-5/8 |
| | mm | 997 | 822 | 1114 | 1006 |

**Figure 10.3 Finishing Template Dimensions**

### Mounting Finishing Template

Once the factory supplied non-combustible boards have been installed, the 3 piece finishing template may be installed.

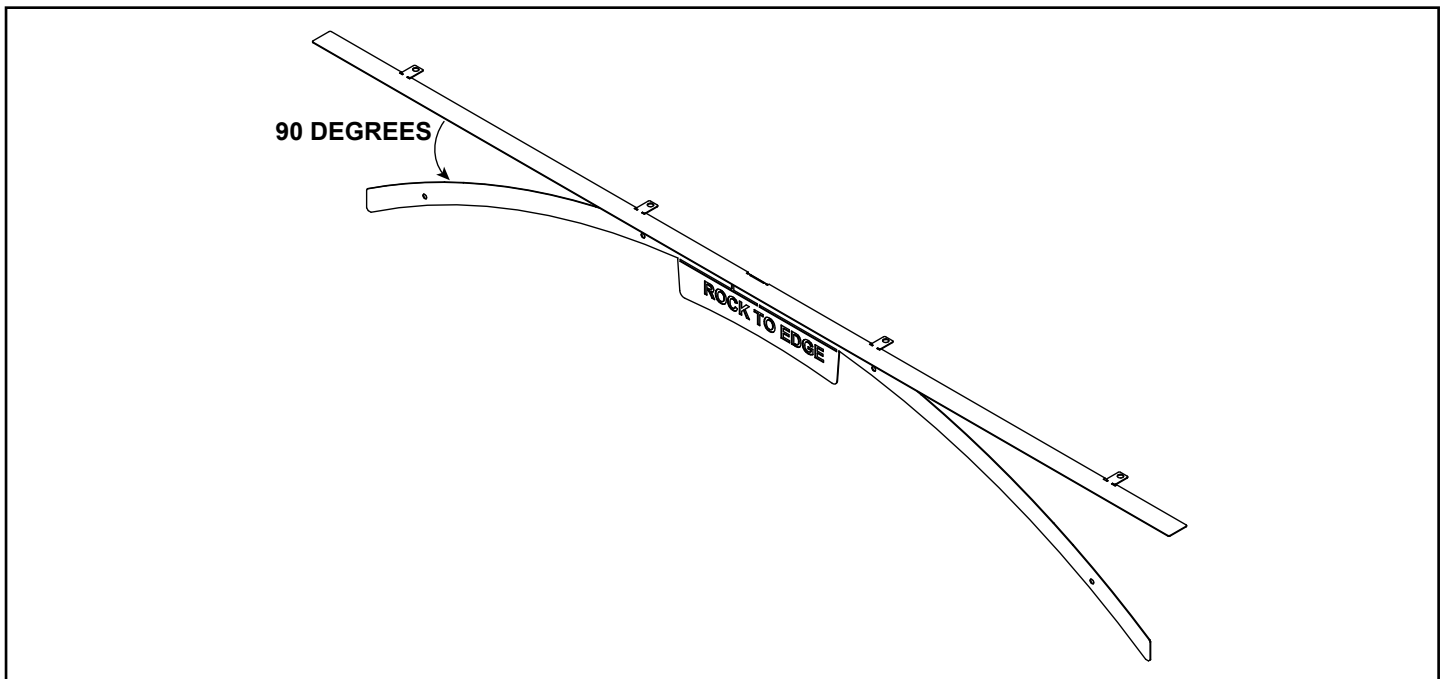1. Hand bend top arch piece down 90 degrees. See Figure 10.4.

**90 DEGREES**

**Figure 10.4   Top Arch Tab Piece Bent**

2. Hand bend the four tabs to ninety degrees.  See Figure 10.5.
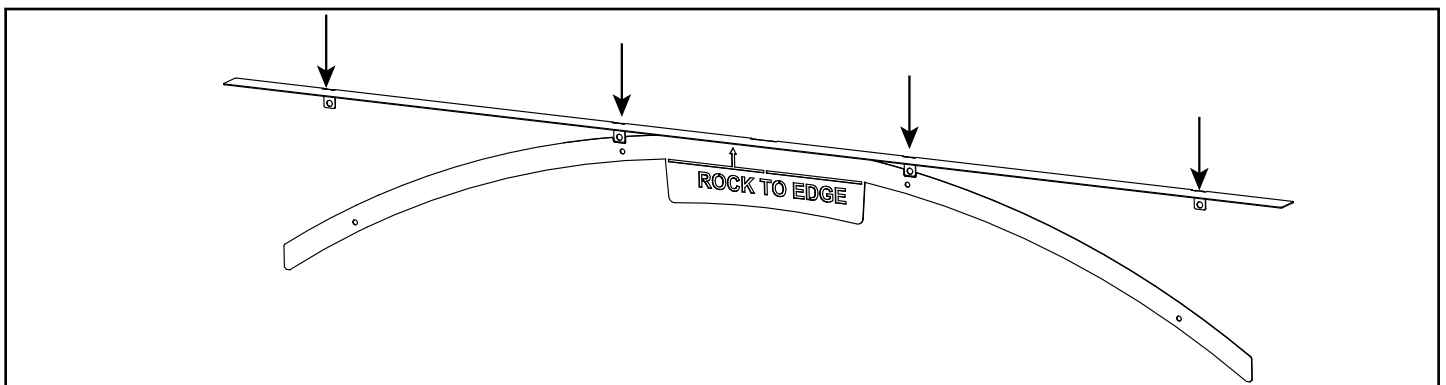


ROCK TO EDGE

**Figure 10.5 Arch Tabs Bent**

3.  Flex the Arch Finishing Template piece over the top of the arch to match the ouside profile of the top finishing template piece.  Hand bend both ends. See Figure 10.6.
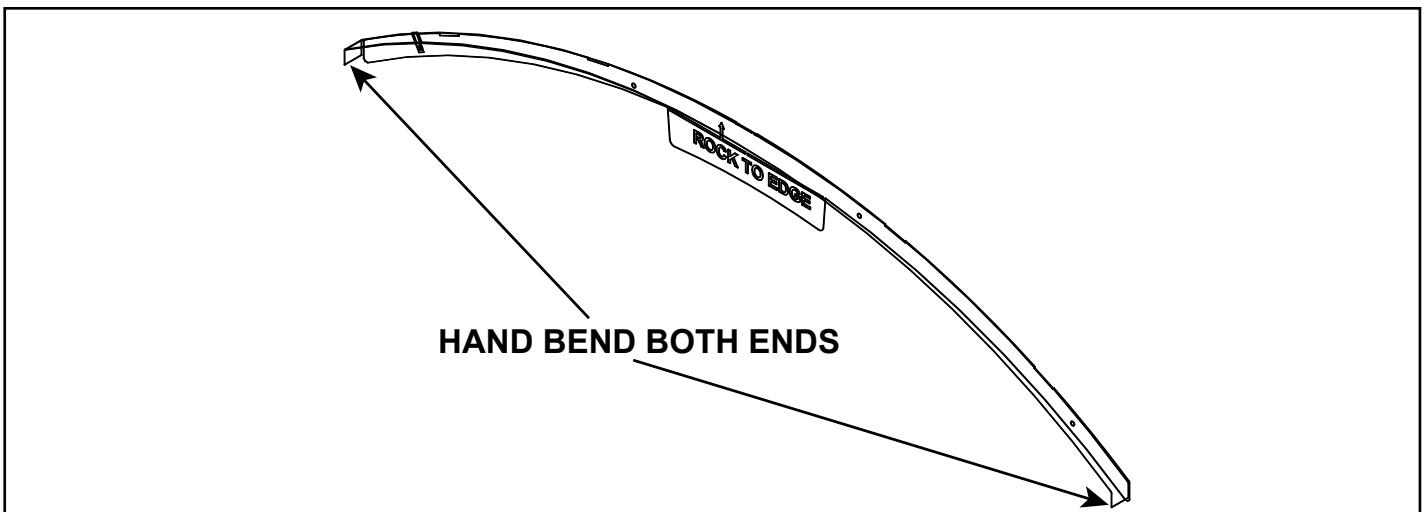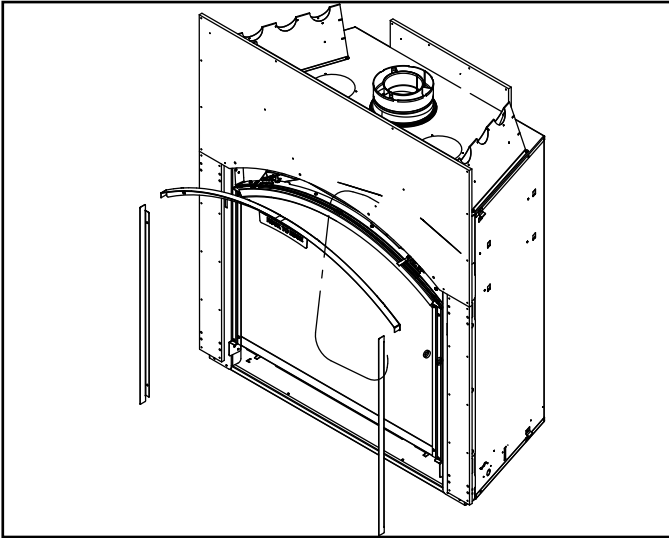


ROCK TO EDGE

**HAND BEND BOTH ENDS**

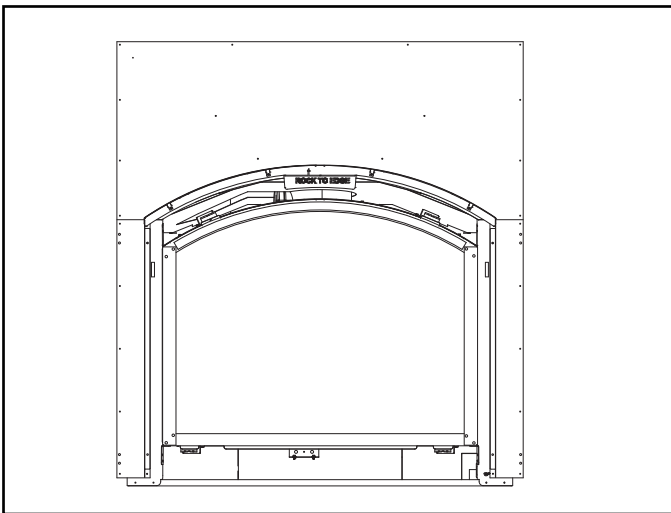**Figure 10.6 Top and Arch Finishing Pieces Flexed to Final Position**

4. Attach the arch trim finishing template, as well as both side finishing template pieces, to the appliance over top of the non-combustible board using the hole locations shown in Figure 10.7. Use the provided self tapping screws found in the manual bag to attach the template pieces.



**Figure 10.7 Top and Arch Finishing Pieces Assembled**

5. Install non-combustible finishing material up to the edge of the template. Once facing material is installed, the template can be removed and can be discarded. If the template remains in place, the "ROCK TO EDGE" tab must be removed.

A thin layer of mortar may be applied over the visible non-combustible board between finishing material and the fireplace opening. Make sure to confirm front fits. The trim piece will create a gap around the front to allow the front to sit on the appliance and still allow it to be removed and be placed in the correct position. The trim pieces can be painted if kept in place.



**Figure 10.8 Top and Arch Finishing Pieces Assembled**
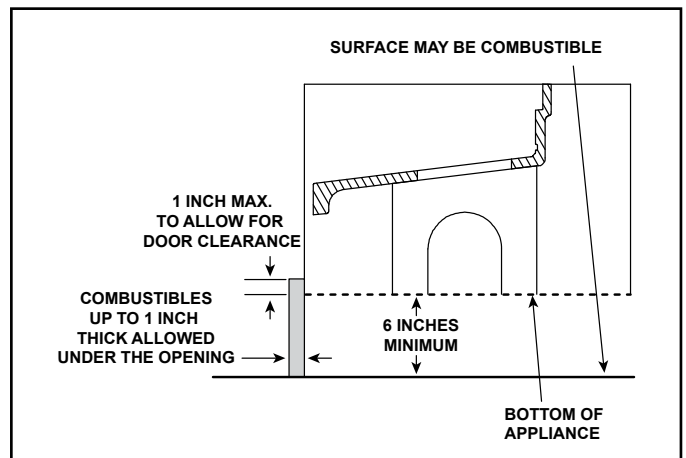
## C. Hearth Extension

> **⚠ WARNING**
>
> Fire Risk.
>
> Hearth extension required to protect combustible floors in front of appliance.
>
> • An 8 inch minimum hearth extension must be constructed of non-combustible material.

The base of the appliance may sit on a combustible surface. The area in front of the appliance must be protected by a noncombustible hearth extension, unless the appliance is raised a minimum of 6 inches above the combustible floor or hearth. See Figures 10.9, 10.10 and 10.11. If using vinyl flooring refer to Section 3.D.



**Figure 10.9 Appliance Raised a Minimum of 6 Inches Away from Combustible Surface.**
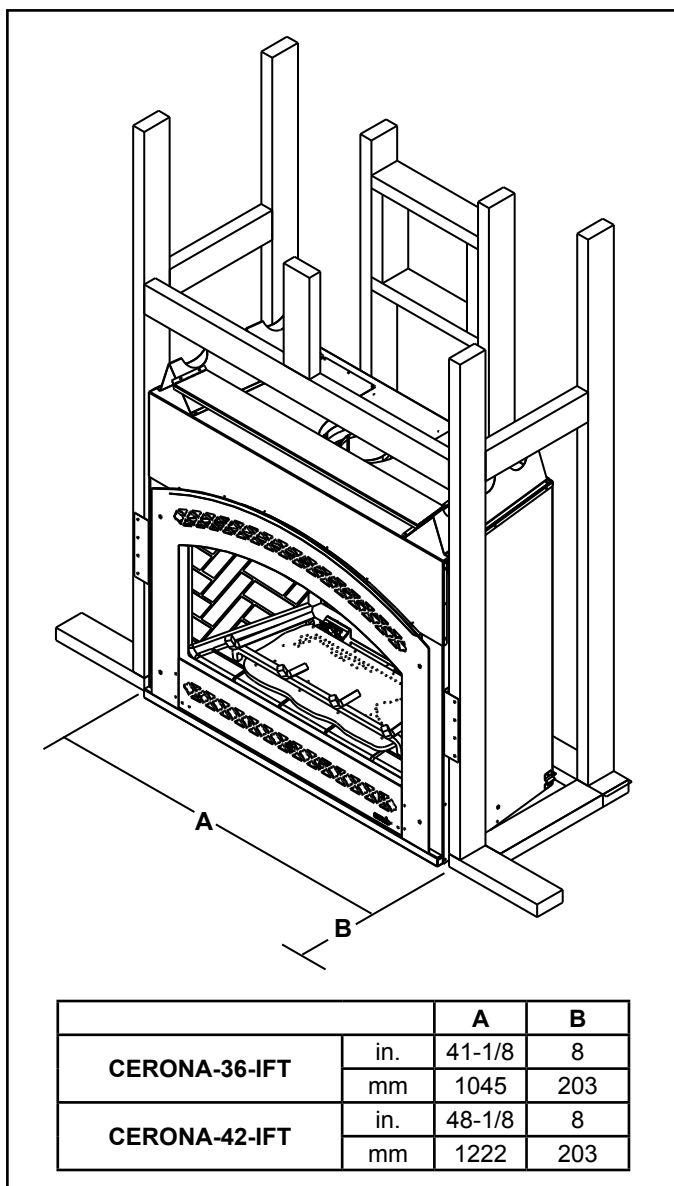
Figure 10.10 Hearth Extension Dimensions

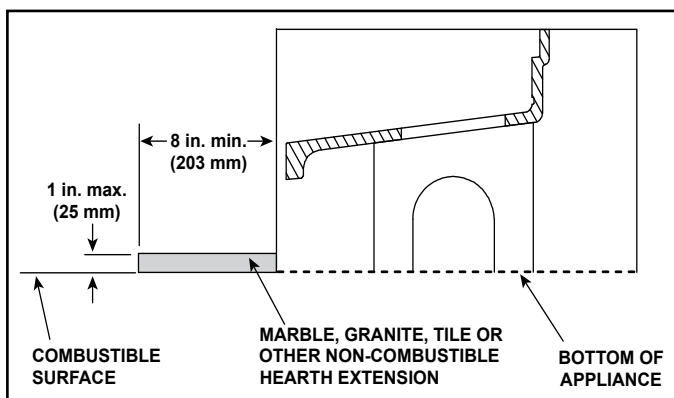| | | A | B |
|---|---|---|---|
| CERONA-36-IFT | in. | 41-1/8 | 8 |
| | mm | 1045 | 203 |
| CERONA-42-IFT | in. | 48-1/8 | 8 |
| | mm | 1222 | 203 |



Figure 10.11 Appliance Sitting on Combustible Surface.

## D. Mantel Projections

Figure 10.12 shows the minimum vertical and corresponding maximum horizontal dimensions of appliance mantels or other combustible projections above the top front edge of the appliance.

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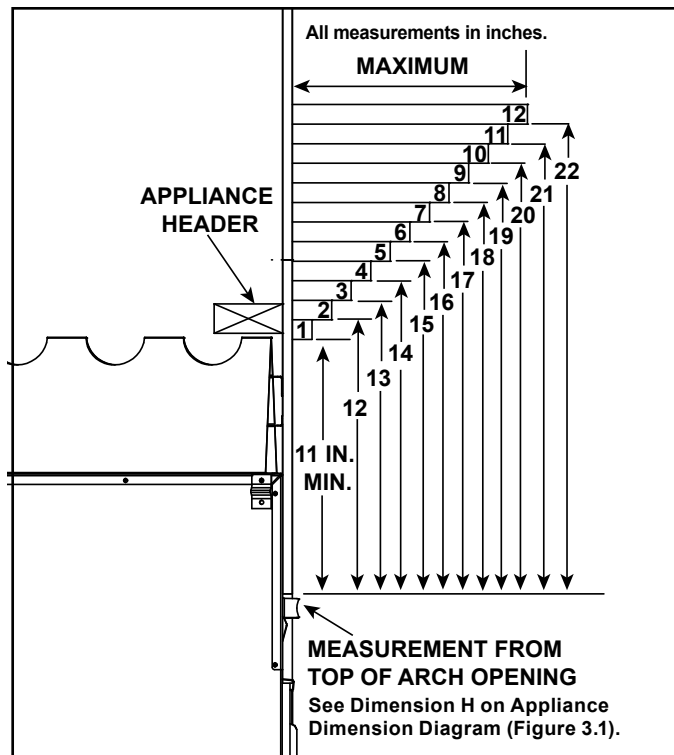
### Combustible Mantels



Figure 10.12 Clearances to mantels or other combustibles above appliance

### Combustible Mantel Legs or Wall Projections



| | | If **A** minimum is _____, then **B** maximum is _____. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **A** | in. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | mm | 25 | 51 | 76 | 102 | 127 | 152 | 178 | 203 | 229 | 254 | 279 | 305 |
| **B** | in. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | ∞ |
| | mm | 25 | 51 | 76 | 102 | 127 | 152 | 178 | 203 | 229 | 254 | 279 | ∞ |

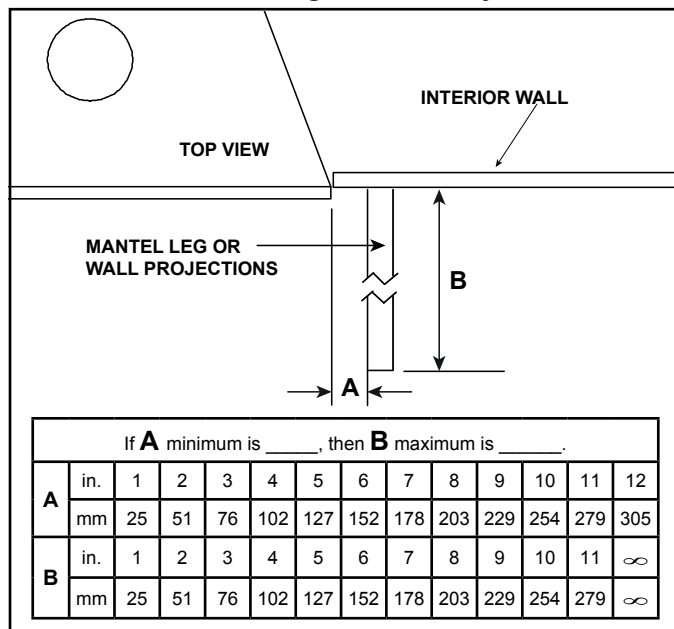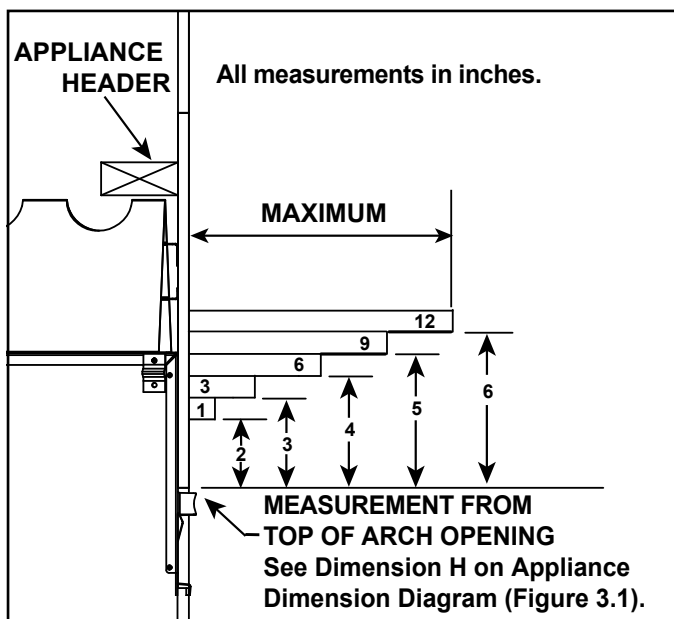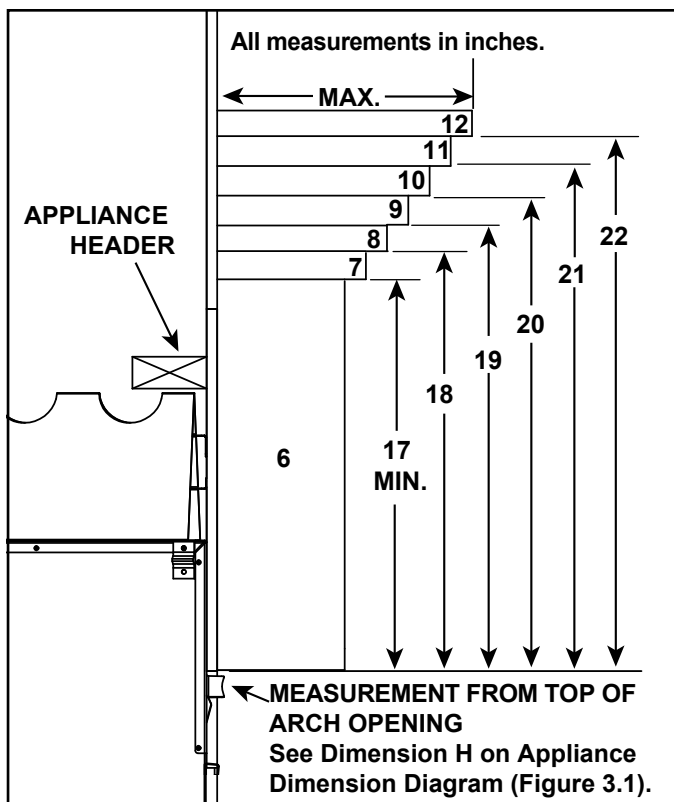Figure 10.13 Clearances to Mantel Legs or Wall Projections (Acceptable on both sides of opening.)

**Combustible Mantels with Passive Heat Installed**

APPLIANCE
HEADER

All measurements in inches.

MAXIMUM

12

9

6

3

1

2

3

4

5

6

MEASUREMENT FROM
TOP OF ARCH OPENING
See Dimension H on Appliance
Dimension Diagram (Figure 3.1).

➔ **Figure 10.14 Clearances to mantels or other combustibles
    above appliance with Passive Heat installed**

**Non-Combustible Mantels**

All measurements in inches.

MAX.

12

11

10

9

8

7

22

21

20

19

18

17
MIN.

6

APPLIANCE
HEADER

MEASUREMENT FROM TOP OF
ARCH OPENING
See Dimension H on Appliance
Dimension Diagram (Figure 3.1).

➔ **Figure 10.15 Clearances to mantels or other non-combustibles
    above appliance**

# 11  Appliance Setup

## A. Remove the Shipping Materials

Remove shipping materials from inside or underneath the firebox.

- The splatter guard is a piece of corrugated material used to protect the appliance during the installation process before finishing work on the whole hearth is complete. Splatter guards may be factory installed or accompany the decorative barrier front of the appliance, depending on the appliancee model. Splatter guards must be removed before appliance is fired.

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

## B. Clean the Appliance

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

## C. Inspect Firebox

Surface cracking or crazing of firebrick material is normal and expected. All cracks are acceptable and do not require replacement of the appliance or the firebox with the exception of:

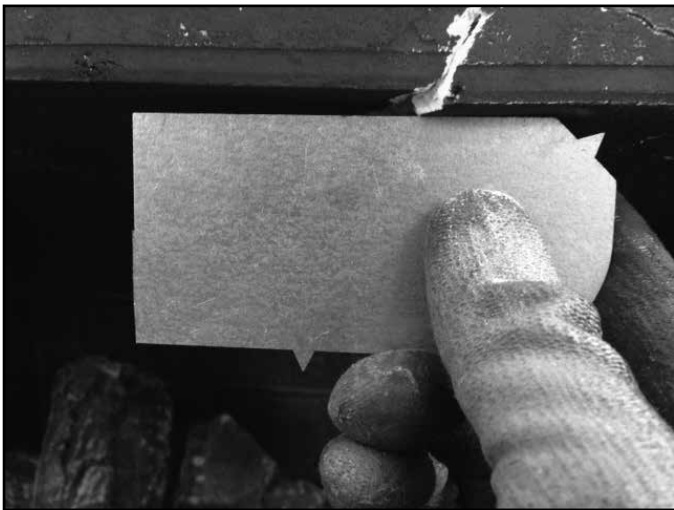- Cracks compromising the surface plane of the firebox. See Figure 11.1.



**Figure 11.1  Surface plane of firebox is compromised and should be replaced.**

## D. Install Media/Embers

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

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

- There are two types of ember shipped with the appliance. Glowing Embers® for the burner surface and Mystic Embers for the floor of the appliance.

- Glowing Embers CANNOT be placed directly over ports. Care should be taken not to cover the lighting trail of ports (from back to front).

- When placing Glowing Embers® onto the burner care should be taken so that the ports are not covered. Place the dime-size ember pieces in front and behind of the port trail, but not on or in between the ports (see Figure 11.2). Failure to follow procedure will likely cause lighting and sooting problems.

- Place Mystic Embers on areas of base refractory away from port holes. 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.
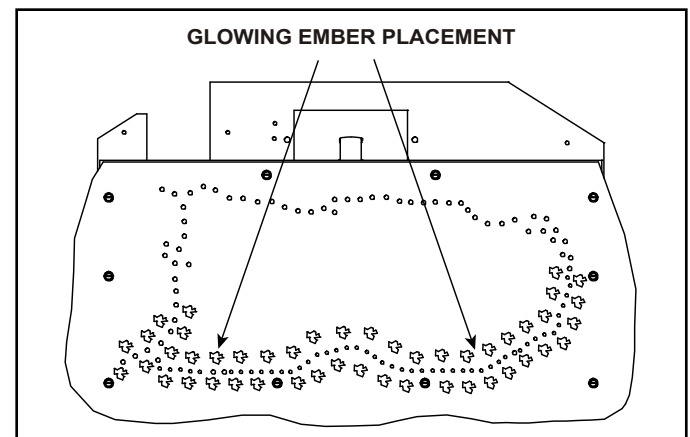


**GLOWING EMBER PLACEMENT**

**Figure 11.2  Placement of Embers**

If the gas logs have been factory installed they should not need to be positioned. If the logs have been packaged separately, refer to the following instructions.



**Figure 1**



**Figure 2**

**CAUTION:** Carefully remove the logs from the packaging. Logs are fragile!

**STEP 1. LOG #1 (SRV2106-701):** Place the notch on the left underside of log #1, over the log tab that is located on the right side of the pilot bracket. Move the right end of log #1 forward until it hits the stick on the burner. The closer the log is to the burner the more glow you will get. Don't place the log too close to the burner or sooting may occur. See Figure 2.



**Figure 3**



**Figure 4**

**STEP 2. LOG #2 (SRV2106-703):** Fit log #2 on the top branch of log #1 **(A)**. Rest the formed groove of the lower part of the log on the grate. It may be necessary to tilt Log #1 forward to properly engage with Log #2. See Figure 3.

**STEP 3. LOG #3 (SRV2106-705):** Place the "Y" portion of the log in the grate tine and rest the log on the formed portion of log #2. See Figure 4.

**Figure 5**

**STEP 4.** **LOG #4 (SRV2106-704):** Log #4 is form fitted to the burner. It sits on the middle portion of the burner as shown. See Figure 5.



**Figure 6**

**STEP 5.** **LOG #5 (SRV2106-702):** Place the right portion of log #5 on the formed area of log #1. Place the left side on the grate. Set the notch of the log on the grate. See Figure 6.

2106-935C



**Figure 7**

**STEP 6.** **LOG #6 (SRV2106-706):** Rest bottom notch of log #6 on the grate tine and the top part on formed section of log #5 (**A**). See Figure 7.

If the gas logs have been factory installed they should not need to be positioned. If the logs have been packaged separately, refer to the following instructions.



**Figure 1**



**Figure 2**

## STEP 1.  LOG #1 (SRV2107-701):
Place log #1 over the back side of the burner plate and slide forward until log hits the grate. Log cut out should fit over pilot bracket. See Figure 2.
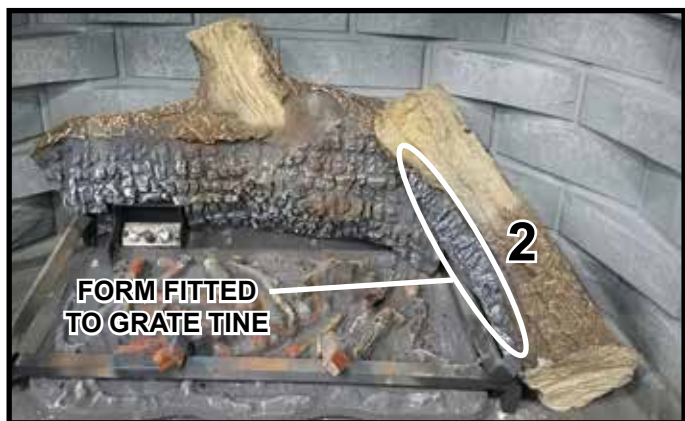


**Figure 3**



**Figure 4**

## STEP 2.  LOG #2 (SRV2107-702):
Fit log #2 on the right side of the grate. The log is formed so it will sit around the right grate bar. Rest the top of the log on the flat section of log #1. See Figure 3.

## STEP 3.  LOG #3 (SRV2107-703):
Place the tip of log #3 over the flat area on log #1. Place the left leg of the log on the far left grate tine **(A)**.  See Figure 4.

**Figure 5.**



**Figure 6.**

## STEP 4. LOG #4 (SRV2107-704):

Place the left formed end of log #4 on the burner detail located under log #3, and the notch on the right end of log #4 on the front grate bar. Log #3 may need to be adjusted for proper placement. See Figure 5.

## STEP 5. LOG #5 (SRV2107-705):

Place log #5 on the left side between the grate tine and firebox. **Note:** This log will be used to support log #6. See Figure 6.

2107-935C



**Figure 7**

## STEP 6. LOG #6 (SRV2107-706):

Place notch of log #6 over the left grate tine. Log should rest on the flat of log #5 and the flat on log #3. You may need to reposition log #5 to get log #6 to sit in the flats. See Figure 7.

## 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.
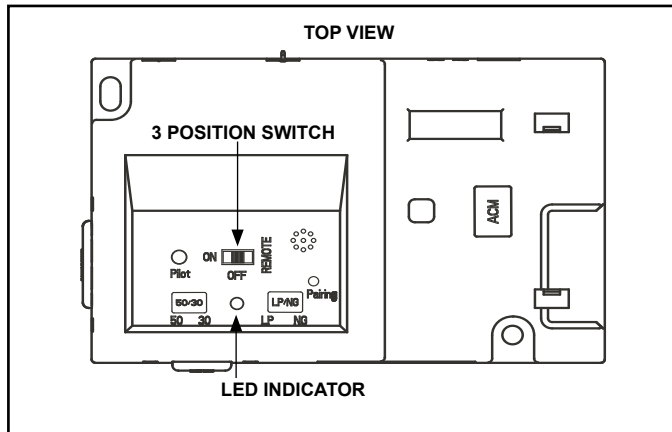


**Figure 11.3 IFT-ECM**

This appliance is factory-equipped with an IntelliFire Touch® remote control. The remote was paired to the appliance tested at the factory. It does not need to be paired again, unless an accessory kit will be added at the time of installation. If no additional accessory will be added, simply follow steps one through seven below.

1. If installed, remove batteries from remote.

2. Verify that the new appliance has power and secure electrical connections.

3. Adjust the ECM selector switch to 'REMOTE' mode.

4. Switch the master reset switch to 'ON' (if equipped).

5. Wait to verify LED indicator on the ECM stops flashing.

6. Install batteries in the RC400 remote.

7. The RC400 remote will automatically pair to the appliance as pre-set at the factory.

## G. Fixed Glass Assembly Removal and Replacement

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

• **DO NOT** *strike, slam or scratch glass.*

• **DO NOT** *operate appliance with glass removed, cracked, broken or scratched.*

• *Replace as a complete assembly.*

### Removing Fixed Glass Assembly

Pull the four glass assembly latches out of the groove on the glass frame. Remove glass door from the appliance (see Figure 11.4).

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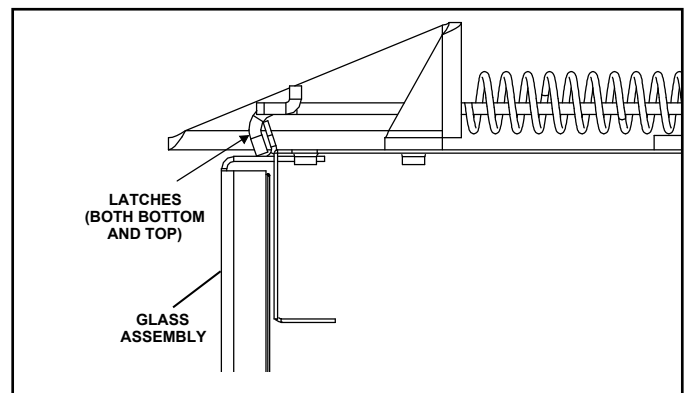


**Figure 11.4 Glass Assembly**

## H. Install Decorative Barrier

Marble, brass, brick, tile, or other noncombustible materials can be used to cover up the gap between the sheet rock and the appliance.

Do not obstruct or modify the air inlet/outlet grilles.

• **Decorative barrier fronts**

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

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

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

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

# 12 Reference Materials
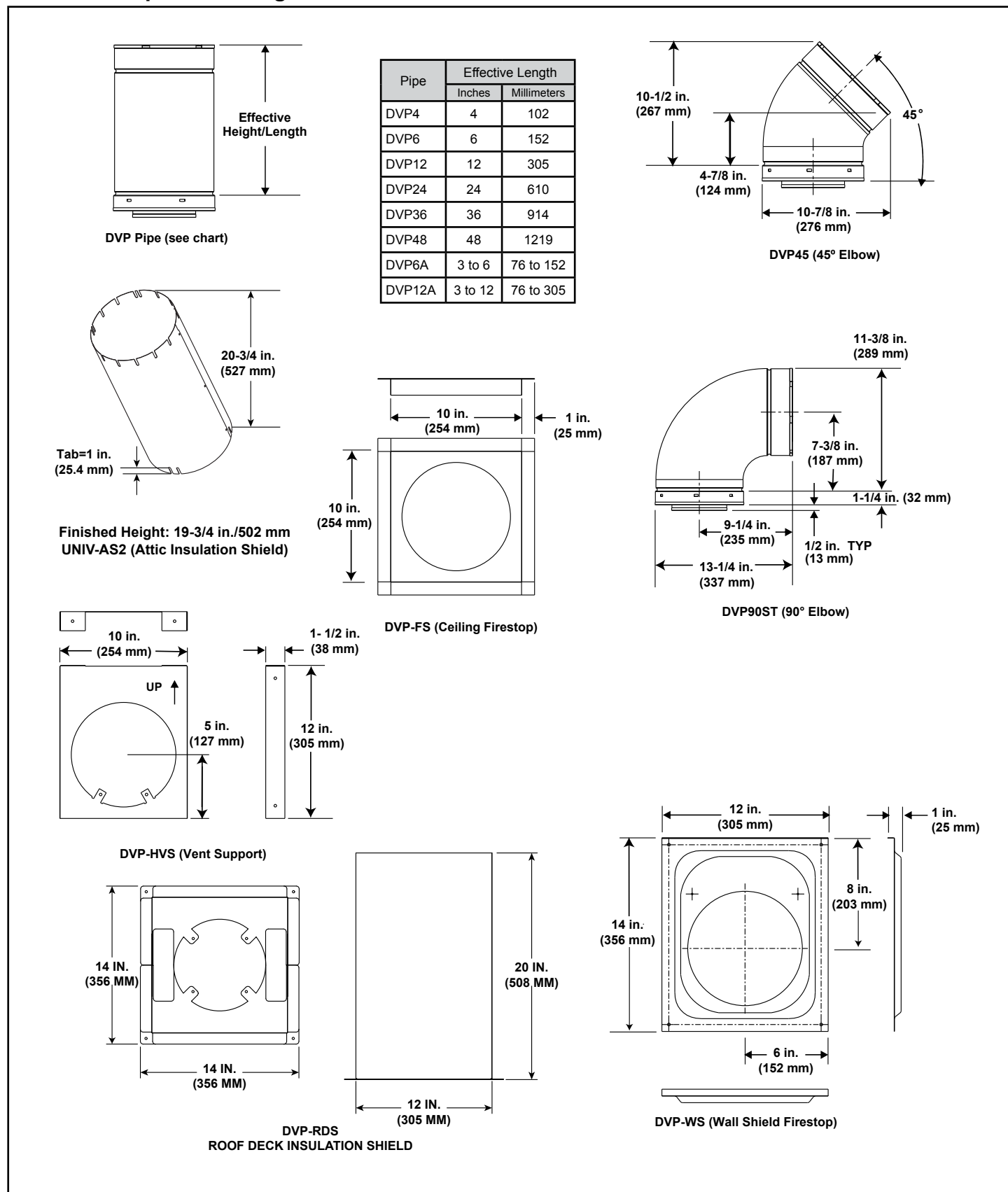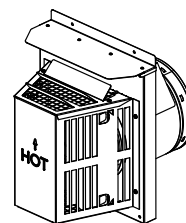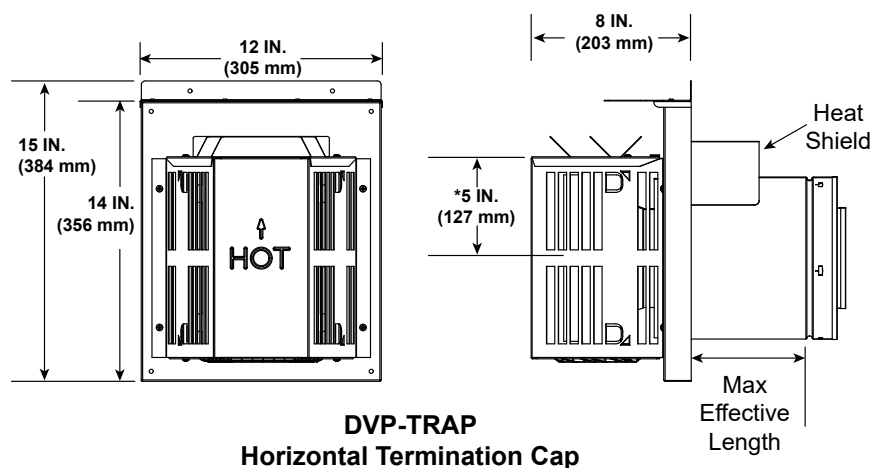
## A. Vent Components Diagrams



**DVP Pipe (see chart)**

| Pipe | Effective Length | |
|---|---|---|
| | Inches | Millimeters |
| DVP4 | 4 | 102 |
| DVP6 | 6 | 152 |
| DVP12 | 12 | 305 |
| DVP24 | 24 | 610 |
| DVP36 | 36 | 914 |
| DVP48 | 48 | 1219 |
| DVP6A | 3 to 6 | 76 to 152 |
| DVP12A | 3 to 12 | 76 to 305 |

Effective Height/Length

10-1/2 in. (267 mm)
4-7/8 in. (124 mm)
45°
10-7/8 in. (276 mm)
**DVP45 (45° Elbow)**

20-3/4 in. (527 mm)
Tab=1 in. (25.4 mm)
**Finished Height: 19-3/4 in./502 mm**
**UNIV-AS2 (Attic Insulation Shield)**

10 in. (254 mm)
1 in. (25 mm)
10 in. (254 mm)
**DVP-FS (Ceiling Firestop)**

11-3/8 in. (289 mm)
7-3/8 in. (187 mm)
1-1/4 in. (32 mm)
9-1/4 in. (235 mm)
1/2 in. TYP (13 mm)
13-1/4 in. (337 mm)
**DVP90ST (90° Elbow)**

10 in. (254 mm)
UP
5 in. (127 mm)
1-1/2 in. (38 mm)
12 in. (305 mm)
**DVP-HVS (Vent Support)**

14 IN. (356 MM)
14 IN. (356 MM)
**DVP-RDS**
**ROOF DECK INSULATION SHIELD**

20 IN. (508 MM)
12 IN. (305 MM)

12 in. (305 mm)
1 in. (25 mm)
14 in. (356 mm)
8 in. (203 mm)
6 in. (152 mm)
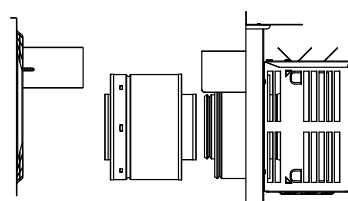**DVP-WS (Wall Shield Firestop)**

**Figure 12.1 DVP Vent Components**

# A. Vent Components Diagrams (*continued*)

Note: Heat shields MUST overlap by a minimum of 1-1/2 in. (38 mm). **The heat shield is 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. (102 mm) the existing heat shields must be field trimmed. If wall thickness is greater than 7-1/4 in. (184 mm) a DVP-HSM-B will be required.
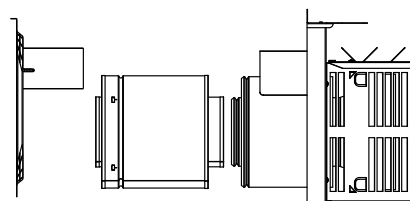
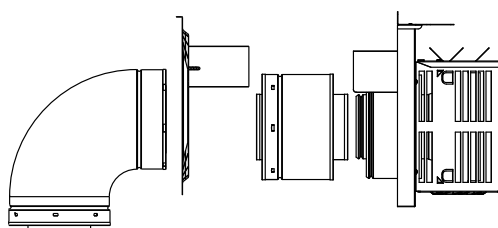* Center of the horizontal vent pipe to the vertical measuring surface.

| Term Cap | Minimum Effective Length | Maximum Effective Length |
|---|---|---|
| Trap1 | 3-1/8 in. | 4-5/8 in. |
| | 79 mm | 117 mm |
| Trap2 | 5-3/8 in. | 9-3/8 in. |
| | 137 mm | 238 mm |

**DVP-TRAP**
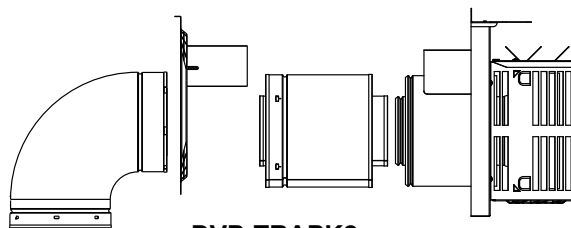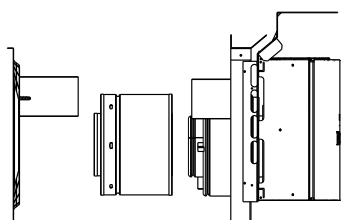**Horizontal Termination Cap**
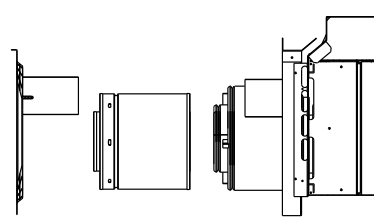
**DVP-TRAP1**

**DVP-TRAP2**

**DVP-TRAPK1**

**DVP-TRAPK2**

**DVP-HPC1**
**Can adjust 2-1/8 in. (4-1/4 to 6-3/8)**

**DVP-HPC2**
**Can adjust 4-1/8 in. (6-3/8 to 10-1/2)**

**Figure 12.2  DVP Vent Components**
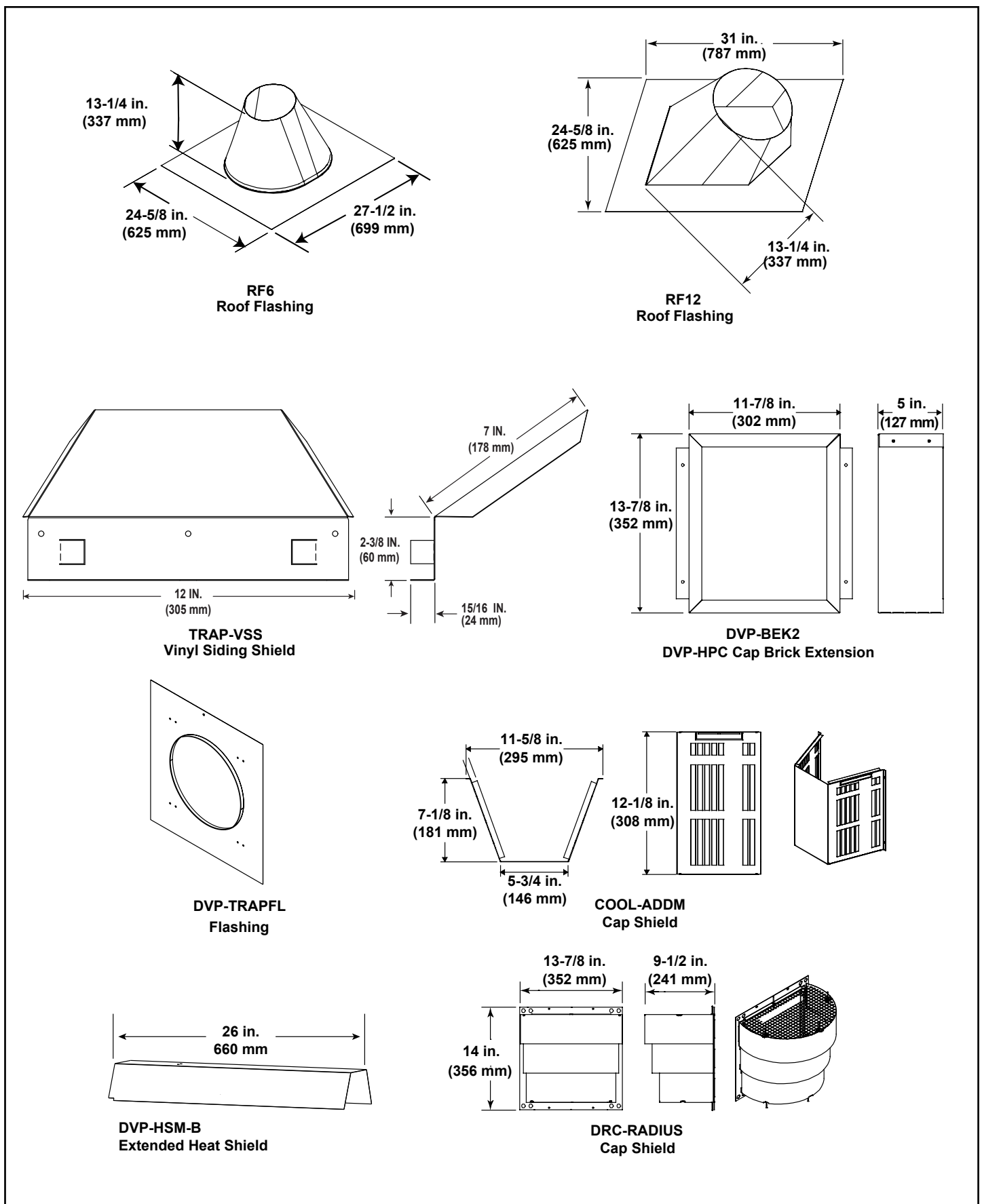
## A. Vent Components Diagrams (*continued*)

13-1/4 in.
(337 mm)

24-5/8 in.
(625 mm)

27-1/2 in.
(699 mm)

**RF6**
**Roof Flashing**

31 in.
(787 mm)

24-5/8 in.
(625 mm)

13-1/4 in.
(337 mm)

**RF12**
**Roof Flashing**

7 IN.
(178 mm)

2-3/8 IN.
(60 mm)

15/16 IN.
(24 mm)

12 IN.
(305 mm)

**TRAP-VSS**
**Vinyl Siding Shield**

11-7/8 in.
(302 mm)

5 in.
(127 mm)

13-7/8 in.
(352 mm)

**DVP-BEK2**
**DVP-HPC Cap Brick Extension**

**DVP-TRAPFL**
**Flashing**

11-5/8 in.
(295 mm)

7-1/8 in.
(181 mm)

5-3/4 in.
(146 mm)

12-1/8 in.
(308 mm)

**COOL-ADDM**
**Cap Shield**

26 in.
660 mm

**DVP-HSM-B**
**Extended Heat Shield**

13-7/8 in.
(352 mm)

9-1/2 in.
(241 mm)

14 in.
(356 mm)

**DRC-RADIUS**
**Cap Shield**

**Figure 12.3  DVP Vent Components**

# A. Vent Components Diagrams (*continued*)

**16-7/8 in. (429 mm)**

**14 in. (356 mm)**

**12 in. (305 mm)**

HOT

**12 in. 305 mm**

**7-1/4 in. (184 mm)**

**5-1/4 in. (133 mm)**

**12-1/2 in. (318 mm)**

**DVP-TVHW**
**VerticalTermination Cap (Highwind)**

**12-1/8 in. (314 mm)**

**7-1/8 in. (181 mm)**

**8-3/4 in. (222 mm)**

**1-5/8 in. (41 mm)**

**DVP-HPC**
**High Performance Cap**

**Figure 12.4 Vent Components**

**8-1/8 in.**
**(206 mm)**

**13 in.**
**(330 mm)**

**15 in.**
**(381 mm)**

**DVP-HRC-SS**

Effective Length
5-3/4 to 8-3/8 in.
146 to 213 mm

**5-1/2 in.**
**140 mm**

**8-3/8 in.**
**213 mm**
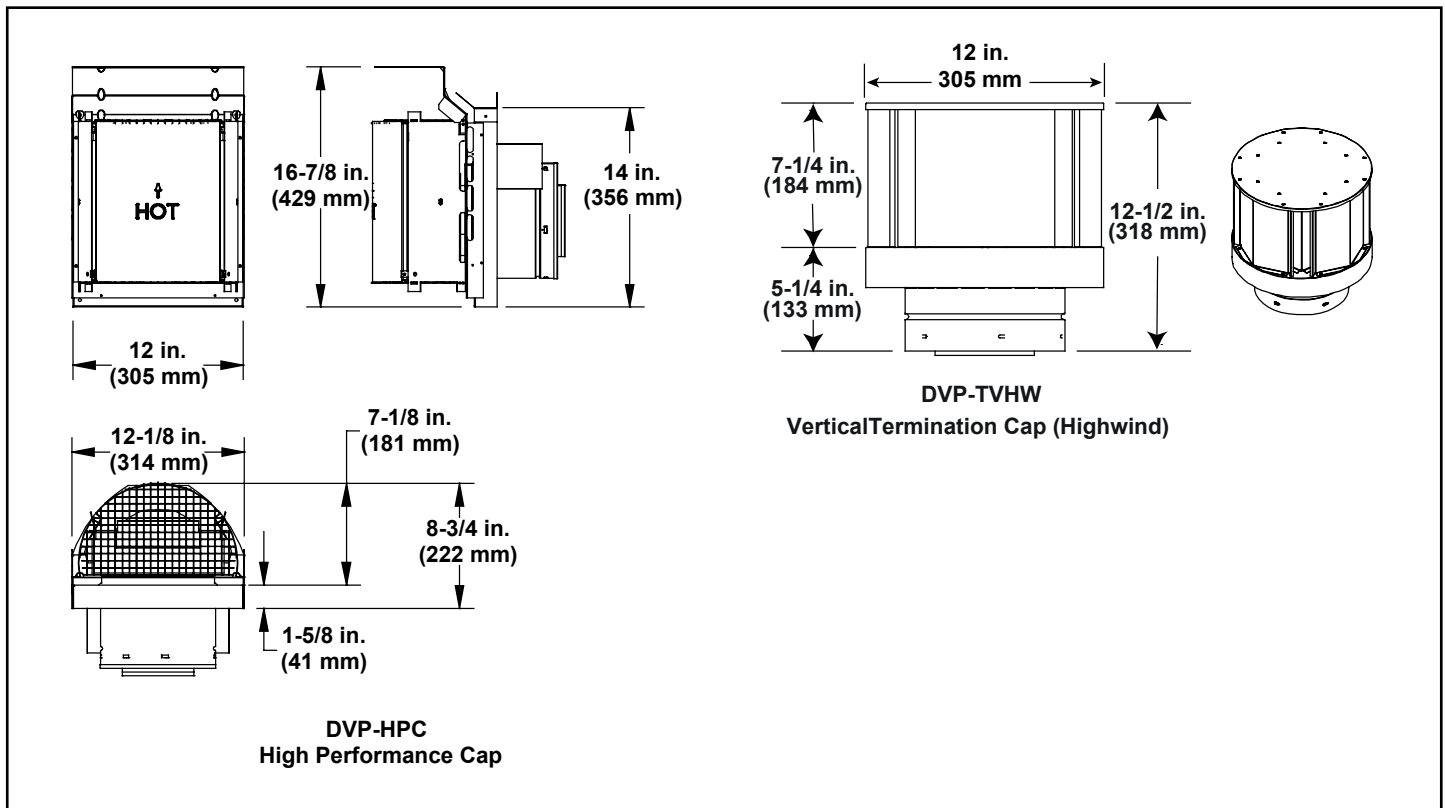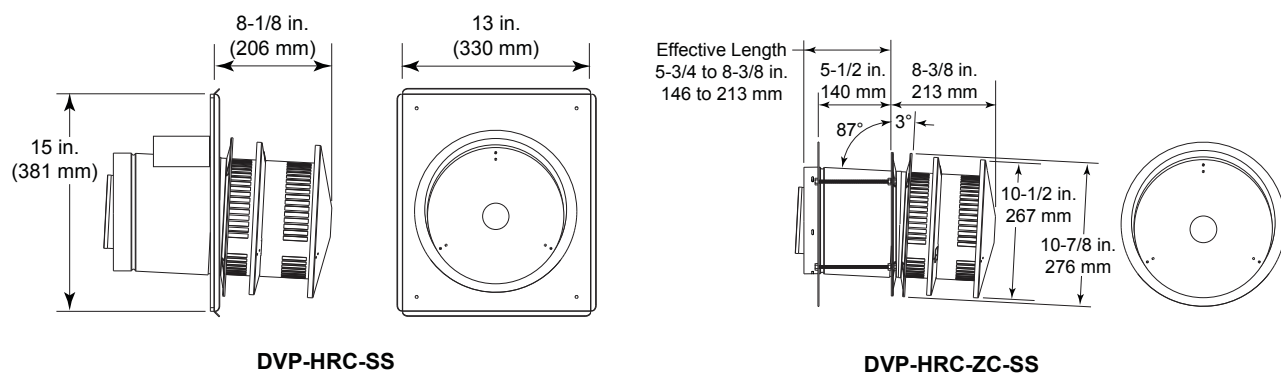
87°   3°

**10-1/2 in.**
**267 mm**
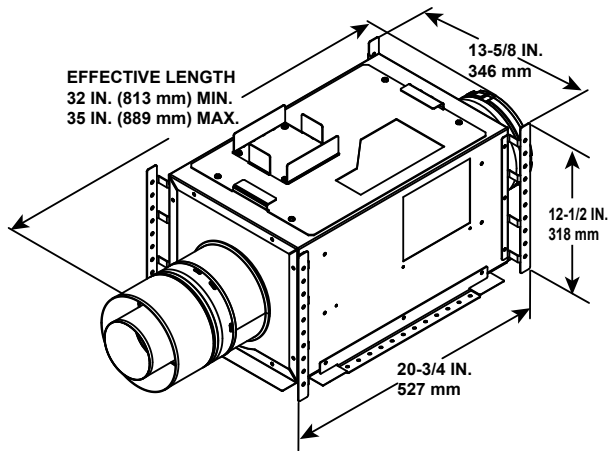
**10-7/8 in.**
**276 mm**

**DVP-HRC-ZC-SS**

## DECORATIVE TERMINATIONS/SHROUDS

Only use listed decorative termination caps/shrouds with Hearth & Home Technologies approved venting systems. This applies to both DVP and SLP venting systems.

## Decorative Terminations Caps/Shrouds

DTO134
DTO146
DTS134
DTS146
LDS33
LDS46
LDS-BV

**Figure 12.5 DVP Vent Components**

**EFFECTIVE LENGTH**
**32 IN. (813 mm) MIN.**
**35 IN. (889 mm) MAX.**

**13-5/8 IN.**
**346 mm**

**12-1/2 IN.**
**318 mm**

**20-3/4 IN.**
**527 mm**

**PVI-SLP-B**
**Power Vent Inline**

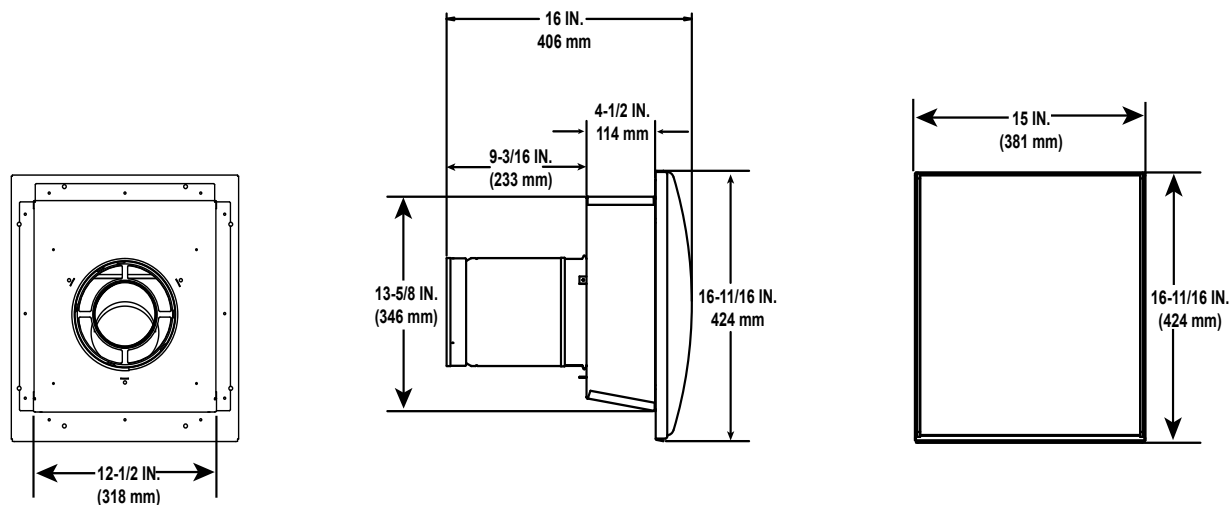| Required Wire Harness | |
|---|---|
| **DESCRIPTION** | **PART NUMBER** |
| 10 FT PV Wire Harness | PVI-WH10 |
| 20 FT PV Wire Harness | PVI-WH20 |
| 40 FT PV Wire Harness | PVI-WH40 |
| 60 FT PV Wire Harness | PVI-WH60 |
| 80 FT PV Wire Harness | PVI-WH80 |
| 100 FT PV Wire Harness | PVI-WH100 |

**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.
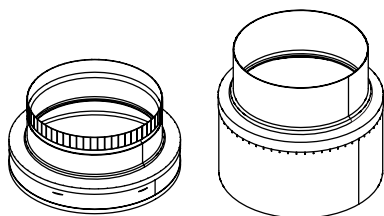Option A: IFT-RC400 and/or IFT-WFM, IFT-ACM and IntelliFire App that can be downloaded from the app store.
**OR**
Option B: IFT-RC150, IFT-ACM, IFT-WFM and an IntelliFire App that can be downloaded from the app store. These accessories are purchased separately from the PVI-SLP-B. Contact your dealer to order.



**16 IN.**
**406 mm**

**4-1/2 IN.**
**114 mm**

**9-3/16 IN.**
**(233 mm)**

**15 IN.**
**(381 mm)**

**13-5/8 IN.**
**(346 mm)**

**16-11/16 IN.**
**424 mm**

**16-11/16 IN.**
**(424 mm)**

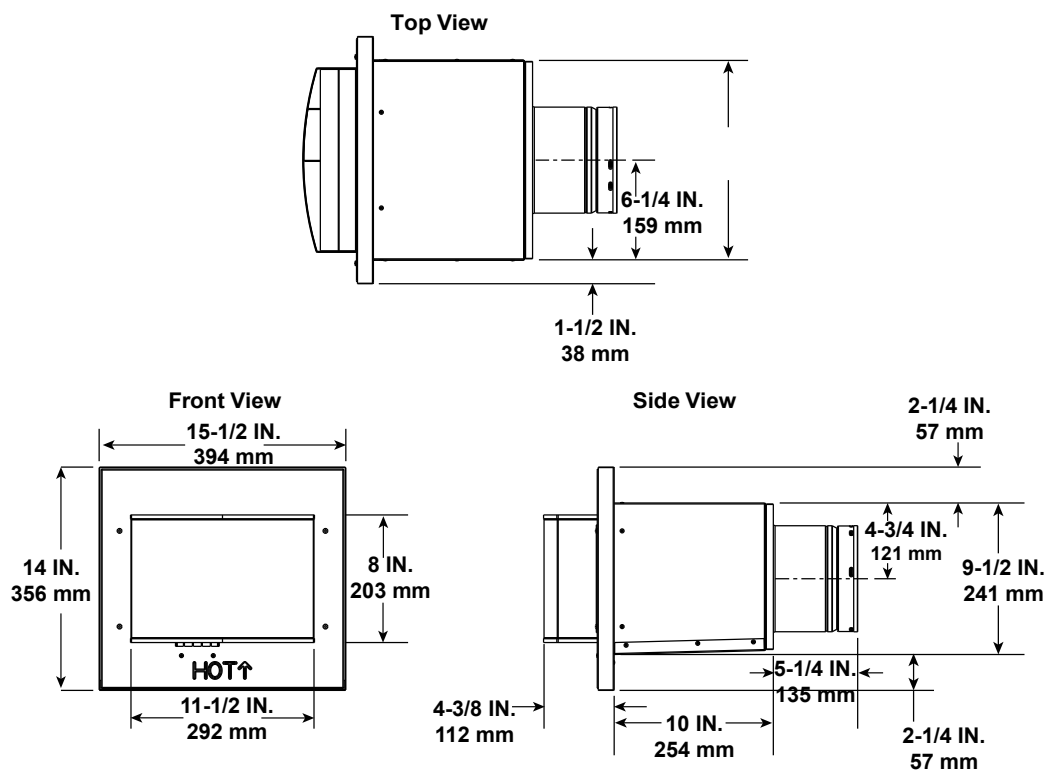**12-1/2 IN.**
**(318 mm)**

**SLP-LPC**
**SLP Low Profile Cap**
**(Approved for use with PVI-SLP-B only)**



**DVP-2SL**
**Adapter**

**Figure 12.6   PVI-SLP-B Vent Components**

## A. Vent Components Diagrams *(continued)*

**Top View**

6-1/4 IN.
159 mm

1-1/2 IN.
38 mm

**Front View**

15-1/2 IN.
394 mm

14 IN.
356 mm

8 IN.
203 mm

HOT↑

11-1/2 IN.
292 mm

**Side View**

2-1/4 IN.
57 mm

4-3/4 IN.
121 mm

9-1/2 IN.
241 mm

4-3/8 IN.
112 mm

5-1/4 IN.
135 mm

10 IN.
254 mm

2-1/4 IN.
57 mm

**PVLP-SLP**
**Power Vent Low Profile**

**Note:** Wire harnesses required to power the PVLP-SLP connect to the appliance and are ordered separately from PVLP-SLP. Contact your dealer to order.
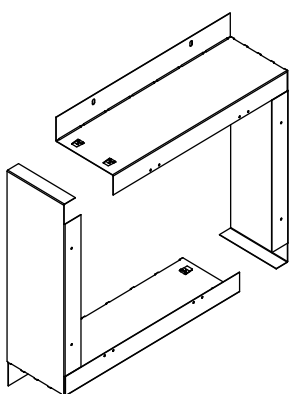
**Note:** A PVLP-HS heat shield is available and sold separately.  Use if the PVLP-SLP is installed in a high traffic area.

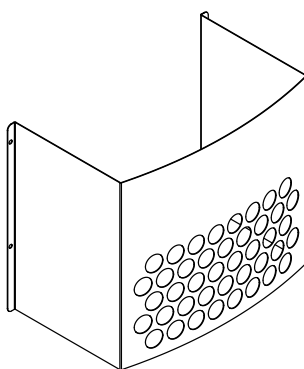**Note:** The PVLP-SLP requires one of the following options to be installed on this appliance.
Option A: IFT-RC400 and/or IFT-WFM, IFT-ACM and IntelliFire App that can be downloaded from the app store.
**OR**
Option B: IFT-RC150, IFT-ACM, IFT-WFM and an IntelliFire App that can be downloaded from the app store.  These accessories are purchased separately from the PVLP-SLP. Contact your dealer to order.
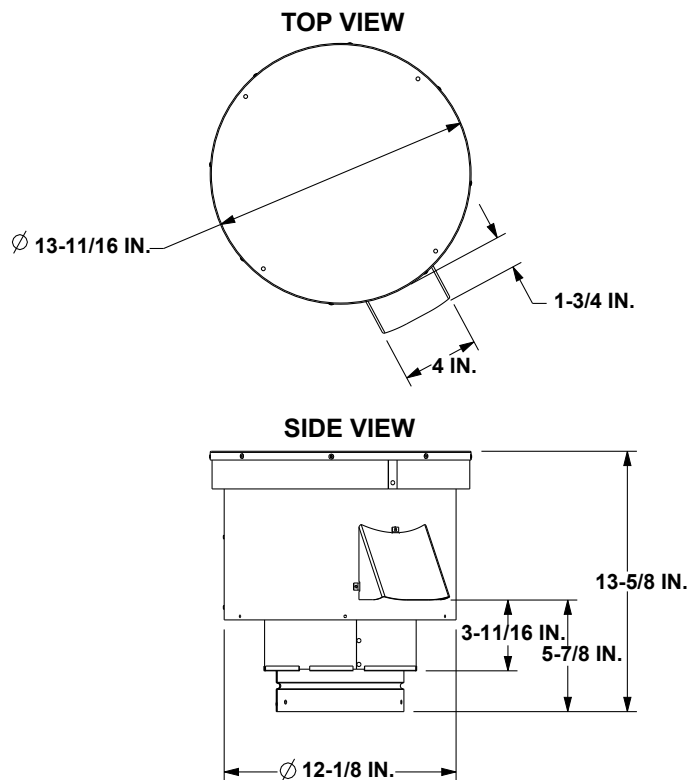
**PVLP-BEK**
**Brick Kit**

**PVLP-HS**
**Heat Shield**

| Required 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 |

**Figure 12.7   PVLP-SLP Vent Components**

# A. Vent Components Diagrams *(continued)*

**TOP VIEW**

Ø **13-11/16 IN.**

**1-3/4 IN.**

**4 IN.**

| Required 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 |

**SIDE VIEW**

**13-5/8 IN.**

**3-11/16 IN.**
**5-7/8 IN.**

Ø **12-1/8 IN.**

**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.

## B. Accessories

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

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

## Remote Controls, Wall Controls and Wall Switches

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

For safety:

• Install a switch lock or a wall/remote control with child protection lockout feature.

• Keep remote controls out of reach of children.

See your dealer if you have questions.

## Optional Heat Management Systems Kits

After a qualified service technician has installed the heat management system, follow the instructions supplied with the kit for operation. Contact your dealer if you have questions.

**Note:** Optional heat management systems kit must be installed while the top of the appliance are accessible.