astria
FIREPLACES™

Installation and Operation Instructions

Astria™ Signature Series Envy Direct-Vent Gas Fireplaces

P/N 900005-00 Rev. A 09/2014

Ce manuel est disponible en francais, simplement en faire la demande. Numéro de la pièce 900005-01.

P900005-00

PFS C US

Report No. 14-105

Models

Envy35xxx *	Envy40xxx *	Envy45xxx *
EnvyCD35xxx *	EnvyCD40xxx *	EnvyCD45xxx *

* "xxx" indicates unique model identifiers.
This manual covers all Astria™ Envy models.

INSTALLER: Leave this manual with the appliance. CONSUMER: Retain this manual for future reference.	Installateur : Laissez cette notice avec l'appareil. Consommateur : Conservez cette notice pour consultation ultérieure.
A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.	L'écran pare-étincelles fourni avec ce foyer réduit le risque de brûlure en cas de contact accidentel avec la vitre chaude et doit être installé pour la protection Des enfants et Des personnes à risques.

This appliance may be installed in an aftermarket permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes. This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

Cet appareil peut installé dans une maison préfabriquée (mobile) déjà installée à demeure, si les réglements locaux le permettent. Ce appareil doit être utilisé uniquement avec le type de gaz indiqué sure la plaque signalétique. Cet appareil ne peut être converti à d'autres gaz, sauf si une trousse de conversion est utilsée.

⚠ 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.

⚠ AVERTISSEMENT:

RISQUED'INDENDIE OU D'EXPLOSION

Le non-respect Des avertissements de sécurité pourrait d'entraîner des blessures graves, la mort ou des dommages matériels.

— Ne pas entreposer ni utilizer d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.

— QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucan interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous trouvez.
- Sortez immédiatement de bâtiment.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incindies.

— L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

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 shall be installed for the protection of children and other at-risk individuals.

DANGER

VITRE CHAUDE
RISQUE DE BRÛLURES.

NE TOUCHEZ PAS UNE VITRE NON REFROIDIE.

NE LAISSEZ JAMAIS UN ENFANT DE TOUCHER LA VITRE.

L'écran pare-étincelles fourni avec ce foyer réduit le risque de brûlure en cas de contact accidentel avec la vitre chaude et doit être installé pour la protection Des enfants et Des personnes à risques.

PELIGRO

EL VIDRIO CALIENTE
CAUSARÁ QUEMADURAS.

USTED DEBE **NUNCA TOCAR** EL VIDRIO CALIENTE.

LOS NIÑOS DEBEN **NUNCA** TOCAR EL VIDRIO.

Una barrera diseñada para reducir el riesgo de quemaduras desde la mirilla (vidrio) caliente es proveida con este aparato y deberá instalarse para la protección de los niños y otros individuos en riesgo.

Safety and Your Fireplace

All parts of your IHP fireplace get EXTREMELY HOT!

- ☐ To prevent severe burns and injuries, install a screen or physical barrier to prevent direct contact with the glass.
- ☐ Follow the safety instructions below and be sure everyone in your household understands this burn hazard:
  - **The surfaces on your fireplace get EXTREMELY HOT!**
  - **The glass on the front of the fireplace reaches EXTREMELY HIGH temperatures and can cause severe burns if touched.**
  - **Keep children away from an operating fireplace. Closely supervise children in any room where a fireplace is operating to prevent contact with glass.**
  - **Keep clothing, furniture, gasoline, and other flammable liquids away from the fireplace.**
  - **Even after the gas is turned off, fireplace surfaces remain extremely hot.**
- ☐ Be sure to attach the enclosed **Safety-in-Operation Warnings** where you turn on your fireplace, to help remind everyone of the dangers associated with high temperatures (**Page 43**).
- ☐ Read **Important Safety Information** (**Page 5**)

[ENGLISH]

La sécurité et votre foyer

Toutes les parties de votre foyer IHP deviennent EXTRÊMEMENT CHAUDES !

- ☐ Afin d'éviter de vous brûler gravement ou de vous blesser, installez une grille ou une barrière physique pour empêcher tout contact direct avec la vitre.
- ☐ Suivez les instructions de sécurité ci-dessous et veillez à ce que tous les membres de votre famille soient conscients du danger de brûlure encouru :
  - **Les surfaces de votre foyer deviennent EXTRÊMEMENT CHAUDES !**
  - **La vitre située à l'avant du foyer atteint des températures EXTRÊMEMENT ÉLEVÉES et peut causer de graves blessures en cas de contact.**
  - **Tenez les enfants à l'écart du foyer lorsqu'il fonctionne. Surveillez attentivement les enfants dans les pièces où un foyer est utilisé afin d'éviter qu'ils ne soient en contact avec la vitre.**
  - **Tenez tous les vêtements, les meubles, l'essence et tout autre liquide inflammable à l'écart du foyer.**
  - **Même après fermeture du gaz, les surfaces du foyer restent extrêmement chaudes.**
- ☐ Veillez à coller les **Étiquettes de mise en garde relatives à la sécurité d'utilisation** à l'endroit où vous utilisez le foyer, pour rappeler à tous les utilisateurs les dangers liés aux températures élevées (**Page 43**).
- ☐ Lisez **L'information de sûreté importante** (**Page 5**).

[FRENCH]

Seguridad y su chimenea

¡Todas las partes de la chimenea IHP se ponen MUY CALIENTES!

- ☐ Instale una malla o barrera física para evitar el contacto directo con el vidrio y prevenir las quemaduras y lesiones graves.
- ☐ Siga las instrucciones de seguridad a continuación y asegúrese de que todos en su hogar sepan acerca de este peligro de quemadura:
  - **¡Las superficies de la chimenea se ponen MUY CALIENTES!**
  - **El vidrio delante de la chimenea alcanza temperaturas EXTREMADAMENTE ALTAS y puede causar quemaduras graves si se toca.**
  - **Mantenga a los niños alejados de la chimenea en funcionamiento. Supervise en forma cercana a los niños en cualquier cuarto donde haya una chimenea funcionando para impedir el contacto con el vidrio.**
  - **Mantenga la ropa, mobiliario, gasolina y otros líquidos inflamables alejados de la chimenea.**
  - **Aún después de haber apagado el gas, las superficies de la chimenea permanecen extremadamente calientes.**
- ☐ Asegúrese de colocar las **Etiquetas de advertencia de seguridad de operación** en el lugar donde enciende la chimenea, para que todos recuerden los peligros asociados con las altas temperaturas (**Página 43**).
- ☐ Lea **Información importante de seguridad** (**Página 5**).

[SPANISH]

Traditional Fireplace

Contemporary Fireplace

THANK YOU FOR YOUR PURCHASE. WE APPRECIATE YOUR BUSINESS!

Please carefully read and follow all instructions in this manual. Pay special attention to all warnings and safety information. Following these safety, care, and operation instructions will help ensure many years of dependable and enjoyable service from your fireplace.

Please read and understand these instructions before installing, operating, or servicing this product.

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

GENERAL INFORMATION

IMPORTANT SAFETY INFORMATION	L'information de sûreté importante	Información importante de seguridad
⚠ WARNING	**⚠ AVERTISSEMENT**	**⚠ ADVERTENCIA**
Do not operate appliance with the glass front removed, cracked or broken.	**Ne pas utiliser l'appareil si le panneau frontal en verre n'est pas en place, est craqué ou brisé.**	**No opere el artefacto con el frente de vidrio quitado, agrietado o roto.**
Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.	Ne pas utiliser cet appareil s'il a été plongé, même partiellement, dans l'eau. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de commande et toute commande qui a été plongée dans l'eau.	No use este artefacto si alguna de sus partes ha estado bajo agua. Llame de inmediato a un técnico de servicio calificado para que inspeccione el artefacto y reemplace cualquier parte del sistema de control y cualquier control de gas que haya estado bajo agua.
Due to high temperatures, the fireplace should be located out of traffic and away from furniture and draperies.	En raison des températures élevées, l'appareil devrait être installé dans un endroit où il y a peu de circulation et loin du mobilier et des tentures.	Debido a las altas temperaturas, el artefacto debe situarse fuera de las áreas de tráfico y lejos del mobiliario y cortinas.
Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.	Les enfants et les adultes devraient être informés des dangers que posent les températures de surface élevées et se tenir à distance afin d'éviter des brûlures ou que leurs vêtements ne s'enflamment.	Se debe alertar a los niños y adultos sobre los peligros de las altas temperaturas en la superficie y que se mantengan alejados para evitar quemaduras o ignición de la ropa.
Clothing or other flammable material should not be placed on or near the fireplace.	On ne devrait pas placer de vêtements ni d'autres matières inflammables sur l'appareil ni à proximité.	No debe colocarse ropa u otros materiales inflamables sobre y cerca del artefacto.
Young children should be carefully supervised when they are in the same room as the fireplace. Toddlers, young children, and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children, and other at-risk individuals out of the room and away from hot surfaces.	Les jeunes enfants devraient être surveillés étroitement lorsqu'ils se trouvent dans la même pièce que l'appareil. Les tout petits, les jeunes enfants ou les adultes peuvent subir des brûlures s'ils viennent en contact avec la surface chaude. Il est recommandé d'installer une barrière physique si des personnes à risques habitent la maison. Pour empêcher l'accès à un foyer ou à un poêle, installez une barrière de sécurité ; cette mesure empêchera les tout petits, les jeunes enfants et toute autre personne à risque d'avoir accès à la pièce et aux surfaces chaudes.	Se debe supervisar de cerca a los niños cuando estén en el mismo cuarto que el artefacto. Los niños pequeños, los jóvenes y otras personas pueden ser susceptibles a quemaduras por contacto accidental. Se recomienda instalar una barrera física si hay personas en riesgo en la casa. Para restringir el acceso a una chimenea o estufa, instale una puerta de seguridad ajustable para mantener a los niños pequeños, jóvenes y otras personas en riesgo fuera del cuarto y lejos de las superficies calientes.
Any safety screen or guard removed for servicing a fireplace must be replaced prior to operating the fireplace.	Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.	Cualquier malla o resguardo de seguridad quitado para dar servicio a un artefacto, debe reinstalarse antes de operar el artefacto.
Installation and repair should be done by a qualified service person. The fireplace should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the fireplace be kept clean (Maintenance on Page 58).	L'installation et la réparation devrait être confiées à un technicien qualifié. L'appareil devrait faire l'objet d'une inspection par un technicien professionnel avant d'être utilisé et au moins une fois l'an par la suite. Des nettoyages plus fréquents peuvent être nécessaires si les tapis, la literie, et cetera produisent une quantité importante de poussière. Il est essentiel que les compartiments abritant les commandes, les brûleurs et les conduits de circulation d'air de l'appareil soient tenus propres (Page 58).	Una persona de servicio competente debe realizar la instalación y reparación. Una persona de servicio profesional debe inspeccionar el artefacto antes de usar al menos una vez por año. Se puede requerir limpieza más frecuente debido a la pelusa excesiva del alfombrado, del material de cobijas, etc. Es imprescindible mantener limpios los compartimientos de control, los quemadores y los pasajes de circulación del aire del artefacto (Página 58).
[English]	[French]	[Spanish]

FIREPLACE INSTALLATION, OPERATION, AND MAINTENANCE NOTICES

DO NOT ATTEMPT TO ALTER OR MODIFY THE CONSTRUCTION OF THE APPLIANCE OR ITS COMPONENTS. ANY MODIFICATION OR ALTERATION MAY VOID THE WARRANTY, CERTIFICATION, AND LISTINGS OF THIS UNIT.

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

⚠ AVERTISSEMENT

Une installation, un réglage,une modification, une réparation ou un entretien mal effectué peut causer des dommages matériels ou des blessures. Voir la notice de l'utilisateur qui accompagne l'appareil. Pour de l'aide ou des renseignements supplémentaires, consultez un installateur, un technicien agréé ou le fournisseur de gaz.

⚠ WARNING

Failure to comply with these installation instructions will result in an improperly installed and operating appliance, voiding its warranty. Any change to this appliance and/or its operating controls is dangerous.

⚠ WARNING

Clothing or other flammable material should not be placed on or near the appliance.

⚠ AVERTISSEMENT

On ne devrait pas placer de vêtements ni d'autres matières inflammables sur l'appareil ni à proximité.

⚠ WARNING

Improper installation or use of this appliance can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.

⚠ CAUTION

Hot while in operation. Do not touch. Severe Burns may result. Keep children, clothing furniture, gasoline and other liquids having flammable vapors away.

⚠ ATTENTION

L'appareil est chaud lorsqu'il fonctionne. Ne pas toucher l'appareil. Risque de brûlures graves. Surveiller les enfants. Garder les vêtements, les meubles, l'essence ou autres liquides produisant des vapeur inflammables loin de l'appareil.

NOTE:

- **If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.**
- **For use with barrier(s) Part No(s). J7407 (35" Models), J7408 (40" Models), and J7408 (45" Models). Follow installation instructions.**
- These fireplaces are designed as supplemental heaters, and are not to be used as the primary heat source when installed in a dwelling.
- Provide adequate clearances around air openings and adequate accessibility clearance for service and proper operation. Never obstruct the front or back openings of the fireplace.
- These fireplaces are designed to operate on natural or propane gas only. The use of other fuels or combination of fuels will degrade the performance of this system and may be dangerous.
- These fireplaces must not be connected to a chimney or flue serving a separate solid fuel burning fireplace.
- Only trim kit(s) supplied by the manufacturer shall be used in the installation of this fireplace.

Remarqué :

- Seules les trousses de garniture fournies par le fabricant doivent être utilisées pour l'installation de cet appareil.

INSTALLATION

PACKAGING

All models include

The assembled vented gas fireplace heater is packaged with:

- Literature Kit (Installation and Operation Instructions (this manual), and Safety-In-Operation Warning Labels)
- Three (3) Non-combustible fiber boards
- Three (3) AAA batteries
- Handheld remote control (transmitter)
- Remote control receiver (wall switch) assembly with four (4) AA batteries
- (1) U-Shaped Vent Restrictor

Traditional models also include

- Floor kit

Required accessories (Traditional models)

- Porcelain Liner kit or Ceramic Fiber liner kit
- Log Set

Required accessories (Contemporary models)

- Porcelain liner kit
- Glass Media

NOTE: Ensure all required accessory kits are available before installing the fireplace.

Optional accessories

- Volcanic stone (Traditional models - 1.5 lbs. bag)
- Adniron kit (Traditional models)
- Facade Kit
- Gas conversion kit

INTRODUCTION

Envy fireplaces are designed to operate on natural or propane gas. An electronic intermittent pilot ignition system provides safe, efficient operation. External electrical power is required to operate these units. In the event of a power outage, four (4) AA batteries provide backup power for appliance operation (excluding blower). Envy fireplaces come standard with a remotely-modulated gas valve. Flame appearance and heat output cannot be controlled at the gas valve. These vented gas fireplace heaters are sealed combustion, air-circulating gas fireplaces designed for residential applications.

NOTE: Installation and repair should be done by a qualified service person. The fireplace should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etcetera. It is imperative that control compartments, burners and circulating air passageways of the fireplace be kept clean.

> **Remarqué :** L'installation et la réparation devrait être confiées à un technicien qualifié. L'appareil devrait faire l'objet d'une inspection par un technicien professionnel avant d'être utilisé et au moins une fois l'an par la suite. Des nettoyages plus fréquents peuvent être nécessaires si les tapis, la literie, et cetera produisent une quantité importante de pous-sière. Il est essentiel que les compartiments abritant les commandes, les brûleurs et les conduits de circulation d'air de l'appareil soient tenus propres.

NOTE: Diagrams and illustrations are not necessarily shown to scale.

Approved Vent Components

These fireplaces are designed, tested and listed for operation and installation with the following vent components only:

- Secure Vent® Direct-Vent System Components,
- Secure Flex® Flexible Vent Components, and
- Z-FLEX® Model GA Venting Systems listed to UL1777 and ULCS635 manufactured by Flexmaster Canada Limited.

Use only the correct size venting (4 1/2" inner and 7 1/2" outer).

These approved vent system components are labeled for identification. DO NOT use any other manufacturer's vent components with these fireplaces.

Codes and Standards

These fireplaces comply with National Safety Standards and are tested and listed by PFS (Report No.14-105) to ANSI Z21.88 (in Canada, CSA-2.33), and CAN/CGA-2.17-M91 in both USA and Canada, as vented gas fireplace heaters.

These fireplaces are listed for installation in bedrooms and manufactured homes.

The installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54—latest edition (In Canada, the current CAN/CGA-B149.1 installation code).

The fireplace, when installed, must be electrically grounded and wired in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70—latest edition, or the Canadian Electrical Code, CSA C22.1—latest edition.

BTU Input

Table 1: Input Rate, Gas Valves

Models	Input Rate (BTU/HR)	
	Natural Gas	Propane Gas
35" Traditional	35,500 high, 15,500 low	35,000 high, 18,000 low
35" Contemporary	31,000 high, 16,000 low	28,000 high, 15,000 low
40" Traditional	41,500 high, 15,500 low	37,000 high, 14,500 low
40" Contemporary	40,000 high, 21,000 low	32,000 high, 18,500 low
45" Traditional	47,000 high, 18,000 low	45,000 high, 18,000 low
45" Contemporary	47,000 high, 24,000 low	40,000 high, 22,000 low

Gas Pressure

Table 2: Inlet Gas Supply Pressure

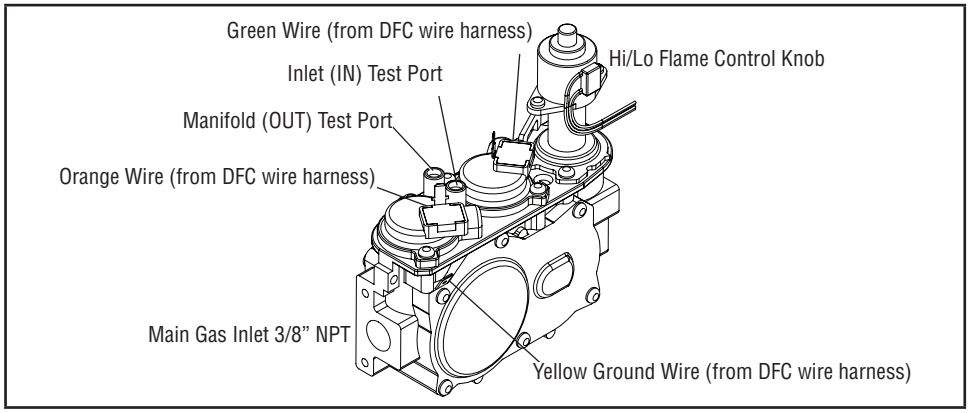
Fuel	Minimum	Maximum
Natural Gas	4.5" WC (1.12 kPa)	10.5" WC (2.61 kPa)
Propane	11.0" WC (2.74 kPa)	13.0" WC (3.23 kPa)

Table 3: Manifold Gas Supply Pressure

Fuel	Low	High
Natural Gas	1.6" WC (0.40 kPa)	3.5" WC (0.87 kPa)
Propane	6.3" WC (1.57 kPa)	10.0" WC (2.49 kPa)

Test gauge connections are provided on the front of the millivolt and electronic gas control valve (identified IN for the inlet and OUT for the manifold side). The control valves have a 3/8" (10 mm) NPT thread inlet and outlet side of the valve (***Figure 1***).

Figure 1: Electronic Gas Valve - SIT ProFlame II



Propane tanks are at pressures that will cause damage to valve components. Verify that the tanks have step down regulators to reduce the pressure to safe levels.

The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures **in excess of** 1/2 psi (3.5 kPa).

The appliance must be isolated from the gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures **equal to or less than** 1/2 psi (3.5 kPa).

Orifice Sizes—Sea Level to High Altitude

These fireplaces are tested and approved for installation at elevations of 0–4500 ft (0–1372 m) above sea level using the standard burner orifice sizes (***Table 4***). For elevations above 4500 ft, contact your gas supplier or qualified service technician.

Table 4: Burner Orifice Sizes, Elevation 0–4500 ft (0–1372 m)

Model	Natural Gas drill size	Propane drill size
35" Traditional	Front: #49 (0.073")*, Back: #43 (0.089")*	Front: #57 (0.043")*, Back: #54 (0.055")*
35" Contemporary	Front: #42 (0.0935")*, Back: #55 (0.052")*	Front: #55 (0.052")*, Back: #60 (0.040")*
40" Traditional	Front: #41 (0.096")*, Back: #43 (0.089")*	Front: #55 (0.052")*, Back: #55 (0.052")*
40" Contemporary	Front: #35 (0.11")*, Back: #52 (0.0635")*	Front: #53 (0.0595")*, Back: #65 (0.035")*
45" Traditional	Front: #40 (0.098")*, Back: #40 (0.098")*	Front: #54 (0.055")*, Back: #54 (0.055")*
45" Contemporary	Front: #32 (0.116")*, Back: #49 (0.073")*	Front: #51 (0.067")*, Back: #62 (0.038")*

*** Standard size installed at factory**

Deration

At elevations above 4500 ft, the amount of BTU fuel value delivered must be reduced by either:

- Using gas that has been derated by the gas company.
- Changing the burner orifice to a smaller size as regulated by the local authorities having jurisdiction and by the (USA) National Fuel Gas Code NFPA 54/ANSI Z223.1—latest edition or, in Canada, the CAN/CGA-B149.1 codes—latest edition.

NOTE: Flame breadth, height and width will diminish 4% for every 1,000 ft of altitude.

IN CANADA—CAN/CGA-2.17-M91 (HIGH ALTITUDE):

THE CONVERSION SHALL BE CARRIED OUT BY A MANUFACTURER'S AUTHORIZED REPRESENTATIVE, IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER, PROVINCIAL OR TERRITORIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CAN/CGA-B149.1 OR CAN/CGA-B149.2 INSTALLATION CODES.

REQUIREMENTS FOR THE COMMONWEALTH OF MASSACHUSETTS

These fireplaces are approved for installation in the U.S. state of Massachusetts if the following additional requirements are met:

- Install this fireplace in accordance with Massachusetts Rules and Regulations 248 C.M.R..
- Installation and repair must be done by a plumber or gas fitter licensed in the Commonwealth of Massachusetts.
- The flexible gas line connector used shall not exceed 36" (914 mm) in length.
- The individual manual shutoff must be a T-handle type valve.

Massachusetts Horizontal Vent Requirements

In the Commonwealth of Massachusetts, horizontal terminations installed less than seven (7) ft above the finished grade must comply with the following additional requirements:

- A hard wired carbon monoxide detector with an alarm and battery back-up must be installed on the floor level where the gas fireplace is installed. The carbon monoxide detector must comply with NFPA 720, be ANSI/UL 2034 listed and be ISA certified.
- A metal or plastic identification plate must be permanently mounted to the exterior of the building at a minimum height of eight (8) ft above grade and be directly in line with the horizontal termination. The sign must read, in print size no less than one-half (1/2) inch in size, GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS.

COLD CLIMATE INSULATION

For cold climate installations, seal all cracks around your fireplace with noncombustible material and wherever cold air could enter the room. It is especially important to insulate outside chase cavity between studs and under floor on which fireplace rests, if floor is above ground level. Gas line holes and other openings should be caulked or stuffed with unfaced fiberglass insulation.

NOTE: Do not use loose, or blown-in insulation in the cavity surrounding the fireplace.

If the fireplace is being installed on a cement slab in cold climates, a sheet of plywood or other raised platform can be placed underneath to prevent conduction of cold transferring to the fireplace and into the room. It also helps to sheetrock inside surfaces and tape for maximum air tightness and caulk firestops.

MANUFACTURED HOME REQUIREMENTS

This appliance may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

Cet appareil peut être installé dans une maison préfabriquée (mobile) déjà installée à demeure si les règlements locaux le permettent.

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

Cet appareil doit être utilisé uniquement avec le type de gaz indiqué sur la plaque signalétique. Cet appareil ne peut être converti à d'autres gaz, sauf si une trousse de conversion est utilisée.

⚠ CAUTION

Ensure that the cross members are not cut or weakened during installation. The structural integrity of the manufactured home floor, wall, and ceiling / roof must be maintained.

⚠ CAUTION

This appliance must be grounded to the chassis of the manufactured home in accordance with local codes or in the absence of local codes, with the National Electrical Code ANSI / NFPA 70—latest edition or the Canadian Electrical Code CSA C22.1—latest edition.

LOCATION

In selecting the location, the aesthetic and functional use of the fireplace are primary concerns. However, vent system routing to the exterior and access to the fuel supply are also important.

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

En raison des températures élevées, l'appareil devrait être installé dans un endroit où il y a peu de circulation et loin du mobilier et des tentures.

The location should also be free of electrical, plumbing or other heating/air conditioning ducting.

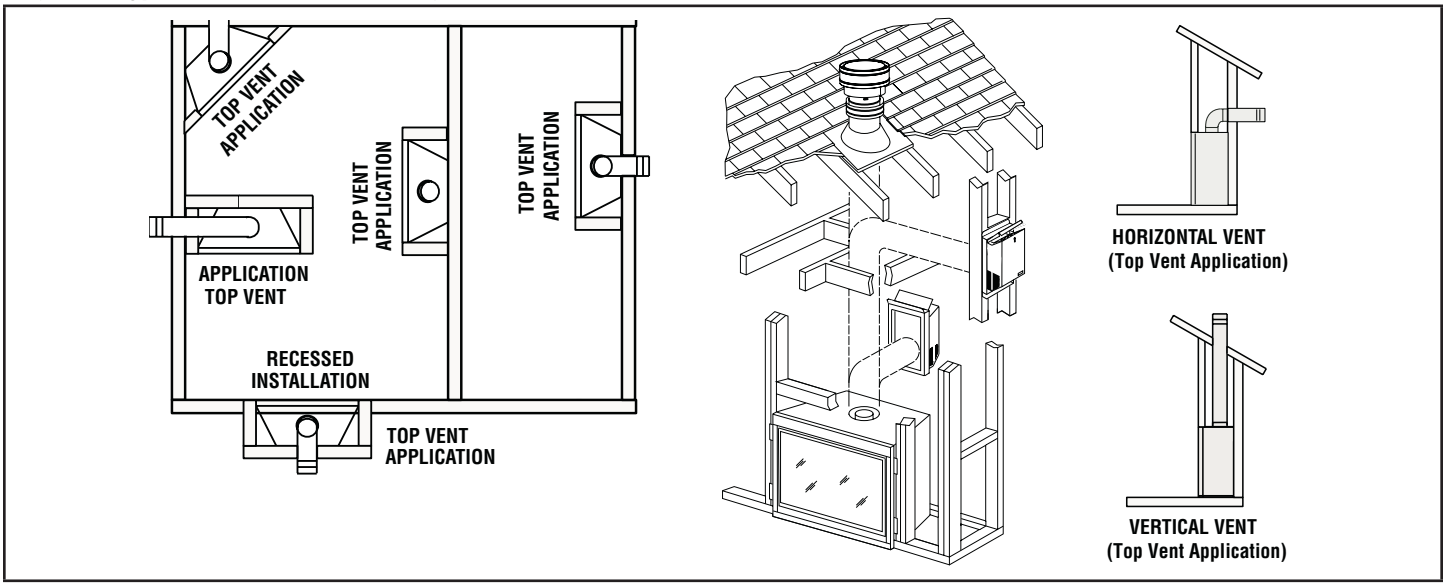
These direct-vent fireplaces are uniquely suited for installations requiring a utility shelf positioned directly above the fireplace. Utility shelves like these are commonly used for locating television sets and decorative plants.

Be aware that this is a heat producing fireplace. Objects placed above the unit are exposed to elevated temperatures. Do not insulate the space between the fireplace and the area above it.

The minimum height from the base of the fireplace to the underside of combustible materials used to construct a utility shelf in this fashion is shown in ***Table 8***.

The appliance should be mounted on a fully supported base extending the full width and depth of the unit. The appliance may be located on or near conventional construction materials. However, if installed on combustible materials, such as carpeting, vinyl tile, etc., a metal or wood barrier covering the entire bottom surface must be used.

Figure 2: Typical Locations and Venting



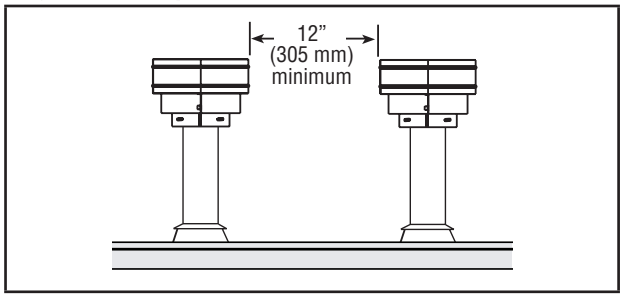
VENT TERMINATION CLEARANCES

These instructions should be used and do not supersede local codes in any way. Install venting according to local codes, these instructions, the current National Fuel Gas Code (ANSI Z223.1/NFPA 54) in the USA or the current standards of CAN/CGA-B149.1 in Canada.

Vertical Vent Termination Clearances

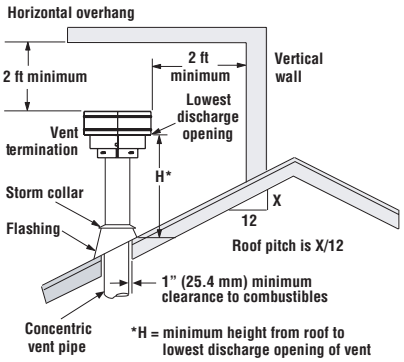
Terminate multiple vent terminations according to the installation codes listed above and ***Figure 3***.

Figure 3: Multiple Terminations



Terminate single vent caps relative to building components according to ***Table 5*** and ***Figure 3***.

Table 5: Termination Heights for Vents above Flat or Sloped Roofs (NFPA 54 / ANSI Z223.1)—Gas Vent Rule



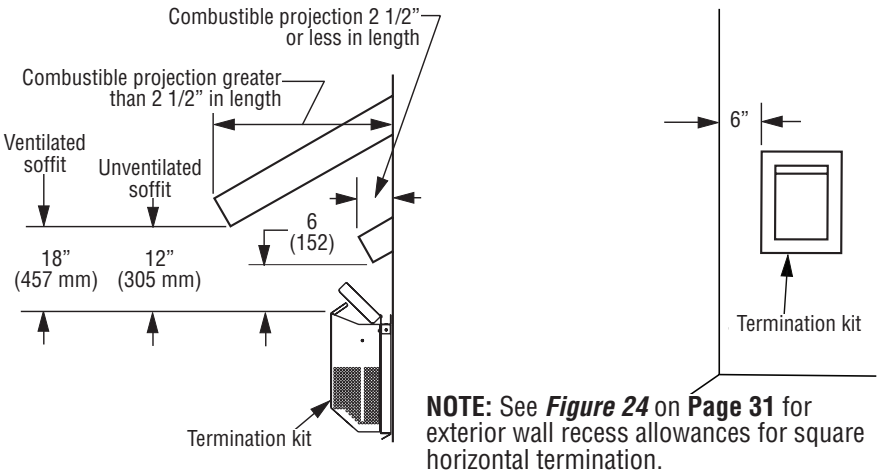
Roof Pitch	Termination Height *
Flat to 6/12	1.0 ft (0.3 m)
6/12 to 7/12	1.25 ft (0.38 m)
7/12 to 8/12	1.5 ft (0.46 m)
8/12 to 9/12	2.0 ft (0.61 m)
9/12 to 10/12	2.5 ft (0.76 m)
10/12 to 11/12	3.25 ft (0.99 m)
11/12 to 12/12	4.0 ft (1.22 m)
12/12 to 14/12	5.0 ft (1.52 m)
14/12 to 16/12	6.0 ft (1.83 m)
16/12 to 18/12	7.0 ft (2.13 m)
18/12 to 20/12	7.5 ft (2.29 m)
20/12 to 21/12	8.0 ft (2.44 m)

Horizontal Vent Termination Clearances

The horizontal vent termination must have a minimum of 6" (152 mm) clearance to any overhead combustible projection of 2 1/2" (64 mm) or less (***Figure 4***). For projections exceeding 2 1/2" (64 mm) (***Figure 4***). For additional vent location restrictions refer to ***Table 6***.

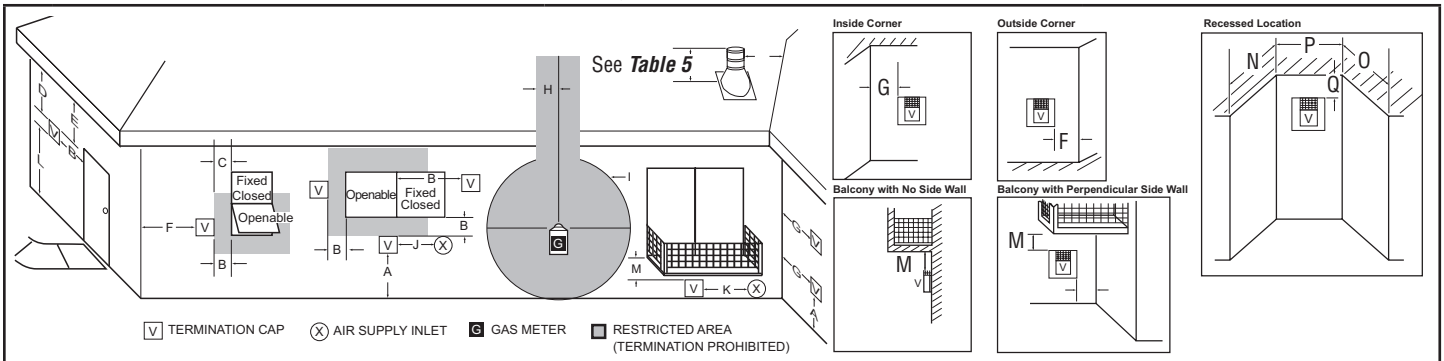
All horizontal terminations may be located as close as 6" (152mm) to any combustible exterior sidewall. This distance may be decreased to 2" (51mm) for noncombustible exterior sidewalls with all approved terminations (***Table 18***).

Figure 4: Horizontal Vent Termination Clearances



NOTE: See ***Figure 24*** on **Page 31** for exterior wall recess allowances for square horizontal termination.

Table 6: Horizontal vent termination clearances for buildings with combustible and noncumbustible exteriors



		U.S. Installation **	Canadian Installation *
A	Clearance above grade, veranda, porch, desk, or balcony	12” (300 mm) **	12” (300 mm) *
B	Clearance to window or door that may be opened	6” (150 mm) for fireplaces < 10,000 Btu/h (3 kW), 9” (230 mm) for fireplaces > 10,000 Btu/h (3 kW), and < 50,000 Btu/h (15 kW), 12” (300 mm) for fireplaces > 50,000 Btu/h (15 kW) **	6” (150 mm) for fireplaces < 10,000 Btu/h (3 kW), 12” (300 mm) for fireplaces > 10,000 Btu/h (3 kW)
C	Clearance to permanently closed window	9” (229 mm) recommended to prevent window condensation	12” (305 mm) recommended to prevent window condensation
D	Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 18” (458 mm)	18” (458 mm)	18” (458 mm)
E	Clearance to unventilated soffit	12” (305 mm) 30” (760 mm) to vinyl soffit	12” (305 mm) 30” (760 mm) to vinyl soffit
F	Clearance to outside corner	5” (127 mm) minimum	5” (127 mm) minimum
G	Clearance to inside corner	2“ (50.8 mm) minimum—SV4.5HT-2 • 6” (152 mm) minimum—SV4.5HTSS	2“ (50.8 mm) minimum—SV4.5HT-2 • 6” (152 mm) minimum—SV4.5HTSS
H	Clearance to each inside of center line extended above meter / regulator assembly	36” (910 mm) within a height of 15 ft above the meter / regulator assembly **	36” (910 mm) within a height of 15 ft above the meter / regulator assembly *
I	Clearance to service regulator vent outlet	36” (910 mm)**	36” (910 mm)*
J	Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other fireplace	6” (150 mm) for fireplaces < 10,000 Btu/h (3 kW), 9” (230 mm) for fireplaces > 10,000 Btu/h (3 kW) and < 50,000 Btu/h (15 kW), 12” (300 mm) for fireplaces > 50,000 Btu/h (15 kW)**	6” (150 mm) for fireplaces < 10,000 Btu/h (3 kW), 12” (300 mm) for fireplaces > 10,000 Btu/h (3 kW)
K	Clearance to a mechanical air supply inlet	36” (910 mm) above if within 10 ft (3 m) horizontally **	72” (1830 mm) *
L	Clearance above paved sidewalk or paved diveway located on public property	84” (2130 mm) ‡	84” (2130 mm) ‡
M	Clearance under veranda, porch, deck or balcony	12” (300 mm) *‡	12” (300 mm) *‡
N	Depth of alcove (maximum)	72” (1830 mm) **	72” (1830 mm) *
O	Clearance to termination (alcove)	6” (15.2 mm) **	6” (15.2 mm)*
P	Width of alcove (minimum)	36” (910 mm) **	36” (910 mm) *
Q	Clearance to combustible above (alcove)	18” (457 mm) **	18” (457 mm) *

* In accordance with the current CSA-B149.1 National Gas And Propane Installation Code

** In accordance with the curent ANSI Z223.1/NFPA 54 National Fuel Gas Codes

‡ A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings

*‡ Only permitted if veranda, porch, deck, or balcony is fully-open on a minimum two sides beneath the floor

• 2” clearance to non-combustibles for SV4.5HT-2 only

MINIMUM CLEARANCES TO COMBUSTIBLES

Fireplace And Vent Clearances

The fireplace is approved with zero clearance to combustible materials on all sides (***Table 7***), with the following exception: The unit may not be recessed (allowance made for mantel legs / side trim in ***Figure 5***). When the unit is installed with one side flush with a wall, the wall on the other side of the unit must not extend beyond the front edge of the unit (***Figure 5***).

Table 7: Minimum Clearances *

Back	1/2" (13 mm) to wrapper 0" (0 mm) to Spacers
Sides	1/2" (13 mm) to wrapper 0" (0 mm) to Spacers **
Top Standoffs	0" (0 mm)
Floor	0" (0 mm)
From Bottom of Unit to Ceiling	78" (1981 mm)
Vent	3" (76 mm)—Top * *** 1" (25.4 mm)—Sides and Bottom
Front Service Clearance—clearance immediately in front of viewing area(s)	36" (914 mm)—Front 12" (305 mm)—Sides and Bottom

*** 3" (76 mm) above any horizontal/inclined vent component.**

**** See Page 20 for clearance requirements to the nailing flange located at each side of the unit and any screw heads adjacent to it.**

The fireplace must be mounted on a fully supported base extending the full width and depth of the unit. The fireplace may be located on or near conventional construction materials. However, if installed on combustible materials, such as carpeting, vinyl tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.

Hearth Extension

A hearth extension must be built from non-combustible, heat-resistant materials (e.g., Micore® 160, Glasscrete®, Durock®, or a similar material). It must extend the width of the fireplace opening and at least 20" in front of the fireplace.

- A hearth extension is required if the fireplace is installed less than 6" above the finished floor surface.
- A hearth extension is not required if the fireplace is installed at least 6" above the finished floor surface.

Shelf Height

To provide the lowest possible shelf surface, the venting attached to the top vent should be routed in a way to minimize obstructions to the space above the fireplace. Do not insulate the space between the fireplace and the area above it (***Table 8***). The minimum height from the base of the fireplace to the underside of combustible materials used to construct a utility shelf in this fashion is shown in ***Table 8***.

Table 8: Combustible Shelf Height—Top Vent

Model	Top Vent with one 90° Elbow	
	Secure Vent®	Secure Flex® (flex elbow)
All	73 1/2" (1867 mm) *	73 1/2" (1867 mm) *

* Includes 3" (76 mm) clearance to combustibles (required above vent components)

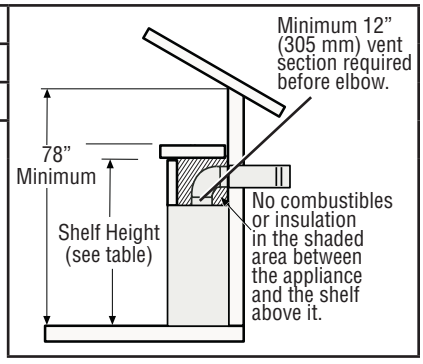


Figure 5: Combustible Side Clearances

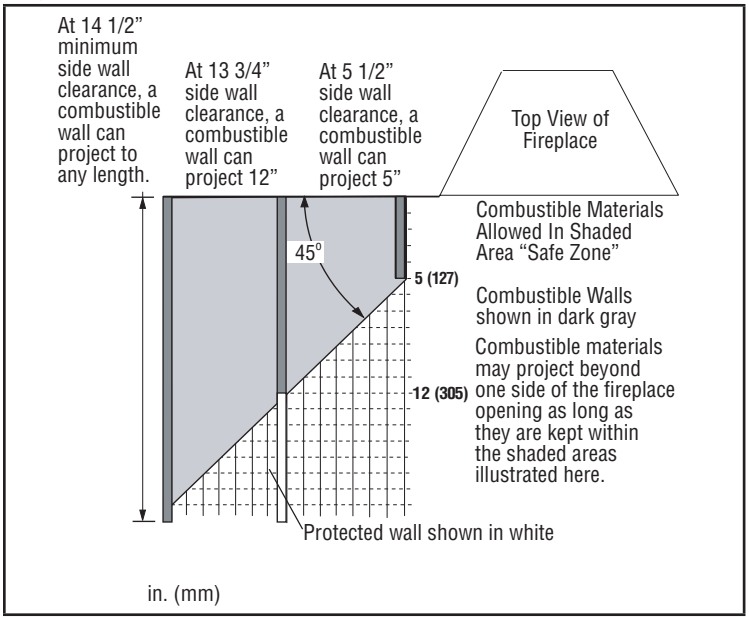
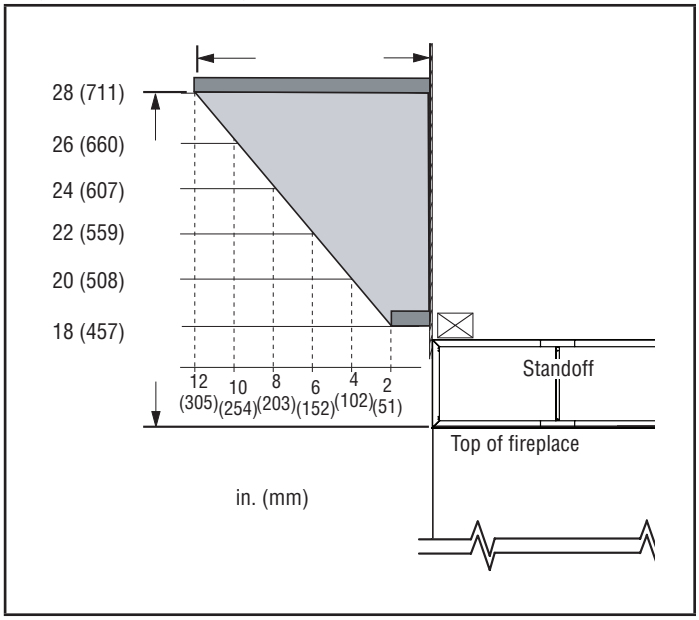


Figure 6: Mantel Height



Wall Finishes / Surrounds / Mantels

NOTE: Combustible wall finish materials and/or surround materials must not be allowed to encroach the area defined by the fireplace front face (black sheet metal). **Never allow combustible materials to be positioned in front of or overlapping the fireplace face (*Figure 5*).**

Non-combustible materials, such as surrounds and other fireplace trim, may be installed on the fireplace face, but they must not cover any portion of the removable glass panel or control compartment.

Vertical installation clearances to combustible mantels vary according to the depth of the mantel (***Figure 6***). Mantels constructed of non-combustible materials may be installed at any height above the fireplace opening. However, do not allow anything to hang below the fireplace hood. Minimum clearance requirements include any projections such as shelves, window sills, mantels, etc. above the fireplace.

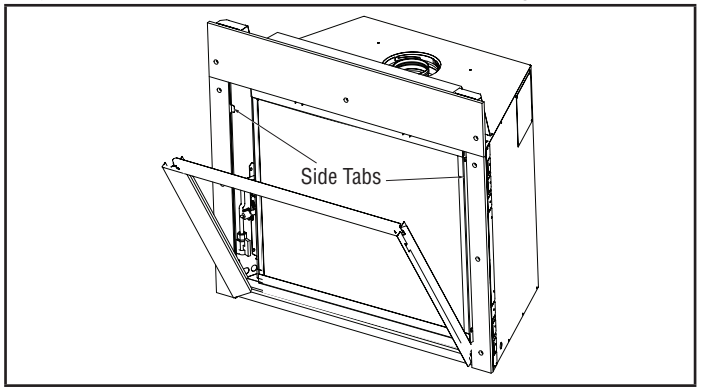
NOTE: To avoid heat-related finish damage, use finish materials rated 175 °F, or higher, on the underside of the mantel.

INSTALLATION PREPARATION

The fireplace is shipped with all gas controls and components installed and pre-wired. Before installing the fireplace, follow these steps:

1. Remove the shipping carton and the shipping pad.
2. Remove the top louver, then remove the surround trim assembly by detaching it at the top of the fireplace and lifting it 1" to disengage the side tabs, then pulling it away from the fireplace exposing the front glass door.

Figure 7: Removing the surround trim assembly



3. Locate the four (4) spring-loaded latches; two above and two below the glass door (***Figure 56***).
4. Release the lower latches, by pulling each handle out and down to unhook it from the glass door.
5. Lightly press against the door, to hold it in position, while releasing the two upper latches.

6. Carefully grip the door at the top and bottom, and remove it from the fireplace. Place the door in a secure location where it will not be damaged.

INSTALLATION SEQUENCE

The typical sequence of installation is outlined below; however, each installation is unique and may result in variations to the steps described.

See the pages referenced in the following steps for detailed instructions.

Framing

1. **Construct the Fireplace Framing** (**Page 17**).
2. **Prepare the Fireplace Top Standoffs** (**Page 19**).
3. **Route the Gas Supply Line to the Fireplace** (**Page 19**).
4. **Rough in the Electrical Supply, if Needed** (**Page 20**).
5. **Place the Fireplace in the Framing and Secure** (**Page 20**).

Venting

6. **Select a Horizontal or Vertical Vent System** (**Page 21**).
7. **Install the Vent Restrictor (if necessary)** (**Page 22**).
8. **Install the Vent System** (**Page 25**).

Electrical Connection

9. **Complete the Field Wiring** (**Page 35**).
10. **Installing and initializing the Remote Control System** (**Page 36**).

Gas Connection

11. **Connect the Gas Line** (**Page 38**).
12. **Verify Proper Fireplace Operation** (**Page 39**).

Finishing

13. **Install the Firebox Liners** (**Page 53**).
14. **Traditional Fireplaces: Install the Logs** (**Page 54**).
15. **Contemporary Fireplaces: Install the Glass Media** (**Page 53**).
16. **Install the Glass Door** (**Page 56**).
17. **Adjust the Air Shutter to Ensure Proper Flame Appearance** (**Page 39**).
18. **Install the Finishing Materials** (**Page 41**).
19. **Attach the Safety-in-Operation Warning Labels** (**Page 42**).

1. Construct the Fireplace Framing

1. Frame the fireplace as illustrated in ***Table 9***. For corner framing installations, use ***Table 11***. All framing details must allow for a minimum clearance to combustible framing members as shown in ***Table 7***.
2. If the fireplace is to be elevated above floor level, a solid continuous platform must be constructed below the fireplace.

NOTE: Headers may be in direct contact with the fireplace top Standoffs maintaining the 15 1/2” (394 mm) clearance to the fireplace top, but must not be supported by them or notched to fit around them. All construction above the fireplace must be self-supporting. DO NOT use the fireplace for structural support.

Table 9: Fireplace Framing Specifications

Model	A	B	C	D
35”	39 3/4” 1010 mm	45 1/4” 1149 mm	24.0” 610 mm	46 3/4” 1187 mm
40”	44 3/4” 1137 mm	49” 1245 mm	24.0” 610 mm	50 1/2” 1283 mm
45”	49 3/4” 1264 mm	52 5/8” 1337 mm	24.0” 610 mm	54 1/4” 1378 mm

Vertical Venting Through the Ceiling:

To frame the ceiling opening, use a plumb line from the ceiling above the appliance to locate center of the vertical run. Cut and/or frame an opening, 10 1/2 x 10 1/2” (267 x 267 mm) inside dimensions, about this center mark.

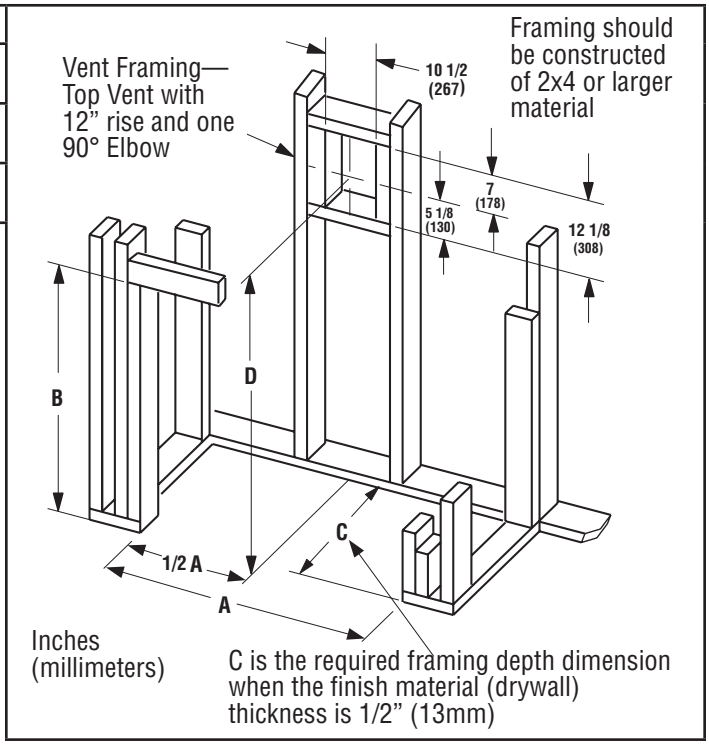
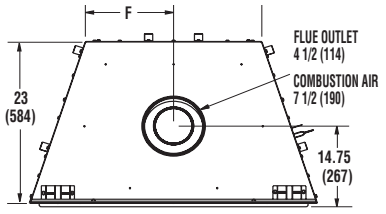


Table 10: Fireplace Specifications

Model	A	B	C	D	E	F	G
35”	45” 1143 mm	24 3/4” 629 mm	28 3/4” 730 mm	39 1/4” 997 mm	21 7/8” 555 mm	11” 278 mm	28 1/2” 724 mm
40”	48 3/4” 1238 mm	28.0” 711 mm	33 3/4” 857 mm	44 1/4” 1124 mm	27.0” 686 mm	13 1/2” 343 mm	32 1/4” 819 mm
45”	52 3/8” 1330 mm	32 1/4” 819 mm	38 3/4” 984 mm	49 1/4” 1251 mm	32.0” 813 mm	16.0” 406 mm	36.0” 914 mm



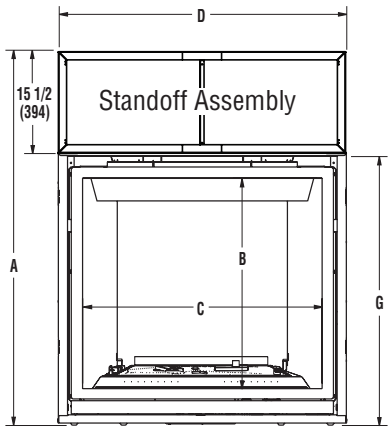
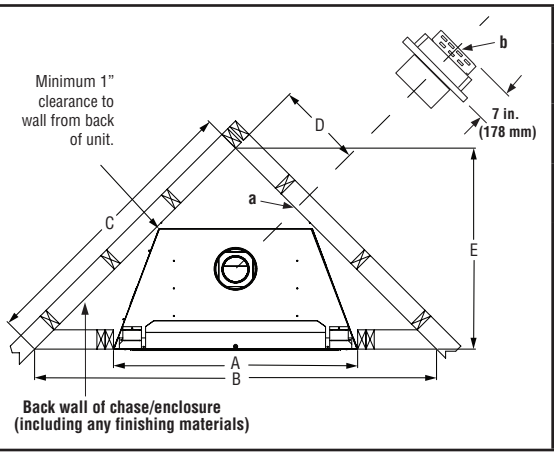


Table 11: Corner Framing with Horizontal Termination

Model	A	B	C	D	E
35”	39 1/4” 1000 mm	68.00” 1727 mm	48 1/8” 1222 mm	13 3/4” 349 mm	34.00” 864 mm
40”	44 1/4” 1124 mm	73.00” 1854 mm	51 5/8” 1311 mm	15 1/2” 394 mm	36 1/2” 927 mm
45”	49 1/4” 1251 mm	78.00” 1981 mm	55 1/8” 1400 mm	17 1/4” 438 mm	39.00” 991 mm

NOTE: The horizontal vent length of “A” to “B” must not exceed 28” (711 mm).



2. Prepare the Fireplace Top Standoffs

1. Bend each of the two (2) L-shaped standoff components, at the designated places, into a U-shape (***Figure 8***).
2. Align the closed end of each U-shaped standoff component with the left/right side of the top, front of the fireplace and the attachement holes in the top of the fireplace (***Figure 8***). Attach each U-shaped standoff component with two (2) 5/16" hex head screws (***Figure 8*** and ***Figure 9***).
3. Align the center support with the holes in the U-shaped standoff components and the top of the fireplace. Attach the center support with two (2) 5/16" hex head screws in the top and two (2) screws in the bottom (***Figure 9***).

   NOTE: Position the center support with the larger holes at the bottom and the smaller holes at the top.

Figure 8: Attaching the right standoff

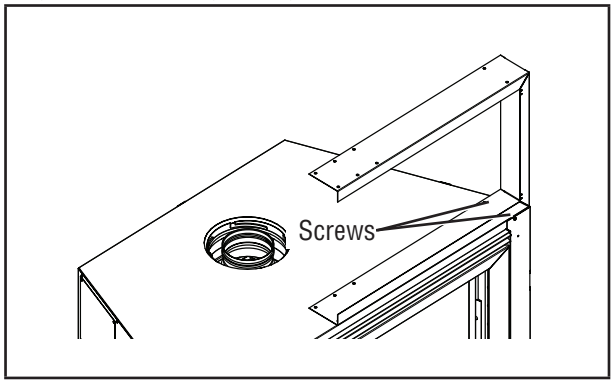
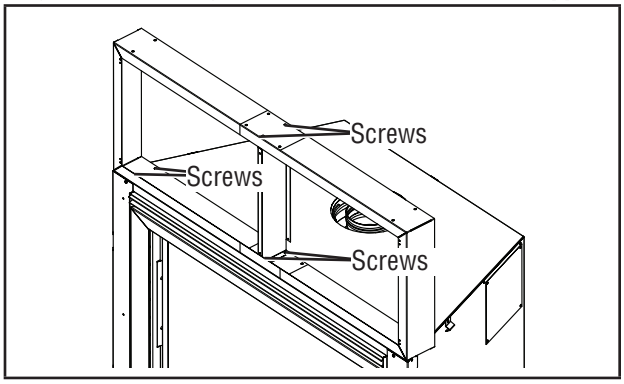


Figure 9: Attaching the left standoff and center support

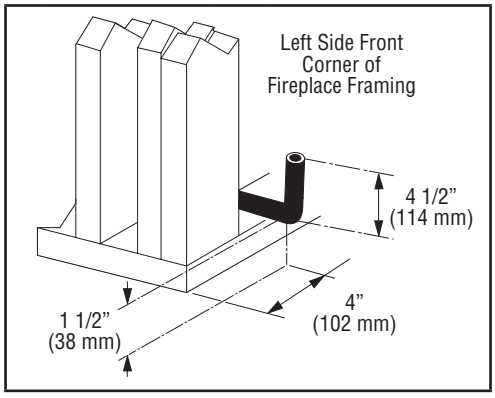


3. Route the Gas Supply Line to the Fireplace

1. Route a 1/2" (13 mm) gas line to the left side of the fireplace (***Figure 10***).

NOTE: Gas lines must be routed, assembled, and made of materials that are in strict accordance with local codes and regulations. All fireplaces are factory-equipped with a flexible gas line connector and a 1/2" shutoff valve (**Page 38**).

Figure 10: Routing the gas line



Proper Sizing of Gas Line

Properly size and route the gas supply line from the supply regulator to the area where the appliance is to be installed per requirements outlined in the National Fuel Gas Code, NFPA 54—latest edition (USA) or CAN/CGA-B149.1—latest edition (Canada).

The gas supply line should not be connected to the appliance until step **11. Connect the Gas Line** (**Page 38**).

NOTE:

- Never use galvanized or plastic pipe. Refer to ***Table 12*** for proper sizing of the gas supply line, if black iron pipe is being used. Gas lines must be routed, constructed and made of materials that are in strict accordance with local codes and regulations.
- Hire a qualified plumber or gas fitter to correctly size and route the gas supply line to the appliance. Installing a gas supply line from the fuel supply to the appliance involves numerous considerations of materials, protection, sizing, locations, controls, pressure, sediment, and more. No one unfamiliar and unqualified should attempt sizing or installing gas piping.
- See **Massachusetts Horizontal Vent Requirements** for additional requirements for installations in the state of Massachusetts in the USA.

- A pipe joint compound rated for gas should be used on the threaded joints. Ensure propane-resistant compounds are used in propane applications. Be very careful that the pipe compound does not get inside the pipe.
- A sediment trap in the supply line as close as possible to the fireplace is recommended.
- Check with the local building official for local code requirements (e.g., Are below grade penetrations of the gas line allowed?, etc).

Table 12: Schedule 40 Black Iron Pipe, Inside Diameter

Pipe Length	Natural Gas	Propane Gas
0–10 ft	1/2 in.	3/8 in.
10–40 ft	1/2 in.	1/2 in.
40–100 ft	1/2 in.	1/2 in.
100–150 ft	3/4 in.	1/2 in.
150–200 ft	3/4 in.	1/2 in.

CAUTION

If propane is used, be aware that with a tank that is too small (i.e., under 100 lbs, if this is the only gas appliance in the dwelling—see NPFA 58), there may be a loss of pressure. This can result in insufficient fuel delivery that can cause sooting, delayed ignition, or other malfunctions. Any damage resulting from an improper installation is not covered by the limited warranty.

4. Rough in the Electrical Supply, if Needed

1. As necessary, rough in the fireplace electrical supply per NEC and local codes.

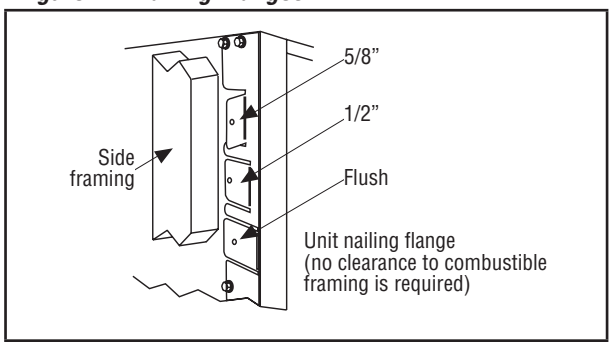
5. Place the Fireplace in the Framing and Secure

NOTE: Combustible framing may be in direct contact with the nailing flanges and may be located within 1/2” of screw heads and the firebox wrapper in areas adjacent to the nailing flanges.

Frame the opening to the exact dimensions specified in the framing details in this manual.

1. Bend out the appropriate nailing flanges for the drywall / finish material to be used (***Figure 11***). Nailing flanges are provided for:
   - flush framing,
   - 1/2”, and
   - 5/8” framing depths.
2. Secure the fireplace to the side framing members using the unit’s nailing flanges—one top and bottom on each side of the fireplace front (***Figure 11***). Use 8d nails or the equivalent.

Figure 11: Nailing Flanges



VENT SYSTEM PREPARATION

6. Select a Horizontal or Vertical Vent System

1. With the fireplace secured in the framing, determine the vent route and identify the exterior termination location.
2. The following sections describe vertical (roof) and horizontal (exterior wall) vent applications. Use only approved vent components (**Page 8** and **Page 44**).

⚠ WARNING

The vent system may not service multiple appliances, and must never be connected to a flue serving a separate solid fuel burning appliance.

NOTE: The vent pipe is tested to be run inside an enclosed wall (such as a chase). There is no requirement for inspection openings in the enclosing wall at any of the joints in the vent pipe.

NOTE: These instructions should be used as a guideline and do not supersede local codes in any way. Install venting according to local codes, these instructions, the current National Fuel Gas Code (ANSI-Z223.1) in the USA or the current standards of CAN/CSA-B149.1 in Canada.

NOTE: Ensure clearances are in accordance with local installation codes and the requirements of the gas supplier.

Remarqué : Dégagement conforme aux codes d'installation locaux et aux exigences du foumisseunde gaz.

NOTE: Use only approved venting components. These fireplaces must be vented directly to the outside.

Figure 12: When to use a vent restrictor

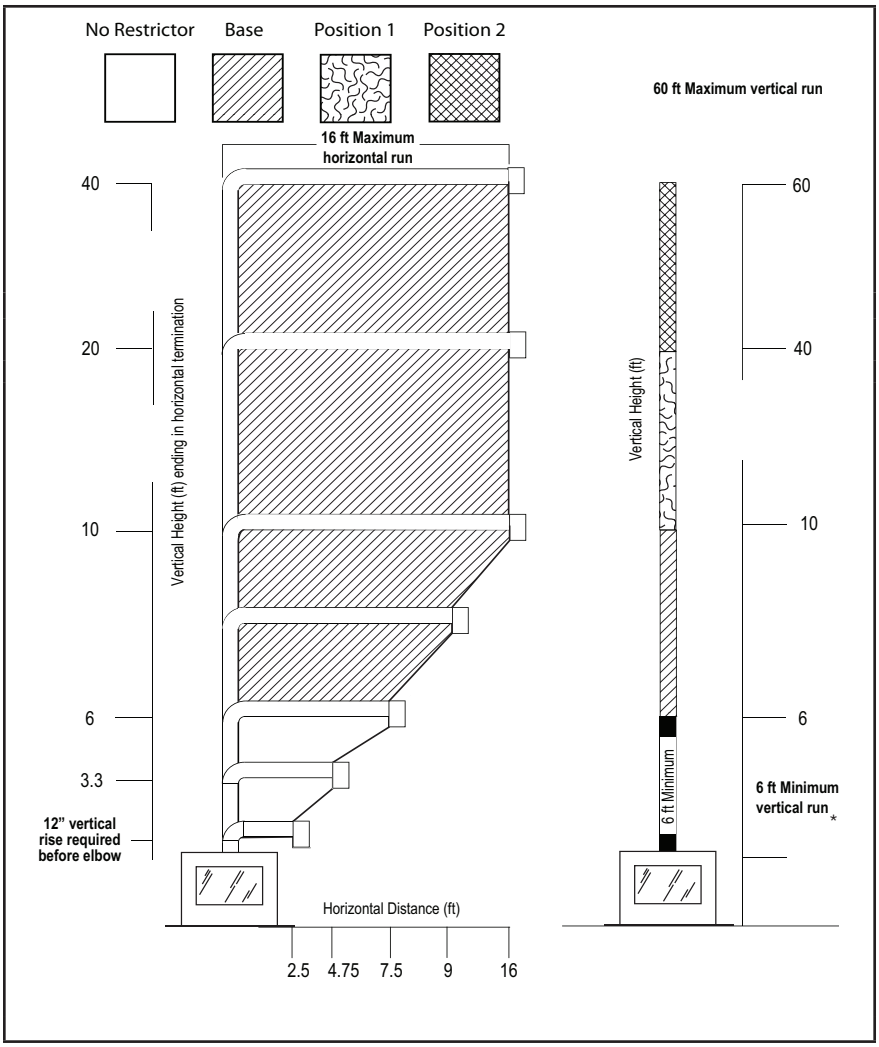


Figure 13: Vent restrictor installation, Top vent

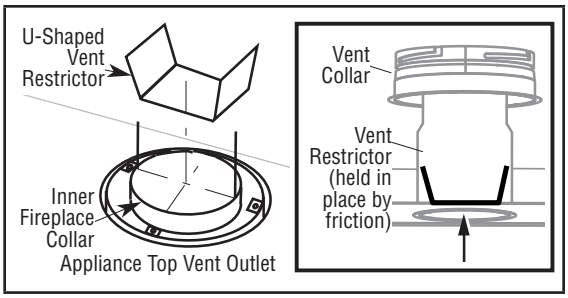
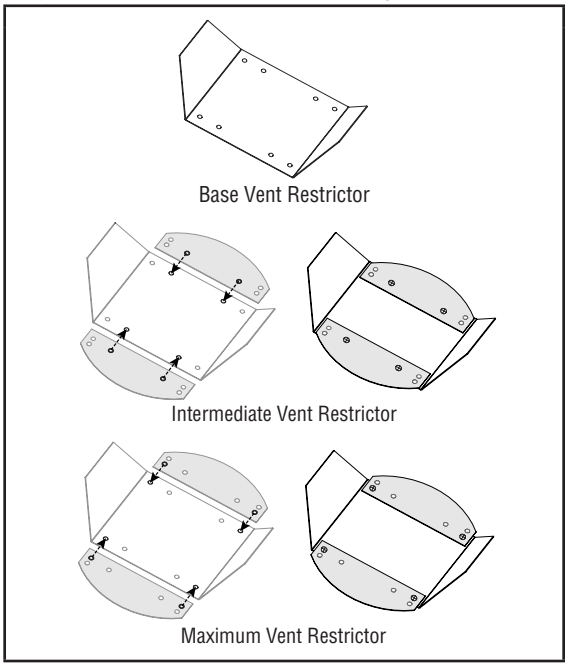


Figure 14: Vent restrictor assembly



*** For straight runs or runs with elbows as illustrated in Vertical Vent Figures/Tables starting on Page <?>.**

7. Install the Vent Restrictor (if necessary)

A vent restrictor may be needed with this appliance. The restrictor is installed in the appliance top flue outlet, either before adding vent from above, or after installation of vent from below—within the firebox. The restrictor is self securing with a positive friction fit.

1. Use the vent run descriptions below to determine if a vent restrictor is necessary.
   - Base vent restrictor for:
     - Horizontal termination with total vertical run of more than 6 ft
     - Vertical termination with total vertical run of 6–10 ft
   - Intermediate setting for:
     - Vertical termination with total vertical run of >10–40 ft
   - Maximum setting for:
     - Vertical termination with total vertical run of >40–60 ft
2. If necessary, assemble the vent restrictor and wing as detailed in ***Figure 14***.
3. If necessary, install the appropriate vent restrictor (***Figure 13***).

NOTE: The vent restrictor is shipped in the firebox.

Table 13: Effective Vent Length

Model	Effective Length
SV4.5L6	4 1/2”
SV4.5L12	10 1/2”
SV4.5L24	22 1/2”
SV4.5L36	34 1/2”
SV4.5L48	46 1/2”
SV4.5LA	1 1/2–7”

Connecting the vent pipe

Secure Vent® SV4.5 direct-vent system components are unitized concentric pipe components featuring positive twist lock connections (***Figure 14*** and ***Figure 15***). All of the fireplaces covered in this document are fitted with collars having locking inclined channels. The dimpled end of the vent components fit over the fireplace/vent collar to create the positive twist lock connection.

1. Align the dimpled end over the collar, adjusting the radial alignment until the four (4) locking dimples are aligned with the inlet of the four (4) inclined channels on the collar (***Figure 14***).
2. Push the vent component against the collar until it fully engages, then twist the component clockwise, running the dimples down and along the incline channels until they seat at the end of the channels.

   NOTE: The unitized design of the Secure Vent® components will engage and seal both the inner and outer vent pipe.
3. If desired, a #6 x 1/2” screw can be used at the joint, but is not required as the pipe will securely lock when twisted (***Figure 15***).

Where required, a telescopic vent section (SV4.5LA) may be used to provide the installer with an option to install in tight and confined spaces, or where the vent run made up of fixed length pieces develops a joint in a undesirable location, or will not build up to the required length. The SV4.5LA Telescopic Vent Section has an effective length of from 1 1/2–7” (38–191 mm). The SV4.5LA is fitted with a locking inclined channel end (identical to a normal vent section component) and a plain end with three (3) pilot holes. Slip the plain end over the locking channel end of a standard SV4.5 vent component the required distance and secure with three (3) screws.

Figure 15: Connecting vent components

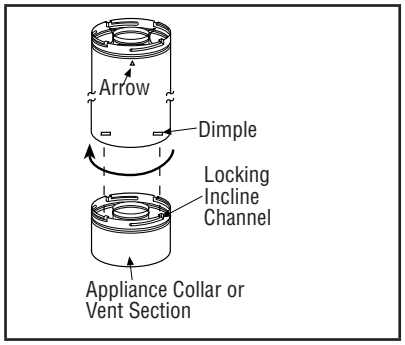


Figure 16: Connected vent components

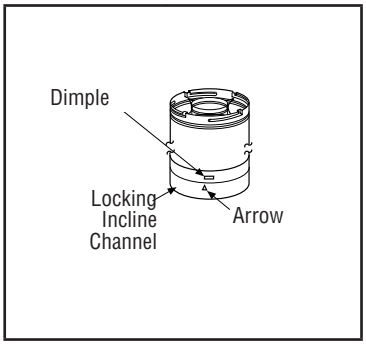
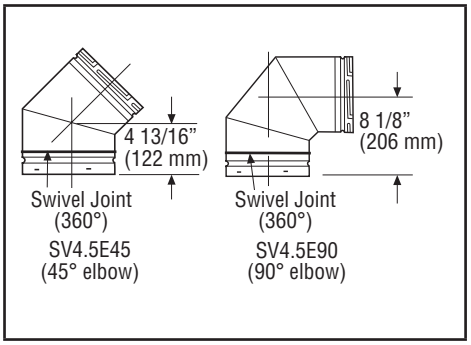


Figure 17: Elbow Dimensions



Vent elbows

Vent elbows are available in 90° and 45° configurations. Refer to ***Figure 16*** for the SV4.5E45 and SV4.5E90 elbow dimensions. The elbows feature a twist section to allow them to be routed about the center axis of their initial collar section to align with the required direction of the next vent run element.

1. Rotate the elbow in a clockwise direction (to avoid the possiblity of unlocking any of the previously connected vent sections) for proper alignment (***Figure 16***). See **Connecting the vent pipe** for more information.

Vent section length table

Table 14 will assist calculating how many vent sections are needed for the planned vent configuration. When a vent section is engaged with another section, its effective length will be 1 1/2" shorter.

Table 14: Vent Section Length

Nominal Section Length (in.)		6	12	24	36	48	Total Qty
Net Section Length (in.)		4.5	10.5	22.5	34.5	46.5	
Height of Vent		Number of Vent Sections					
in.	ft						
4.5	0.375	1	0	0	0	0	1
9	0.75	2	0	0	0	0	2
10.5	0.875	0	1	0	0	0	1
15	1.25	1	1	0	0	0	2
22.5	1.875	0	0	1	0	0	1
31.5	2.625	0	3	0	0	0	3
34.5	2.875	0	0	0	1	0	1
37.5	3.125	1	1	1	0	0	3
43.5	3.625	0	2	1	0	0	3
45	3.75	0	0	2	0	0	2
46.5	3.875	0	0	0	0	1	1
51	4.25	1	0	0	0	1	2
55.5	4.625	0	1	2	0	0	3
57	4.75	0	0	1	1	0	2
67.5	5.625	0	0	3	0	0	3
69	5.75	0	0	0	2	0	2
73.5	6.125	1	0	0	2	0	3
79.5	6.625	0	1	0	2	0	3
81	6.75	0	0	0	1	1	2
91.5	7.625	0	0	2	0	1	3
93	7.75	0	0	0	0	2	2
97.5	8.125	1	0	0	0	2	3
103.5	8.625	0	0	0	3	0	3
108	9	1	0	0	3	0	4
117	9.75	1	0	5	0	0	6
118.5	9.875	1	1	0	3	0	5
126	10.5	0	0	1	3	0	4
130.5	10.875	1	0	1	3	0	5
135	11.25	0	0	6	0	0	6
139.5	11.625	0	0	0	0	3	3
142.5	11.875	1	0	0	4	0	5
144	12	1	0	0	0	3	4
154.5	12.875	1	1	0	0	3	5
160.5	13.375	0	2	0	0	3	5
172.5	14.375	0	0	0	5	0	5
177	14.75	1	0	0	5	0	6
186	15.5	0	0	0	0	4	4
196.5	16.375	0	1	0	0	4	5
207	17.25	0	0	0	6	0	6
211.5	17.625	1	0	0	6	0	7
217.5	18.125	0	1	0	6	0	7
229.5	19.125	0	0	1	6	0	7
232.5	19.375	0	0	0	0	5	5
241.5	20.125	0	0	0	7	0	7
246	20.5	1	0	0	7	0	8

Nominal Section Length (in.)		6	12	24	36	48	Total Qty
Net Section Length (in.)		4.5	10.5	22.5	34.5	46.5	
Height of Vent		Number of Vent Sections					
in.	ft						
252	21	0	1	0	7	0	8
276	23	0	0	0	8	0	8
279	23.25	0	0	0	0	6	6
280.5	23.375	1	0	0	8	0	9
289.5	24.125	0	1	0	0	6	7
301.5	25.125	0	0	1	0	6	7
310.5	25.875	0	0	0	9	0	9
325.5	27.125	0	0	0	0	7	7
330	27.5	1	0	0	0	7	8
345	28.75	0	0	0	10	0	10
349.5	29.125	1	0	0	10	0	11
372	31	0	0	0	0	8	8
379.5	31.625	0	0	0	11	0	11
418.5	34.875	0	0	0	0	9	9
465	38.75	0	0	0	0	10	10
475.5	39.625	0	1	0	0	10	11
480	40	1	1	0	0	10	12
492	41	1	0	1	0	10	12
499.5	41.625	0	0	0	1	10	11
504	42	1	0	0	1	10	12
511.5	42.625	0	0	0	0	11	11
520.5	43.375	0	2	0	1	11	14
531	44.25	0	2	2	0	11	15
538.5	44.875	1	0	0	2	11	14
549	45.75	1	0	2	1	11	15
558	46.5	0	0	0	0	12	12
562.5	46.875	1	0	0	0	12	13
568.5	47.375	0	1	0	0	12	13
573	47.75	1	1	0	0	12	14
580.5	48.375	0	0	1	0	12	13
589.5	49.125	0	1	2	2	10	15
595.5	49.625	1	1	1	0	12	15
604.5	50.375	0	0	0	0	13	13
615	51.25	0	1	0	0	13	14
625.5	52.125	0	2	0	0	13	15
631.5	52.625	1	0	1	0	13	15
637.5	53.125	0	1	1	0	13	15
651	54.25	0	0	0	0	14	14
655.5	54.625	1	0	0	0	14	15
672	56	0	2	0	0	14	16
678	56.5	1	0	1	0	14	16
688.5	57.375	1	1	1	0	14	17
697.5	58.125	0	0	0	0	15	15
702	58.5	1	0	0	0	15	16
712.5	59.375	1	1	0	0	15	17
720	60	0	0	1	0	15	16

8. Install the Vent System

Install the Vertical Termination Vent System

These instructions should be used as a guideline and do not supersede local codes in any way. Install venting according to local codes, these instructions, the current National Fuel Gas Code (ANSI-Z223.1) in the USA or the current standards of CAN/CGA-B149.1 in Canada.

Ensure clearances are in accordance with local installation codes and the requirements of the gas supplier.

Dégagement conforme aux codes d'installation locaux et aux exigences du foumisseunde gaz.

Vertical vent systems terminate through the roof. The minimum vent height above the roof and/or adjacent walls is specified in ANSI Z223.1 (In Canada, the current CAN/CGA-B149.1 installation code) by major building codes. Always consult your local codes for specific requirements. A general guide to follow is the gas vent rule (***Table 5***).

The following figures and their associated vertical vent tables illustrate the various configurations that are possible for use with these fireplaces. Secure Vent® pipe is shown in these figures; Secure Flex® pipe may also be used. A table summarizes each configuration's minimum and maximum vertical and horizontal length parameters for a variety of applications.

1. Refer to ***Figure 22***, ***Table 16***, and ***Table 17*** on **Page 28** to select the type of vertical installation desired. Elbows are available in 90° and 45° configurations. Refer to ***Figure 16*** on **Page 22** for the SV4.5E45 and SV4.5E90 elbow dimensional specifications.

Clearance to combustibles

Maintain the minimum clearance to combustibles (e.g., framing, attic, ceiling insulation, etc.).

For all vertical runs:

- 1" (25 mm) from all sides

  NOTE: Attic insulation shield (H3907) must be installed when blown or loose-fill insulation is used, and is required for all attic installations.

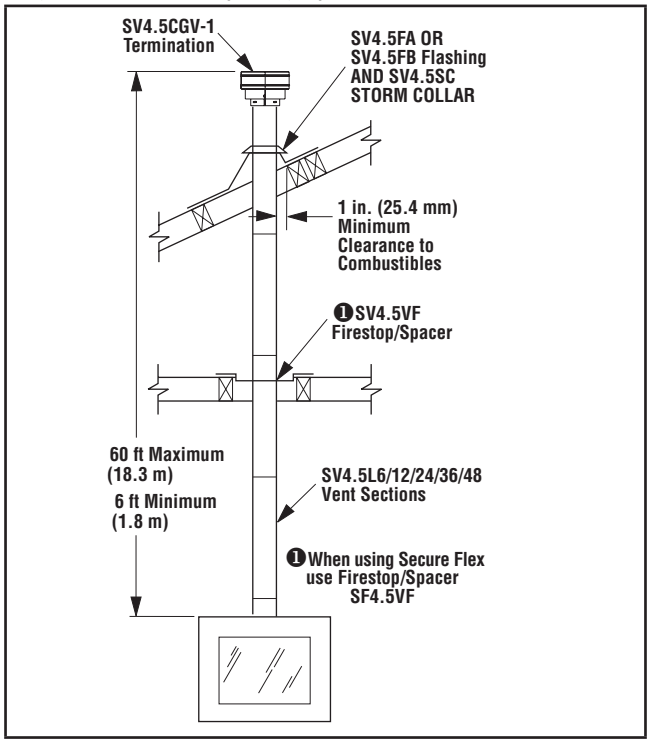
For all horizontal/inclined runs:

- 3" (76 mm) from the top
- 1" (25 mm) from the sides
- 1" (25 mm) from the bottom

Vertical (Straight) Installation

1. Determine the number of straight vent sections required (***Table 13***). Plan the vent lengths so that a joint does not occur at the intersection of ceiling or roof joists.

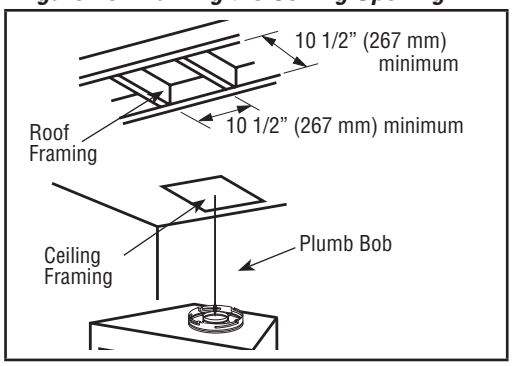
Figure 18: Vertical (Straight) Installation



Vertical (Offset) Installation

1. **Analyze the vent route**—Determine the number of vent sections (***Table 13***) and elbows (***Figure 16***) required.
2. **Frame the ceiling opening**—Use a plumb line from the ceiling above the fireplace to locate the center of the vertical run. Cut and/or frame an opening, 10 1/2 x 10 1/2" (267 x 267 mm) inside dimensions, about this center mark (***Figure 18***).

Figure 19: Framing the Ceiling Opening



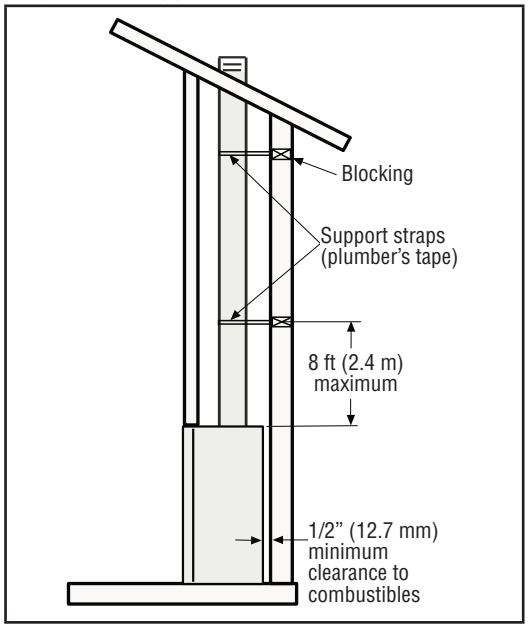
3. **Install the rope gasket**—Slide the rope gasket over the first vent component and position it snugly against the apppliance.
4. **Attach the vent components to the fireplace**—See **Connecting the vent pipe on Page 22**.
5. **Attach the vent components to each other**—See **Connecting the vent pipe on Page 22**.
6. **Install firestop/spacer at ceiling**—When using Secure Vent®, use SV4.5VF firestop/spacer at ceiling joists; when using Secure Flex®, use SF4.5VF firestop/spacer. If there is living space above the ceiling level, the firestop/spacer must be installed on the bottom side of the ceiling. If attic space is above the ceiling, the firestop/spacer must be installed on the top side of the joist. Route the vent sections through the framed opening and secure the firestop/spacer with 8d nails or other appropriate fasteners at each corner.

   Remember to maintain 1" (25 mm) clearance to combustibles, framing members, and attic or ceiling insulation when running vertical chimney sections. The gap between the vent pipe and a vertical firestop can be sealed with non-combustible caulking.

   NOTE: Attic insulation shield (H3907) must be installed when blown or loose-fill insulation is used, and is required for all attic installations.
7. **Support the vertical vent run sections**—Support the vertical portion of the venting system every 8 ft (2.4 m) above the fireplace vent outlet. One method of support is by utilizing field provided support straps (conventional plumber's tape). Secure the plumber's tape to the framing members with nails or screws. Loop the tape around the vent, securing the ends of the tape to the framing. If desired, sheet metal screws #6 x 1/2" length may be used to secure the support straps to the vent pipe (***Figure 19***).

   NOTE: Proper venting support is very important. The weight of the vent must not be supported by the fireplace.

Figure 20: Supporting the Vertical Vent Run

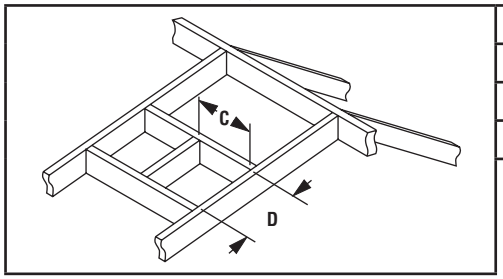


8. **Change vent direction of horizontal/inclined run**—Install the SV4.5E45 and SV4.5E90 elbows in the same manner as the straight vent sections. See **Vent elbows on Page 23** for more information.
9. **Continue installation of horizontal/inclined sections**—Continue with the installation of the straight vent sections in horizontal/inclined run. Install support straps every 5 ft (1.52 m) along horizontal/inclined vent runs using conventional plumber's tape.

   Rise per foot run ratios are acceptable all the way to level. For best results, maintain the horizontal/inclined run in a straight (no dips), slightly elevated plane of approximately 1/4" per 1 ft (20 mm per 1 m).

   Maintain the required clearances to combustibles (**Page 25**).
10. **Frame the roof opening**—Identify the location for the vent at the roof. Cut and/or frame opening (***Table 15***).

Table 15: Roof Framing Dimensions



Pitch	C	D
0/12	10 1/2" (267 mm)	10 1/2" (267 mm)
6/12	10 1/2" (267 mm)	12" (305 mm)
12/12	10 1/2" (267 mm)	17 3/4" (451 mm)

11. **Install the roof flashing**—Extend the vent sections through the roof structure. Install the roof flashing over the vent section and position such that the vent column rises vertically. Nail along perimeter to secure flashing or adjust roofing to overlap the flashing edges at top and sides only and trim where necessary. Seal the top and both sides of the flashing with waterproof caulking.
12. **Install the storm collar**—Install the storm collar, supplied with the flashing, over the vent/flashing joint (***Figure 20***). Loosen the storm collar screw. Slide collar down until it meets the top of the flashing. Tighten the adjusting screw. Apply non-combustible caulking or mastic around the circumference of the joint to provide a watertight seal.

Figure 21: Installing the Storm Collar

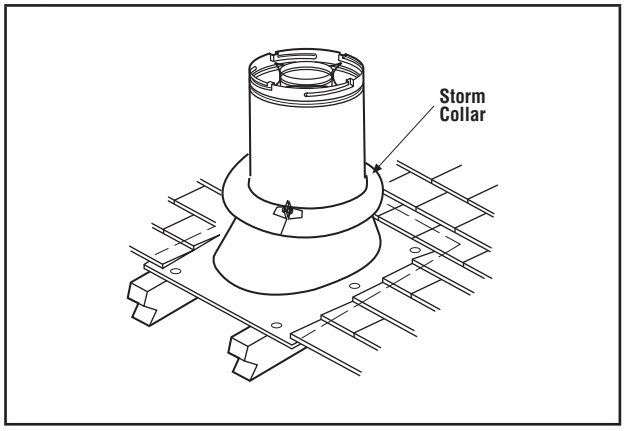
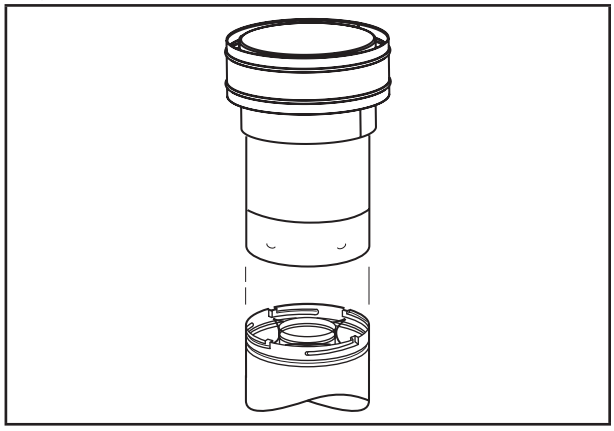


Figure 22: Installing the Vertical Termination



13. **Install the vertical termination**—Extend the vent sections to the correct height (***Figure 3***). The SV4.5CGV-1 Vertical Termination (***Figure 21***) installs in the exact same fashion as any other Secure Vent® section.

    If the vent system extends more than 5 ft (1.5 m) above the roof flashing, stabilizers may be necessary. Additional screws may be used at section joints for added stability. Guide wires or roof support assemblies may be attached to the joint for additional support on multiple joint configurations.

Vertical Vent Figures/Tables

NOTE: Secure Vent® rigid vent pipe is shown in the figures; Secure Flex® flexible vent pipe may also be used.

NOTE: Rise per foot run ratios are acceptable all the way to level. For best results, maintain the horizontal/inclined run in a straight (no dips), slightly elevated plane of approximately 1/4" per 1 ft (20 mm per 1 m).

NOTE: SV4.5VF (Secure Vent), SF4.5VF (Secure Flex) firestop/spacer must be used anytime vent pipe passes through a combustible floor or ceiling. SV4.5HF (Secure Vent), SF4.5HF (Secure Flex)firestop/spacer must be used anytime vent pipe passes through a combustible wall.

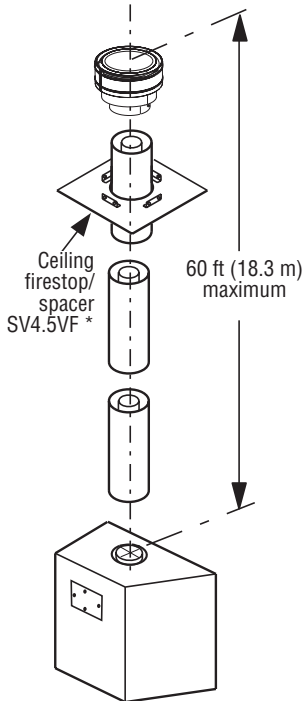
NOTE: Two (2) 45° elbows may be used in place of one (1) 90° elbow. The same rise to run ratios, as shown in the venting figures for 90° elbows, must be followed if 45° elbows are used.

NOTE: An elbow is acceptable as 1 ft of vertical rise, but may not be connected directly to the appliance vent collar.

⚠ WARNING

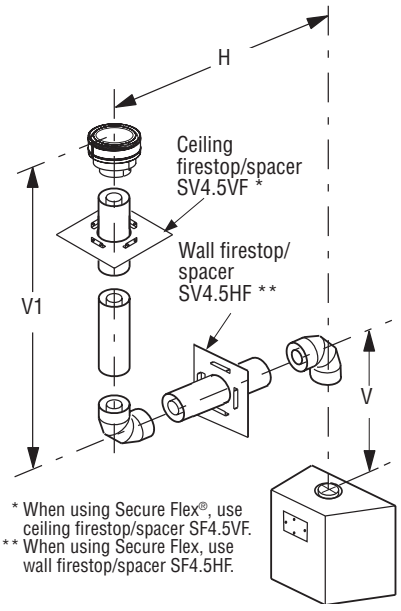
Do NOT join separate sections of concentric flexible vent pipe.

Figure 23: Top Vent—Straight



Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 22 for more information.

Table 16: Top Vent—Two 90° Elbows



H Maximum		V Minimum	
feet	meters	feet	meters
5	1.524	2	0.610
10	3.048	3	0.914
15	4.572	4	1.219
20	6.096	5	1.524

$V + V_1 + H = 60$ ft (18.3 m) maximum

H = 20 ft (6.096 m) maximum

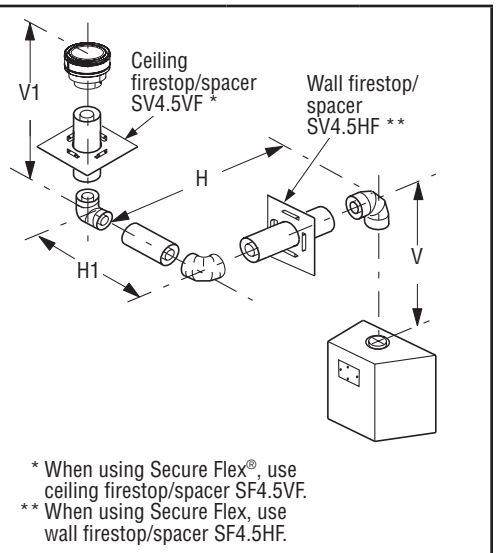
Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 22 for more information.

If 20 ft of (H) horizontal vent run is needed, then 4 ft (straight section) minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 20 ft.

An elbow is acceptable as 1 ft of vertical rise, but may not be connected directly to the appliance vent collar.

Table 17: Top Vent—Three Elbows



$H + H_1$ Maximum		V Minimum	
feet	meters	feet	meters
5	1.524	1	0.305
10	3.048	2	0.610
15	4.572	3	0.914
20	6.096	4	1.219

H + H1 = 20 ft (6.1 m) maximum

V + V1 + H + H1 = 60 ft (18.3 m) maximum

Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 22 for more information.

If 20 ft of (H) horizontal vent run is needed, then 4 ft (straight section) minimum of (V) vertical vent will be required.

This table shows a 1 (V) to 5 (H) ratio. For every 1 ft of (V) vertical, you are allowed 5 ft of (H) horizontal run, up to a maximum horizontal run of 20 ft.

An elbow is acceptable as 1 ft of vertical rise, but may not be connected directly to the appliance vent collar.

NOTE: The vent system may have a maximum of three (3) 90° elbows.

Install the Horizontal Termination Vent System

These instructions should be used as a guideline and do not supersede local codes in any way. Install venting according to local codes, these instructions, the current National Fuel Gas Code (ANSI-Z223.1) in the USA or the current standards of CAN/CGA-B149.1 in Canada.

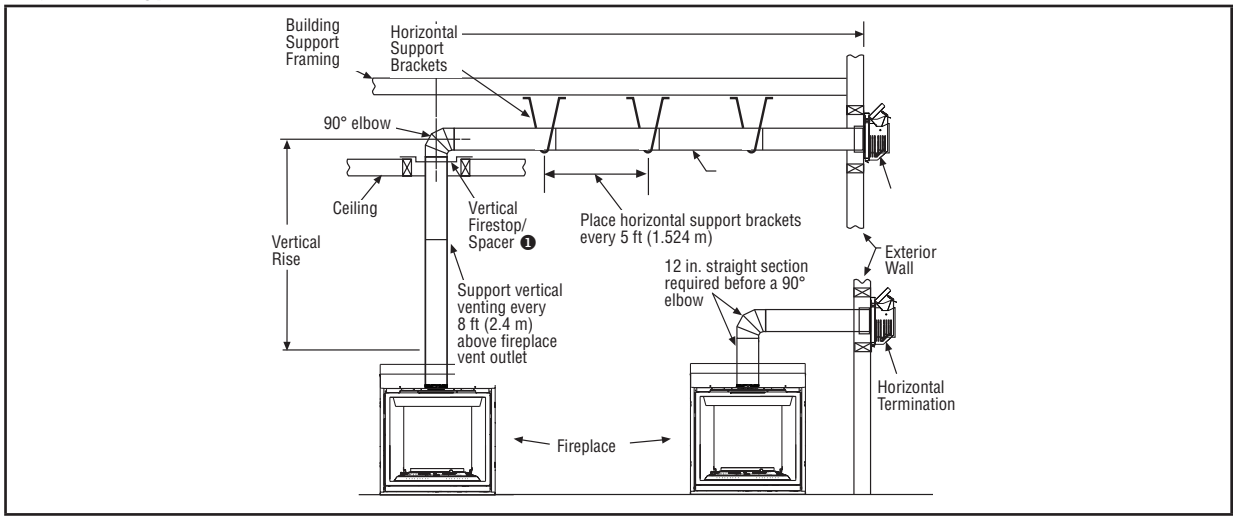
Ensure clearances are in accordance with local installation codes and the requirements of the gas supplier.

Dégagement conforme aux codes d'installation locaux et aux exigences du foumisseunde gaz.

Horizontal vent systems terminate through an outside wall. Building Codes limit or prohibit terminating in specific areas (***Table 6***).

The following figures and their associated horizontal vent tables illustrate the various configurations that are possible for use with these fireplaces. Secure Vent® pipe is shown in these figures; Secure Flex® pipe may also be used. A table summarizes each configuration's minimum and maximum vertical and horizontal length parameters for a variety of applications. For more information on connecting the vent pipe, see **Page 22**.

Figure 24: Typical Horizontal Vent Installation



1. **Plan the vent run**—Determine the number of straight vent sections required (***Table 13***).

   Plan the venting so that a joint does not occur in the ceiling or roof joists. Allow for elbows (***Figure 16***). Maintain the minimum clearances for combustibles (**Page 25**).

2. **Frame the exterior wall opening**—Locate the center of the vent outlet on the exterior wall (***Table 9***). Cut and/or frame an opening, 10 1/2 x 12 1/8" (267 x 308 mm) inside dimensions, about this center.

3. **Frame the ceiling opening**—If the vertical route is to penetrate a ceiling, use plumb line to locate the center above the fireplace. Cut and/or frame an opening, 10 1/2 x 10 1/2" (267 x 267 mm) inside dimensions, about this center (***Figure 18***).

4. **Install the rope gasket**—Slide the rope gasket over the first vent component and position it snugly against the apppliance.

5. **Attach the vent components to the fireplace**—See **Connecting the vent pipe on Page 22**.

   NOTE: An elbow may not be attached directly to the appliance collar. At a minimum, a 12" (305 mm) straight vent section is required before attaching the first elbow.

6. **Attach the vent components to each other**—See **Connecting the vent pipe on Page 22**.

7. **Install the firestop/spacer at the ceiling**—When using Secure Vent®, use SV4.5VF firestop/spacer at ceiling joists; when using Secure Flex®, use SF4.5VF firestop/spacer. If there is living space above the ceiling level, the firestop/ spacer must be installed on the bottom side of the ceiling. If attic space is above the ceiling, the firestop/spacer must be installed on the top side of the joist. Route the vent sections through the framed opening and secure the firestop/spacer with 8d nails or other appropriate fasteners at each corner.

   Maintain 1" (25 mm) clearance to combustibles, framing members, and attic or ceiling insulation when running vertical chimney sections.

8. **Support the vertical run sections**—On the vertical run, support the venting system every 8 ft (2.4 m) above the fireplace vent outlet with field provided support straps (Plumber's tape). Attach the straps to the vent pipe and secure to the framing members with nails or screws (***Figure 23***).

9. **Change vent direction**—At transition from or to a horizontal/inclined run, install SV4.5E45 or SV4.5E90 elbows in the same manner as the straight vent sections. The elbows feature a twist section to allow them to be routed about the center axis of their initial collar section to align with the required direction of the next vent run element. Twist elbow sections in a clockwise direction only so as to avoid the possiblity of unlocking any of the previously connected vent sections (***Figure 16***).

10. **Continue installation of horizontal/inclined sections**—Continue with the installation of the straight vent sections in horizontal/inclined run. Install support straps every 5 ft. (1.52 m) along horizontal/inclined vent runs using conventional plumber's tape (***Figure 23***). Maintain the horizontal/inclined run in a straight (no dips), slightly elevated plane. The recommended incline is approximately 1/4" per 1 ft (20 mm per 1 m) horizontal, in a direction away from the fireplace. Smaller rise per foot run ratios are acceptable all the way to at or near level.

    Maintain the required clearances to combustibles (**Page 25**).

11. **Assemble the vent run to the exterior wall**—If not previously measured, locate the center of the vent at the exterior wall. Prepare the opening. Assemble the vent system until the terminus of the last section is within 7" (178 mm) to 11 1/4" (286 mm) inboard of the exterior surface to which the SV4.5 HT termination is to be attached (***Figure 24***). If the terminus of the last section is not within this distance, use the telescopic vent section SV4.5LA, as the last vent section. ***Table 18*** lists the additional venting components needed (in addition to the termination and adaptor) for a range of wall thicknesses.

Table 18: Venting Components Required for Various Exterior Wall Thicknesses, when using Typical Termination Kits

Vent Components Required	Exterior Wall Thickness
Termination Kit Only	6–9 1/4" (152–235 mm)
Termination Kit and 6" Vent Section (SV4.5L6)	10 3/4–14" (273–356 mm)
Termination Kit and 12" Vent Section (SV4.5L12)	16 3/4–20" (426–508 mm)
Termination Kit and Telescopic Section (SV4.5L12)	11 3/4–20" (299–508 mm)

NOTE: See ***Figure 25*** for wall thickness ranges when using SV4.5HT-2 termination kit.

12. **Attach the termination adaptor**—Attach the adaptor (SV4.5RCH, provided with the termination) to the vent section or telescoping vent section, elbow, or fireplace collar (***Figure 24***).

13. **Install the firestop/spacer at the exterior wall**—When using the square termination, install SV4.5HF (Secure Vent), SF4.5HF (Secure Flex) Firestop/Spacer over the opening at the exterior side of the framing, long side up, with the 3" spacer clearance at the top (***Figure 24***) and nail into place.

    NOTE: The firestop/spacer also may be installed over the opening on the interior side of framing. The gap between the vent pipe and a firestop can be sealed with noncombustible caulking.

14. **Install the termination (**SV4.5HT-2**)**—From outside the exterior wall, slide the collars of the termination onto the adaptor (the outer over the outer and the inner inside the inner) until the termination seats against the exterior wall surface to which it will be attached. Orient the housing of the termination with the arrow pointed upwards. Secure the termination to the exterior wall. The horizontal termination must not be recessed into the exterior wall or siding by more than the 1 1/4" (32 mm) (***Figure 25***).

    NOTE: If the venting exits the building below grade, or close to grade, see **Installation Accessories on Page 44 for available snorkel terminations. The termination must be above grade and above the expected level of snow accumulation.**

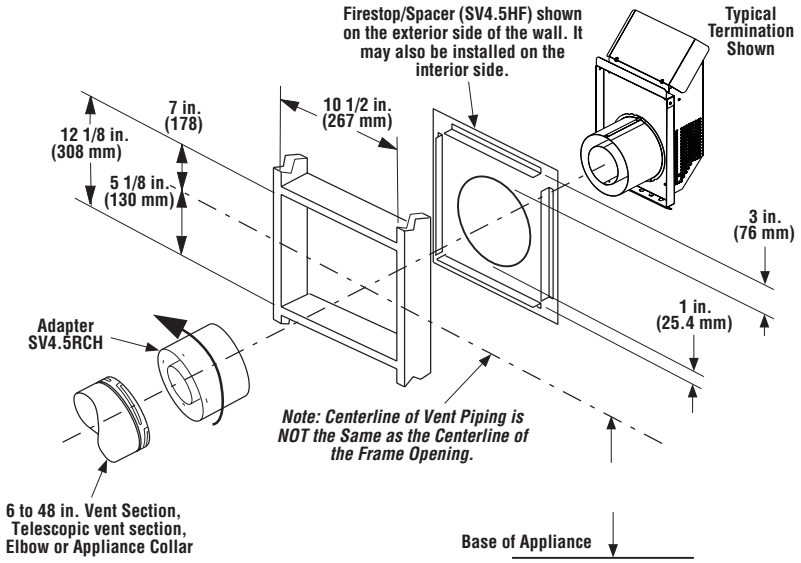
    NOTE: The vent termination is hot while in operation and for a period of time following the use of the fireplace. To prevent contact with hot surfaces, use a horizontal termination guard; available for purchase at your local dealer.

The horizontal terminations have been designed to perform in a wide range of weather conditions. Innovative Hearth Products terminations meet or exceed industry standards.

When selecting the location for a horizontal termination, **do not place the termination where water from eaves and adjoining rooflines may create a heavy flow of cascading water onto the termination cap**. If the cap must be placed where the possibility of cascading water exists, it is the responsibility of the builder to direct the water away from the termination cap with gutters or other means.

Carefully follow the installation instructions for the termination, including the use of silicone caulking where required.

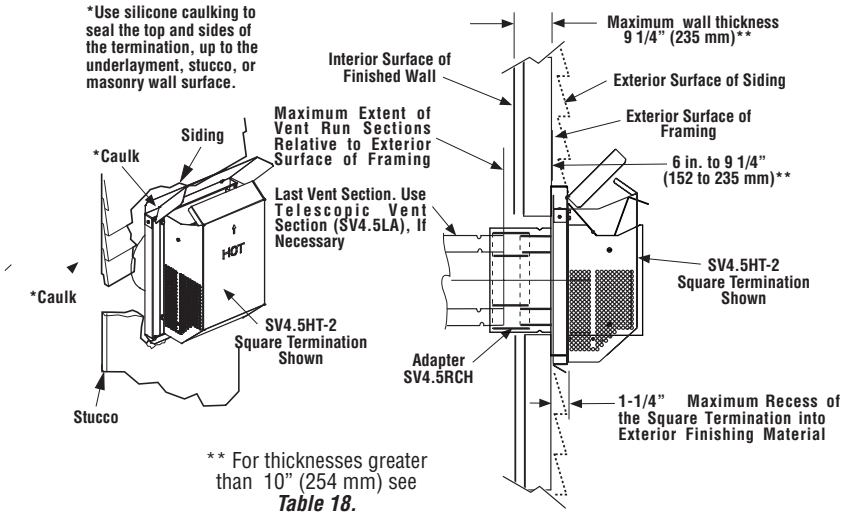
Figure 25: Installing the Horizontal Termination



See ***Table 9*** for the minimum distance to the base of the fireplace.

NOTE: To help minimize water infiltration install the firestop/spacer (SV4.5HF) on the exterior side of the wall. The firestop may be caulked with mill base caulk (such as 10K81) or high-temperature silicone.

Figure 26: Venting Connection and Exterior Wall Recessing of the Horizontal Termination



** For thicknesses greater than 10" (254 mm) see ***Table 18.***

Horizontal Vent Figures/Tables

NOTE: Secure Vent® rigid vent pipe and terminal are shown in the figures. Secure Flex® flexible vent pipe and terminal may also be used.

NOTE: Two (2) 45° elbows may be used in place of one (1) 90° elbow. The same rise to run ratios, as shown in the venting figures for 90° elbows, must be followed if 45° elbows are used.

NOTE: Maintain the horizontal/inclined run in a straight (no dips), slightly elevated plane. The recommended incline is approximately 1/4" per 1 ft (20 mm per 1 m) horizontal, in a direction away from the fireplace. Smaller rise per foot run ratios are acceptable all the way to at or near level. The maximum horizontal run is 16 ft.

NOTE: SV4.5VF (Secure Vent), SF4.5VF (Secure Flex) firestop/spacer must be used any time vent pipe passes through a combustible floor or ceiling. SV4.5HF (Secure Vent), SF4.5HF (Secure Flex) firestop/spacer must be used any time vent pipe passes through a combustible wall.

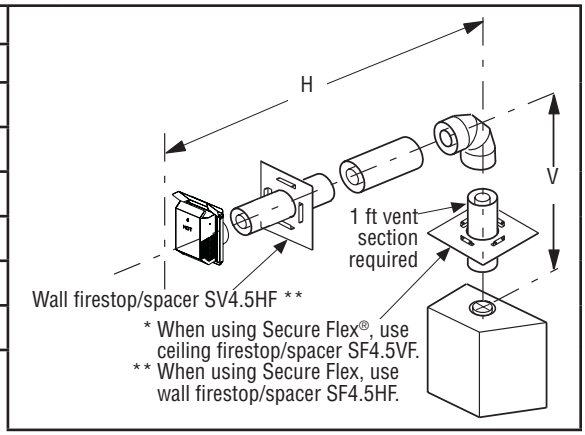
NOTE: An elbow is acceptable as 1 ft of vertical rise, but may not be connected directly to the appliance collar.

⚠ WARNING

Do not join separate sections of concentric flexible vent together.

Table 19: Top Vent—One 90° Elbow, Elbow Connection NOT at Fireplace

H Maximum		V Minimum	
feet	**meters**	**feet**	**meters**
3	0.91	1.6	0.490
5.2	1.58	3	0.914
6.8	2.07	4	1.22
8.4	2.56	5	1.524
10	3.05	6	1.729
16	4.87	10	3.050



V + H = 60 ft (18.3 m) maximum

H = 16 ft (4.87 m) maximum

Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 22 for more information.

Square termination (SV4.5HT-2) shown.

This table shows a 1 (V) to 1.6 (H) ratio. For every 1 ft of (V) vertical, you are allowed 1.6 ft of (H) horizontal run, up to a maximum horizontal run of 16 ft (4.87 m).

Table 20: Top Vent—Two 90° Elbows

H + H_1 Maximum		V Minimum	
feet	**meters**	**feet**	**meters**
3	0.91	1.6	0.490
5.2	1.58	3	0.914
6.8	2.07	4	1.22
8.4	2.56	5	1.524
10	3.05	6	1.729
16	4.87	10	3.050

V + H + H1 = 60 ft (18.3 m) maximum

H + H1 = 16 ft (4.87 m) maximum

Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 22 for more information.

Square termination (SV4.5HT-2) shown.

See ***Table 18*** as an aid in venting component selection for a particular range of exterior wall thicknesses.

This table shows a 1 (V) to 1.6 (H) ratio. For every 1 ft of (V) vertical, you are allowed 1.6 ft of (H) horizontal run, up to a maximum horizontal run of 16 ft (4.87 m).

An elbow is acceptable as 1 ft of vertical rise, but may not be connected directly to the appliance collar.

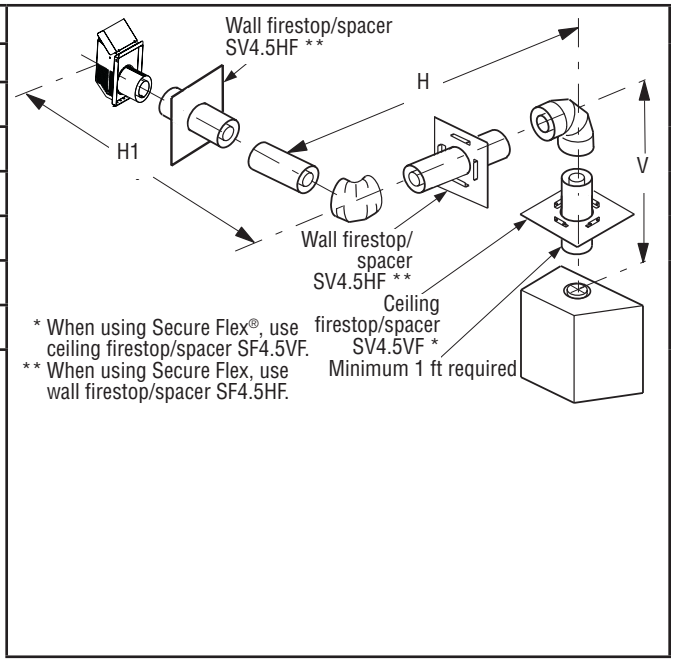


Table 21: Top Vent—Three 90° Elbows

H Maximum		V Minimum	
feet	**meters**	**feet**	**meters**
3	0.91	1.6	0.490
5.2	1.58	3	0.914
6.8	2.07	4	1.22
8.4	2.56	5	1.524
10	3.05	6	1.729
16	4.87	10	3.050

H + H1 = 16 ft (4.87 m) maximum

V + V1 +H + H1 = 60 ft (18.3 m) maximum

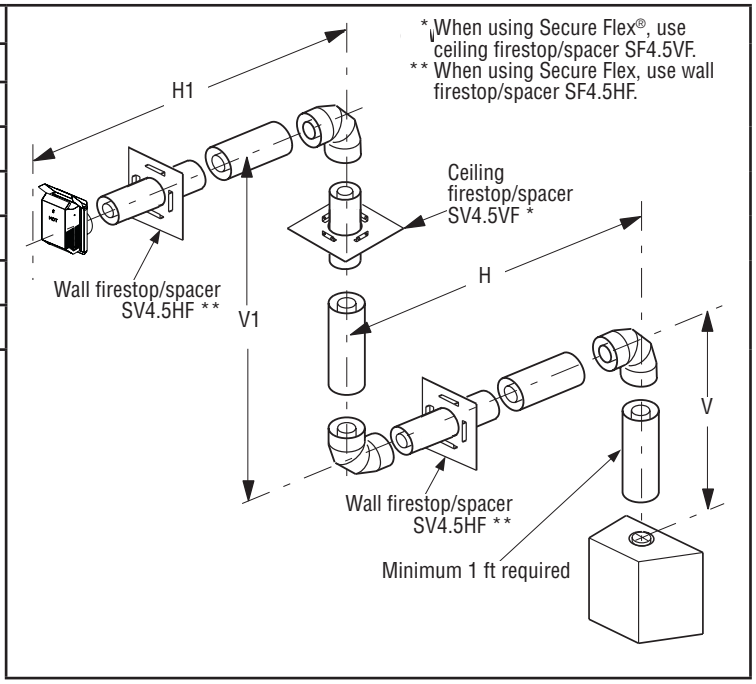
Install the U-shaped vent restrictor in any vent run with more than 6 ft of vertical rise. See Page 22 for more information.

Square termination (SV4.5HT-2) shown.

See ***Table 18*** as an aid in venting component selection for a particular range of exterior wall thicknesses.

This table shows a 1 (V) to 1.6 (H) ratio. For every 1 ft of (V) vertical, you are allowed 1.6 ft of (H) horizontal run, up to a maximum horizontal run of 16 ft (4.87 m).

An elbow is acceptable as 1 ft of vertical rise, but may not be connected directly to the appliance collar.



Vertical or Horizontal Venting Using Secure Flex Kits and Components

Secure Flex venting kits and components may be used in any other vent installation where rigid Secure Vent® (SV4.5) direct-vent components can be used. All restrictions, clearances and allowances pertaining to rigid vent also apply to flexible vent. Do NOT modify Secure Flex kits . Also, do NOT join separate sections of flex vent together. Secure Flex kits can be installed on the end of a Secure Vent (SV4.5) rigid vent run, provided that doing so does not violate any of the venting length, height, routing, horizontal to vertical ratio requirements, or clearance considerations detailed in this manual. When combined, a rigid vent should not be installed between two flexible vents.

Secure Flex kits come with an included adaptor that can be installed on the fireplace collar or the inclined channel end of the last Secure Vent (SV4.5) vent section in a rigid system in the exact same fashion as any other Secure Vent section. Align the dimpled end of the adaptor over the previously installed section or fireplace collar, adjusting the radial alignment until the four locking dimples of the adaptor are aligned with the inlets of the four incline channels of the last vent section or collar. Push on the adaptor until it is fully engaged, then twist the adaptor clockwise running the dimples down and along the incline channels until they seat at the end of the channels.

Figure 27: Flexible Vent Adaptor

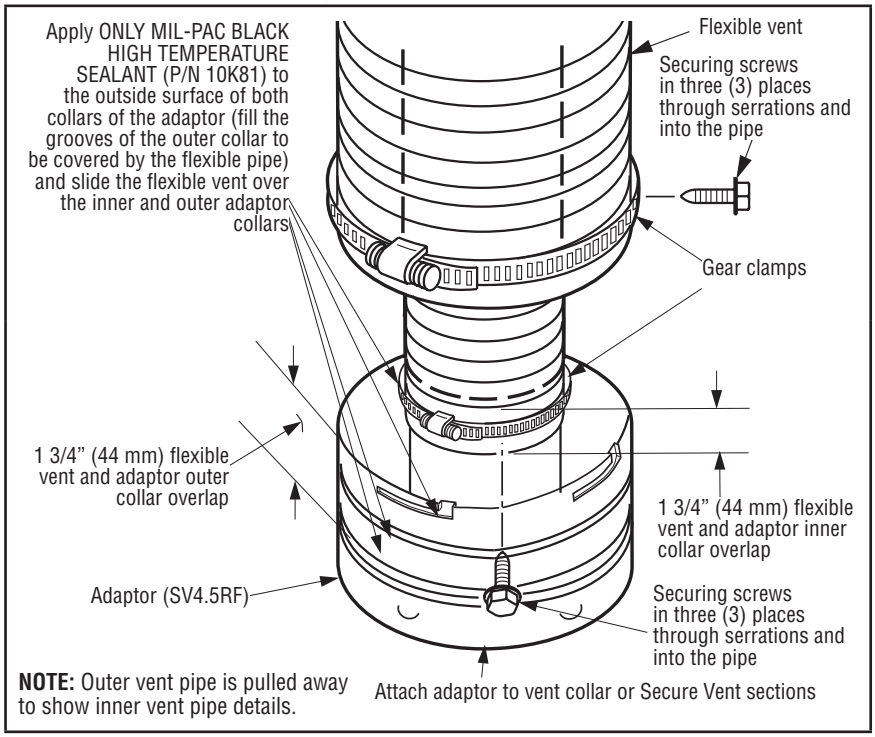
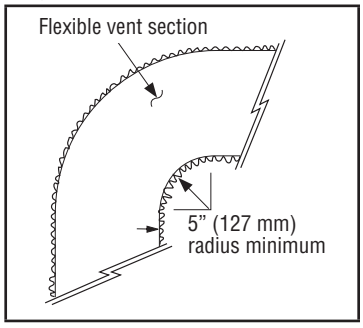
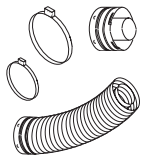


Figure 28: Flexible Vent





Shown here: 36" Flex Connector Kit (H7748)

36" of flex with two adaptors for mating two rigid sections of vent together.

1. Install the Inner Flex Pipe.
   - **a.** Install the small gear clamp loosely around the inner flexible vent, then push it back out of the way.
   - **b.** Apply a bead of Mill-Pac Black (700 °F) high temperature sealant (P/N 10K81) to the inner adaptor collar, approximately 1/2" from the end.
   - **c.** Pull and extend the inner flexible vent.
   - **d.** Slide the inner flex vent over the adaptor collar at least 1 3/4".

   NOTE: Ensure the flex vent is free from damage or tears.

   - **e.** Slide the gear clamp down and tighten it fully to secure the flexible vent to the adaptor inner collar approximately 3/4" from the end of the flex.
   - **f.** Install three (3) screws 120° apart through the flexible vent and into the adaptor collar just below the gear clamp to provide additional security to the connection.
2. Install the outer Flex Pipe.
   - **a.** Install the large gear clamp loosely around the outer flexible vent pipe, then push it back out of the way.
   - **b.** Apply a bead of Mill-Pac Black (700 °F) high temperature sealant (P/N 10K81) to the outer adaptor collar. Cover to the grooves of the collar that extend approximately 1" from the end and to the flat surface, approximately 1 3/8" from the end.
   - **c.** Pull and extend the outer flexible vent.
   - **d.** Slide the outer flexible vent over the adaptor collar. Ensure the flexible vent completely engages the adaptor collar 1 3/4" from the end, and that it is free from damage or tears.

e. Slide the gear clamp down and tighten it fully to secure the flexible vent to the adaptor outer collar approximately 3/4" from the end of the flexible vent.

f. Install three (3) screws 120° apart through the flexible vent and into the adaptor collar just below the gear clamp to provide additional security to the connection.

3. Route the flexible vent.

NOTE: Ensure that the flexible vent is properly routed to provide the required clearance. Do NOT allow the flexible vent to bend in a radius tighter than 5" (127 mm) (***Figure 27***). Place the internal flexible vent spacers evenly and avoid kinking the inner vent. Support horizontal sections of flexible vent with metal straps at 2 ft (0.61 m) intervals.

4. Install firestop/spacers at ceiling and wall penetrations.

- SF4.5 VF firestop/spacer for ceilings
- SF4.5 HF firestop/spacer for walls

NOTE: See the appropriate sections and figures shown throughout the venting section for installation requirements.

5. Attach the flexible vent to the termination.

NOTE: Secure Flex® components can be purchased separately and attached to bulk lengths of Secure Flex flexible vent cut to size at the job site. Attach the flexible vent to the Secure Flex terminations as it was attached to the adaptor (***Figure 26***).

NOTE: Attach Secure Flex vent to Secure Flex terminations only. Do NOT substitute Secure Vent® terminations or Secure Vent adaptor for Secure Flex components. Secure Flex termination and adaptor collars are a different circumference than Secure Vent collars. Secure Flex vent has an longer center tube to improve ease-of-installation.

9. Complete the Field Wiring

⚠ WARNING

Electrical Grounding Instructions

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. DO NOT cut or remove the grounding prong from this plug.

⚠ CAUTION

The ground supply lead must be connected to the wire attached to the green ground screw located on the outlet box (see wiring diagrams). Failure to do so will result in a potential safety hazard. The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, the National Electrical Code, ANSI/NFPA 70—latest edition (in Canada, the current CSA C22-1 Canadian Electrical Code).

⚠ CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

⚠ ATTENTION

Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux.

Verify proper operation after servicing.

S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.

The gas valve is set in place and pre-wired at the factory. This appliance must be connected to 120 Vac power.

Figure 29: Wiring Diagram—Electronic Gas Valves

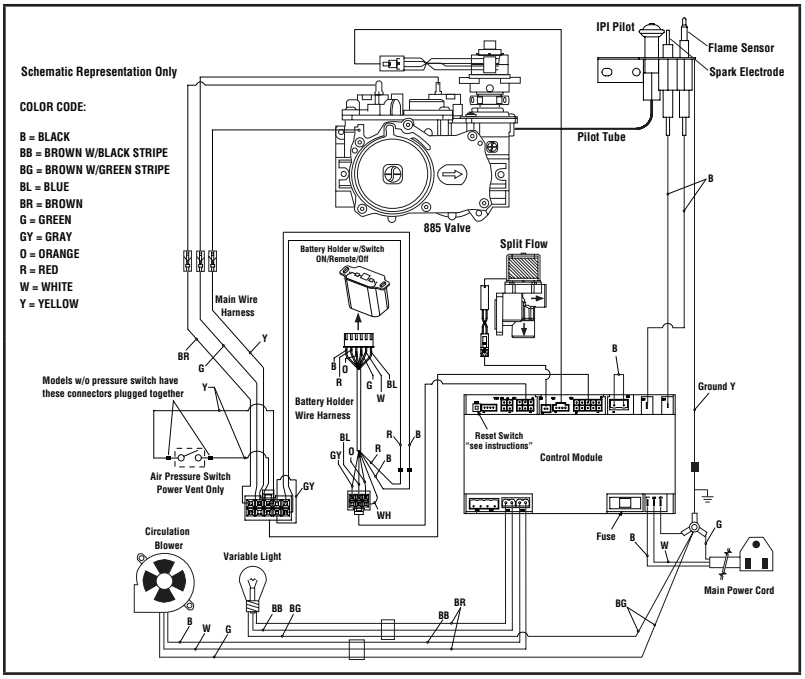
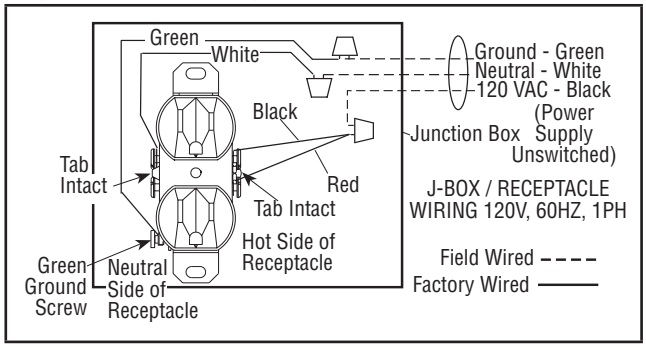


Figure 30: Wiring Diagram—Junction Box



One of the following optional controls may be used:

- ON/OFF Wall Switch,
- Thermostat, or
- Remote Control.

See the **Operation** section on **Page 48** for more details.

1. Route a 3-wire, 120 Vac, 60 Hz, 1 ph power supply to the fireplace junction box.
2. Remove the electrical inlet cover plate from the side of the unit by removing the plate's securing screws.
3. Remove the cover plate knockout. Install a strain relief. Then, feed the power supply wire through the knockout opening and into the unit junction box.
4. Use wire nuts to connect the leads from the appliance to the power supply leads.
5. Replace the cover plate.
6. Install the wall-mounted ON/OFF control in a convenient location near the fireplace.

10. Installing and initializing the Remote Control System

Install the remote control system

Required Items (not provided):

- Standard Junction Box
- Paper Clip or similar object (for remote control system initialization)

The receiver for the remote control system connects directly to the gas valve, stepper motor, and fan control module with an umbilical cord wiring harness.

1. Install a junction box (not provided) on the wall adjacent to the appliance, within reach of the remote system umbilical cord wiring harness.
2. Position the terminal within the junction box in preparation for attachment to the remote wall switch.
3. When wall finish is complete, install the wall switch in the previously installed junction box, and connect the terminal to the connector on the back of the wall switch.
4. Install the wall switch cover plate, taking care to ensure the wall switch is properly indexed with the switch cover when aligning the components for attachments.

Initialize the remote control system

After completing fireplace installation, initialize the remote control system before operating the fireplace.

1. Insert the three (3) provided AAA batteries into the battery bay in the transmitter. Correctly align polarity (+/–).
2. Insert the four (4) provided AA batteries into the wall switch battery bay (behind the wall switch plate). Correctly align polarity (+/–).
3. On the wall switch, place the three-position slider switch in the REMOTE position (***Figure 30***).
4. On the wall switch front cover, insert the end of a paper clip (or other similar object) into the hole marked PRG.

   NOTE: The Receiver will beep three (3) times to indicate it is ready to synchronize with the transmitter.
5. On the transmitter, press the ON button. The receiver will beep four (4) times to indicate acceptance of the transmitter's command (and set the receiver to the transmitter's specific code). The system is now initialized.

The receiver accepts commands via radio frequency from the transmitter and does not require line-of-sight for operation. The remote control system can operate the following fireplace functions:

- Primary burner ON/OFF
- Auxiliary burner ON/OFF
- Dimmable light function
- 6-speed blower operation
- Flame height and heat output adjustment (six levels)

The slider on the wall switch can be set to one of three positions:

- ON (manual override)
- OFF (manual override)
- REMOTE (remote control)

See the **Operation** section on **Page 48** for more details.

Figure 31: Wall Switch

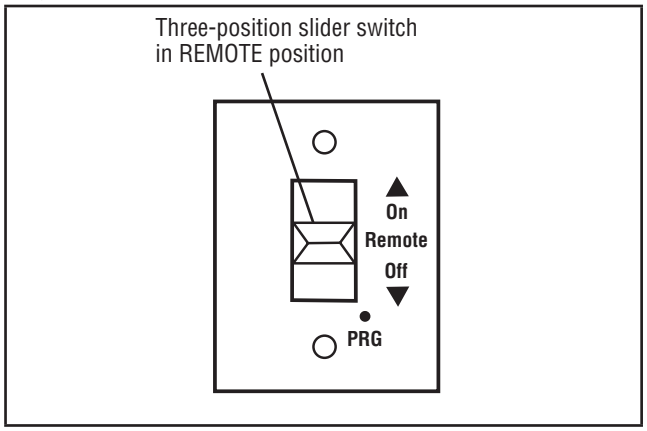
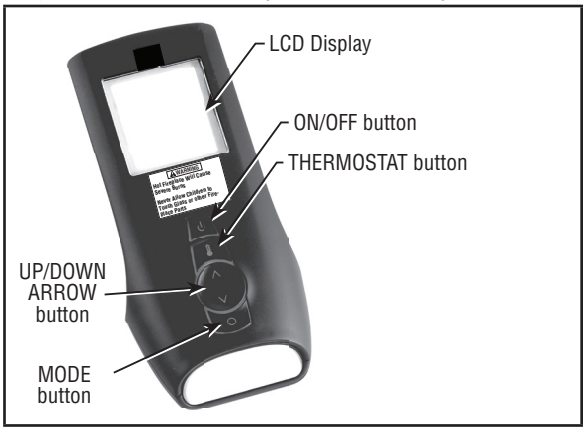


Figure 32: Transmitter (Remote Control)



⚠ WARNING

Fire hazard. Can cause severe injury or death. The receiver causes ignition of the appliance. The appliance can turn on suddenly. Keep away from the appliance burner when operating the remote system or activating manual bypass of the remote system.

⚠ CAUTION

Property damage hazard. Excessive heat can cause property damage. The appliance can stay lit for many hours. Turn off the appliance if it is not going to be attended for any length of time. Always place the Transmitter where children can not reach it.

11. Connect the Gas Line

All codes require a shutoff valve mounted in the supply line. The shutoff valve should be oriented to face the fireplace front. The flex-line method is acceptable in the U.S.A. where local codes permit it. In the Commonwealth of Massachusetts, installation must be performed by a licensed plumber or gas fitter. Canadian requirements vary depending on locality. Installation must be in compliance with local codes. These appliances are equipped with a gas flex line for use in connecting the unit to the gas line (***Figure 33***). The flex line is rated for both natural and propane gas. A manual shutoff valve is also provided with the flex line.

NOTE: A sediment trap is recommended in the gas piping within the home to prevent moisture and debris in the line from damaging the valve.

NOTE: Secure all joints tightly using appropriate tools and sealing compounds (ensure propane resistant compounds are used in propane applications). Optionally, seal around the gas line to prevent cold air leakage. Gas line holes and other openings can be caulked or stuffed with unfaced fiberglass insulation.

The gas control valve is located on the left of the firebox, in the side control compartment. The valve is accessible with the glass door removed (***Figure 32***).

Figure 33: Control Compartment

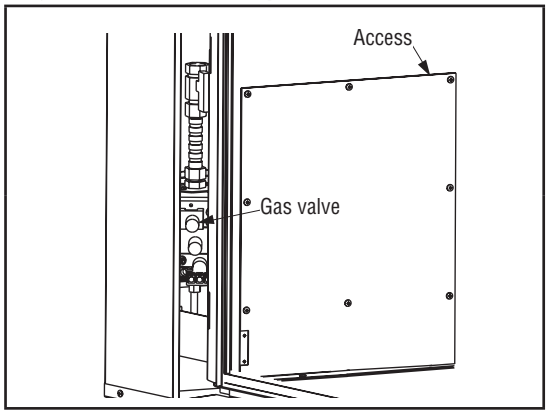
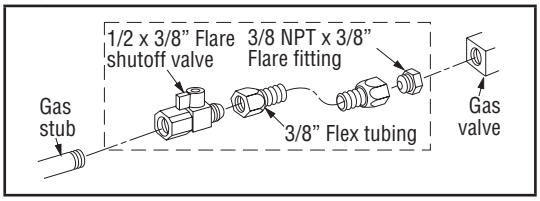


Figure 34: Gas Line Connection



These fireplaces are equipped with a gas flex line for use (where permitted) in connecting the unit to the gas line. A gas flex line is provided to aid in attaching the direct-vent fireplace to the gas supply. The gas flex line can only be used where local codes permit. The flex line is rated for both natural and propane gas. A manual shut off valve is also provided with the flex line.

1. Route a hard pipe from the lefthand side to a spot directly below the access plate opening.
2. Locate the shutoff valve and gas flex line and pull the assembly forward, out of the compartment. Separate the shutoff valve from the gas flex line. Determine the length of pipe needed to route the gas line from the last fitting to a point directly below the access plate opening.
3. Using pipe-dressing materials appropriate for the gas type, securely affix the shutoff valve to this pipe at a convenient location outside of the appliance control compartment.
4. Insert the last length of gas pipe with the attached shutoff valve into the control compartment, and pass it through the gas line access hole on the left side of the appliance outer wrapper.
5. Using materials appropriate for the gas type, thread the last length of pipe into the end of the gas vent run and tighten it in place using a pipe wrench.
6. Turn the last piece of gas pipe in the last fitting until the shutoff valve is positioned in a way that allows the shutoff valve handle to be accessed in the control compartment and easily operated through its full range of motion.
7. Bring the flex line to the shutoff valve by hand and align the flare fittings. Tighten the fittings by hand, and then use a wrench to tighten completely, 1/4 turn at a time.

Access the Control Compartment

See **Page 50** for instructions on **Accessing the Control Compartment**.

Electronic control valves have a 3/8" (10 mm) NPT thread inlet port.

Secure all joints tightly using appropriate tools and sealing compounds (ensure propane resistant compounds are used in propane applications). Optionally, seal around the gas line to prevent cold air leakage. Gas line holes and other openings can be caulked or stuffed with unfaced fiberglass insulation.

All codes require a shutoff valve mounted in the supply line. The orientation of the shutoff valve should face the front. ***Figure 33*** illustrates two methods for connecting the gas supply. A sediment trap is recommended to prevent moisture and debris in the gas line from damaging the valve.

Test Factory and Field Connections for Gas Leaks

⚠ WARNING

Never use an open flame to check for leaks.

1. Turn ON the gas supply and test for gas leaks, using a gas leak test solution—also known as bubble leak solution.

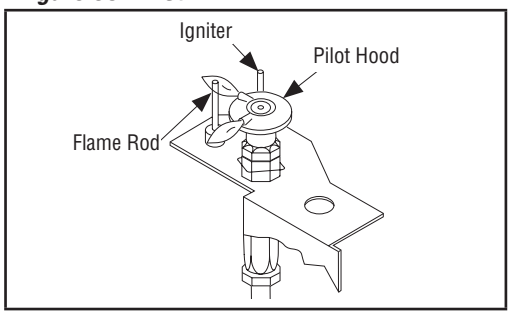
   NOTE: Using a soapy water solution is an effective leak test solution but it is not recommended, because the soap residue that is left on the pipes/fittings can result in corrosion over time.
2. Light the fireplace (refer to the lighting instructions label in the control compartment or **Page 63**).
3. Brush all joints and connections with the gas leak test solution to check for leaks. If bubbles are formed, or gas odor is detected, turn the gas control knob to the OFF position. Either tighten or refasten the leaking connection, and then retest as described above.
4. When the gas lines are tested and leak free, rinse off the leak testing solution

12. Verify Proper Fireplace Operation

1. With the gas line installed, inspect the system before closing the front of the unit.
2. Follow the pilot lighting instructions (**Page 63**).

   NOTE: When lighting the fireplace for the first time, it will take a few minutes for the gas line to purge itself of air. When purged, the pilot and burner will light and operate as indicated. Subsequent lighting of the fireplace will not require purging. Inspect the pilot flame (carefully remove logs, if necessary).
3. To light the burner, turn ON the wall or (optional) remote control switch. Ensure the igniter lights the pilot. The pilot flame should engulf the flame rod (***Figure 34***).

Figure 35: Pilot



13. Install the Firebox Liners

1. See **Page 53** for instructions on **Installing the Firebox Liners**.

14. Contemporary Fireplaces: Install the Glass Media

1. See **Page 53** for instructions on **Installing the Glass Media**.

15. Traditional Fireplaces: Install the Logs

1. See **Page 54** for instructions on **Installing the logs**.

16. Install the Glass Door

1. See **Page 56** for instructions on **Installing and removing the glass door**.

17. Adjust the Air Shutter to Ensure Proper Flame Appearance

⚠ WARNING

- **Air shutter adjustment should only be performed by a qualified professional service technician.**
- **Ensure glass door is in place and sealed during adjustment.**

CAUTION

- **Soot will be produced if the air shutter is closed too much. Any damage due to sooting, resulting from improperly setting the air shutter, is not covered under the warranty.**
- **The air shutter rod and nearby appliance surfaces are hot. Exercise caution to avoid injury while adjusting flame appearance.**

Flame Appearance and Sooting

The flame should be blue at the base, and yellow-orange in the body of the flame.

When the fireplace is first lit, the entire flame may be blue and will gradually turn yellow-orange during the first 15 minutes of operation. If the flame remains blue, or if the flame is orange with evidence of sooting (black tip), the air shutter opening may need to be adjusted.

If the air shutter opening is closed too far, sooting may develop. Sooting is indicated by black puffs developing at the tips of very long orange flames. Sooting results in black deposits forming on the logs, fireplace inside surfaces, and on exterior surfaces adjacent to the vent termination.

Sooting is caused by incomplete combustion in the flames and lack of combustion air entering the air shutter opening. To achieve a warm yellow-orange flame with an orange body that does not soot, the shutter opening must be adjusted between these two extremes.

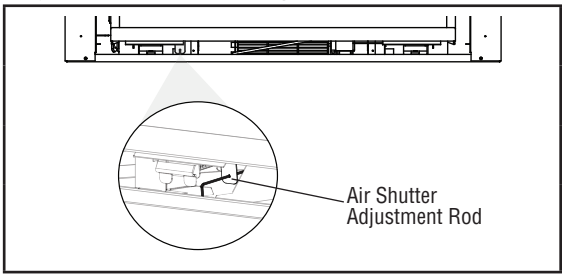
Air Shutter Adjustment Guidelines

- If smoke or soot is present, first check the log set positioning to ensure that the flames are not impinging on any of the logs. If the log set is properly positioned and a sooting condition persists, then the air shutter should be opened more.
- The more offsets in the vent system, the wider the air shutter will need to be opened.
- A fireplace operated with the air shutter opened too far may have flames that appear blue and transparent. These weak, blue, and transparent flames are termed anemic.
- Propane models may exhibit flames that candle or appear stringy. If this condition is present and persists, adjust the air shutter to a more closed position, then operate the fireplace for a few more minutes to ensure that the flame normalizes and the flames do not appear sooty.The following chart is provided to help achieve the correct air shutter adjustment for your installation.

Table 22: Air Shutter Adjustment Guidelines

Amount of Primary Air	Flame Color	Air Shutter Adjustment
If air shutter is closed too far →	Flame will be orange →	Air shutter gap should be increased
If air shutter is open too far →	Flame will be blue →	Air shutter gap should be decreased

Figure 36: Air Shutter Adjustment Rod



1. Remove the top louver and the surround trim assembly (**Page 57**).
2. Locate the air shutter adjustment rod in the lower control compartment (***Figure 35***), and adjust it to the standard setting.

   NOTE: Pull the rod out to close, and push the rod in to open the air shutter.
3. Light the fireplace. Follow the lighting procedure on the lighting label in the control compartment or **Page 63**.
4. Allow the burner to operate for at least fifteen (15) minutes while observing the flame continuously to ensure that the proper flame appearance is achieved (***Figure 36*** and ***Figure 37***). If the following conditions are present, adjust accordingly.
   - If flame appears weak or sooty, adjust the air shutter, incrementally, to a more open position until the proper flame appearance is achieved.
   - If flame remains blue, adjust the air shutter, incrementally, to a more closed position until the proper flame appearance is achieved.
5. When satisfied that the burner flame appearance is normal, reinstall the surround trim assembly and top louver, then proceed to finish the installation.

Figure 37: Traditional Fireplaces Flame Appearance

Figure 38: Contemporary Fireplaces Flame Appearance

Table 23: Main Burner Shutter Opening—Factory Setting

Models	Natural Gas	Propane
35”	3/16” (4.8 mm)	7/16” (11.1 mm)
40”	3/16” (4.8 mm)	3/8” (9.5 mm)
45”	3/16” (4.8 mm)	3/8” (9.5 mm)

18. Install the Finishing Materials

1. Complete finished interior wall.

   NOTE: To install the fireplace facing flush with the finished wall, position framework to accommodate the thickness of the finished wall.

2. Remove the surround trim assembly (***Figure 7***)
3. Remove the finish trim gap fillers from the side of the fireplace, and identify the left and right side pieces (***Figure 38***).

Figure 39: Finish Trim Gap Fillers

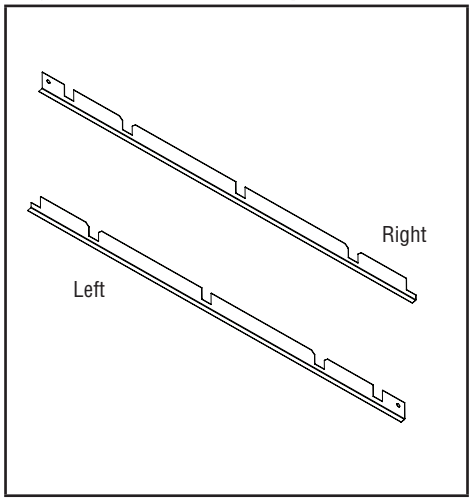
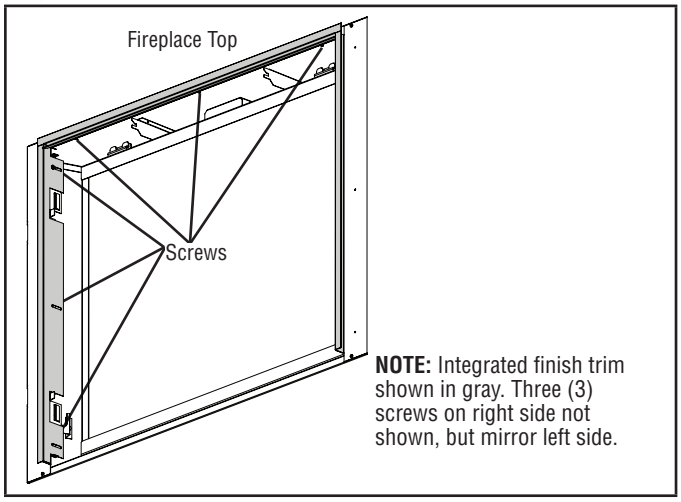


Figure 40: Finish Trim Fasteners



NOTE: Integrated finish trim shown in gray. Three (3) screws on right side not shown, but mirror left side.

4. Loosen the nine (9) screws securing the integrated finish trim and slide the trim out and away from the fireplace door (***Figure 39***).

   NOTE: The integrated finish trim is designed to be “flush face” with a minimum thickness of 1” (25 mm) in a non-combustible wall. The fireplace is supplied with 1/2” (13 mm) non-combustible wall material (***Figure 40***).

   NOTE: A “flush face” installation will require a minimum of an additional 1/2” (13 mm) non-combustible (installer-supplied) wall material (***Figure 41***) to create the minimum 1” (25 mm) thick wall. The fireboard supplied with the unit is not intended to be the finish material.The supplied fireboard must be covered with additional field supplied non-combustible material.

NOTE: The integrated finish trim is adjustable to accommodate a wall thickness of an additional 1" (25 mm)—for a 2" (51 mm) total thickness.

NOTE: For wall thicknesses greater than 2" (51 mm), remove the three integrated finish trim pieces (***Figure 39***).

Figure 41: Non-combustible Wall

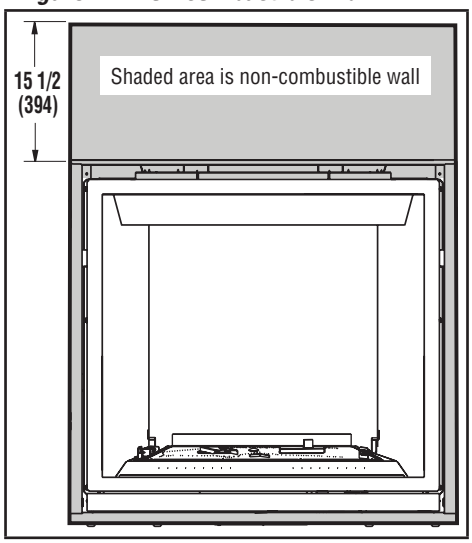
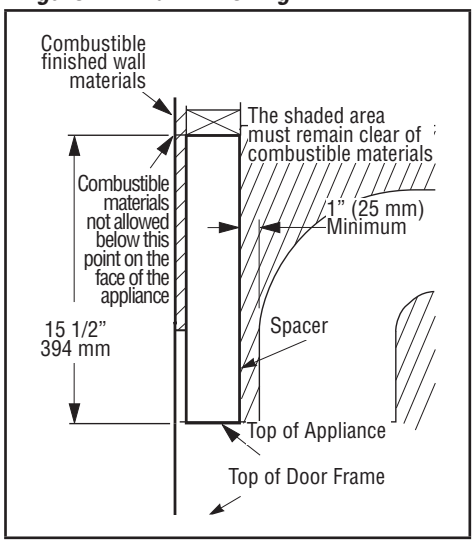


Figure 42: Wall Finishing



NOTE: See **Cold Climate Insulation on Page 10** and **Vent Termination Clearances on Page 12**.

5. Slide the finish trim in until it is flush with the finished wall surface. Tighten the nine (9) screws (***Figure 39***) securing the finish trim.
6. Install the surround trim assembly (***Figure 47***).
7. Slide the left finish trim gap filler into the left gap between the finish trim and the surround trim assembly (***Figure 46***).

   NOTE: NOTE: Ensure the finish trim gap filler slides into the spring clip, as shown.
8. Slide the right finish trim gap filler into the right gap between the finish trim and the surround trim assembly (***Figure 46***).

   NOTE: Ensure the finish trim gap filler slides into the spring clip, as shown.

⚠ WARNING

The surround trim assembly includes an integrated barrier to reduce the risk of burns from the hot viewing glass. Do not operate the fireplace without the surround trim assembly / barrier installed.

19. Attach the Safety-in-Operation Warning Labels

1. Attach the furnished safety instruction labels at all fireplace operation and control points (**Page 43**).

   NOTE: The installer MUST ensure these warnings are properly attached during installation. The warning labels are a critical means of informing consumers of safe operation practices.

Attach the Safety-in-Operation Warnings

NOTE: It is the installer's responsibility to ensure these warnings are properly affixed during installation. These warning labels are a critical step in informing consumers of safe operation of this appliance.

Attaching Safety-in-Operation Warnings

It is required that the set of safety instruction labels that have been furnished with the fireplace be affixed to the operation and control points of the fireplace. A safety instruction label must be affixed to the receiver wall switch plate where the fireplace is turned on and off (***Figure A***) and on the remote control handheld transmitter (***Figure B***). To properly complete the installation of this fireplace, locate the multi-lingual adhesive labels provided with the Care and Operation Instructions and proceed as follows:

1. Locate the wall receiver that controls the fireplace (verify the switch operates the fireplace by turning it on and off). Clean the wall receiver plate thoroughly to remove any dust and oils. Affix the label to the surface of the plate of the wall receiver that controls the fireplace (***Figure A***). Choose the language primarily spoken in the home. If unknown, affix the English language label.
2. Locate the remote control transmitter and clean it thoroughly to remove any dust and oils. Affix the label to the surface of handheld transmitter (***Figure B***). Choose the language primarily spoken in the home. If unknown, affix the English language label.
3. If you are unable to locate the labels, please call Innovative Hearth Products or your nearest Innovative Hearth Products dealer to receive additional safety instruction labels free of charge.

Cat. No. H8024 Replacement Label Kit

NOTE: English is red text on clear label. French and Spanish are white text on black label.

Apposition des mises en garde relatives à la sécurité d'utilisation

Il est impératif que le jeu d'étiquettes de sécurité qui ont été fournies avec le foyer soient collées à côté des dispositifs de contrôle du foyer. Une étiquette de sécurité doit être collée sur la plaque du récepteur mural contrôlant l'allumage du foyer (***Figure A***) et sur le boîtier de la télécommande (***Figure B***). Pour achever l'installation correcte de ce foyer, procédez comme suit avec les étiquettes adhésives en langues étrangères fournies avec les instructions d'utilisation et d'entretien :

1. Repérez le récepteur mural qui contrôle le foyer (vérifiez que l'interrupteur contrôle le fonction-nement du foyer en le faisant basculer de Marche à Arrêt, et vice-versa). Nettoyez soigneusement la plaque du récepteur mural pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur la surface de la plaque du récepteur mural qui contrôle le foyer (***Figure A***). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire. En cas de doute, collez l'étiquette en anglais.
2. Repérez la télécommande et nettoyez-la soigneusement pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur le boîtier de la télécommande (***Figure B***). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire. En cas de doute, collez l'étiquette en anglais.
3. Si vous ne trouvez pas les étiquettes, veuillez appeler Innovative Hearth Products ou votre distributeur Innovative Hearth Products local pour recevoir gratuitement des étiquettes supplémentaires.

Étiquettes de remplacement, n° cat. H8024

Remarqué : Le texte anglais est rouge sur un support transparent. Le texte français et espagnol est blanc sur un support noir.

Colocación de advertencias de seguridad en operación

Se requiere que el juego de etiquetas de instrucciones de seguridad que se incluyeron con la chimenea se coloque en los puntos de operación y control de la misma. Se debe colocar una etiqueta de instrucciones de seguridad en la placa del interruptor de pared del receptor desde el cual se enciende y se apaga la chimenea (***Figure A***) y en el transmisor de control remoto (***Figure B***). Para completar correctamente la instalación de esta chimenea, encuentre las etiquetas adhesivas multilingües incluidas con las instrucciones de cuidado y operación y haga lo siguiente:

1. Identifique el receptor de pared que controla la chimenea (verifique que el interruptor opera la chimenea encendiéndola y apagándola). Limpie bien la placa del receptor de pared para quitar el polvo y aceite. Pegue la etiqueta en la superficie de la placa del receptor de pared que controla la chimenea (***Figura A***). Seleccione el idioma que más se habla en la casa. Si no sabe cuál es, use la etiqueta en inglés.
2. Identifique el transmisor de control remoto y límpielo bien para quitar el polvo y aceite. Pegue la etiqueta en la superficie del transmisor (***Figura B***). Seleccione el idioma que más se habla en la casa. Si no sabe cuál es, use la etiqueta en inglés.
3. Si no puede encontrar las etiquetas, sírvase llamar a Innovative Hearth Products o al distribuidor de Innovative Hearth Products más cercano para recibir etiquetas de instrucciones de seguridad adicionales gratuitas.

Juego de etiquetas de repuesto - Nº de cat. H8024

Nota: La etiqueta en inglés es transparente con texto rojo. Las etiquetas en francés y español son negras con texto blanco.

SAFETY LABEL DIAGRAMS

DIAGRAMMES DES ÉTIQUETTES DE SÉCURITÉ

DIAGRAMAS DE ETIQUETAS DE SEGURIDAD

Innovative Hearth Products

Illustrations are for example only. Your accessories may be different.

Les illustrations sont par exemple uniquement. Vos accessoires peuvent être différents.

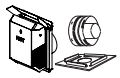
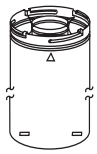
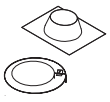
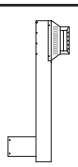
Las ilustraciones son sólo ejemplos. Tu accesorios pueden ser diferentes.

Figure A
Figura A

Figure B
Figura B

INSTALLATION ACCESSORIES

Table 24: Listed Secure Vent™ Components

	Catalog Number	Models	Description
	H1968	SV4.5HT-2	Horizontal square termination with firestop / spacer (H2246) and adaptor (74L61)
	77L70	SV4.5L6	6" (152 mm)
	77L71	SV4.5L12	12" (305 mm)
	77L72	SV4.5L24	24" (610 mm)
	77L73	SV4.5L36	36" (914 mm)
	77L74	SV4.5L48	48" (1219 mm)
	77L75	SV4.5LA	Telescopic length slip section (2–7 1/2", rigid)
	77L76	SV4.5E45	45° Elbow
	77L77	SV4.5E90	90° Elbow
	77L78	SV4.5F	Flat roof flashing *
	77L79	SV4.5FA	1/12–7/12 Adjustable flashing *
	77L80	SV4.5FB	7/12–12/12 Adjustable flashing *
	77L81	SV4.5SC6	Storm collar (6/box) *
	H6183	SV4.5HF5	Firestop spacer, 5", rigid *
	H6184	SF4.5HF5	Firestop spacer, 5", flex *
	H2246	SV4.5HF-10	Firestop/spacer—Horizontal, rigid (3-1-1 spacing), 10 Pack *
	H2247	SV4.5VF-10	Firestop/spacer—vertical, rigid (1-1-1 spacing), 10 Pack *
	96K92	SV4.5SP	Support plate *
	17M52	SV4.5HGS-1	Termination guard, square (1 pack)
	17M53	SV4.5HGS-12	Termination guard, horizontal square (12 pack)
	87L02	SV4.5HGS	Termination guard for horizontal square termination (deluxe) (1 pack)
	H5820	SV4.5HTSK	Termination guard for horizontal square termination (1 pack)
	H5816	SV4.5-TWSK10	Through wall shield kit (used to shield the direct-vent pipe from blown insulation)
	H3907	SV4.5ARSA	Attic insulation shield w/ adjustable height, 12–22"
	96K93	SV4.5SU	Support strap
	10K81	SFMP	Mill-Pac, black, high temperature sealant
	H8914	SV4.5TK90HT2	Horizontal Termination Kit with SV4.5 90° elbow
	H8915	SV4.5TK90SS	

*** Flashing comes packaged with a storm collar.**

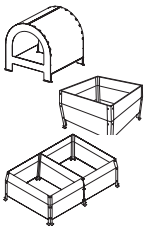
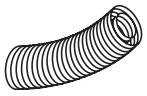
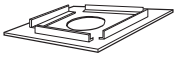
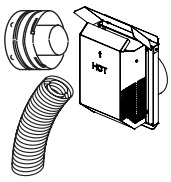
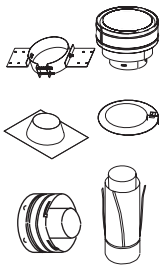
	Catalog Number	Models	Description
	H1988	CTSA-33	Chase top shroud kit, arch top, 3 x 3 ft
	H1985	CTSO-33	Chase top shroud kit, open top, 3 x 3 ft
	H1987	CTSO-44	Chase top shroud kit, open top, 4 x 4 ft
	H1986	CTSO-46	Chase top shroud kit, open top, 4 x 6 ft

Table 25: Listed Secure Flex™ Components

	60L10	SF-18	18 ft (5.49 m)* compressed flex
	98K03	SF-12	12 ft (3.66 m)* compressed flex
	H2248	SF4.5HF-10	Firestop/spacer—horizontal, flex (3-1-1 spacing), 10 pk
	H2249	SF4.5VF-10	Firestop/Spacer—vertical, flex (1-1-1 spacing), 10 pk
 Horizontal square termination for flex	H1969	SF4.5HT-2	without flex
	77L87	SFKIT12S	with 12" (305 mm)* compressed flex
	77L88	SFKIT18S	with 18" (457 mm)* compressed flex
	77L89	SFKIT24S	with 24" (610 mm)* compressed flex
	77L90	SFKIT36S	with 36" (914 mm)* compressed flex
	77L91	SFKIT48S	with 48" (1219 mm)* compressed flex
	56L74	SFVT30	Vertical termination for flex, flat–6/12 with flex adaptor, section of rigid vent, roof support collar assembly, roof flashing and storm collar
	56L75	SFVT45	Vertical termination for flex 6/12–12/12 with flex adaptor, section of rigid vent, roof support collar assembly, roof flashing and storm collar
	91L66	SFGC4-6	Gear clamp 4 1/2" (114 mm) for flex (6 pk)
	91L67	SFGC7-6	Gear clamp 7 1/2" (191 mm) for flex (6 pk)
	H7748	H7748	36" Flex connector kit, 36" of flex with two adapters for mating two rigid sections of vent together

GAS CONVERSION KITS

⚠ WARNING

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion, or the production of carbon monoxide may result; causing property damage, personal injury, or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.The qualified service agency performing this installation assumes responsibility for this conversion.

⚠ AVERTISSEMENT

Cette trousse de conversion doit être installée par un technicien agréé, selon les instructions du fabricant et selon toutes les exigences et tous les codes pertinents de l'autorité compétente. Assurez-vous de bien suivre les instructions dans cette notice pour réduire au minimum le risque d'incendie, d'explosion ou la production de monoxyde de carbone pouvant causer des dommages matériels, des blessures ou la mort. Le tecnicien agréé est responsable de l'installation de cette trousse. L'installation n'est pas adéquate ni complète tant que le bon fonctionnement de l'appareil converti n'a pas été vérifié selon les instructions du fabricant fournies avec la trousse. Le fournisseur de service qualifié ayant réalisé l'installation assume les responsabilités liées à la conversion.

In Canada:

The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the CAN/CGA-B149.1 Installation code.

La conversion devra être effectuée conformément aux recommandations des autorités provinciales ayant juridiction et conformément aux exigences du code d'installation CAN/CGA-B149.1.

Gas conversion kits are available to adapt your fireplace from the use of one type of gas to the use of another. These kits contain all the necessary components needed to complete the task including labeling that must be affixed to ensure safe operation.

Refer to the instructions provided with the conversion kit when performing any gas conversion.

Table 26: Traditional Fireplaces—Natural Gas to Propane Conversion Kits

Models	Catalog Number
35" Contemporary/Traditional	H8754
40" Contemporary/Traditional	H8722
45" Contemporary/Traditional	H8757

Table 27: Traditional Fireplaces—Propane to Natural Gas Conversion Kits

Models	Catalog Number
35" Contemporary/Traditional	H8755
40" Contemporary/Traditional	H8756
45" Contemporary/Traditional	H8758

Table 28: Contemporary Fireplaces—Natural Gas to Propane Conversion Kits

Models	Catalog Number
35" Contemporary/Traditional	H8759
40" Contemporary/Traditional	H8760
45" Contemporary/Traditional	H8761

Installing Gas Conversion Kits

⚠ WARNING

The gas supply shall be shut OFF prior to disconnecting the electrical power, before proceeding with the conversion.

⚠ AVERTISSEMENT

Avant d'effecteur la conversion, coupez d'abord l'alimentation en gaz, ensuite, coupez l'alimentation electrique.

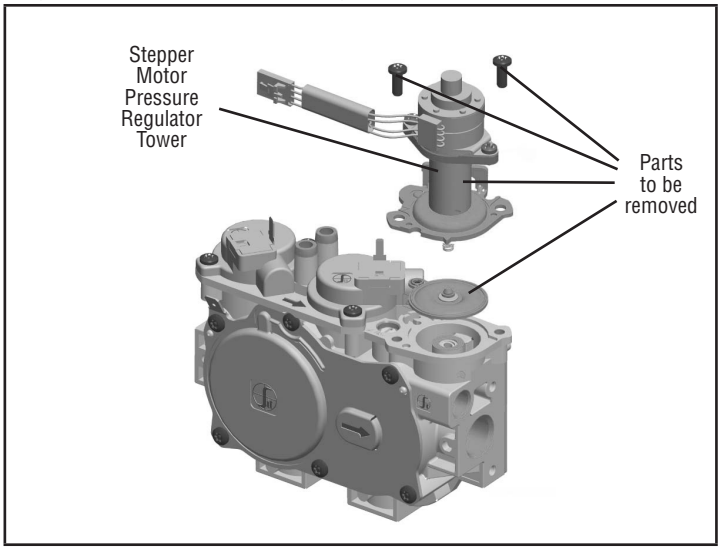
1. TURN OFF THE GAS SUPPLY TO THE FIREPLACE and disconnect power supply at the circuit breaker. Ensure fireplace is cold.
2. Open the lower control compartment door (**Page 50**).
3. Remove the front glass door/frame from the fireplace (**Page 56**).
4. Remove the logs / glass media. If necessary, remove the log grate.

   NOTE: Exercise care so as not to break the logs (**Page 59**).
5. Remove the sub floor.
6. Remove the two (2) screws securing the burner assembly. Remove the burner assembly with the attached venturi tube.

Electronic Ignition System Fireplaces

7. Refer to the instructions provided with the SIT Regulator Conversion Kit, and ***Figure 43***. Using a Torx T20 driver (with 1/4" shank) or slotted screwdriver, remove and discard the pressure regulator mounting screws (two screws for electronic models, three screws for millivolt models), pressure regulator tower, the diaphragm assembly (if applicable) and the spring. Discard all removed components.

Figure 43: ElectronicValve Regulator



8. Install the new pressure regulator assembly using the supplied screws. Tighten the screws to 25 in. lbs.
9. Install the enclosed identification label to the valve body where it can be easily seen.
10. Remove the pilot hood assembly to access the hex pilot orifice. Remove and replace the pilot orifice with the one provided with the kit. Exercise extreme care to prevent damage to or breakage of the igniter assembly.
11. Remove the burner orifice from the manifold and replace it with the one provided in the kit (***Figure 44***).

    NOTE: See ***Table 4*** for burner orifice sizes.

Figure 44: Pilot

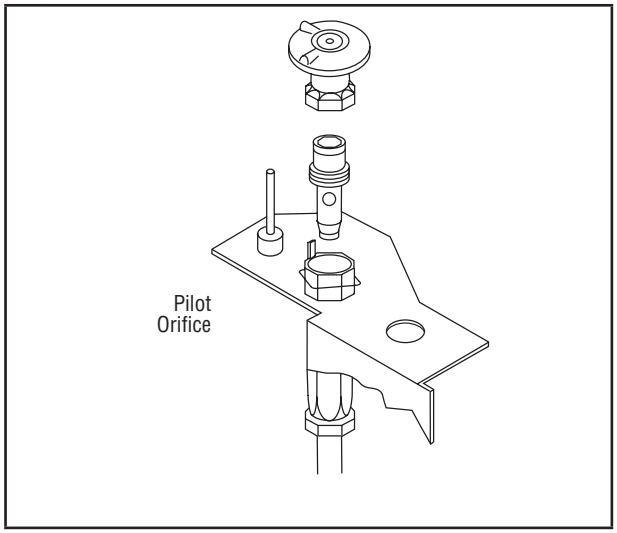
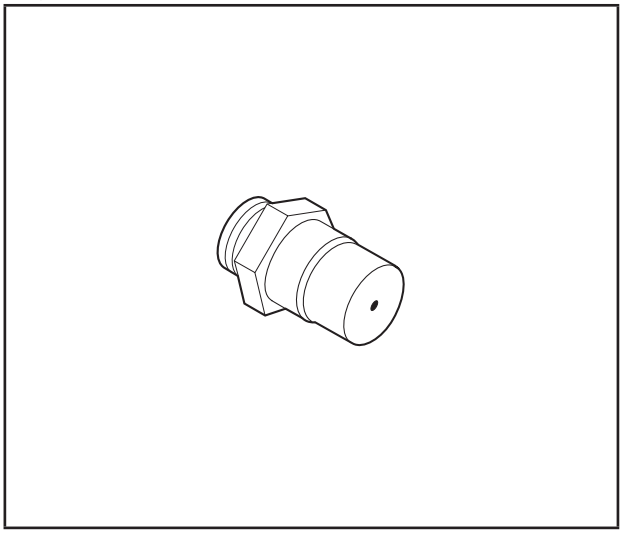


Figure 45: Orifice



12. Use pipe joint compound or Teflon® tape on all pipe fittings before installing.

NOTE: Ensure propane resistant compounds are used in propane applications, do not use pipe joint compounds on flare fittings.

13. Retrieve the burner and hold the venturi tube above the orifice. Place the shutter adjusting rod in the slot of the shutter arm (***Figure 35***). Set the burner assembly into its position and secure the trapezoidal plate with the two screws previously removed.

14. Reinstall the baffle with the two baffle securing screws.

15. Reassemble the remaining components.

16. Turn on gas supply and test for gas leaks (**Page 39**).

17. Relight the main burner. The lighting instructions can be found on the lighting label in the control compartment or **Page 63**. Verify proper burner ignition and operation (**Page 39**).

18. Inspect the pilot system for proper flame. The pilot flame should engulf the flame sensor (***Figure 34***).

19. Using a manometer, test the inlet and manifold gas pressures (***Table 2*** and ***Table 3***).

NOTE: Always test pressures with the valve regulator control at the highest setting.

OPERATION

⚠ WARNING

Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.

⚠ AVERTISSEMENT

Les jeunes enfants devraient être surveillés étroitement lorsqu'ils se trouvent dans la même pièce que l'appareil. Les tout petits, les jeunes enfants ou les adultes peuvent subir des brûlures s'ils viennent en contact avec la surface chaude. Il est recommandé d'installer une barrière physique si des personnes à risques habitent la maison. Pour empêcher l'accès à un foyer ou à un poêle, installez une barrière de sécurité; cette mesure empêchera les tout petits, les jeunes enfants et toute autre personne à risque d'avoir accès à la pièce et aux surfaces chaudes.

⚠ WARNING

Reinstall any barrier removed before operating the fireplace. The barrier is designed to reduce the risk of burns from hot glass. Do not operate the fireplace without the barrier installed.

⚠ WARNING

Do not operate the fireplace if:

- **The glass front is removed, cracked, or broken**
- **The surround trim assembly and screen are not installed**

CARBON MONOXIDE POISONING: Early signs of carbon monoxide poisoning are similar to the flu with headaches, dizziness and/or nausea. If you have these signs, obtain fresh air immediately. Turn off the gas supply to the appliance and have it serviced by a qualified professional, as it may not be operating correctly. Some people are more affected by carbon monoxide than others, including pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

NOTE: Do not place furniture or other combustible materials within 36" of the front of viewing area(s).

NOTE: Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.

Remarqué : Les enfants et les adultes devraient être infor-més des dangers que posent les températures de surface élevées et se tenir à distance afin d'éviter des brûlures ou que leurs vêtements ne s'enflamment.

NOTE: Installation and repair should be done by a qualified service person. The fireplace should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etcetera. It is imperative that control compartments, burners and circulating air passageways of the fireplace be kept clean.

Remarqué : L'installation et la réparation devrait être confiées à un technicien qualifié. L'appareil devrait faire l'objet d'une inspection par un technicien professionnel avant d'être utilisé et au moins une fois l'an par la suite. Des nettoyages plus fréquents peuvent être nécessaires si les tapis, la literie, et cetera produisent une quantité importante de pous-sière. Il est essentiel que les compartiments abritant les commandes, les brûleurs et les conduits de circulation d'air de l'appareil soient tenus propres.

NOTE: Do not use these fireplaces if any part has been under water. Immediately call a qualified, professional service technician to inspect the fireplace and to replace any parts of the control system and any gas control which have been under water.

Remarqué : Ne pas utiliser cet appareil s'il a été plongé, même partiellement, dans l'eau. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de commande et toute commande qui a été plongée dans l'eau.

ATTACH THE SAFETY-IN-OPERATION WARNINGS

NOTE: It is the installer's responsibility to ensure these warnings are properly affixed during installation. These warning labels are a critical step in informing consumers of safe operation of this appliance.

Attaching Safety-in-Operation Warnings

It is required that the set of safety instruction labels that have been furnished with the fireplace be affixed to the operation and control points of the fireplace. A safety instruction label must be affixed to the wall switch plate where the fireplace is turned on and off (***Figure A***) and on the remote control handheld transmitter (***Figure B***). To properly complete the installation of this fireplace, locate the multi-lingual adhesive labels provided with the Care and Operation Instructions and proceed as follows:

1. Locate the wall switch that controls the fireplace (verify the switch operates the fireplace by turning it on and off). Clean the wall switch plate thoroughly to remove any dust and oils. Affix the label to the surface of the plate of the wall switch that controls the fireplace (***Figure A***). Choose the language primarily spoken in the home. If unknown, affix the English language label.
2. Locate the remote control transmitter and clean it thoroughly to remove any dust and oils. Affix the label to the surface of handheld transmitter (***Figure B***). Choose the language primarily spoken in the home. If unknown, affix the English language label.
3. If you are unable to locate the labels, please call Innovative Hearth Products or your nearest Innovative Hearth Products dealer to receive additional safety instruction labels free of charge.

Cat. No. H8024 Replacement Label Kit

NOTE: English is red text on clear label. French and Spanish are white text on black label.

Apposition des mises en garde relatives à la sécurité d'utilisation

Il est impératif que le jeu d'étiquettes de sécurité qui ont été fournies avec le foyer soient collées à côté des dispositifs de contrôle du foyer. Une étiquette de sécurité doit être collée sur la plaque du récepteur mural contrôlant l'allumage du foyer (***Figure A***) et sur le boîtier de la télécommande (***Figure B***). Pour achever l'installation correcte de ce foyer, procédez comme suit avec les étiquettes adhésives en langues étrangères fournies avec les instructions d'utilisation et d'entretien :

1. Repérez le récepteur mural qui contrôle le foyer (vérifiez que l'interrupteur contrôle le fonction-nement du foyer en le faisant basculer de Marche à Arrêt, et vice-versa). Nettoyez soigneusement la plaque du récepteur mural pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur la surface de la plaque du récepteur mural qui contrôle le foyer (***Figure A***). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire. En cas de doute, collez l'étiquette en anglais.
2. Repérez la télécommande et nettoyez-la soigneusement pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur le boîtier de la télécommande (***Figure B***). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire. En cas de doute, collez l'étiquette en anglais.
3. Si vous ne trouvez pas les étiquettes, veuillez appeler Innovative Hearth Products ou votre distributeur Innovative Hearth Products local pour recevoir gratuitement des étiquettes supplémentaires.

Étiquettes de remplacement, n° cat. H8024

Remarqué : Le texte anglais est rouge sur un support transparent. Le texte français et espagnol est blanc sur un support noir.

Colocación de advertencias de seguridad en operación

Se requiere que el juego de etiquetas de instrucciones de seguridad que se incluyeron con la chimenea se coloque en los puntos de operación y control de la misma. Se debe colocar una etiqueta de instrucciones de seguridad en la placa del interruptor de pared del receptor desde el cual se enciende y se apaga la chimenea (***Figura A***) y en el transmisor de control remoto (***Figura B***). Para completar correctamente la instalación de esta chimenea, encuentre las etiquetas adhesivas multilingües incluidas con las instrucciones de cuidado y operación y haga lo siguiente:

1. Identifique el receptor de pared que controla la chimenea (verifique que el interruptor opera la chimenea encendiéndola y apagándola). Limpie bien la placa del receptor de pared para quitar el polvo y aceite. Pegue la etiqueta en la superficie de la placa del receptor de pared que controla la chimenea (***Figura A***). Seleccione el idioma que más se habla en la casa. Si no sabe cuál es, use la etiqueta en inglés.
2. Identifique el transmisor de control remoto y límpielo bien para quitar el polvo y aceite. Pegue la etiqueta en la superficie del transmisor (***Figura B***). Seleccione el idioma que más se habla en la casa. Si no sabe cuál es, use la etiqueta en inglés.
3. Si no puede encontrar las etiquetas, sírvase llamar a Innovative Hearth Products o al distribuidor de Innovative Hearth Products más cercano para recibir etiquetas de instrucciones de seguridad adicionales gratuitas.

Juego de etiquetas de repuesto - Nº de cat. H8024

Nota: La etiqueta en inglés es transparente con texto rojo. Las etiquetas en francés y español son negras con texto blanco.

SAFETY LABEL DIAGRAMS

DIAGRAMMES DES ÉTIQUETTES DE SÉCURITÉ

DIAGRAMAS DE ETIQUETAS DE SEGURIDAD

Innovative Hearth Products

Illustrations are for example only. Your accessories may be different.

Les illustrations sont par exemple uniquement. Vos accessoires peuvent être différents.

Las ilustraciones son sólo ejemplos. Tu accesorios pueden ser diferentes.

Figure A
Figura A

Figure B
Figura B

Burn-in Period

The first few times this fireplace is operated, there will be an odor from the curing of paint and the burning off of the lubricants used in the manufacturing process. Depending on usage, the burn-in period may take a few hours or a few days.

NOTE: Ventilate the site during the burn-in period. The resulting odor and haze may set off a smoke detector. Do not operate the blower during the burn-in period.

A white film may develop on the glass front during the first few fires as part of the burn-in period. The glass should be kept clean during the burn-in period to prevent the film from baking on—making it very difficult to remove (**Cleaning the glass door on Page 59**).

Accessing the Control Compartment

Access the control compartment (***Figure 45***) by removing the surround trim assembly.

Figure 46: Control Compartment

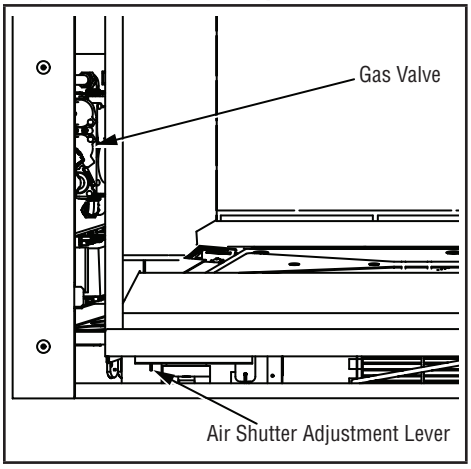


Figure 47: Finish Trim Gap Fillers

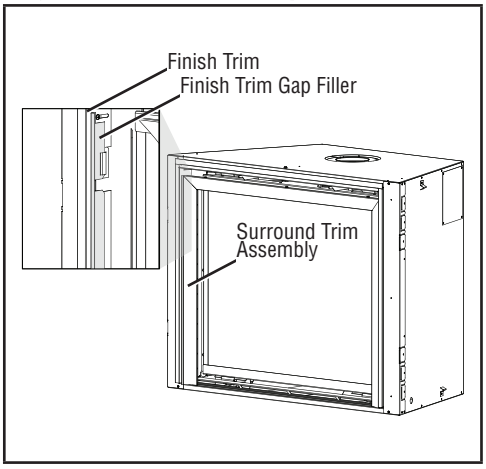
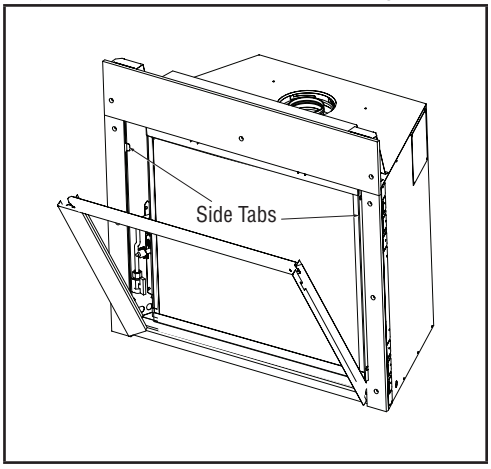


Figure 48: Surround Trim Assembly



Removing the surround trim assembly

1. Remove the top louver.
2. Remove the left finish trim gap filler from between the finish trim and the surround trim assembly (***Figure 46***). Remove the right finish trim gap filler. Retain the finish trim gap fillers for later reinstallation.
3. Detach the surround trim assembly at the top of the fireplace and lift it 1 in. to disengage the side tabs (***Figure 47***).
4. Pull the surround trim assembly away from the fireplace exposing the front glass door.
5. Place the surround trim assembly in a secure location to prevent damage to it until it is reinstalled.

Gas Controls

The standard controls for fireplace operation are located in the control compartment (***Figure 32***).

Familiarize yourself with the gas control valve and the lighting procedure (**Page 63**).

If the electronic fireplace is equipped with an optional remote wall switch or remote control, the fireplace main burner can be turned ON/OFF with the wall switch or remote control.

If the electronic fireplace is not equipped with a wall switch or remote control, the main burner must be turned ON/OFF with a gas control switch installed separately. Contact the installer for more information. Check the batteries, if installed, at least every three (3) months to ensure they are properly charged.

To light the fireplace in a power outage:

1. Confirm that batteries are installed in the battery pack.
2. Set the unit-mounted switch, or wall switch to the ON Position.
3. The unit should spark at the pilot and light.

   NOTE: If there is no spark, replace the batteries.
4. Operate the fireplace normally.

NOTE: Install new batteries (4 **AA**) in the battery holder before the burn season. Then, the fireplace can automatically switch to battery power in the event of a power outage.

Remote Control System

⚠ WARNING

Fire hazard. Can cause severe injury or death. The receiver causes ignition of the appliance. The appliance can turn on suddenly. Keep away from the appliance burner when operating the remote system or activating manual bypass of the remote system.

⚠ CAUTION

Property damage hazard. Excessive heat can cause property damage. The appliance can stay lit for many hours. Turn off the appliance if it is not going to be attended for any length of time. Always place the transmitter where children can not reach it.

The remote and receiver allow you to command the functions of your fireplace from the comfort of you chair and are configured to control the ON/OFF primary burner operation, six (6) flame levels, and provide ON/OFF and smart thermostatic control. The system controls fan speed through six (6) levels and has a constantly powered 110V/60Hz power outlet. The receiver is powered by four (4) AA batteries. It accepts commands via radio frequency from the transmitter and does not require line-of-sight operation. The wall switch can be set to one of three (3) positions:

- ON (Manual Override)
- REMOTE (Remote Control)
- OFF

Initializing the remote control system for the first time

1. Install the four (4) AA batteries into the wall switch battery bay (behind the switch plate).

   NOTE: Check the polarity (+/-) of the batteries and insert them into the battery bay as indicated on the battery cover.

2. Place the three-position slider switch in the REMOTE position (***Figure 48***).

Figure 49: Wall Switch

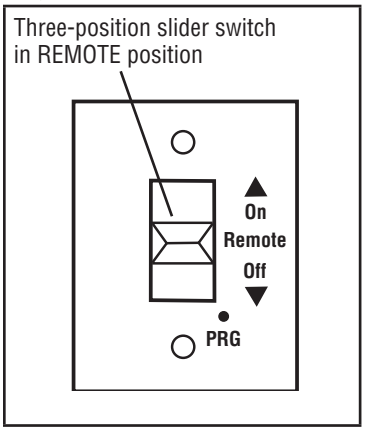


Figure 50: Transmitter (Remote Control)

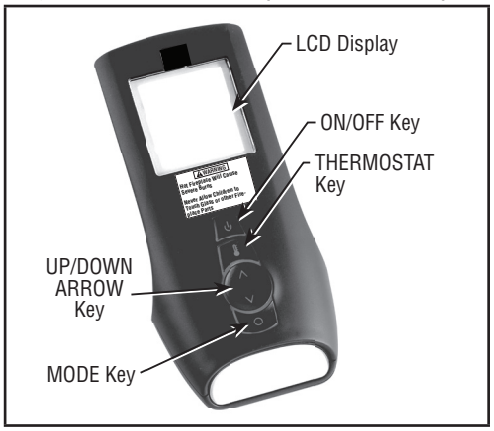
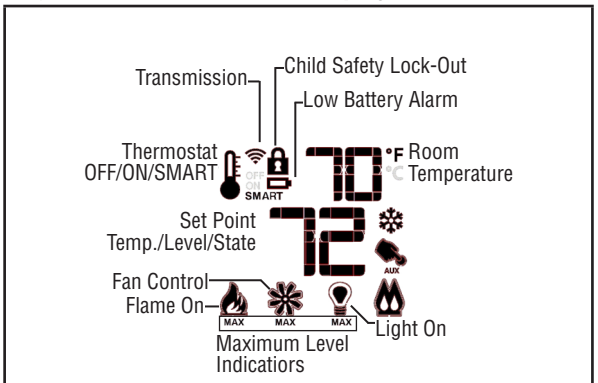


Figure 51: Remote Control Display—Indicator Icons



3. Insert the end of a paper clip, or other similar object, into the hole marked PRG on the wall switch front cover. The receiver will beep three (3) times to indicate that it is ready to synchronize with a transmitter.
4. Install the three (3) AAA batteries in the transmitter battery bay, located on the base of the transmitter.
5. Push the ON button. The receiver will beep four (4) times to indicate that the transmitter's command has been accepted and sets it to the particular code of that transmitter. The system is now initialized.

Temperature indicator display

1. With the system in the OFF position, press the THERMOSTAT key and the MODE key at the same time (***Figure 49***).
2. Look at the LCD screen on the transmitter to verify that a C or F is visible to the right of the room temperature display (***Figure 50***).

Turn ON the appliance

1. Press the ON/OFF key on the transmitter.
2. The transmitter display will show all active Icons on the screen. At the same time, the receiver will connect the thermopile to the gas valve millivolt coil and the appliance main burner will turn on. A single beep from the receiver will confirm reception of the command.

Turn OFF the appliance

1. Press the ON/OFF key on the transmitter.
2. The transmitter LCD display will only show the room temperature and icon. The receiver will disconnect the gas valve and the appliance burner will turn OFF. A single beep from the receiver will confirm reception of the command.

Remote flame control

The system has six (6) flame levels. With the system ON, and the flame level at the maximum in the appliance, each press of the DOWN ARROW key will reduce the flame height by one step until the flame is turned OFF.

The UP ARROW key will increase the flame height each time it is pressed. If the UP ARROW key is pressed while the system is ON but the flame is OFF, the flame will come ON in the high position. A single beep will confirm reception of the command.

Room thermostat—transmitter operation

The remote control can operate as a room thermostat.

1. Press the THERMOSTAT key.
2. The LCD display on the transmitter will change to show that the room temperature is ON and the set temperature will be displayed.
3. To adjust the set temperature, press the UP or DOWN ARROW keys until the desired set temperature is displayed on the LCD screen of the transmitter.

Smart thermostat—transmitter operation

The smart thermostat function adjusts the flame height in accordance to the difference between the set point temperature and the actual room temperature. As the room temperature gets closer to the set point, the smart function will modulate the flame down.

1. Press the THERMOSTAT key until the word SMART appears to the right of the temperature bulb graphic.
2. To adjust the set temperature, press the UP or DOWN ARROW keys until the desired temperature is displayed on the LCD screen of the transmitter.

Fan speed control

This appliance is equipped with a hot air circulating fan. The speed of the fan is controlled by the remote, and can be adjusted through six (6) speeds.

1. Press the MODE key to index to the fan control icon.
2. Press the UP/DOWN ARROW keys to turn ON, OFF, or adjust the fan speed. A single beep will confirm reception of the command.

   NOTE: The fan can be controlled only by the remote. Turning the fireplace OFF with the wall-mounted, three-position slider switch will not turn OFF the fan. To turn OFF the fan, use the remote instead of or prior to shuting OFF the fireplace at the wall. Fan speed will be indicated by either an OFF, Level Bar, or HI shown in the Set Point/Temp/Level/State indicator area.

Key lock

This function will lock the keys to avoid unsupervised operation.

1. Press the MODE and UP keys at the same time.
2. To deactivate this function, press the MODE and UP keys at the same time.

Intermittent/standing pilot mode

This fireplace can be switched from intermittent ignition to a standing pilot simply by toggling the switch located in the lower control compartment (***Figure 45***). To save energy, switch to intermittent mode. To have a standing pilot that will help startup in the winter by warming the flue and the glass, switch to standing pilot.

The standing pilot mode is indicated by a pilot that comes ON and remains lit when the fireplace is OFF.

Manual bypass of the remote control system

If the batteries of the wall switch or transmitter are low or depleted, the appliance can be turned on manually.

1. Set the three-position slider switch to the ON position.
2. This will bypass the remote control feature of the system and the appliance main burner will come on if the gas valve is in the ON position.

Low Battery Power Detection

The life span of the wall switch batteries depends on several factors:

- the quality of the batteries used,
- the number of appliance ignitions,
- the number of changes to the thermostat set point, etc..

If the wall switch batteries are low, the reciever will emit two beeps when it receives an ON/OFF command from the transmitter. This is an alert for a low battery condition. When the batteries are replaced, the receiver will emit a the beep when the ON/OFF key is pressed (**Initializing the remote control system for the first time**).

Installing the Firebox Liners

Ceramic Firebox Liners

1. Remove the four (4) firebox liner panels from the packing materials.
2. Carefully position the rear panel, upper edge first, in the firebox against the rear wall.
3. While holding the rear panel, carefully position the left side panel in the firebox.
4. While holding the left panel, carefully position the top panel, left edge up to a resting position on the upper edge of the left panel.
5. Raise the right end of the top panel, and hold it in position while installing the right panel in the following step.
6. Carefully position the right side panel in the firebox.
7. Lower the top panel onto the upper edge of the right side panel.

   NOTE: Do not force the top panel into place. Excessive force may cause breakage. If the top panel is correctly positioned, it will fit snugly in place.
8. Ensure the top panel is positioned over both the left side and right side panels and that all panels are aligned with the sides and rear of the firebox.

Porcelain Firebox Liners

1. Remove the four (4) firebox liner panels from the packing materials.
2. Locate the rear, left, and right panels.
3. Position the rear panel, upper edge first, in the firebox against the rear wall. Insert the lower mounting tabs into the mounting slots in the firebox base. Secure the panel to the rear wall with a 5/16” screw through the upper mounting tab.
4. Position the left panel in the firebox against the left wall and the rear panel.
5. Position the top panel, left edge up, so that it rests on the upper edge of the left panel.
6. Raise the right edge of the top panel, and hold it against the firebox ceiling when installing the right panel in the following step.
7. Position the right panel in the firebox against the right wall and the rear panel.
8. Lower the top panel onto the upper edge of the right panel, and slide it under the two tabs on the left and right panels.
9. Ensure the top panel is positioned over both the left side and right side panels and that all panels are aligned with the sides and rear of the firebox.
10. Use an ammonia-free glass cleaner and a soft, non-abrasive cloth to remove fingerprints and smudges from the porcelain firebox liner panels.

Installing the Glass Media

1. Install the glass media in the recessed area between the front and rear floors.

   NOTE: 35” fireplaces require less than a full bag of glass media. 40” fireplaces require an entire bag of media. 45” fireplaces require an extra bag of media (sold separately).
2. Spread the glass media in a thin layer, evenly over the burner and pilot.

   NOTE: Do NOT mound the media.

Installing the logs

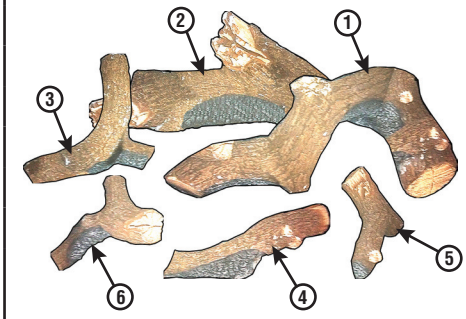
⚠ WARNING

- **Turn OFF all gas and electricity to the appliance before installing the logs.**
- **Do NOT install the logs until the appliance has been competely installed, the gas line connected and tested for leaks, and the initial burner operation has been confirmed.**
- **Use of an unapproved log set in the fireplace will void the warranty and will result in incomplete combustion, sooting, and poor flame quality.**
- **Logs get very hot and remain hot for up to one hour after the gas supply is turned OFF. Handle the logs only when cool.**
- **This appliance is not designed to burn wood. Any attempt to do so could cause irreparable damage to appliance and prove hazardous.**
- **If the logs are not installed according to these instructions, improper combustion could occur. This could result in the excessive production of soot and/or the colorless, odorless, toxic gas carbon monoxide (CO).**

NOTE: Turn off all electricity to the appliance before installing logs.

NOTE: The log set and fire are artistically arranged to provide an asymmetrical fire. The fire does not burn in the left rear quarter of the log set.

Table 29: Envy Log Sets



Log Number	Description
1	Bottom Right Log
2	Rear Log
3	Bottom Left Log
4	Front Log
5	Top Right Log
6	Top Left Log

Catalog number for the entire set:
35” H8707
40” H8708
45” H8824

Table 29 is representative of all fireplace models. Logs 5 and 6 may vary in appearance from those shown above.

NOTE: The logs have notches/tabs to assist proper positioning. Upper logs rest on lower logs via notches/tabs. Proper log placement is critical to prevent sooting. Place the logs in the gaps between flame peaks, so they do not impinge the flames. Follow the log placement instructions precisely.

NOTE: Do not cover the burner ports.

1. If necessary, remove the glass door (**Page 56**).
2. Place Log 1 on the burner as shown (***Figure 51***).

Figure 52: Placing Log 1

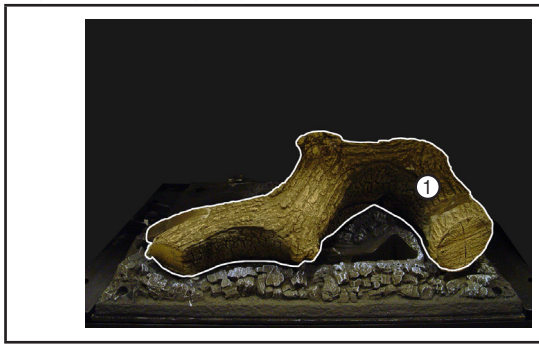


Figure 53: Placing Log 2

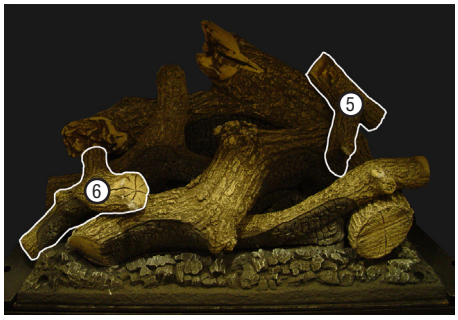
3. Align the two holes in the bottom of Log 2 over the two tabs at the rear of the burner and lean against Log 1 (***Figure 52***).
4. Place Log 3 in position with the base aligned in the burner surface (***Figure 53***).

Figure 54: Placing Log 3

Figure 55: Placing Log 4

5. Insert the left end of Log 4 under Log 1 and position the right end of Log 4 in the notch on the top, right end of Log 1 (***Figure 54***).
6. Ensure all logs are properly positioned on the surface of the burner and interlocked with each other (***Figure 54***).
7. Place Log 5 in position in the notches on the upper right portions of Logs 1 and 2 (***Figure 55***).

Figure 56: Placing Logs 5 and 6



8. Place Log 6 in position in the notches near the left ends of Logs 3 and 4 (***Figure 55***).

Installing and removing the glass door

⚠ WARNING

- **Do not attempt to substitute the materials used on these doors, or replace cracked or broken glass.**
- **Handle this glass with extreme care! Glass is susceptible to damage—Do not scratch or handle roughly while reinstalling the glass door frame.**
- **The glass door of this appliance must only be replaced as a complete unit as provided by the manufacturer. Do not attempt to replace broken, cracked or chipped glass separately.**
- **Do not attempt to touch the front enclosure glass with your hands while the fireplace is in use.**

⚠ WARNING

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.

⚠ AVERTISSEMENT

Une barrière conçue pour réduire le risque de brûlure par le hublot chaude est fournie avec l'appareil et doit être installé.

⚠ WARNING

Do not operate appliance with the glass front removed, cracked, or broken.

⚠ AVERTISSEMENT

Ne pas utiliser l'appareil si le panneau frontal en verre n'est pas en place, est craqué, ou brisé.

⚠ WARNING

Any safety screen or guard removed for servicing the appliance must be replaced prior to operating the appliance.

⚠ AVERTISSEMENT

Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.

Only doors certified with the fireplace shall be used.

Seules des portes certifiées pour cet appareil doivent être utilisées.

CAUTION

Do NOT abuse the glass door by striking it or slamming it shut.

Installing the glass door

1. Visually inspect the gasket on the backside of the glass door.

   NOTE: The gasket surface must be clean, free of irregularities, and seated firmly. Ensure it is properly located. Make sure the bead is not rolled into the channel at the top of the door, but remains flat against the top of the glass.

2. Locate the four (4) spring-loaded latches; two above and two below the fireplace opening (***Figure 56***).

Figure 57: Glass Door

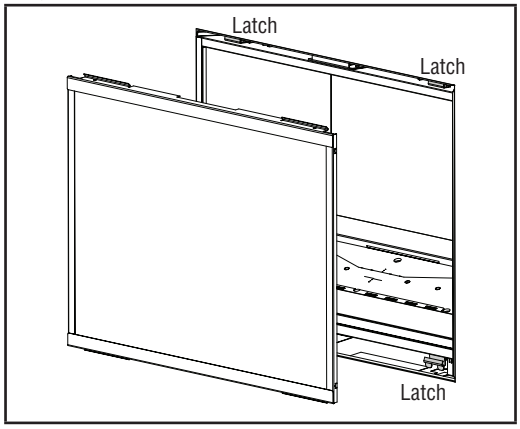
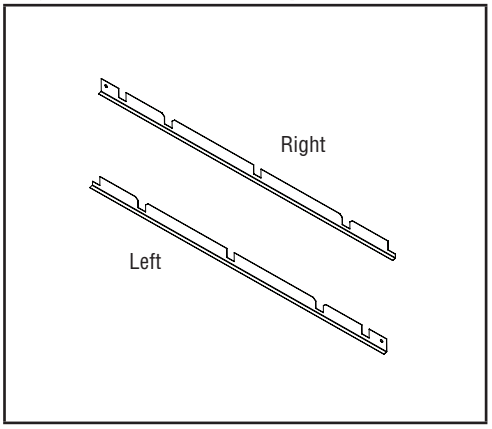


Figure 58: Finish Trim Gap Fillers



3. Carefully grip the door at the top and bottom, and align it with the fireplace opening. Lightly press against the door, to hold it in position.

   NOTE: Ensure the glass door is centered—with even spacing on each side.

4. Secure the two upper latches by pulling each handle down and pressing in to hook it to the glass door.
5. Secure the two lower latches.
6. Install the surround trim assembly by lowering it onto the appliance and pressing in to secure it (***Figure 7***).

Installing the Surround Trim Assembly

1. Identify the left and right side finish trim gap fillers (***Figure 57***).
2. Install the surround trim assembly by lowering it onto the appliance and pressing in to secure it.
3. Slide the left finish trim gap filler into the left gap between the finish trim and the surround trim assembly. Ensure the finish trim gap filler slides into the spring clip, as shown (***Figure 46***).
4. Slide the right finish trim gap filler into the right gap between the finish trim and the surround trim assembly. Ensure the finish trim gap filler slides into the spring clip, as shown (***Figure 46***).

Removing the glass door

1. Remove the top louver, then remove the surround trim assembly by detaching it at the top of the fireplace and lifting it 1” to disengage the side tabs, then pulling it away from the fireplace exposing the front glass door.
2. Locate the four (4) spring-loaded latches; two above and two below the enclosure (***Figure 56***).
3. Release the lower latches, by pulling each handle out and down to unhook it from the glass door.
4. Lightly press against the door, to hold it in position, while releasing the two upper latches.
5. Carefully grip the door at the top and bottom, and remove it from the fireplace.

   NOTE: When removing the glass door, place it in a safe location for later reinstallation.

MAINTENANCE

Refer to the **Maintenance Schedule** on **Page 61** for maintenance tasks, procedures, frequency, and a listing of by whom the tasks should be performed. Always verify proper fireplace operation after servicing.

⚠ WARNING

Turn OFF gas and electrical power to the fireplace and allow it to cool before cleaning or servicing the appliance.

⚠ CAUTION

Wear gloves and safety glasses for protection while doing required maintenance.

Verify proper operation after servicing.

S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.

Always turn OFF gas before cleaning. Before relighting, refer to the lighting instructions in this manual. Instructions are also found on a pull-out panel located in the control compartment.

Always keep the appliance area clear and free from combustible materials, gasoline and other flammable liquids.

Inspecting the venting system

The fireplace and venting system should be thoroughly inspected before initial use and at least annually by a qualified service technician. Inspection should include ensuring that exhaust or intake passages are unobstructed and vent components are properly assembled and not damaged.

The homeowner must contact a qualified service technician at once if any abnormal condition is observed.

If the venting system is disassembled for any reason, a qualified service technician should follow vent installation instructions for proper reassembly and proper sealing of the venting system components. However, more frequent periodic inspections and cleanings should be performed by the homeowner.

NOTE: Prior to the first use of the fireplace and each burn season and periodically during the burn season, inspect the horizontal termination for debris such as bird nests, leaves, paper or branches. Remove any items from the surfaces of the termination prior to use. Also be aware of shrubs and plantings that may encroach on the termination.

Inspecting the fireplace lamp

Use the remote control to confirm the fireplace lamp is operational. If the lightbulb is burned out, replace the lightbulb.

Replacing the fireplace lamp lightbulb

1. Remove the fireplace glass door.
2. Locate the lamp inside the top, front of the firebox.
3. Using a 5/16 in. nut driver, remove the two (2) outside screws securing the lamp glass cover bracket. Carefully, remove the metal bracket, lamp glass cover, and gasket. Retain all items with the screws in a secure location for later reinstallation.
4. Unscrew the lightbulb cap and retain in a secure location for later reinstallation. Unscrew the lightbulb and discard.
5. Install the new lightbulb.
6. Use only 25 W, 572 °F (300 °C) rated oven lightbulbs.
7. Reinstall the lightbulb cap.
8. Carefully, position the gasket, lamp glass cover, and metal bracket into place and secure using the two (2) screws previously removed.
9. Reinstall the glass door.

Inspecting the burner flame appearance

Periodically inspect the burner and pilot flame. Ensure that the burner flame appearance resembles the flame shown in ***Figure 36*** and ***Figure 37*** on **Page 41** and as described in **Flame Appearance and Sooting on Page 40**. Any necessary burner flame adjustments must be performed by qualified personnel only (**Page 39**). Refer to **Page 39** for more information about the pilot flame appearance. Contact a qualified service technician at once if any abnormal condition is observed.

Cleaning the glass door

CAUTION

Do not use abrasive cleaners on glass. Never clean the glass when it is hot.

Clean the glass during the **Burn-in Period**, and then only when necessary and when the fireplace is cool. Wipe the surface with a clean, dampened, soft cloth. Follow with a dry, soft towel as desired. Take care not to scratch the glass surface. Periodically, remove any build-up caused by the following:

- During start-up, it is normal for condensation to form on the inside of the glass (this condensation and fog will usually disappear in a few minutes). The moisture can cause lint, dust and other airborne particles to cling to the glass surface.
- Initial curing of the high temperature paint and burning off of lubricants used in the manufacturing process may result in a film on the glass.
- A white coating may form on the glass as a result of impurities and minerals in the fuel.

Clean the glass two or three times each heating season, depending on the circumstances present. The following cleaning solutions are approved for use:

- Non-ammonia based glass cleaner
- Gas fireplace/stove glass cleaner

Inspecting the glass gasket

Visually inspect the gasket on the backside of the glass door. The gasket surface must be clean, free of irregularities, and seated firmly.

Cleaning the control compartment

Keep the control compartment clean by vacuuming or brushing it out at least twice a year. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etcetera. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

Touching up paint in small areas

Only use a factory-supplied paint kit for any touch-ups. Paint is available at your local IHP dealer. Never attempt to paint a hot fireplace. Do not attempt to repaint the fireplace until the finish is completely cured (**Burn-in Period on Page 50**). If the surface becomes stained or marred, it may be lightly sanded and touched up.

Logs

Removing and cleaning the logs

CAUTION

The fiber logs become very fragile after curing.

Carefully remove the logs. Vacuum out any foreign matter on the burner (e.g., lint, carbon, etc.). Ensure the burner ports are free of debris. Remove any carbon deposits from the underside of the logs using a vacuum cleaner, or a soft bristle brush (e.g., paint brush).

Reinstalling the logs

Carefully follow the placement instructions (**Page 54**). All logs should fit onto the corresponding pins and/or log stoppers. This will ensure proper flame and safe combustion.

NOTE: Improper positioning of logs can create carbon build-up and will alter the performance of the fireplace.

Replacing the logs

If the logs become damaged and need replacement, use only the proper replacement logs from manufacturer (**Page 66**).

Inspecting the wiring

Refer to the wiring diagram (**Page 36**).

⚠ CAUTION

When servicing controls, label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

⚠ ATTENTION

Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux.

Inspect and clean all wire connections. Ensure that there is no wire melting or damage. The inspection should include:

- Terminals at the Valve
- OFF/ON Switch
- Remote Control, or Remote Wall Switch Kit

Glass Media

Removing and cleaning the glass media

⚠ CAUTION

Risk of personal injury. Allow the media to completely cool before handling.

Use a clean, dry, empty shop vac to remove glass media. Wash the media in warm, soapy water. Rinse and dry before reinstalling.

Reinstalling the glass media

Carefully follow the placement instructions (**Page 53**). This will ensure a proper flame and safe combustion.

NOTE: Improper positioning of media can create carbon build-up and will alter the performance of the fireplace.

Replacing the media

If the media needs replacement, use only the proper replacement media from manufacturer (**Page 66**).

Cleaning the burner

Carefully remove the logs/media. Vacuum out any foreign matter on the burner (e.g., lint, carbon, etc.). Ensure the burner ports are free of debris.

NOTE: Improper positioning of logs/media can create carbon build-up and will alter the performance of the fireplace.

Inspecting the wiring

Refer to the wiring diagram (***Figure 28***).

⚠ CAUTION

When servicing controls, label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

⚠ ATTENTION

Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux.

Inspect and clean all wire connections. Ensure that there is no wire melting or damage. The inspection should include:

- Terminals at the valve
- ON/OFF switch
- Optional wall thermostat, remote control, or wall switch

MAINTENANCE SCHEDULE

See the tables below for detailed information about required maintenance, both regular and annual.

Table 30: Maintenance Performed Annually—Before the Burning Season

Maintenance Task	Performed By	Procedure
Inspecting/Cleaning Burner, Logs, and Controls	Qualified Service Technician	Inspect valve and ensure it is properly operating. Check piping for leaks. Vacuum the control compartment, fireplace logs and burner area.
Traditional Fireplaces Only: Check Flame Patterns and Flame Height	Qualified Service Technician	Verify the flame pattern and height displayed by the appliance. Flames must not impinge on the logs.
Contemporary Fireplaces Only: Check Flame Patterns and Flame Height	Qualified Service Technician	Verify the flame pattern and height displayed by the appliance.
Inspecting/Cleaning Pilot and Burner	Qualified Service Technician	Remove any surface build-up on pilot and burner assembly. Wipe the pilot nozzles, ignitor/flame rod and hood. Ensure the pilot flame engulfs the flame sensor as shown.
Checking Vent System	Qualified Service Technician	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation of the vent components.
Appliance Inspection	Qualified Service Technician	Perform the appropriate appliance inspection procedure detailed in this manual.
Replacing Rockwool Ember Materials	Homeowner/Qualified Services Technician	Remove old ember materials and vacuum the rockwool placement area. Place new rockwool as described in this document.

Table 31: Maintenance Performed Periodically—After the Burning Season

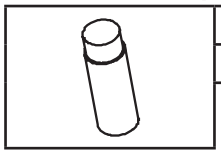
Maintenance Task	Performed By	Procedure
Traditional Fireplaces Only: Cleaning Firebox Interior	Homeowner	Carefully remove logs, rockwool and vermiculite. Vacuum out interior of the firebox. Clean firebox walls and log grate. Replace logs and Rockwool as detailed in this manual.
Contemporary Fireplaces Only: Cleaning Firebox Interior	Homeowner	Carefully remove media. Vacuum out interior of the firebox. Clean firebox walls and burner. Replace media as detailed in this manual.
Traditional Fireplaces Only: Check Flame Patterns and Flame Height	Homeowner	Verify the flame pattern and height displayed by the appliance. Flames must not impinge on the logs.
Contemporary Fireplaces Only: Check Flame Patterns and Flame Height	Homeowner	Verify the flame pattern and height displayed by the appliance.
Checking Vent System	Homeowner	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation of the vent components.
Cleaning Front Glass Door	Homeowner	Clean as necessary following the directions provided in this manual. **Do not touch or attempt to clean the glass while hot.**

ACCESSORY COMPONENTS

Touch-Up Paint Kit

Repair of minor scratches and discoloration of the fireplace black painted surfaces may be accomplished with the touch-up paint kit.

Table 32: Touch-Up Paint Kit

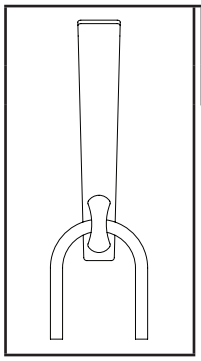


Catalog No.	Model No.
H8159	TSPK-B

Andiron Kits

For use with Envy fireplaces only.

Table 33: Andiron Kits

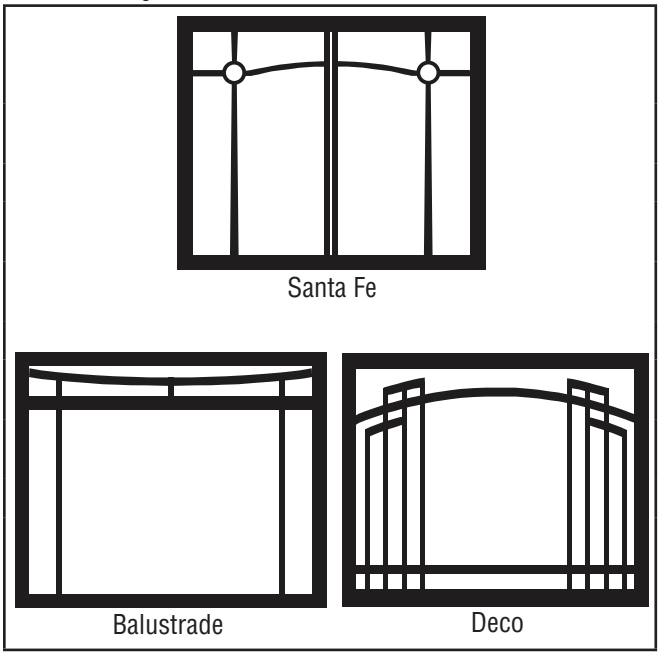


Description	Catalog Number	Model Number
Classic	H8723	AK-CLS-NV

Façade Kits

These façade kits, available in three (3) styles can be installed on Envy traditional and contemporary fireplaces to provide a distinctive finished appearance.

Table 34: Façade Kits



Catalog Number	Model Number	Description	Model
H8739	FAC-SF-BK-NV35	Facade, Sante Fe, Black	35”
H8740	FAC-BAL-BK-NV35	Facade, Balustrade, Black	
H8741	FAC-DECO-BK-NV35	Facade, Deco, Black	
H8715	FAC-SF-BK-NV40	Facade, Sante Fe, Black	40”
H8716	FAC-BAL-BK-NV40	Facade, Balustrade, Black	
H8717	FAC-DECO-BK-NV40	Facade, Deco, Black	
H8719	FAC-SF-BK-NV45	Facade, Sante Fe, Black	45”
H8720	FAC-BAL-BK-NV45	Facade, Balustrade, Black	
H8721	FAC-DECO-BK-NV45	Facade, Deco, Black	

LIGHTING INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. If any portion of this appliance does not operate as the instructions indicate, do not try to repair it, call a qualified service technician. Do not use tools. Force or attempted repair may result in a fire or explosion.

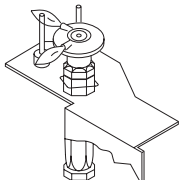
D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

OPERATING INSTRUCTIONS

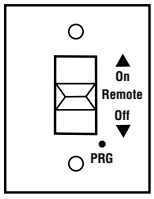
1. STOP! Read the safety information above on this label.
2. Read the Care and Operation manual including the section on "Remote Control System."
3. Slide the switch on the receiver to "OFF."
4. Press ON/OFF button on remote control transmitter to "OFF."
5. Turn "OFF" all electric power to the appliance.
6. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
7. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
8. Turn on all electric power to the appliance.
9. Slide the switch on the receiver to REMOTE.
10. Press ON/OFF button on remote control transmitter to "ON."
11. (if applicable) Set thermostat on remote control to desired setting.
12. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

Electronic Gas Control Valve - SIT Proflame

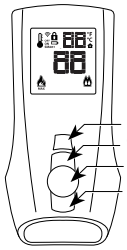
Electronic Pilot Assembly



Receiver



Remote Control Transmitter



TO TURN OFF GAS TO APPLIANCE

1. Slide the switch on the receiver to "OFF."
2. Press ON/OFF button on remote control transmitter to "OFF."
3. Turn off all electric power to the appliance if service is to be performed.
4. Close the main line gas shut-off valve.

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 shall be installed for the protection of children and other at-risk individuals.

POUR PLUS DE SÉCURITÉ LIRE AVANT DE METTRE EN MARCHE

AVERTISSEMENT. Quiconque ne respecte pas à la lettre les instructions dans la présente notice risque de déclencher un incendie ou une explosion entraînant des dommages, des blessures ou la mort.

A. Cet appareil est muni d'un dispositif d'allumage qui allume automatiquement la veilleuse. Ne tentez pas d'allumer la veilleuse manuellement.

B. AVANT DE FAIRE FONCTIONNER, reniflez tout autour de l'appareil pour déceler une odeur de gaz. Reniflez près du plancher, car certains gaz sont plus lourds que l'air et peuvent s'accumuler au niveau du sol.

QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ :

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur; ne pas vous servir des téléphones se trouvant dans le bâtiment.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur, appelez le service des incendies.

C. Si un élément de cette unité ne fonctionne pas tel que décrit dans les instructions, n'essayez pas de le réparer, appelez un technicien qualifié. N'utilisez-pas d'outils. Le fait de forcer la manette ou de la réparer peut déclencher une explosion ou un incendie.

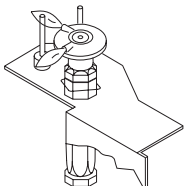
D. N'utilisez pas cet appareil s'il a été plongé dans l'eau, même partiellement. Faites inspecter l'appareil par un technicien qualifié et remplacez toute partie du système de contrôle et toute commande qui ont été plongés dans l'eau.

INSTRUCTIONS DE MISE EN MARCHE

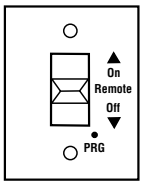
1. ARRÊTEZ ! Lisez les avertissements de sécurité à l'endos de cette étiquette.
2. Lisez le manuel d'utilisation et d'entretien incluant la section « Système de télécommande ».
3. Placez l'interrupteur du récepteur en position "OFF".
4. Appuyez sur le bouton "ON/OFF" pour sélectionner "OFF".
5. Coupez l'alimentation électrique de l'appareil.
6. Cet appareil est muni d'un dispositif d'allumage qui allume automatiquement la veilleuse. Ne tentez pas d'allumer la veilleuse manuellement.
7. Attendre cinq (5) minutes pour laisser échapper tout le gaz. Reniflez tout autour de l'appareil, y compris près du plancher, pour déceler une odeur de gaz. Si vous sentez une odeur de gaz, ARRÊTEZ ! Passez à l'étape B des instructions de sécurité sur la portion supérieure de cette étiquette. S'il n'y a pas d'odeur de gaz, passez à l'étape suivante.
8. Mettez l'appareil sous tension.
9. Placez l'interrupteur du récepteur en position "REMOTE".
10. Appuyez sur le bouton "ON/OFF" pour sélectionner "ON".
11. (Si applicable) Ajustez le thermostat sur la télécommande à l'ajustement désiré.
12. Si l'appareil ne se met pas en marche, suivez les instructions intitulées « Comment couper l'admission de gaz de l'appareil » et appelez un technicien qualifié ou le fournisseur de gaz.

Valve électronique - SIT Proflame

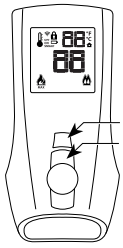
Module de veilleuse électronique



Récepteur



Télécommande



COMMENT COUPER L'ADMISSION DE GAZ DE L'APPAREIL

1. Coupez l'alimentation électrique de l'appareil s'il faut procéder à l'entretien.
2. Sélectionnez OFF sur le récepteur.
3. Appuyez sur le bouton ON/OFF et sélectionnez OFF.
4. Fermer la valve de gaz principale.

DANGER

VITRE CHAUDE
RISQUE DE BRÛLURES.
NE TOUCHEZ PAS UNE VITRE NON REFROIDIE.
NE LAISSEZ JAMAIS UN ENFANT DE TOUCHER LA VITRE.

L'écran pare-étincelles fourni avec ce foyer réduit le risque de brûlure en cas de contact accidentel avec la vitre chaude et doit être installé pour la protection Des enfants et Des personnes à risques.

P/N 900336-00, Rev. NA

TROUBLESHOOTING

Before troubleshooting, ensure that the fireplace main line gas shutoff valve and the wall switch are in the ON position. The following troubleshoots the fireplace only to an elementary level. For detailed remote and ignition system troubleshooting, refer to the instructions provided with the remote.

Detailed valve system troubleshooting should only be performed by a qualified service technician.

Table 35: Troubleshooting Electronic Systems

1. Nothing happens when the fireplace is turned ON/OFF.	**a.** Remote is not functioning properly.	Check that the wall switch plate is set to REMOTE.
		Operate the fireplace from the wall plate switch.
		Replace remote and/or wall switch batteries.
	b. Gas is not reaching the fireplace.	Check the gas supply and gas shutoff valves. *
	c. Unit is not receiving power.	Check/replace backup batteries behind the wall plate.
		Replace unit battery backup.
		Check building circuit breakers to ensure power is ON to the fireplace.
2. The main burner does not light and the igniter is sparking.	**a.** Gas is not reaching the fireplace.	Check the gas supply and gas shutoff valves.
	b. Loose wires to the valve.	Check control compartment for any obviously loose wiring (call a service technician, if necessary).
	c. Loose wires to ignition module.	Check control compartment for any obviously loose wiring (call a service technician, if necessary).
	d. Air in the gas line.	Purge gas line of air (call a service technician if required).
	e. Unit is not receiving power.	Replace unit battery backup.
3. The main Burner comes on but then goes out.	**a.** Gas is not reaching the fireplace.	Check the gas supply and gas shutoff valves.
	b. Loose wires to the valve or ignition module.	Check control compartment for any obviously loose wiring (call a service technician, if necessary).
	c. Pilot flame is not engulfing the sensor.	Call a service technician.
	d. Obstructed vent system.	Call a service technician.
4. Soot is present on the logs and glass.	**a.** Excessive flame impingement on the logs.	Properly position the logs as detailed on **Page 54**.
	b. Initial fireplace operation.	A white film may develop on the glass during the first few fires as part of the burn-in process. The first few times you use the fireplace, clean the glass after each use (AFTER THE GLASS HAS COMPLETELY COOLED); otherwise, the white film will bake onto the glass and become difficult to remove. See glass cleaning instructions in the MAINTENANCE section of this manual.
	c. Improper vent restrictor setting.	Open the air shutter by adjusting the air shutter adjustment lever according to the instructions in this manual.
	d. Improper air shutter opening.	Open the air shutter by pushing in the rod.
5. Poor flame and/or blue flame.	**a.** Door seal is not properly aligned, causing gaps and air leaks.	Remove and realign the door so the gasket seal is fully engaged around the door frame.

***The unit may have multiple gas supply shutoffs (the main gas supply valve in the house, the gas supply valve in the fireplace control compartment, and/or an additional shutoff valve near the fireplace).**

REPLACEMENT PARTS

Table 36: Installer Replacement Parts

Description		35		40		45	
		Catalog Number	Qty	Catalog Number	Qty	Catalog Number	Qty
1	Electronic Pilot Assembly, Natural Gas	H7268	1	H7268	1	H7268	1
2	Flex Hose Connector, 24 in.	H8997	1	H8997	1	H8997	1
3	Flex Hose Connector, 12 in.	H8979	1	H8979	1	H8979	1
4	Flex Hose, 10 in.	H8724	1	H8724	1	H8724	1
5	Remote Control Kit	H8753	1	H8753	1	H8753	1
6	ON/OFF Jumper	H8809	1	H8809	1	H8809	1
7	Gas Valve, SIT Proflame, Natural Gas	H7270	1	H7270	1	H7270	1
8	Shield Standoff	H8980	1	H8981	1	H8982	1
9	Firebox Access Door Gasket	H8983	1	H8983	1	H8983	1
10	Contemporary Burner Assembly	H8984	1	H8985	1	H8986	1
11	Traditional Burner Assembly	H9038	1	H9039	1	H9040	1
12	Vent Restrictor Base	H8987	1	H8987	1	H8987	1
13	Vent Restrictor Wing	H8988	1	H8988	1	H8988	1
14	Gas Train Assembly Gasket	H8989	1	H8989	1	H8989	1
15	Door Latch Assembly, Top	H9063	1	H9063	1	H9063	1
16	Door Latch Assembly, Bottom	H9064	1	H9064	1	H9064	1
17	Firebox Lamp	H8991	1	H8991	1	H8991	1
18	Firebox Lamp Gasket	H8993	1	H8993	1	H8993	1
19	Ceramic Glass, 4 1/2 x2 in.	H8992	1	H8992	1	H8992	1
20	Control Module, SIT	H8656	1	H8656	1	H8656	1
21	Brass Orifice, Female #35	H8828	1	H8828	1	H8828	1
22	Brass Orifice, Female #40	H8933	1	H8933	1	H8933	1
23	Brass Orifice, Female #54	H8763	1	H8763	1	H8763	1
24	Brass Orifice, Female #64	H8765	1	H8765	1	H8765	1
25	Brass Orifice, Female #65	H8767	1	H8767	1	H8767	1
26	Brass Orifice, Female #66	H8875	1	H8875	1	H8875	1
27	Flare 90° Elbow, 3/8 in. NPT (M) X 3/8 in.	H8994	1	H8994	1	H8994	1
28	Flare Straight Fitting, 3/8 in. NPT (M) X 3/8 in.	H8995	1	H8995	1	H8995	1
29	Split Valve	H8996	1	H8996	1	H8996	1
30	Assembly Harness, Wall to Proflame II, 12 ft	H8813	1	H8813	1	H8813	1
31	Assembly Harness, Valve to Proflame II	H8814	1	H8814	1	H8814	1
32	Assembly Harness, Power to Proflame II	H8811	1	H8811	1	H8811	1
33	Assembly Harness, Blower Plug-In	H8817	1	H8817	1	H8817	1
34	Assembly Harness, Lights to Proflame II	H8810	1	H8810	1	H8810	1
35	Assembly Harness, Split Flow to Proflame II	H8812	1	H8812	1	H8812	1
36	Assembly Harness, Light and Fan Connector, 5 in.	H8815	1	H8815	1	H8815	1

⚠ WARNING

Never use substitute materials. Use of non-approved parts can result in poor performance and safety hazards.

Figure 59: Replacement Parts

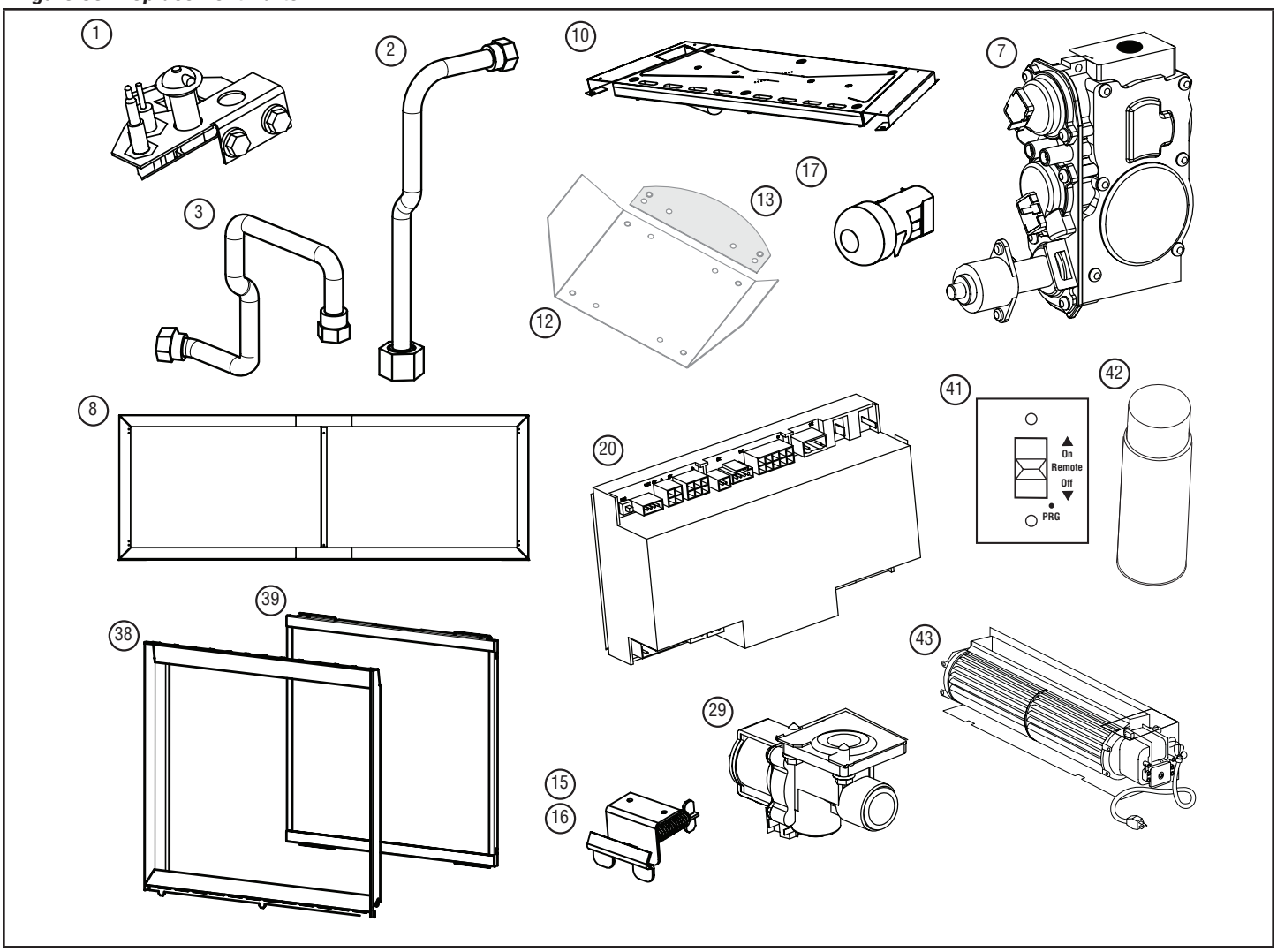


Table 37: Homeowner Replacement Parts

Description		35		40		45	
		Catalog Number	Qty	Catalog Number	Qty	Catalog Number	Qty
37	Surround Trim Assembly	H8734	1	H8713	1	H8735	1
38	Glass Door	H9017	1	H9018	1	H9019	1
39	Literature Kit	H9020	1	H9020	1	H9020	1
40	Remote Control Receiver Wall Switch Kit	H8752	1	H8752	1	H8752	1
41	Touch-Up Paint	90L73	1	90L73	1	90L73	1
42	Blower Assembly	H8736	1	H8736	1	H8736	1

⚠ WARNING

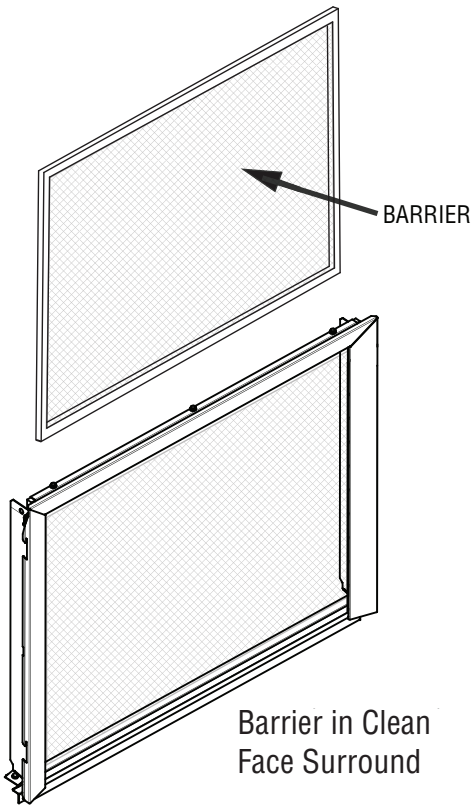
Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

⚠ AVERTISSEMENT

Risque de dommages ou de blessures si les pièces ne sont pas installées conformément à ces schémas et ou si des pièces autres que celles spécifiquement approuvées avec cet appareil sont utilisées.

REPLACING A DAMAGED BARRIER

- **If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.**
- **For use with barrier(s) Part No(s). J7407 (35" Models), J7408 (40" Models), and J7408 (45" Models). Follow installation instructions.**



Barrier in Clean Face Surround

Removing the damaged Barrier

1. Make sure the unit is OFF and COLD.
2. Remove the Barrier in Clean Face Surround from the front of the unit by gripping both sides firmly, then lifting, and swinging out from the top.
3. Remove the three Phillips head screws from the trim piece attaching the bottom of the Clean Face Surround to the Barrier.
4. Remove the 5/16ths inch hex head screws attaching the Barrier to the Clean Face Surround; three (3) from the top and three (3) from both the left and right side.
5. Remove the damaged Barrier by sliding Barrier out through the bottom of the Clean Face Surround.

   NOTE: Pilot holes are not provided. Drill pilot holes manually.

Installing the new listed Barrier

6. Push the replacement Barrier into the Clean Face Surround from the bottom, until the Barrier seats to the top surround piece.
7. Replace the three screws in the top of the Barrier removed in step 3.
8. Replace all the screws removed in step 4.
9. Reinstall the Barrier in Clean Face Surround to the front of the unit by easing it over and onto the front.

Innovative Hearth Products
Astria™ Brand Gas Fireplace
Limited Lifetime Warranty

THE WARRANTY

Innovative Hearth Products ("IHP") Limited Lifetime Warranty warrants your Astria™ brand gas fireplace ("Product") to be free from defects in materials and workmanship at the time of manufacture. The Product body and firebox carry the Limited Lifetime Warranty. Ceramic glass carries the Limited Lifetime Warranty against thermal breakage only. After installation, if covered components manufactured by IHP are found to be defective in materials or workmanship during the Limited Lifetime Warranty period and while the Product remains at the site of the original installation, IHP will, at its option, repair or replace the covered components. If repair or replacement is not commercially practical, IHP will, at its option, refund the purchase price or wholesale price of the IHP product, whichever is applicable. IHP will also pay IHP prevailing labor rates, as determined in its sole discretion, incurred in repairing or replacing such components for up to five years. THERE ARE EXCLUSIONS AND LIMITATIONS to this Limited Lifetime Warranty as described herein.

COVERAGE COMMENCEMENT DATE

Warranty coverage begins on the date of installation. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the Product by an independent IHP dealer/distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from IHP, regardless of the installation or occupancy date.

EXCLUSIONS AND LIMITATIONS

This Limited Lifetime Warranty applies only if the Product is installed in the United States or Canada and only if operated and maintained in accordance with the printed instructions accompanying the Product and in compliance with all applicable installation and building codes and good trade practices.

This warranty is non-transferable and extends to the original owner only. The Product must be purchased through a listed supplier of IHP and proof of purchase must be provided. The Product body and firebox carry the Limited Lifetime Warranty from the date of installation. Vent components, trim components and paint are excluded from this Limited Lifetime Warranty. The following do not carry the Limited Lifetime Warranty but are warranted as follows:

Burner – Repair or replacement for five years from the date of installation
Gas components & electrical components – Repair or replacement for one year from the date of installation
Gaskets – Repair or replacement for one year from the date of installation
Gold & nickel plating - Replacement for two years from date of installation. Excludes tarnishing
Labor coverage – Prevailing IHP labor rates apply for the warranty period of the component
Light bulbs & batteries – Replacement for 90 days from the date of installation
Logs – Replacement for five years from the date of installation against thermal breakage only
Optional blowers & remote controls – Repair or replacement for one year from the date of installation
Optional glass doors & optional glass accessories – Repair or replacement for 90 days from the date of installation
Optional surrounds – Stone/Natural Materials: Replacement for one year against cracking or breakage due to thermal stress. Other Materials: Replacement for one year. Excludes surface and hairline cracks and scratches or slight color changes that do not affect the operation or safety of the unit
Tempered Glass -Replacement for one year from the date of installation

Parts not otherwise listed carry a 90 day warranty from the date of installation.

Whenever practicable, IHP will provide replacement parts, if available, for a period of 10 years from the last date of manufacture of the Product.

IHP will not be responsible for: (a) damages caused by normal wear and tear, accident, riot, fire, flood or acts of God; (b) damages caused by abuse, negligence, misuse, or unauthorized alteration or repair of the Product affecting its stability or performance (The Product must be subjected to normal use. The Product is designed to burn either natural or propane gas only. Burning conventional fuels such as wood, coal or any other solid fuel will cause damage to the Product, will produce excessive temperatures and could result in a fire hazard.); (c) damages caused by failing to provide proper maintenance and service in accordance with the instructions provided with the Product; (d) damages, repairs or inefficiency resulting from faulty installation or application of the Product.

IHP is not responsible for inadequate fireplace system draft caused by air conditioning and heating systems, mechanical ventilation systems, or general construction conditions which may generate negative pressure in the room in which the appliance is installed. Additionally IHP assumes no responsibility for drafting conditions caused by venting configurations, adjoining trees or buildings, adverse wind conditions or unusual environmental factors and conditions that affect the operation of the unit.

This Limited Lifetime Warranty covers only parts and labor as provided herein. In no case shall IHP be responsible for materials, components or construction, which are not manufactured or supplied by IHP or for the labor necessary to install, repair or remove such materials, components or construction. Additional utility bills incurred due to any malfunction or defect in equipment are not covered by this warranty. All replacement or repair components will be shipped F.O.B. from the nearest stocking IHP factory.

LIMITATION ON LIABILITY

It is expressly agreed and understood that IHP's sole obligation and the purchaser's exclusive remedy under this warranty, under any other warranty, expressed or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified herein.

In no event shall IHP be liable for any incidental or consequential damages caused by defects in the Product, whether such damage occurs or is discovered before or after repair or replacement, and whether such damage is caused by IHP's negligence. IHP has not made and does not make any representation or warranty of fitness for a particular use or purpose, and there is no implied condition of fitness for a particular use or purpose.

IHP makes no expressed warranties except as stated in this Limited Lifetime Warranty. The duration of any implied warranty is limited to the duration of this expressed warranty.

No one is authorized to change this Limited Lifetime Warranty or to create for IHP any other obligation or liability in connection with the Product. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. The provisions of this Limited Lifetime Warranty are in addition to and not a modification of or subtraction from any statutory warranties and other rights and remedies provided by law.

INVESTIGATION OF CLAIMS AGAINST WARRANTY

IHP reserves the right to investigate any and all claims against this Limited Lifetime Warranty and to decide, in its sole discretion, upon the method of settlement.

To receive the benefits and advantages described in this Limited Lifetime Warranty, the appliance must be installed and repaired by a licensed contractor approved by IHP.

Contact IHP at the address provided herein to obtain a listing of approved dealers/distributors. **IHP shall in no event be responsible for any warranty work done by a contractor that is not approved without first obtaining IHP's prior written consent.**

HOW TO REGISTER A CLAIM AGAINST WARRANTY

In order for any claim under this warranty to be valid, you must contact the IHP dealer/distributor from which you purchased the product. If you cannot locate the dealer/distributor, then you must notify IHP in writing. IHP must be notified of the claimed defect in writing within 90 days of the date of failure. Notices should be directed to the IHP Warranty Department at 1508 Elm Hill Pike, Suite 108, Nashville, TN 37210 or visit our website at WWW.ASTRIA.US.COM.

P/N 900199-00, Rev. NC 12/2013

Innovative Hearth Products
1508 Elm Hill Pike, Suite 108 • Nashville, TN 37210

Contact an IHP dealer to obtain any of these parts. Please contact IHP for the phone number of your nearest IHP dealer. Astria.us.com
Record the following important information about your fireplace:

Fireplace model number	
Fireplace serial number	
Date fireplace was Installed	
Type of gas fireplace uses	
Dealer name	

P900005-00

IHP.us.com

P/N 900005-00 Rev. A 10/2014

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