

Place serial number here

Owner's Manual

Operation and Maintenance

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

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

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

Contact your dealer with questions regarding installation, operation or service.

NOTICE: DO NOT discard this manual!

Models:

MER36PN

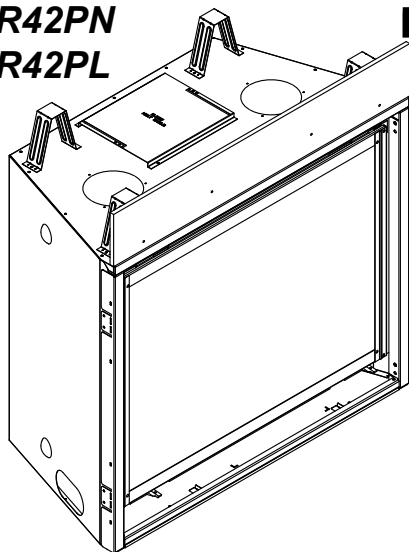
MER36PL

MER42PN

MER42PL



GAS-FIRED



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

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

▲ WARNING:

FIRE OR EXPLOSION HAZARD

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

- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
 - **DO NOT** try to light any appliance.
 - **DO NOT** touch any electrical switch. **DO NOT** use any phone in your building.
 - Leave the building immediately.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.



HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

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

Pour demander un exemplaire en français de ce Manuel, visitez www.majesticproducts.com.

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

1 Welcome

Read this manual before operating this appliance.
Please retain this Owner's Manual for future reference.

Read the Installation Manual before making any installation or finishing changes.

A. Congratulations

Congratulations on selecting a Majestic gas fireplace, an elegant and clean alternative to wood burning fireplaces. The Majestic gas fireplace you have selected is designed to provide the utmost in safety, reliability, and efficiency.

As the owner of a new fireplace, you'll want to read and carefully follow all of the instructions contained in this owner's manual. Pay special attention to all cautions and warnings.

This owner's manual should be retained for future reference. We suggest that you keep it with your other important documents and product manuals.

The information contained in this owner's manual, unless noted otherwise, applies to all models and gas control systems.

Your new Majestic gas fireplace will give you years of durable use and trouble-free enjoyment. Welcome to the Majestic family of fireplace products!

Local Dealer Information

DEALER: Fill in your name, address, phone and email information here and appliance information below.

Dealer Name: _____
Address: _____
Phone: _____
Email: _____

Appliance Information:

Brand: _____ Model Name: _____
Serial Number: _____ Date Installed: _____

Listing Label Information/Location

The model information regarding your specific fireplace can be found on the rating plate usually located in the control area of the fireplace.

Type of Gas

Gas and Electric Information

MAJESTIC

Majestic, a brand of Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044

Energy Verified
Randomized
Georgique Vitrifié

GAS-FIRED
UL LISTED

Vented gas fireplace heater - Not for use with solid fuel. Appareil de chauffage de foyer avec conduit d'évacuation des gaz - n'utilisez pas avec des combustibles solides. MHXXXXX

Type of Gas (Sorte De Gaz): NATURAL GAS ANSI XX.XX-XXXX · CSA X.XX-XXXX
CAN/CSA-P.X.X-XX · FE: ____%

This appliance must be installed in accordance with local codes, if any; if none, follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the National Gas and Propane Installation Code, CSA B149.1. Cet appareil doit être installé conformément aux codes locaux, s'il y a lieu; sinon, suivez le National Fuel Gas Code, ANSI Z223.1/NFPA 54, ou le Code d'installation du gaz naturel et du propane, CSA B149.1.

For a manufactured home (USA only) or mobile home OEM installation: This appliance must be installed in accordance with the Standard for Manufactured Housing, CAN/CSA Z240MH, in Canada; or with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 in the United States; or when such a standard is not applicable, the Standard for Manufactured Home Installations Standard, ANSI/CSBCS A225.1/NFPA 501A. Pour une installation dans une maison préfabriquée (É.-U. seulement) ou dans une maison mobile du constructeur OEM: Ce poêle doit être installé en conformité avec la norme visant les maisons préfabriquées, CAN/CSA Z240MH, au Canada; ou avec la Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 (É.-U. seulement); ou, si une telle norme n'est pas applicable, la Standard for Manufactured Home Installations, ANSI/CSBCS A225.1/NFPA 501A.

Minimum Permissible Gas Supply for Purposes of Input Adjustment.
Approved Minimum (De Gaz admissible) x.x in. w.c. (Po. Col. d'eau)
Maximum Pressure (Pression) xx.x in. w.c. (Po. Col. D'eau)
Maximum Manifold Pressure (Pression) x.x in. w.c. (Po. Col. d'eau)
Minimum Manifold Pressure (Pression) x.x in. w.c. (Po. Col. d'eau)
Minimum rate with variable regulator on control valve
Total Electrical Requirements: 120Vac, 60Hz., less than 12 Amperes

MADE IN USA

QR CODE For use only with barrier(s): N'utiliser qu'avec la (les) barrière(s):
Follow installation instructions. Suivre les instructions d'installation.

QR CODE

INSTALLATION MANUAL USA CANADA
ALTITUDE: 0-2000 FT. 0-4500 FT.
MAX. INPUT BTU/h xx,xxx xx,xxx
MIN. INPUT BTU/h xx,xxx xx,xxx
ORIFICE SIZE #xx DMS #xx DMS

Model: (Modèle): XXXXXXXXX
Serial: (Série):

Model Number
Serial Number

▲ Safety Alert Key:

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

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

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➔ = Contains updated information.

B. Limited Warranty

Hearth & Home Technologies LLC LIMITED WARRANTY

Hearth & Home Technologies LLC ("HHT") extends the following warranty for HHT gas, wood, pellet and electric hearth appliances (each a "Product" and collectively, the "Product(s)") and certain component parts set forth in the table below ("Component Part(s)") that are purchased from a HHT authorized dealer or distributor.

WARRANTY COVERAGE:

HHT warrants that the Products and their Component Parts will be free from defects in materials and workmanship for the applicable period of Warranty coverage set forth in the table below ("Warranty Period"). If a Product or Component Parts are found to be defective in materials or workmanship during the applicable Warranty Period, HHT will, at our discretion, repair the applicable Component Part(s), replace the applicable Component Part(s), or refund the purchase price of the applicable Product(s). The maximum amount recoverable under this Warranty is limited to the purchase price of the Product. This Warranty is transferable from the original purchaser to subsequent owners, but the Warranty Period will not be extended in duration or expanded in coverage for any such transfer. This Warranty is subject to conditions, exclusions, and limitations as described below.

WARRANTY PERIOD:

Warranty coverage begins at the date of installation. In the case of new home constructions, Warranty coverage begins six months after invoice of the final sale of the Product(s) by an independent, authorized HHT dealer or distributor. However, the Warranty coverage shall commence no later than 24 months following the date of Product shipment from HHT, regardless of the installation or purchase date.

Warranty Period		HHT Manufactured Appliances and Venting				
Component Parts	Labor	Gas	Pellet	Wood	Electric	Component Parts Covered by this Warranty
1 Year		X	X	X		All parts including handles, external enameled components and other material except as covered by Warranty Conditions, Warranty Exclusions, and Warranty Limitations listed
2 Years					X	All parts except as covered by Warranty Conditions, Warranty Exclusions, and Warranty Limitations listed
			X	X		Glass, Electrical components limited to heating element/igniters, Top feed auger assembly, Blowers, Junction Box, Remotes/Wall switches, linear actuator, power cord, vacuum switch, snap disc, wire harnesses and thermocouple
		X				Electrical components limited to modules, remotes/wall switches, valves, pilots, blowers, junction boxes, wire harnesses, transformers and lights (excluding light bulbs)
		X		X		Cement Refractory Panels, Glass Liner Panels
3 years			X			Firepots, burnpots, Harman mechanical feeders
5 years		X		X		Catalysts, Vented and Vent Free burners and logs
10 years	1 year	X				Burners, logs and metal/fiber refractory components of HHT manufactured fireplaces or stoves, venting due to poor workmanship
10 years	3 years		X	X		Castings, Medallions & Baffles, FlexBurn® System (engine, inner cover, access cover and fireback), Firebox and heat exchanger, HHT Chimney & Terminations, Manifolds
20 years	3 years	X				Firebox and heat exchanger
All purchased replacement parts and optional accessories						
1 Year	None	X	X	X	X	All purchased replacement parts and optional accessories

B. Limited Warranty (*continued*)

WARRANTY CONDITIONS:

- Because HHT cannot control the quality of any Products sold by unauthorized sellers, this Warranty only covers Products that are purchased through an HHT authorized dealer or distributor unless otherwise prohibited by law; a list of HHT authorized dealers is available on the HHT branded websites.
- This Warranty is only valid while the applicable Product remains at the site of original installation.
- This Warranty is only valid in the country in which the HHT authorized dealer or distributor that sold the applicable Product is authorized to sell applicable Product.
- Contact your installing distributor or dealer for Warranty service. If the installing dealer or distributor is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking Warranty service from a dealer other than the dealer from whom you originally purchased the applicable Product.
- No HHT consumer should bear cost of warranty service or costs incurred while servicing warranty claims (i.e., travel, gas, or mileage) when the service is performed within the terms of this Warranty. Check with your dealer or distributor in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this Warranty.

WARRANTY EXCLUSIONS:

This Warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under the Warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
- Repair or replacement of parts that are subject to normal wear and tear during the Warranty Period are not covered. These parts include: paint, wood and pellet gaskets, firebricks, wood grates, flame guides, batteries and the discoloration of glass.
- Minor expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this Warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the applicable Product in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the applicable Product; (2) failure to install the applicable Product in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operation instructions; (7) installation or use of components not supplied with the applicable Product or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the applicable Product.
- Non-HHT venting components, hearth connections or other accessories used in conjunction with the applicable Product.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas applicable Product is installed.
- HHT's obligation under this Warranty does not extend to the Product's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper Product for the application. Consideration must be given to the Product location and configuration, environmental conditions, insulation and air tightness of the structure.

This warranty is void if:

- The applicable Product has been over-fired, operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plates or tubes, deformation/warping of interior cast iron structure or components, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The applicable Product is subjected to prolonged periods of dampness or condensation.
- There is any damage to the applicable Product due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.

LIMITATIONS OF REMEDIES AND LIABILITY:

- **EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. The owner's exclusive remedy and HHT's sole obligation under this Warranty or in contract, tort or otherwise, shall be limited to, at HHT's sole option, replacement of the Component Part(s), repair of the Component Part(s), or refund of the original purchase price of the applicable Product(s). In no event will HHT be liable for any incidental or consequential damages caused by defects in the applicable Product. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from State to State. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE FOR THE APPLICABLE PRODUCT. Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.**

2 Product Specific Information

A. Appliance Certification

MODELS: MER36PN, MER36PL

MER42PN, MER42PL

LABORATORY: Underwriters Laboratories, Inc. (UL)

TYPE: Direct Vent Heater

STANDARD: CSA / ANSI Z21.88-2019 • CSA 2.33-2019

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

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

NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE.

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

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



B. Glass Specifications

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

C. BTU Specifications

Models (U.S. or Canada)		Maximum Input BTU/h	Minimum Input BTU/h	Orifice Size (DMS)
MER36PN (NG)	(0-2000 ft)	40,000	22,000	#31
MER36PL (Propane)	(0-2000 ft)	40,000	21,000	#49
MER42PN (NG)	(0-2000 ft)	45,000	23,000	#30
MER42PL (Propane)	(0-2000 ft)	44,000	23,000	#48

3 Important Safety and Operating Information

A. Appliance Safety

WARNING! DO NOT operate fireplace before reading and understanding operating instructions. Failure to operate fireplace according to operating instructions could cause fire or injury.



**HOT GLASS WILL
CAUSE BURNS.**

**DO NOT TOUCH GLASS
UNTIL COOLED.**

**NEVER ALLOW CHILDREN
TO TOUCH GLASS.**

- Keep children away.
- CAREFULLY SUPERVISE children in same room as fireplace.
- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

High temperatures may ignite clothing or other flammable materials.

- Clothing, furniture, draperies, and other flammable materials must not be placed on or near the appliance.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and must be installed for the protection of children and other at-risk individuals. DO NOT operate the appliance with the barrier removed. If the barrier becomes damaged, the barrier must be replaced with the manufacturer's barrier for this appliance.

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

- 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.

- Install a switch lock or a wall/remote control with child protection lockout feature.
- Keep remote controls out of reach of children.
- Never leave children alone near a hot fireplace, whether operating or cooling down.
- Teach children to NEVER touch the fireplace.

- Consider not using the fireplace when children will be present.

Contact your dealer for more information, or visit: www.hpba.org/Product-Info/Fireplace-Stove-Heater/Glass-Fronts-Safety.

To prevent unintended operation when not using your fireplace for an extended period of time (summer months, vacations, trips, etc):

- Remove batteries from remote controls.
- Turn off wall controls.
- Unplug 6 volt adapter plug and remove batteries.
- Set the selector switch on the control module to the OFF position and remove batteries.



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

Clear Space

WARNING! DO NOT place combustible objects in front of the fireplace or block fireplace openings. High temperatures could start a fire. See Figure 3.1.

Avoid placing candles and other heat-sensitive objects on mantel or hearth. Heat could damage these objects.

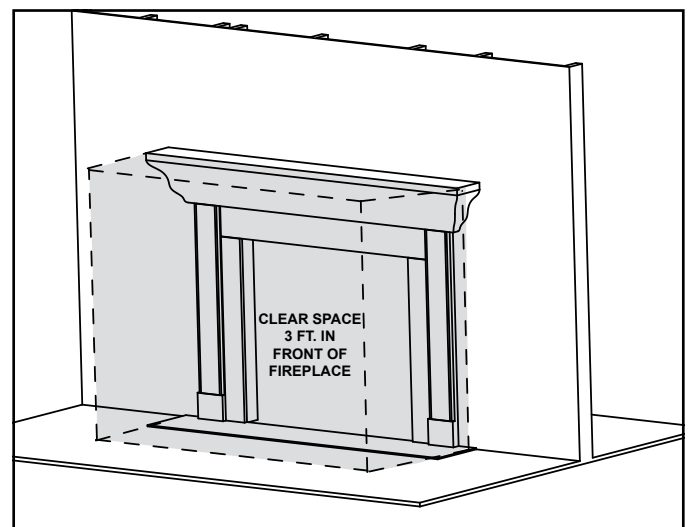


Figure 3.1 Clear Space Requirement - All Models

B. General Operating Parts

Figure 3.2 references the general operating parts of the appliance and the section of this manual in which they are discussed.

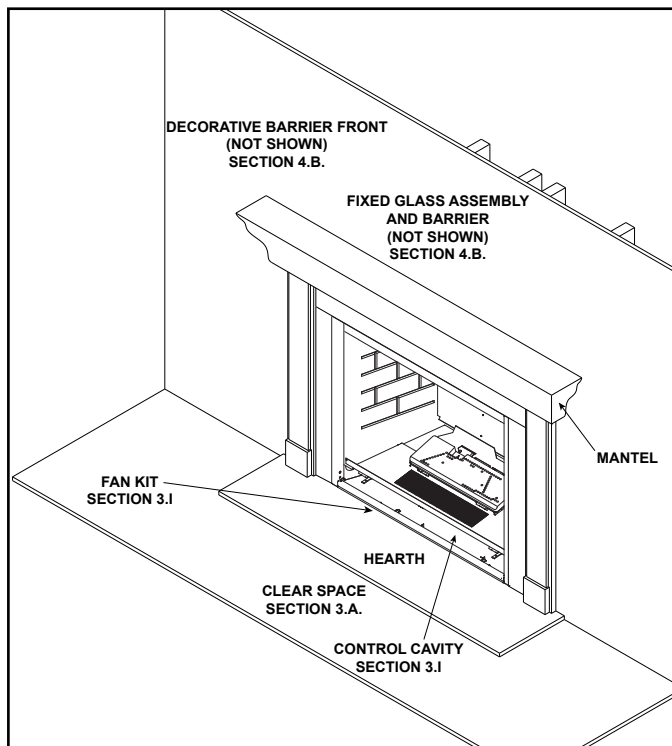


Figure 3.2 General Operating Parts

C. Fuel Specifications

WARNING! Risk of Fire or Explosion! Appliance must be set up for compatible gas type!

- This appliance is designed to operate on either natural gas or propane. Make sure the appliance is compatible with gas type selected for installation site.
- Conversions must be made by a qualified service technician using Hearth & Home Technologies specified and approved parts.

D. Wall and Mantel Temperatures

ANSI/CSA Standards

The American National Standards Institute (ANSI) and Canadian Standards Association (CSA) write the safety and performance standards to which all gas fireplaces are tested. The following are the allowable temperatures around and on a gas fireplace per the ANSI/CSA standards:

Combustible Mantel and Surfaces around a Fireplace

The allowable temperature rise above ambient is 117°F for all exposed combustible surfaces around the fireplace, including the mantel, when installed according to the installation instructions. Non-combustible surfaces and mantels do not have a maximum temperature limit; however the installation instructions must still be followed for any restrictions on placement of non-combustible materials on or around the fireplace.

Example: The mantel above a fireplace in a room that is 70°F is allowed to reach but not exceed 187°F (70°F+117°F = 187°F).

E. Good Faith Wall Surface/TV Guidelines

If installing a television (TV) above the appliance, see appliance Installation Manual Section 2.B and 10.C.

F. Before Lighting Appliance

Before operating this fireplace for the first time, **it is recommended that a qualified service technician:**

- Verify all shipping materials have been removed from inside and/or underneath the firebox.
- Review proper placement of logs, ember material and/or other decorative materials.
- Check the wiring.
- Check the air shutter adjustment.
- Ensure that there are no gas leaks.
- Ensure that the glass is sealed and in the proper position and that the integral barrier is in place.

WARNING! Risk of Fire or Asphyxiation! DO NOT operate fireplace with fixed glass assembly removed.

G. Lighting Instructions (IPI)

FOR YOUR SAFETY READ BEFORE LIGHTING



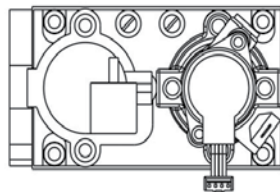
WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- A. This appliance is equipped with an intermittent pilot ignition (IPI) device which automatically lights the burner. **DO NOT** try to light the burner by hand.
 - B. **BEFORE LIGHTING**, 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. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, **DO NOT** try to repair it, call a qualified service technician. 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.

LIGHTING INSTRUCTIONS (IPI)

1. This appliance is equipped with an ignition device which automatically lights the burner. **DO NOT** try to light the burner by hand.
2. 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 located on the top of this label. If you do not smell gas, go to next step.
3. To light the burner:
Equipped with wall switch: Turn ON/OFF switch to ON.
Equipped with remote or wall control: Press ON or FLAME button.
Equipped with thermostat: Set temperature to desired setting.
4. If the appliance does not light after three tries, call your service technician or gas supplier.

**GAS
VALVE**



TO TURN OFF GAS TO APPLIANCE

1. Equipped with wall switch: Turn ON/OFF switch to OFF.
Equipped with remote or wall control: Press OFF button.
Equipped with thermostat: Set temperature to lowest setting.
2. Service technician should turn off electric power to the control when performing service.



DANGER



**HOT GLASS WILL CAUSE BURNS.
DO NOT TOUCH GLASS UNTIL COOLED.
NEVER ALLOW CHILDREN TO TOUCH GLASS.**

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

WARNING:

DO NOT CONNECT LINE VOLTAGE (110/120 VAC OR 220/240 VAC) TO THE CONTROL VALVE.

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

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.



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

Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

CAUTION:

Hot while in operation. **DO NOT** touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away.

DO NOT operate the appliance with fixed glass assembly removed, cracked or broken. Replacement of the fixed glass assembly should be done by a licensed or qualified service person.

NOT FOR USE WITH SOLID FUEL

For use with natural gas and propane. A conversion kit, as supplied by the manufacturer, shall be used to convert this appliance to the alternate fuel.

Also Certified for Installation in a Bedroom or a Bedsitting Room.

This appliance must be installed in accordance with local codes, if any; if none, follow the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or the *National Gas and Propane Installation code, CSA B149.1*.

**For additional information on operating your
Hearth & Home Technologies fireplace, please
refer to www.hearthnhome.com.**

593-913K

H. Appliance Break-In

NOTICE! Open windows for air circulation during fireplace break-in.

- Some people may be sensitive to smoke and odors.
- Smoke detectors may activate.

Follow the initial break-in procedure below to cure the materials used to manufacture the fireplace and the finishing materials around it.

- The fireplace should be run three to four hours continuously on high.
- Turn the fireplace off and allow it to cool completely.
- Remove fixed glass assembly. See Section 4.B.
- Clean fixed glass assembly. See Section 4.B.
- Replace the fixed glass assembly.

Note: Some installations may require additional run time to cure. If odors persist after the initial break-in period, run the fireplace for an additional three to four hours continuously on high.

Note: IPI systems have a safety feature that automatically shuts down the fireplace after 9 hours of continuous operation without receiving a command from the remote control. If this occurs, restart the appliance.

I. Heat Management

Heat Output

- Heat output may be controlled on these models by adjusting the “Flame Height” setting on the remote control.
- Fan speed may be controlled using the “Fan Speed” setting on the remote control.

Optional Heat Management Systems

An optional heat management system, which allows the heat from the appliance to be redirected as desired, may be installed with this appliance. It may be either a HEAT-ZONE®-GAS, which diverts heat into an adjacent room, and/or a HEAT-OUT-GAS which will divert heat outside the home/building, and/or a Passive Heat kit which disperses the heat into the same room as the fireplace.

Refer to Section 6 of the appliance installation manual to confirm which of the heat management systems may be installed together. All heat management systems must be installed by a qualified service technician at the time of appliance installation.

Optional HEAT-ZONE®-GAS Kit

The HEAT-ZONE®-GAS heat management option is available for use with these appliance models. The Heat-Zone Kit draws heat from your fireplace to an adjacent room in your home, up to 20 feet away.

Optional HEAT-OUT-GAS Kit

The HEAT-OUT-GAS heat management option is available for use with these appliance models and is operated with a wall switch, included in the kit. The Heat-Out-Gas kit draws heat from your fireplace and directs it outside, up to 25 feet away.

Optional Passive Heat Kit (PH-MR)

The Passive Heat heat management option is available for use with these appliance models. The Passive Heat Kit allows the heat to be vented into the room through one front discharge, two side discharges or an open top discharge while the fireplace is in operation. Passive Heat can be used in conjunction with HEAT-ZONE®-GAS or HEAT-OUT-GAS kit.

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

J. Operation During A Power Outage (IntelliFire Touch®)

The IntelliFire Touch® intermittent pilot ignition system comes with a battery backup system that enables the system to operate in a power outage. The system offers seamless transition from household AC power to battery backup. See appliance manual bag for battery pack. Batteries should not be placed in the battery pack while using electrical power to operate the fireplace. Remove batteries from battery pack when power has been restored and remove battery pack from the appliance.

Battery longevity and performance will be affected by long term exposure to the service temperatures of this appliance.

NOTICE: Batteries should only be used as a power source in the event of an emergency power outage. Batteries should not be used as a primary long-term power source. Batteries tend to corrode over time.

To Operate Fireplace Using Battery Power (DC):

1. Access the control cavity of the appliance. See Figure 3.3 for location. The decorative barrier front and front refractory may need to be removed.
2. Insert four AA cell batteries into battery tray. Battery polarity must be correct or module damage will occur. See Figure 3.3. A complete wiring diagram is included in the Electrical section of the appliance Installation Manual.
3. Turn the appliance on according to the instructions below for the appropriate type of control:

Wall Switch:

- Toggle the switch as you would under normal circumstances.

Wireless Remote:

- Remote receiver is integrated into the ignition module
- Use the remote to turn the appliance on.
- To preserve battery life, do not use the HI/LO flame or THERMOSTAT options.

Ignition Module:

- Locate the ignition module in the control cavity.
- Slide the ON/REMOTE/OFF switch to the ON position.

NOTICE: Some functionality will be lost when using battery backup including fan, lights, or any other auxiliary functions that require household 110-120 VAC power.

To Return to Operation Using Electrical (AC) Power

Wall Switch:

- Toggle the switch to OFF and remove the batteries from the battery tray. Replace decorative barrier front on appliance.

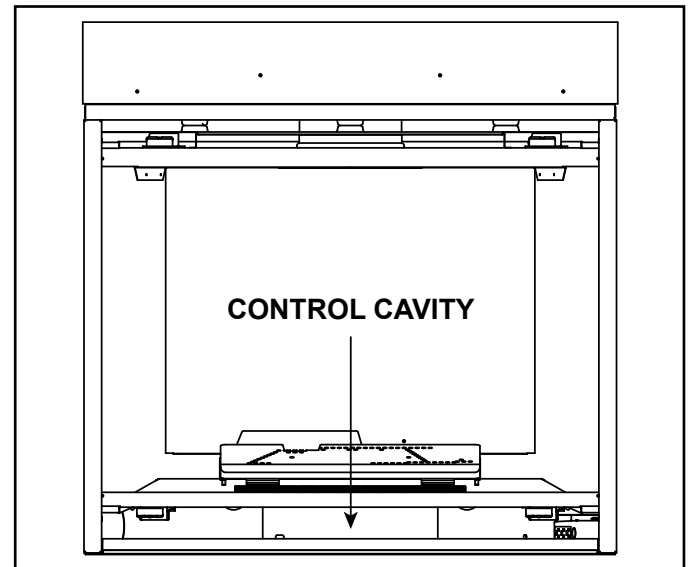
Wireless Remote:

- Slide the ON/REMOTE/OFF switch to the REMOTE position. Remove the batteries from the battery tray. Replace decorative barrier front on appliance.

Ignition Module:

- Slide the ON/REMOTE/OFF switch to the REMOTE position.

Remove the batteries from the battery tray. Replace decorative barrier front on appliance.



3.3 Control Cavity / Battery Pack Location

K. Detailed Component Operating Instructions - IntelliFire Touch

IFT-ECM Detailed Operating Instruction

This model is shipped from the factory equipped with the IFT-RC400 remote. The IntelliFire Wi-Fi module (IFT-WFM) is an available option.

1. The Electronic Control Module (IFT-ECM) has a three-position ON/OFF/REMOTE selector switch that must be set for proper operation. See Figure 3.4. When changing switch positions, it is important to pause in each position for 1-2 seconds.

OFF Position:

The appliance will not respond to any commands from a wired wall switch, IFT-RC150 or IFT-RC400 remote controls. The unit should be in the OFF position during service, fuel conversion, and to reset the IFT-ECM in the event the system goes into a LOCK-OUT mode as the result of a system error. When switched to the OFF position while the appliance is operating, the system will shut down.

ON Position:

The appliance will ignite and run continuously at the HI flame setting. No adjustment in flame height is possible.

Remote Position:

The remote position allows operation of the appliance from a wired wall switch, IFT-RC400 or IFT-RC150 remote controls. The IFT-ECM switch must be in this position to pair the IFT-ECM with the IFT-ACM (if installed), and/or IFT-RC400 and IFT-RC150 remote controls. See the IFT-RC400 or IFT-RC150 installation manual for detailed instructions on pairing the IFT-ECM with the remote controls. After successfully pairing a IFT-RC400, all installed accessories can be controlled by the IFT-RC400 (see IFT-RC400 user manual). The RC150 allows the user to turn ON/OFF the flame in the appliance and activate the Cold Climate mode if desired. The IFT-ECM has a safety feature that will automatically shut down the fireplace after 9 hours of continuous operation without receiving a command from the IFT-RC400 or IFT-RC150.

The IFT-ECM has a safety feature that will automatically shut down the fireplace after 9 hours of continuous operation in the ON position, except when operated in active thermostat mode.

3. The Pilot button on the IFT-ECM activates the Cold Climate function of the fireplace. This function lights the pilot flame ONLY to provide enough heat in the firebox to reduce condensation in cool, high humidity ambient conditions. To activate the Cold Climate press and hold the Pilot button for one second and release. The IFT-ECM will flash two green LED blinks, beep twice and light and rectify the pilot flame when pressed to activate. To turn off Cold Climate, press and hold the Pilot button for one second and release. The IFT-ECM will flash one green LED blink, beep once and shut down the pilot flame. If remote controls are paired with the IFT-ECM, this feature can also be activated with the IFT-RC400 and/or IFT-RC150. The cold climate function will turn off after seven days of continuous operation.

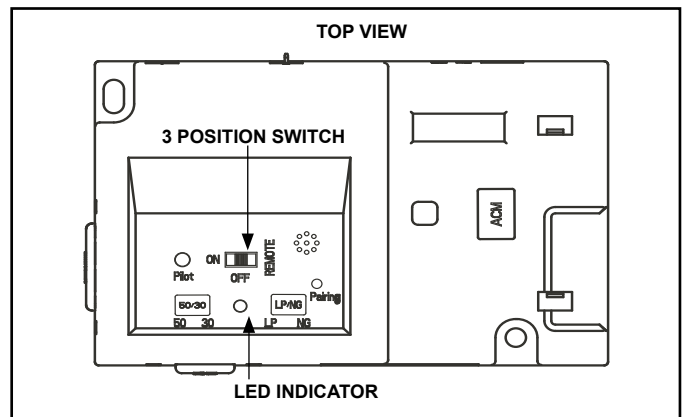


Figure 3.4 IFT-ECM



DANGER



Risk of Explosion

DO NOT cycle the ON/OFF/REM selector switch more than one time within a five minute period. Gas may accumulate in firebox. Call a qualified service technician.

4. An IFT-ECM reset is required if the module is in a lock-out condition. When this occurs, the appliance is shut down and the IFT-ECM status indicator LED will be blinking a RED/GREEN error code along with a one-time audible double-beep. If the IFT-ECM is in a lock-out condition, refer to the troubleshooting chart to interpret the error code and take corrective action as required. To reset the IFT-ECM after a lock-out error:

CAUTION! Risk of burns! Appliance surfaces are hot when operating and during cool down. Use care and wear gloves when opening the front and accessing components inside the appliance.

- Be aware the appliance may be HOT, use care in accessing the IFT-ECM.

- Set the IFT-ECM 3-position selector switch to OFF position.
- Wait five (5) minutes to allow possible accumulated gas to clear.
- Set the IFT-ECM 3-position selector switch to ON or REMOTE position. Module will beep once and flash a three GREEN LED code on successful startup.
- If placed in ON position, the appliance will ignite normally if the error condition was corrected.
- If placed in REMOTE position, use the paired IFT-RC400, IFT-RC150 or wired wall switch to start the appliance; appliance will ignite normally if the error condition was corrected.
- If the IFT-ECM re-enters the lock-out condition after these steps, call your dealer for service.

Wi-Fi (Optional)

If desired, a Wi-Fi module (IFT-WFM) may be added to allow the appliance to be run via an app. Contact your dealer to order.

Appliance ON/OFF:

This model is supplied with a fully functional remote control. This remote controls:

- ON/OFF Functions
- Flame height adjustments
- Thermostat
- LED Accent Lighting
- LED Illuminated Embers
- Cold Climate Feature
- Fan operation

Refer to the instructions included with the remote control for more detailed operating instructions.

LED Accent Lighting

- LED accent lighting is a standard feature on these models.
- The intensity of the accent lighting may be controlled through the remote control included with the fireplace.

NOTICE: Use the "Lights" command on the remote control to set the accent lighting feature to level three or higher to achieve maximum benefit of accent lights.

LED Illuminated Embers

- LED Illuminated Embers are a standard feature on these models.
- The intensity of the these embers may be controlled through the remote control included with the fireplace.

4 Maintenance and Service

IMPORTANT! Any safety screen, decorative barrier front or guard removed for servicing must be replaced prior to operating the fireplace.

When properly maintained, your fireplace will give you many years of trouble-free service. **Contact your dealer** to answer questions regarding proper operation, troubleshooting and service for your appliance. Visit www.majesticproducts.com to locate a dealer. We recommend annual service by a qualified service technician.

A. Maintenance: Frequency and Tasks

Task	Frequency	To be completed by
Glass Cleaning	Seasonally	Homeowner
Decorative Barrier Fronts	Annually	
Remote Control	Seasonally	
Termination Cap	Seasonally	
Gasket Seal and Glass Assembly Inspection	Annually	Qualified Service Technician
Log Inspection	Annually	
Firebox Inspection	Annually	
Control Compartment & Firebox Top	Annually	
Interior Ceramic Glass Panel Cleaning	Seasonally	
Pilot and Burner Ignition and Operation	Annually	
LED Accent Lights and LED Illuminated Embers Replacement	As needed	
Valve Plate Assembly Removal	As needed	
Electrical Service and Repair	As needed	

B. Maintenance Tasks - Homeowner

Installation and repair should be done by a qualified service technician only. The appliance should be inspected before use and at least annually by a professional service person.

The following tasks may be performed annually by the homeowner. If you are uncomfortable performing any of the listed tasks, please call your dealer for a service appointment.

More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean. Any safety screen, guard, or barrier removed for servicing the appliance must be replaced prior to operating the appliance.

CAUTION! Risk of Burns! The fireplace shall be turned off and cooled before servicing.

Glass Cleaning

Frequency: Seasonally

By: Homeowner

Tools Needed: Protective gloves, gas fireplace glass cleaner, drop cloth and a stable work surface.

CAUTION! Handle fixed glass assembly with care. Glass is breakable.

- Avoid striking, scratching or slamming glass
 - **DO NOT** use abrasive cleaners
 - **DO NOT** clean glass while it is hot
 - Prepare a work area large enough to accommodate fixed glass assembly and decorative barrier front by placing a drop cloth on a flat, stable surface.
- Note:** Fixed glass assembly and gasketing may have residue that can stain carpeting or floor surfaces.
- Remove decorative barrier front from fireplace and set aside on work surface.

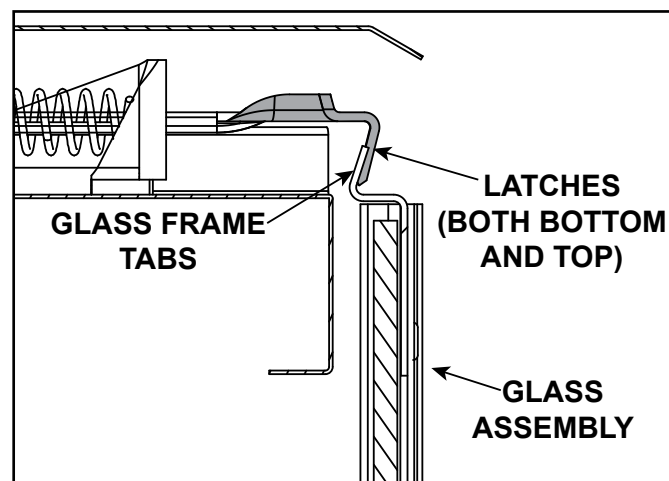


Figure 4.1 Fixed Glass Assembly

Removing Fixed Glass Assembly

- Pull the four glass assembly latches away from the tabs on the glass frame. Remove glass assembly from the appliance. See Figure 4.1.
- Clean glass with a non-abrasive, non-ammonia based, commercially available gas fireplace glass cleaner.
 - Light deposits: Use a soft cloth with soap and water
 - Heavy deposits: Use commercial fireplace glass cleaner (consult with your dealer)

Replacing Fixed Glass Assembly

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

Decorative Barrier Fronts

Frequency: Annually

By: Homeowner

Tools needed: Protective gloves, stable work surface

- Assess condition of screen and replace as necessary.
- Inspect for scratches, dents or other damage and repair as necessary.
- Check that air intake and discharge areas are not blocked.
- Vacuum and dust surfaces.

Remote Control

Frequency: Seasonally

By: Homeowner

Tools needed: Replacement batteries and remote control instructions.

- Locate remote control transmitter and receiver.
- Verify operation of remote. Refer to remote control operation instructions for proper calibration and setup procedure.
- Replace batteries as needed in remote transmitters and battery-powered receivers.
- Place remote control out of reach of children.

If not using your fireplace for an extended period of time (summer months, vacations/trips, etc), to prevent unintended operation:

- Remove batteries from remote controls.
- Unplug 6 volt adapter plug.

Termination Cap

Frequency: Seasonally

By: Homeowner

Tools needed: Protective gloves and safety glasses.

- Inspect exposed venting and termination cap for blockage or obstruction such as plants, bird nests, leaves, snow, debris, etc.
- Verify termination cap clearance to subsequent construction (building additions, decks, fences, or sheds).
- Inspect for corrosion or separation.

C. Maintenance Tasks - Qualified Service Technician

The following tasks must be performed by a qualified service technician.

Gasket Seal and Glass Assembly Inspection

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, drop cloth and a stable work surface.

- Inspect gasket seal and its condition.
- Inspect fixed glass assembly for scratches and nicks that can lead to breakage when exposed to heat.
- Confirm there is no damage to glass or glass frame. Replace as necessary.
- Verify that fixed glass assembly is properly retained and attachment components are intact and not damaged. Replace as necessary.

Log Inspection

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves.

- Inspect for damaged or missing logs. Replace as necessary. Refer to Installation manual for log placement instructions.
- Verify correct log placement and no flame impingement causing sooting. Correct as necessary.

Firebox Inspection

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, sandpaper, steel wool, cloths, mineral spirits, primer and touch-up paint.

- Inspect for paint condition, warped surfaces, corrosion or perforation. Sand and repaint as necessary.
- Replace fireplace if firebox has been perforated.

Control Compartment and Firebox Top

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, vacuum cleaner, dust cloths

- Vacuum and wipe out dust, cobwebs, debris or pet hair. Use caution when cleaning these areas. Screw tips that have penetrated the sheet metal are sharp and should be avoided.
- Remove all foreign objects.
- Verify unobstructed air circulation.

Interior Ceramic Glass Panel Cleaning

Frequency: Seasonally

By: Qualified Service Technician

Tools Needed: Protective gloves, glass cleaner.

CAUTION! Handle glass with care. Glass is breakable.

- *Avoid striking, scratching or slamming glass*
- *Avoid abrasive cleaners*
- **DO NOT** clean glass while it is hot
- Clean glass with a non-abrasive commercially available cleaner.
 - Light deposits: Use a soft cloth with soap and water
 - Heavy deposits: Use commercial fireplace glass cleaner (consult with your dealer).

Pilot and Burner Ignition and Operation

Frequency: Annually

By: Qualified Service Technician

Tools needed: Protective gloves, vacuum cleaner, whisk broom, flashlight, voltmeter, indexed drill bit set, and a manometer.

- Inspect orifice for soot, dirt and corrosion. Verify orifice size is correct. See Service Parts List for proper orifice sizing.
- Verify air shutter setting is correct. See Installation Manual for required air shutter setting. Verify air shutter is clear of dust and debris.
- Verify burner is properly secured and aligned with pilot or igniter.
- Clean off burner top, inspect for plugged ports, corrosion or deterioration. Replace burner if necessary.
- Inspect flame sensing rod for soot, corrosion and deterioration. Polish with 320 grit Emery cloth and/or 3M™ Scotch-Brite Abrasive Hand Pad.
- Verify that there is not a short in flame sense circuit by checking continuity between pilot hood and flame sensing rod. Replace pilot as necessary.
- Verify manifold and inlet pressures. Adjust regulator as required.
- Check all accessible gas-carrying tubes, connections, pipes and other components for leaks.
- Inspect pilot flame pattern and strength. See Figure 4.2 for proper pilot flame pattern. Clean or replace orifice spud as necessary.
- Replace Glowing embers with new dime-size pieces. **DO NOT** block ports or obstruct lighting paths. Refer to appliance installation manual for proper ember placement.
- Check for smooth lighting and ignition carryover to all ports. Verify that there is no ignition delay. Inspect and ensure the lighting of the main burner occurs within four seconds of the main gas valve opening.

- Inspect for lifting or other flame problems.
- Verify batteries have been removed from battery back-up to prevent premature battery failure or leaking.

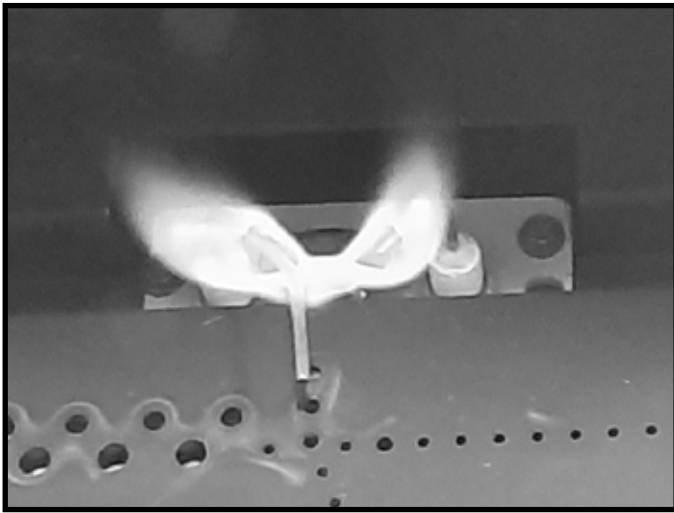


Figure 4.2 Pilot Flame

NOTE: Appearance of rock jig, pilot shield and media tray may vary between appliance models.

LED Accent Lights and LED Illuminated Embers Replacement

Frequency: As needed

By: Qualified Service Technician

Tools needed: Protective gloves, replacement LED assemblies, 1/4 inch nut driver, LED gaskets, valve plate gaskets.

The LED's and LED Illuminated Embers installed in this appliance do not require any annual service. However, the LED assemblies can be replaced. To replace:

- Remove decorative barrier front and fixed glass assembly.
- Remove the log set and base refractory.
- Remove the ember bed basket and valve plate assembly.
- Disassemble the LED assemblies from the valve plate.
- See replacement parts list for LED part numbers.

Note: Replace valve plate gasket, LED Ember tub and LED accent tub gaskets, if necessary.

Valve Plate Assembly Removal

Frequency: As needed

By: Qualified Service Technician

Tools needed: Protective gloves, 1/4 inch nut driver,

It may become necessary for a qualified service technician to remove the valve plate assembly for valve service or replacement. This task should be performed by a qualified service technician. The refractory panels **do not** need to be removed to access the valve plate assembly. See Section 9 of Appliance Installation Manual for details.

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

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

Electrical Service and Repair

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

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

5 Frequently Asked Questions and Troubleshooting

A. Frequently Asked Questions - Appliance

ISSUE	SOLUTIONS
Condensation on the glass	This is a result of gas combustion and temperature variations. Prior to appliance being turned on, the inside of the glass has cooled below the dew point producing a byproduct of combustion: water in the form of condensation. As the fireplace glass warms, the condensation will disappear. In the summer, the inside of your fireplace contains hot humid air from outdoors. When the air from outdoors contacts glass cooled below the dew point by your air conditioning, moisture in that air will condense.
Blue flames	This is a result of normal operation and the flames will begin to yellow as the fireplace is allowed to burn for 20 to 40 minutes.
Erratic flames	Verify that the glass assembly is correctly installed and that all glass latches are engaged over the tabs on the glass frame. Vent baffle/flue restrictor may be needed when long vertical vent runs are used. Refer to Installation Manual Section 4 Vent Diagrams.
Odor from fireplace	When first operated, this fireplace may release an odor for the first several hours. This is caused by the curing of the paint and the burning off of any oils remaining from manufacturing. Odor may also be released from finishing materials and adhesives used around the fireplace. These circumstances may require additional curing related to the installation environment.
Film on the glass	This is a normal result of the curing process of the paint and logs. Glass should be cleaned within 3 to 4 hours of initial burning to remove deposits left by oils from the manufacturing process. A non-abrasive cleaner such as gas fireplace glass cleaner may be necessary. Contact your dealer.
Metallic noise	Noise is caused by metal expanding and contracting as it heats up and cools down, similar to the sound produced by a furnace or heating duct. This noise does not affect the operation or longevity of the fireplace.
Is it normal to see the pilot flame burn continually?	In an intermittent pilot ignition system (IPI), the pilot flame should turn off when appliance is turned off. Some optional control systems available with IPI models may allow pilot flame to remain lit.
Power Outages (battery backup)	This appliance can be operated on battery power in the event of a power outage. To access the battery pack, the decorative barrier front, mesh and glass assembly must be removed. Refer to Section 3 for more details.
Wall above appliance feels hot to the touch.	No action necessary. This appliance ships with a non-combustible material attached. Specifications of the attached non-combustible material are listed in the Installer's Manual for this appliance.

Contact your dealer for additional information regarding operation and troubleshooting. Visit www.majesticproducts.com to locate a dealer.

B. Frequently Asked Questions - IntelliFire Touch Controls (IFT-RC400)

Symptom	Possible Cause	Corrective Action
The appliance does not respond to commands from the remote control display does not light up when screen is touched.	Batteries are depleted.	Verify batteries are new.
	Batteries are incorrectly oriented.	Verify batteries are installed in correct orientation as shown on batteries receptacle.
The display on remote lights up when screen is touched but it does not respond to commands.	Touchscreen has lost calibration.	Touchscreen needs to be re-calibrated. Call dealer to have screen re-calibrated.
	Child Lock is ON.	Check child lock icon located at the top of the remote display. If ON, it will show as a 'locked' symbol. To unlock, remove battery compartment door, locate child lock switch and move to 'unlock' position. Verify child lock icon on screen is now displayed in 'unlock' position.
The remote displays the following message on-screen: No dealer info available	Dealer information not programmed into remote.	Remote will still provide all available functions, and appliance is fully available for use. Call dealer to have them program.
The remote displays the following message on-screen: Call "Dealer Name & Number" to schedule maintenance.	300 hours of use. Appliance is still fully functional.	The appliance has been burning for 300 hours and is due for a regular maintenance. Call dealer to have them perform maintenance.
The room temperature displayed on the remote is either slow or quick to respond while operating in thermostat mode.	Remote is placed at a very short distance or too far away from the appliance.	Try to keep the remote close to the appliance but not directly in front of it. The remote acts as the thermostat.
	Remote is placed in the path of an air draft or vent.	Move the remote away from the direct path of air flow. The remote acts as the thermostat.
	Flame Modulation	The control system is designed to automatically adjust the flame intensity based on the difference between the desired room temperature, and actual temperature. In thermostat mode, the hearth appliance will start in HI flame, but as the actual temperature approaches the desired set temperature on the remote, the flame intensity will automatically decrease. Automatic flame modulation will result in more control of the temperature, and will cause the appliance to cycle OFF/ON less.
The appliance turns OFF the flame after extended periods of operation	9 hour safety shutdown timer	This is normal behavior. The appliance has a safety timer that will automatically turn OFF the flame after nine hours of uninterrupted operation.
The remote displays the following message on-screen: Fan will turn on within 3 minutes	Functioning as intended.	The appliance has a three minute delay timer before the fan is turned ON. This allows the air surrounding the appliance to be heated before being pushed into the room.
The remote displays the following message on-screen: "Replace remote batteries."	Low batteries in remote.	Install new batteries in the remote.
The remote is displaying an incorrect brand.	Remote was programmed incorrectly.	Call dealer to have them program the remote with correct branding. Remote is still fully functional and the appliance is unaffected.
After turning flame ON using remote, the flame does not turn ON immediately and instead a two minute timer is displayed.	Power vent is installed on the appliance.	This is expected behavior and the two minute timer is called a pre-purge timer. The flame will turn ON at the expiration of the timer.
The remote displays the following message on-screen: "Remote Control Communication Error."	No power to appliance.	Verify home circuit breaker is on and master reset is on (if equipped).
	Power outage.	Install new batteries in battery backup.
The remote displays the following message on -screen: Sorry your appliance did not start. Try again by pressing Flame On.	No power to appliance. No gas to appliance. Accumulation of air in gas line from extended period of appliance inactivity. Gas control system failure.	Verify that appliance has power and gas. Verify that the appliance accepts flame ON commands with an audible beep, and successfully turns flame on within 90 seconds. If this failure persists, contact dealer for service.

C. Troubleshooting

With proper installation, operation, and maintenance your gas appliance will provide years of trouble-free service. If you do experience a problem, this troubleshooting guide will assist a qualified service technician in the diagnosis of a problem and the corrective action to be taken. This troubleshooting guide can only be used by a qualified service technician. Contact your dealer to arrange a service call by a qualified service technician.

Note to Qualified Service Technician: Additional resources including troubleshooting guides and service videos are available through Hearth & Home Technologies. Contact your dealer or access resources through your myhht.com account.

IntelliFire Touch

Error Codes:

ECM LED Error Codes	Description
3 Red: 1 Green	IFT-RC400 error message: 'Appliance Safely Disabled', pilot sparks for 90 sec, no flame rectification.
2 Red: 1 Green	IFT-RC400 display: 'Error Pilot Flame', pilot valve solenoid not detected.
2 Red: 2 Green	Sparkling feedback signal error, spark coil failure.
5 Red: 1 Green	IFT-RC400 display: 'Error Power Vent' (if installed).

See Troubleshooting matrix for more detail on Lock-out Error Codes, Possible Causes and Corrective Actions.

Troubleshooting:

Symptom	Possible Cause	Corrective Action
Pilot won't light, module clicks but no spark 90 sec, 3 Red/1 Green Lock out.	Incorrect wiring.	Verify 'S' (White) sense wire and 'I' (orange) ignitor wire are connected to correct terminals on IFT-ECM.
	Loose connections or electrical shorts in wiring.	Verify no loose connections or electrical shorts in wiring from module to pilot assembly. Verify wire insulation is not damaged. Verify wires are not grounding out to chassis, pilot burner, or any other metal object. Replace any damaged wires.
	Ignitor gap is too large.	Verify spark gap is approximately 0.095" (2.41 mm) to 0.135" (3.43 mm).
Pilot won't light, there is no noise or spark.	No AC power, AC/DC adaptor faulty, backup batteries (if being used) depleted, IFT-ECM slider switch in OFF position.	Verify IFT-ECM slider switch is in ON or REM position. Verify AC power available to junction box. Verify AC/DC adaptor is plugged into junction box and ECM. Verify AC/DC adaptor output voltage is between 5.7-6.3 Vdc. If battery pack is used, check battery pack voltage is >4.2 V (if not, replace batteries).
	Shorted or loose connection in system wiring or wiring harness.	Verify system wiring configuration. Remove and reinstall wiring harness that plugs into module. Check continuity of wires in valve wiring harness. Replace any damaged components.
	Poor or no system ground.	Verify black ground wire in valve harness is connected to metal chassis of fireplace.
Pilot won't light, there is no noise or spark, 2 Red/1 Green Lockout.	Pilot solenoid not detected.	Check if valve harness orange wire is connected to pilot solenoid valve. Check pilot solenoid resistance, nominal is 40 ohms. If open or shorted, replace valve. Check valve harness wire continuity, if open replace 6-pin harness.
Pilot won't light, there is no noise or spark, 2 Red/2 Green Lockout.	Spark coil failure.	Replace ECM.

IntelliFire Touch - (continued)

Symptom	Possible Cause	Corrective Action
Pilot sparks but does not light, after 90 sec, 3 Red/1 Green Lockout	No gas supply.	Verify incoming gas line ball valve is 'Open'. Verify inlet pressure is within requirement for gas type used. Contact gas supplier.
	ECM has poor ground.	Verify wiring, check valve harness black wire is securely grounded to metal chassis.
	Gas valve defective.	Check pilot valve solenoid kick and hold voltages during ignition cycle. Kick V should be >1 V, hold V minimum 0.26 V. If voltages are OK, replace gas valve.
Pilot lights but main burner does not light. Pilot continues to spark for 90 sec then goes into 3 Red/1 Green Lockout.	No flame detected. Flame rectification issue.	Check if white sense lead is securely connected to 'S' terminal of IFT-ECM. Check resistance of sense lead between sense rod tip and connector to IFT-ECM, should be less than 1 ohm - if not, replace pilot assembly. Check system ground, ensure black valve harness wire is securely attached to metal chassis. Check wiring for damage. With system OFF, check resistance between tip of sense rod and pilot hood, should be resistance (>1 M-ohm).
	No flame detected or sense rod contamination.	With glass assembly installed, verify pilot flame is engulfing flame sense rod on pilot assembly. Verify inlet gas pressure is correct for gas type. Polish flame sense rod with fine steel wool to remove any contaminants that may have accumulated.
Pilot lights and rectifies, but main burner does not light.	Main valve solenoid.	Check if green wire in valve harness is connected to green main valve solenoid. Check main valve solenoid resistance, nominal is 60 ohms. If open or shorted, replace valve. Verify valve inlet pressure is correct for gas type.
Pilot and main do not light, ECM goes into 5 Red/1 Green Lockout.	Power Vent (PV) Failure.	Power Vent blower defective - check wiring to IFT-ACM, check if blower is working. Check if PV pressure switch is connected to brown and black wire in 6-pin valve wire harness. Check if pressure switch is closed (shorted) when PV blower is running. Refer to PV troubleshooting instructions.
Appliance lights and runs for a few minutes then shuts down and/or appliance cycle ON and OFF with less than 90 sec of ON time.	Shorted or loose connection in flame detection circuit.	Check if white sense lead is securely connected to 'S' terminal of IFT-ECM. Check resistance of sense lead between sense rod tip and connector to IFT-ECM, should be less than 1 ohm - if not, replace pilot assembly. Check system ground, ensure black valve harness wire is securely attached to metal chassis. Check wiring for damage. With system OFF, check resistance between tip of sense rod and pilot hood, should be resistance (>1 M-ohm).
	Poor flame rectification or contaminated sense rod.	With glass assembly installed, verify pilot flame is engulfing flame sense rod on pilot assembly. Verify inlet gas pressure is correct for gas type. Polish flame sense rod with fine steel wool to remove any contaminants that may have accumulated. Verify no soot deposits are in sense rod to pilot hood gap.
	Logs are set up wrong.	Remove and re-install logs per the log placement instructions.
	Damaged pilot assembly.	Verify the pilot assembly ceramic insulator around the flame sensing rod is not cracked, damaged or loose. Check resistance between tip of sense rod and IFT-ECM connector, should be less than 1 ohm. Replace pilot assembly if damage is detected.

6 Reference Materials

A. Accessories

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

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

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

Options:

Remote Controls, Wall Controls and Wall Switches		
IFT-RC150-MAJ	IntelliFire Touch wireless wall switch	
IFT-RC400	IntelliFire Touch remote control	(Shipped standard)
IntelliFire Wi-Fi module with IntelliFire App		
IFT-WFM	IntelliFire Wi-Fi module for app	
Refractory Kits (Required)		
GL-36MX / GL-42MX	Black Glass Liner	
BRICK36MPLCS / BRICK42MPLCS	Castle Stone Brick Refractory	
SRV2586-077-TG*	Optional rear base refractory, for use with Castle Stone	
BRICK36MPLTB / BRICK42MPLTB	Tavern Brown Brick Refractory	
SRV2586-077-NS*	Optional rear base refractory, for use with Tavern Brown or Tavern Brown Herringbone	
BRICK36MPLTBH / BRICK42MPLTBH	Tavern Brown Herringbone Brick Refractory	
SRV2586-077-NS*	Optional rear base refractory, for use with Tavern Brown or Tavern Brown Herringbone	
*Optional rear base refractory recommended for aesthetic purposes only. MER42PN / MER42PL only.		
Heat Management Systems Kits		
HEAT-OUT-GAS	Heat-Out-Gas	
HEAT-ZONE-GAS	Heat-Zone-Gas	
HZMR-ADP	Heat Zone Adapter	
PH-MR	Passive Heat-Front, Side or Top Discharge	
PH-SIDETRIM	Passive Heat registers for side discharge (requires PH-MR)	
PH-FRTTRIM-36, PH-FRTTRIM-42	Passive Heat registers for front discharge (requires PH-MR)	



B. Service Parts

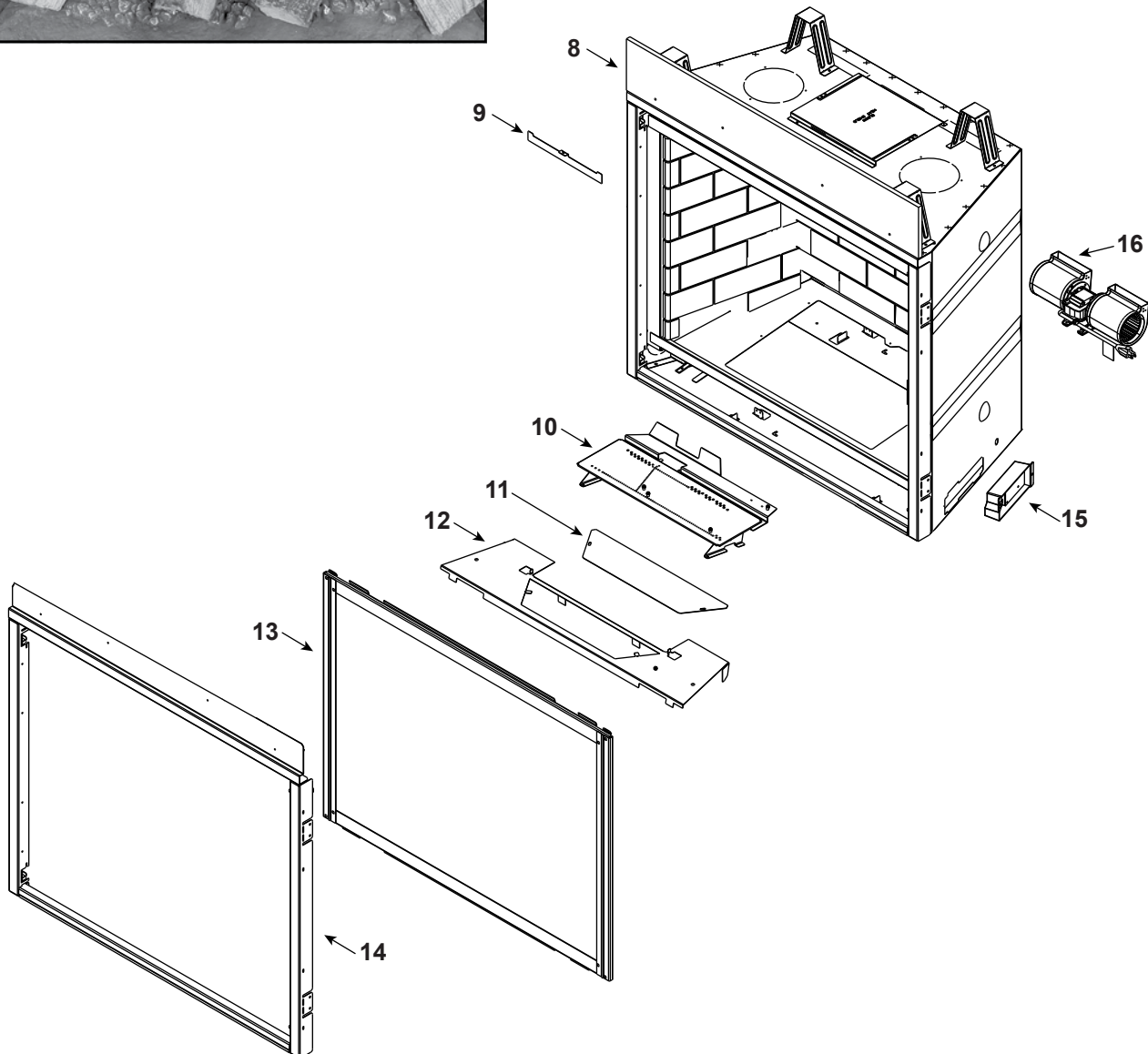
MER36PL, MER36PN

Beginning Manufacturing Date: Jun 2023

Ending Manufacturing Date: Active

Meridian Platinum 36" Gas Fireplace - DV

Log Set Assembly



Part number list on following page.



MER36PL, MER36PN

Beginning Manufacturing Date: Jun 2023

Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.



**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
	Log Assembly		LOGSMER36	Y
1	Log #1		SRV2596-700	
2	Log #2		SRV2596-703	
3	Log #3		SRV2596-702	
4	Log #4		SRV2596-706	
5	Log #5		SRV2596-701	
6	Log #6		SRV2596-705	
7	Log #7		SRV2596-704	
8	Non-combustible board		2583-137	
9	Curtain, Flue Light		2583-179	
10	Burner Assembly		2596-007	Y
11	Mesh, Ember Bed		2583-157	
12	Basket, Ember Bed		2583-156	
	Glass Liner Kit (Back, Left, Right, Bases, Top, & Insulation Boards)		GL-36MX	
	Magic Glass Assembly (Back, Left, & Right)		2592-079	
	Brick Kit (Back, Left, Right, Bases & Top)	Castle Stone	BRICK36MPLCS	
		Tavern Brown Herring	BRICK36MPLTBH	
		Tavern Brown	BRICK36MPLTB	
13	Glass Assembly		GLA-6KL	Y
	Finishing Strips	Sold as set only	SRVFS-6K	
14	Surround		SRV2583-019	
	Surround Bottom		SRV2583-193-1	
15	Junction box		SRV2583-009	Y
16	Blower		GFK-160A	Y
	Elbow Heat Shield		385-290	
	Flue Restrictor		385-128	
	Gasket Assembly (Vent, seal cap, cover, drawn neck, shutter, valve, & bulkhead)		2583-080	
	Glass Clip Assembly (Top)	Qty 2 req	2155-047	Y
	Glass Clip Assembly (Bottom)	Qty 2 req	2155-045	Y
	Mineral Wool		050-721	
	Seal Cap	Qty 2 req	4031-221	
	Illuminated Embers Glass Media	4lbs.	2680-753	



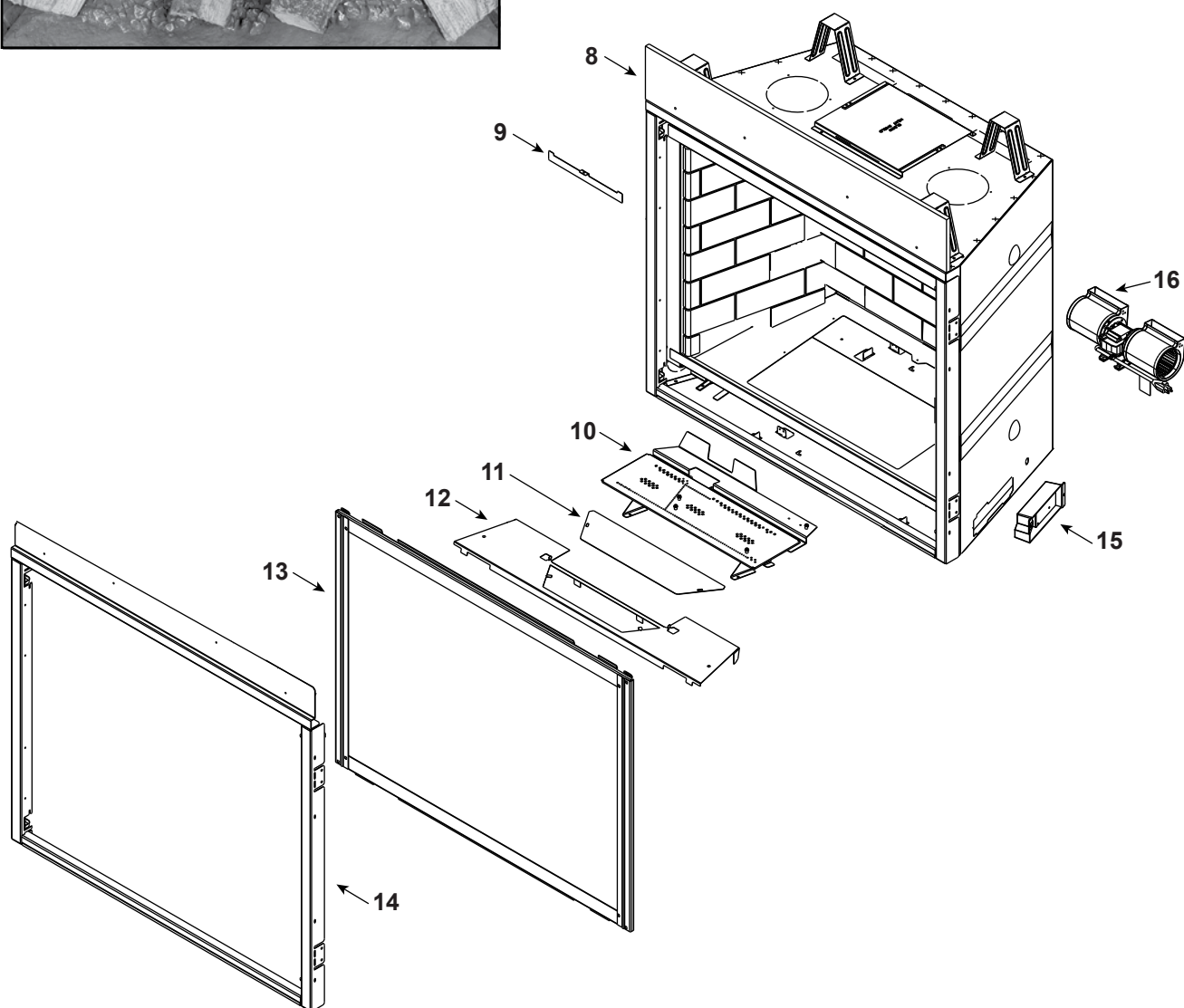
Service Parts

MER42PL, MER42PN

Beginning Manufacturing Date: Jun 2023
Ending Manufacturing Date: Active

Meridian Platinum 42" Gas Fireplace - DV

Log Set Assembly



Part number list on following page.



MER42PL, MER42PN

Beginning Manufacturing Date: Jun 2023
Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.



**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
	Log Assembly		LOGSMER42	Y
1	Log #1		SRV2598-700	
2	Log #2		SRV2598-703	
3	Log #3		SRV2596-702	
4	Log #4		SRV2598-701	
5	Log #5		SRV2598-706	
6	Log #6		SRV2598-705	
7	Log #7		SRV2598-704	
8	Non-combustible board		2587-137	
9	Curtain, Flue Light		2583-179	
10	Burner Assembly		2598-007	Y
11	Mesh, Ember Bed		2583-157	
12	Basket, Ember Bed		2587-156	
	Glass Liner Kit (Back, Left, Right, Bases, Top, & Insulation Boards)		GL-42MX	
	Magic Glass Assembly (Back, Left, & Right)		2594-079	
	Brick Kit (Back, Left, Right, Bases & Top)	Castle Stone	BRICK42MPLCS	
		Tavern Brown Herring	BRICK42MPLTBH	
		Tavern Brown	BRICK42MPLTB	
13	Glass Assembly		GLA-8KL	Y
	Finishing Strips	Sold as set only	SRVFS-8K	
14	Surround		SRV2587-019	
	Surround Bottom		SRV2583-193-2	
15	Junction box		SRV2583-009	Y
16	Blower		GFK-160A	Y
	Elbow Heat Shield		385-290	
	Flue Restrictor		385-128	
	Gasket Assembly (Vent, seal cap, cover, drawn neck, shutter, valve, & bulkhead)		2583-080	
	Glass Clip Assembly (Top)	Qty 2 req	2581-400	Y
	Glass Clip Assembly (Bottom)	Qty 2 req	2155-045	Y
	Mineral Wool		050-721	
	Seal Cap	Qty 2 req	4031-221	
	Illuminated Embers Glass Media	4lbs.	2680-753	



MER36PL, MER36PN, MER42PL, MER42PN

Beginning Manufacturing Date: Jun 2023
Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.



**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
#17 Valve Assembly				
17.1	Pilot Assembly	NG	SRV2106-169	Y
		Propane	SRV2106-170	Y
	Pilot Tube		SRV485-301	Y
17.2	3-Hole Grommet		SRV2118-420	
17.3	Bulkhead W/Flex tube		SRV7000-156	Y
17.4	Flex Ball Valve Assembly		SRV303-330	Y
17.5	Glass, Ember		2583-173	
17.6	Kapton, Ember		2583-171	
17.7	LED Assembly, Ember Bed		2583-061	Y
17.8	Valve	NG	SRV2166-302	Y
		Propane	2166-303	Y
17.9	Male Connector	Pkg of 5	303-315/5	Y
17.10	Battery Holder**		SRV2326-142	Y
17.11	Component Tray Assembly		See following page	
17.12	Shutter Assembly		2583-011	
17.13	LED Wire		2589-160	Y
17.14	REB Accent Light		2583-236	Y
17.15	Kapton, Accent	Qty 2 req	2583-170	
17.16	Glass, Accent	Qty 2 req	2583-172	
	Orifice, NG (#31C)		SRV582-831	Y
	Orifice, Propane (#49C)		SRV582-849	Y

**Fuse for battery pack can be sourced locally, not a warranty item. Specs are 250v, 3A fuse, 3/4" long
Additional service part numbers appear on following page.



MER36PL, MER36PN, MER42PL, MER42PN

Beginning Manufacturing Date: Jun 2023
Ending Manufacturing Date: Active

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.



**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
17.11a	Module, IFT Control		SRV2326-130	Y
17.11b	Module, RF FCC		SRV2326-120	Y
17.11c	Harness, IFT 6 Pin Wiring		SRV2583-063	Y
17.11d	Component Tray		2279-185	
17.11e	LED Controller		SRV2166-336	Y
17.11f	Module, B Type AC		SRV2326-150	Y
17.11g	Cable, B Type AC Module		SRV2326-152	Y
17.11h	Transformer, 6 Volt Wall		SRV2326-131	Y
	RC400 Remote		SRV2326-110	Y
	Touch Up Paint		TUP-GBK-12	
Conversion Kits				
	Conversion Kit NG		NGK-MID	Y
	Conversion Kit Propane		LPK-MID	Y
	Pilot Orifice, NG		SRV593-528	Y
	Pilot Orifice, Propane		SRV593-527	Y
	Regulator, NG		NGK-DXV-50	Y
	Regulator, Propane		SRVLPK-DXV-50	Y

C. Contact Information



Majestic, a brand of Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044
www.majesticproducts.com

Please contact your Majestic dealer with any questions or concerns.
For the location of your nearest Majestic dealer,
please visit www.majesticproducts.com.

- NOTES -

NOTICE		
	DO NOT DISCARD THIS MANUAL	
• Important operating and maintenance instructions included.	• Read, understand and follow these instructions for safe installation and operation.	• Leave this manual with party responsible for use and operation.

This product may be covered by one or more of the following patents: (United States) 7077122, 7074035, 7234932, 7322819, 7422011, 7726300, 8147240, 9625149 or other U.S. and foreign patents pending.

Installation Manual

Installation and Appliance Setup

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

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

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

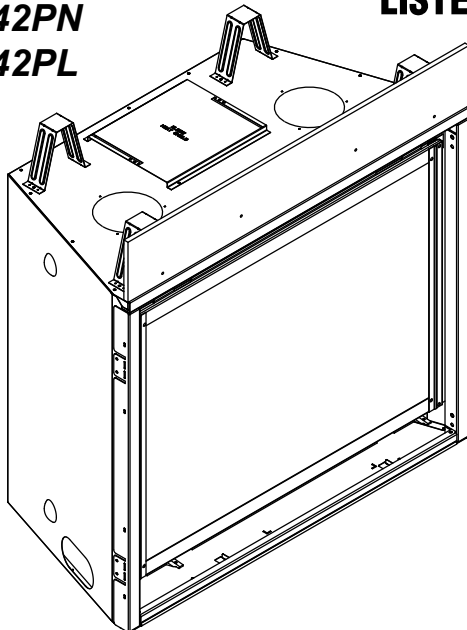
NOTICE: DO NOT discard this manual!

Models:

**MER36PN
MER36PL
MER42PN
MER42PL**



GAS-FIRED



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

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

Pour demander un exemplaire en français de ce Manuel, visitez www.majesticproducts.com.

⚠ WARNING:

FIRE OR EXPLOSION HAZARD

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

- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas**
 - **DO NOT** try to light any appliance.
 - **DO NOT** touch any electrical switch. **DO NOT** use any phone in your building.
 - Leave the building immediately.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.



**HOT GLASS WILL
CAUSE BURNS.**

**DO NOT TOUCH GLASS
UNTIL COOLED.**

**NEVER ALLOW CHILDREN
TO TOUCH GLASS.**

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

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

Refractory must be ordered at time of appliance purchase. See Section 11.C.

▲ Safety Alert Key:

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

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

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➔ = Contains updated information.

Installation Standard Work Checklist

ATTENTION INSTALLER: Follow this Standard Work Checklist

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

Customer:

Lot/Address: _____

Date Installed:

Location of Fireplace: _____

Installer:

Dealer/Distributor Phone # _____

Serial #: _____

Model (circle one): **MER36PN** **MER36PL**
 MER42PN **MER42PL**



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

Appliance Install

YES

IF NO, WHY?

Verified that the chase is insulated and sealed. (Pg. 24)

☐

Verified clearances to combustibles. (Pg. 16-23)

☐

Fireplace is leveled and secured. (Pg. 49)

☐

Venting/Chimney Section 7 (Pg 50-55)

Venting configuration complies to vent diagrams.

☐

Venting installed, locked and secured in place with proper clearance.

☐

(May need to order separately.)

☐

Firestops installed.

☐

No insulation or foam materials in contact with venting or between ceiling/wall shield firestops.

☐

Attic insulation shield installed.

☐

Exterior wall/Roof flashing installed and sealed.

☐

Terminations installed and sealed.

☐

Electrical Section 8 (Pg 56-59)

Unswitched power (110-120 VAC) provided to the appliance.

☐

Switch wires properly installed.

☐

Gas Section 9 (Pg 60-62)

Proper appliance for fuel type.

☐

Was a conversion performed?

☐

Leak check performed and inlet pressure verified.

☐

Verified proper air shutter setting for installation type.

☐

Finishing Section 10 (Pg 63-70)

Combustible materials not installed in non-combustible areas.

☐

Verified all clearances meet installation manual requirements.

☐

Mantels and wall projections comply with installation manual requirements.

☐

Removed finishing strips prior to start up, if installed.

☐

Appliance Setup Section 11 (Pg 71-80)

All packaging and protective materials removed (inside & outside of appliance).

☐

Refractories, logs, media and embers installed correctly.

☐

Glass assembly installed and secured.

☐

Accessories installed properly.

☐

Decorative barrier front properly installed.

☐

(May need to order separately.)

Manual bag and all of its contents are removed from inside/under

☐

the appliance and given to party responsible for use and operation.

☐

Started appliance and verified no gas leaks exist.

Hearth & Home Technologies recommends the following:

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

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

Comments Communicated to party responsible _____ by _____ on _____

(Builder / Gen. Contractor/) (Installer)

(Date)

→ = Contains updated information.

2596-982 1/23

1 Product Specific and Important Safety Information

A. Appliance Certification

MODELS: MER36PN, MER36PL

MER42PN, MER42PL

LABORATORY: Underwriters Laboratories, Inc. (UL)

TYPE: Direct Vent Heater

STANDARD: CSA / ANSI Z21.88-2019 • CSA 2.33-2019

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

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

NOT INTENDED FOR USE AS A PRIMARY HEAT SOURCE.

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

B. Glass Specifications

This appliance is equipped with ceramic glass. Replace glass only with ceramic glass. Please contact your dealer for replacement glass.

C. BTU Specifications

Models (U.S. or Canada)		Maximum Input BTU/h	Minimum Input BTU/h	Orifice Size (DMS)
MER36PN (NG)	(0-2000 ft)	40,000	22,000	#31
MER36PL (Propane)	(0-2000 ft)	40,000	21,000	#49
MER42PN (NG)	(0-2000 ft)	45,000	23,000	#30
MER42PL (Propane)	(0-2000 ft)	44,000	23,000	#48

D. High Altitude Installations

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

When installing above 2000 feet elevation:

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

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

E. Non-Combustible Materials Specification

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

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

F. Combustible Materials Specification

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

G. Electrical Codes

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

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

H. California



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

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

I. Requirements for the Commonwealth of Massachusetts

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

Installation of Carbon Monoxide Detectors

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

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

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

Approved Carbon Monoxide Detectors

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

Signage

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

Inspection

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

Exemptions

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

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

MANUFACTURER REQUIREMENTS

Gas Equipment Venting System Provided

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

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

Gas Equipment Venting System NOT Provided

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

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

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

See Gas Connection section for additional Commonwealth of Massachusetts requirements.

2 Getting Started

A. Design and Installation Considerations

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

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

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

Before installing, determine the following:

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

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



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

B. Good Faith Wall Surface / TV Guidelines

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

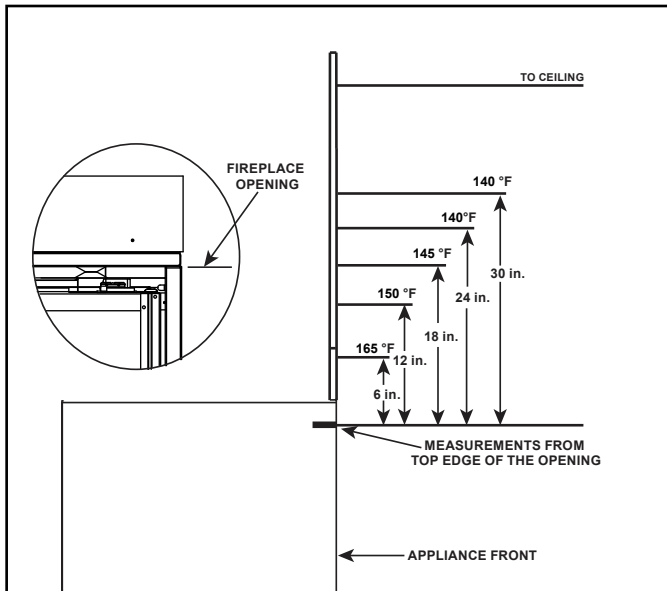


Figure 2.1 Good Faith Wall Surface Temperatures Above Appliance

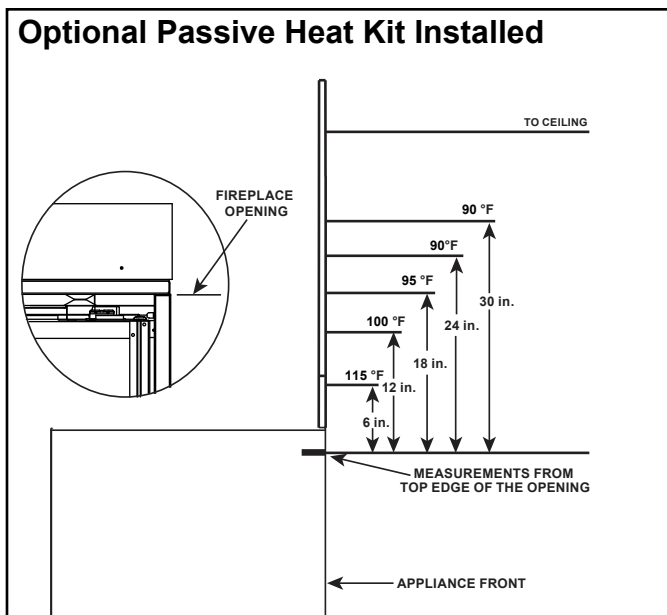
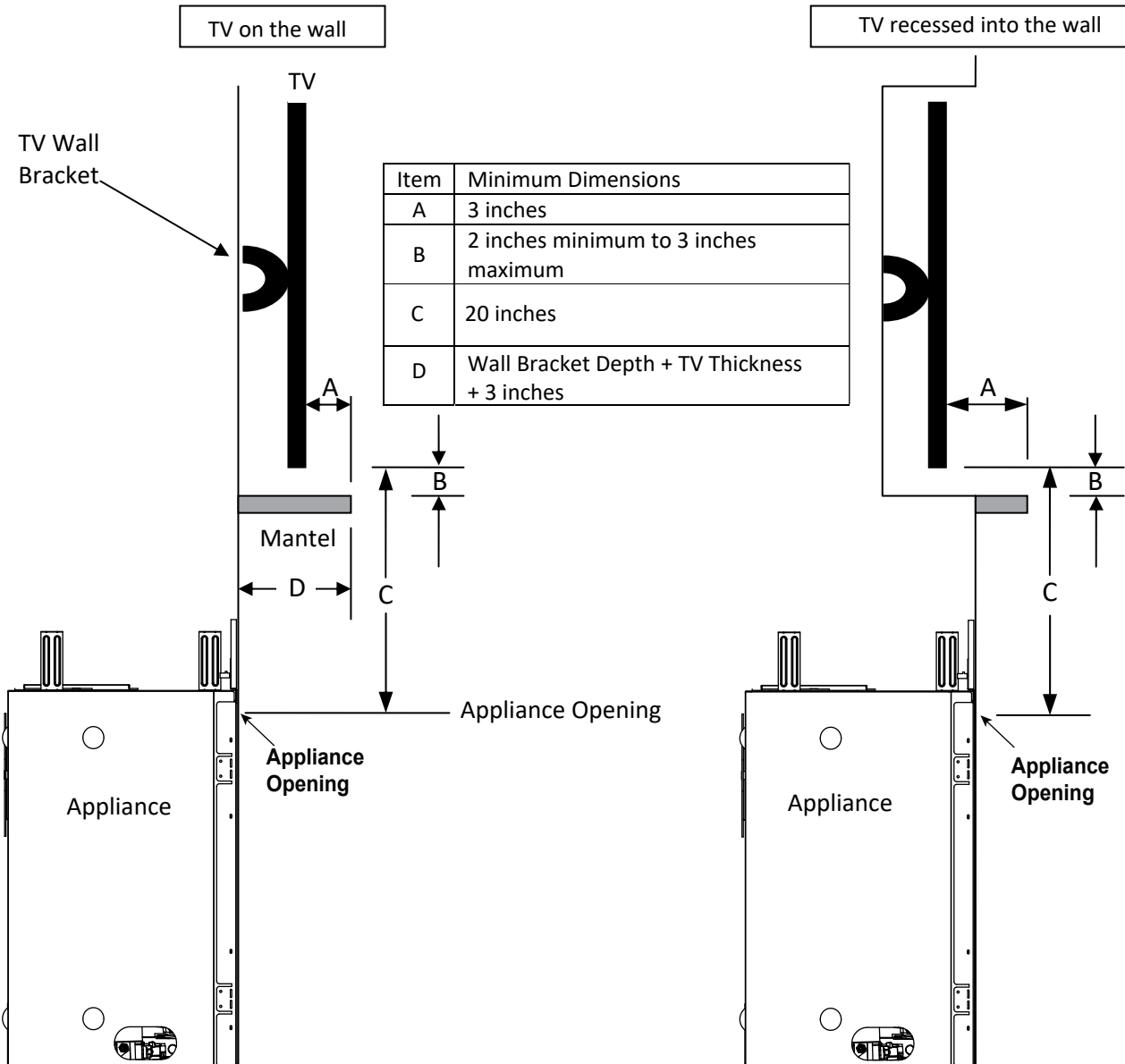


Figure 2.2 Good Faith Wall Surface Temperatures Above Appliance With Passive Heat Kit Installed

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



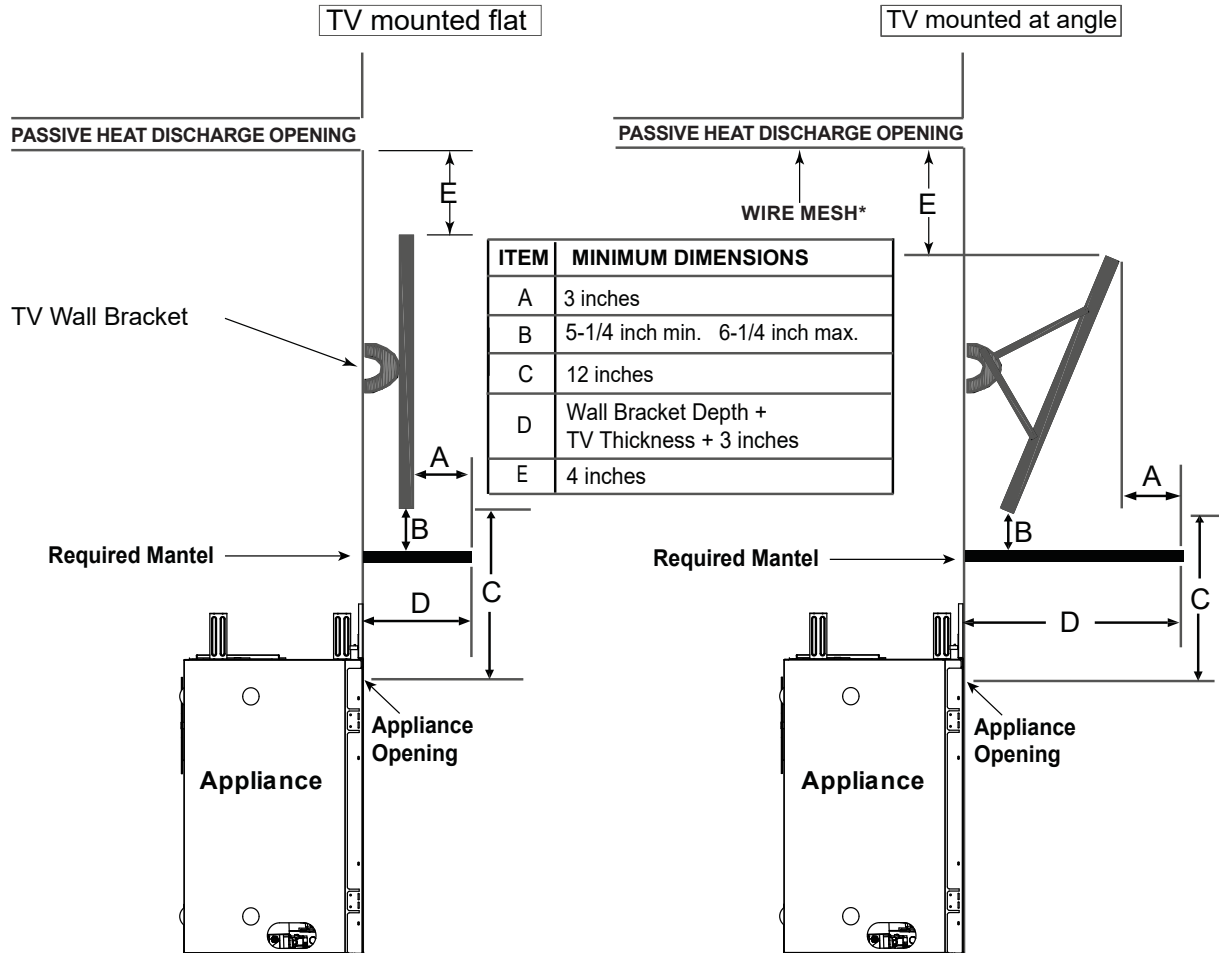
Notes:

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

Figure 2.3 Good Faith TV Guidelines

Good Faith Guidelines for TV Installations Above a Fireplace with Passive Heat Option and a Factory-Installed Fan

NOTICE: A mantel is required when the Passive Heat option is installed.
The combination of heat from the Passive Heat and the factory-installed fan could reduce the life expectancy of the TV if a mantel is not present.



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

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

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

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

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

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

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

Notes:

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

Figure 2.4 Good Faith Guidelines - Passive Heat Kit Installed

C. Tools and Supplies Needed

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

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

D. Inspect Appliance and Components

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

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

- Carefully remove the appliance and components from the packaging.
- The vent system components, refractory and decorative barrier fronts may be shipped in separate packages.
- If packaged separately, the log set must be installed.
- Report to your dealer any parts damaged in shipment.
- This product is factory-equipped with an IntelliFire® Touch remote control, which was paired to the appliance at the factory. This specific remote control needs to remain with the contents of the manual bag. Do not install batteries in the remote control until performing the final appliance setup and checklist.

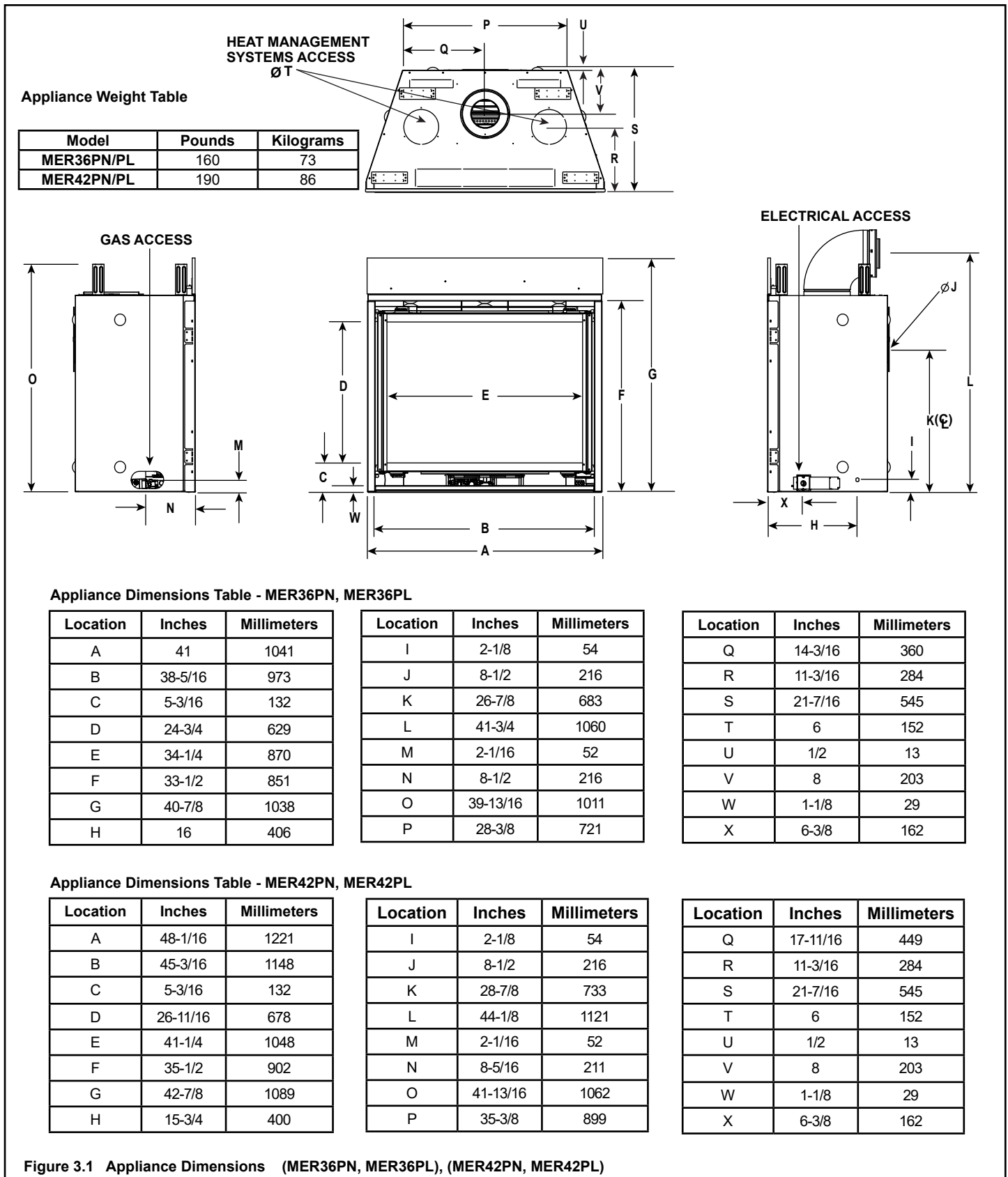
Hearth & Home Technologies disclaims any responsibility for, and the warranty will be voided by, the following actions:

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

3 Framing and Clearances

A. Appliance Weights and Dimensions

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



B. Decorative Barrier Front Dimension Diagrams

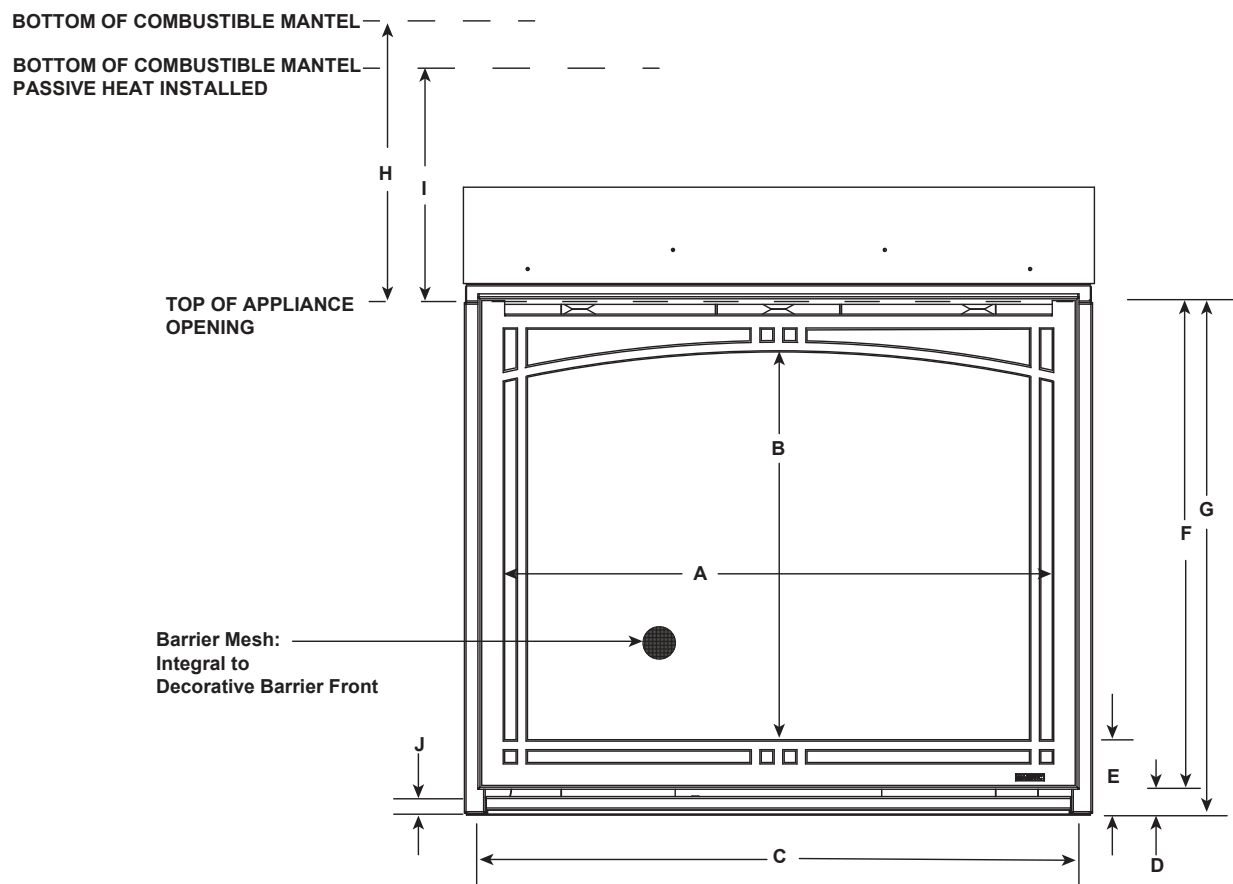
MANOR DECORATIVE BARRIER FRONTS

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

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

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

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



			A	B	C	D	E	F	G
MER36P	MANOR36	in.	32-15/16	25-9/16	39-5/16	1-1/2	4-3/4	32-7/16	33-15/16
		mm	837	649	999	38	121	824	862
MER42P	MANOR42	in.	39-8/16	27-3/8	46-5/16	1-1/2	4-3/4	34-7/16	35-15/16
		mm	1003	695	1176	38	121	875	913

			H Minimum Combustible Mantel Height at 12 Inch Mantel Depth (No Passive Heat)	I Minimum Combustible Mantel Height at 12 Inch Mantel Depth with Passive Heat Installed	J Bottom of Appliance to Top of Bottom Surround
MER36P	MANOR36	in.	19	6	1-1/8
		mm	483	152	29
MER42P	MANOR42	in.	19	6	1-1/8
		mm	483	152	29

➔ Figure 3.2 Decorative Barrier Front Dimensions - MANOR

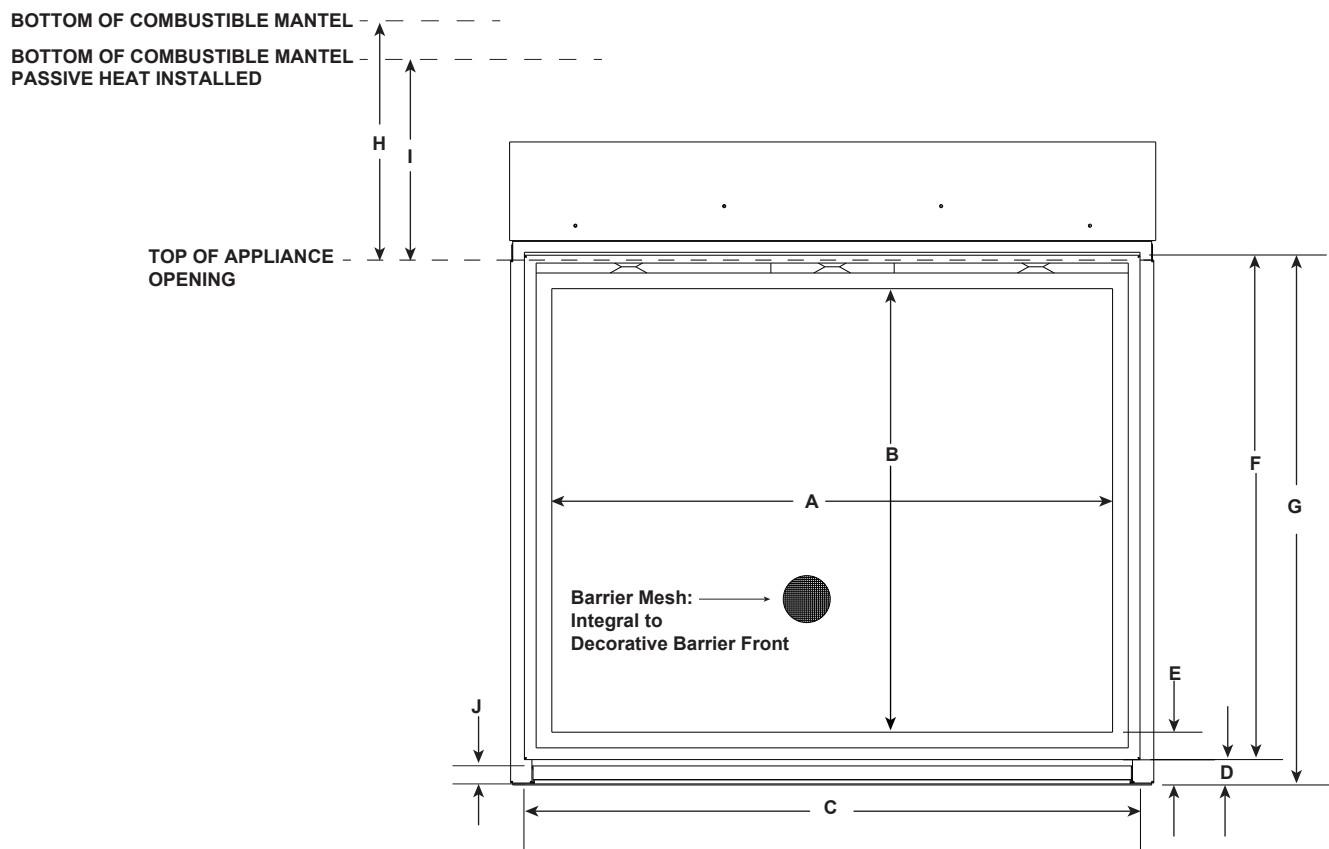
ENSEMBLE DECORATIVE BARRIER FRONTS

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

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

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

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



			A	B	C	D	E	F	G
MER36P	ENSEMBLE36	in.	35-13/16	28-5/16	39-5/16	1-9/16	3-5/16	32-7/16	34
		mm	910	719	999	40	84	824	864
MER42P	ENSEMBLE42	in.	42-13/16	30-5/16	46-5/16	1-9/16	3-5/16	34-7/16	36
		mm	1087	770	1176	40	84	875	914

			H Minimum Combustible Mantel Height at 12 Inch Mantel Depth (No Passive Heat)	I Minimum Combustible Mantel Height at 12 Inch Mantel Depth with Passive Heat Installed	J Bottom of Appliance to Top of Bottom Surround
MER36P	ENSEMBLE36	in.	19	6	1-1/8
		mm	483	152	29
MER42P	ENSEMBLE42	in.	19	6	1-1/8
		mm	483	152	29

Figure 3.3 Decorative Barrier Front Dimensions - ENSEMBLE

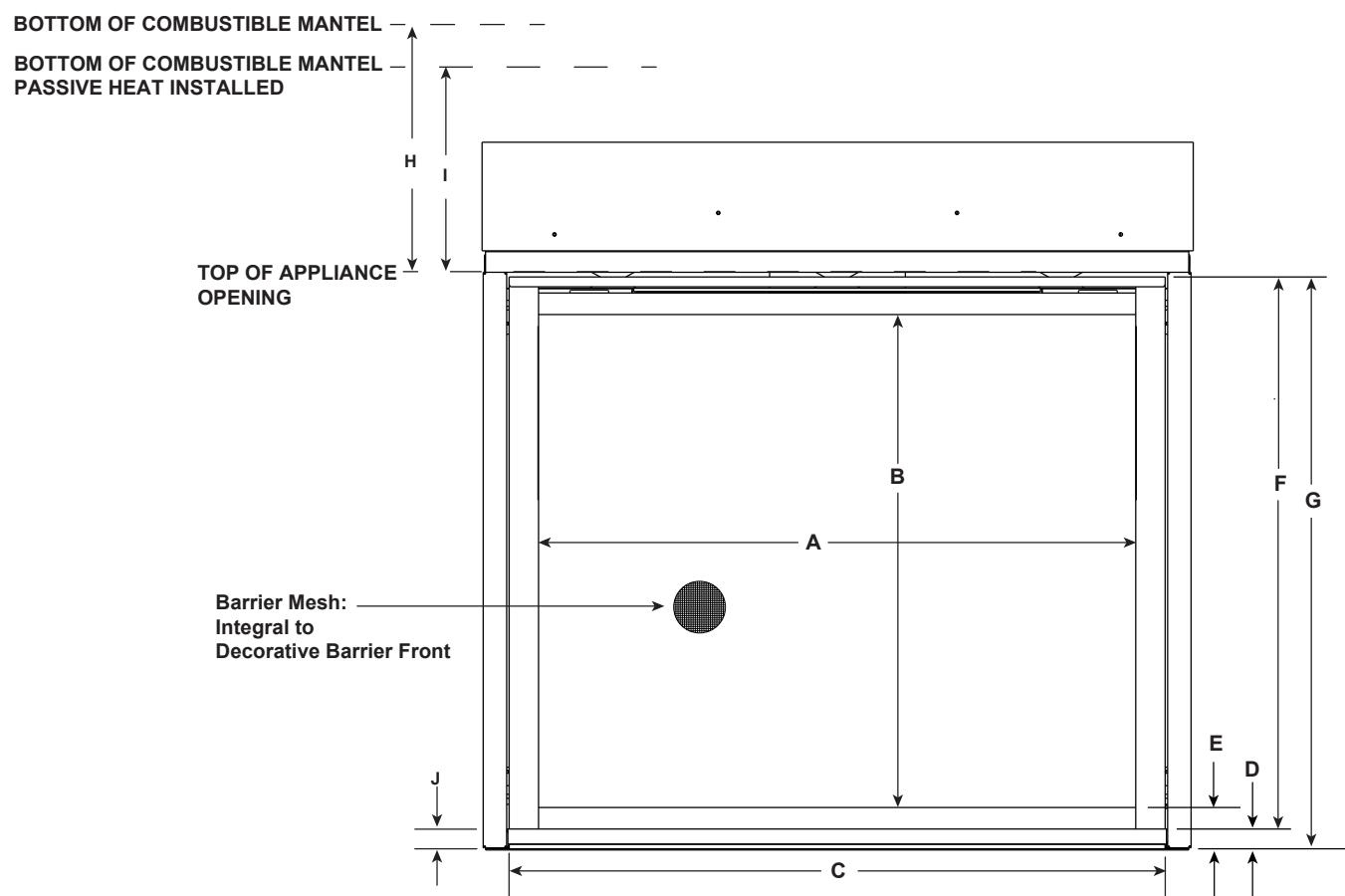
ESSENCE DECORATIVE BARRIER FRONTS

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

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

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

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



			A	B	C	D	E	F	G
MER36P	ESSENCE36BK	in.	34-11/16	28-11/16	38	1-3/8	2-5/8	32	33-3/8
		mm	881	729	965	35	67	813	848
MER42P	ESSENCE42BK	in.	41-3/4	30-5/8	45-1/16	1-3/8	2-5/8	34	35-3/8
		mm	1061	778	1145	35	67	864	899

			H Minimum Combustible Mantel Height at 12 Inch Mantel Depth (No Passive Heat)	I Minimum Combustible Mantel Height at 12 Inch Mantel Depth with Passive Heat Installed	J Bottom of Appliance to Top of Bottom Surround
MER36P	ESSENCE36BK	in.	19	6	1-1/8
		mm	483	152	29
MER42P	ESSENCE42BK	in.	19	6	1-1/8
		mm	483	152	29

Figure 3.4 Decorative Barrier Front Dimensions - ESSENCE

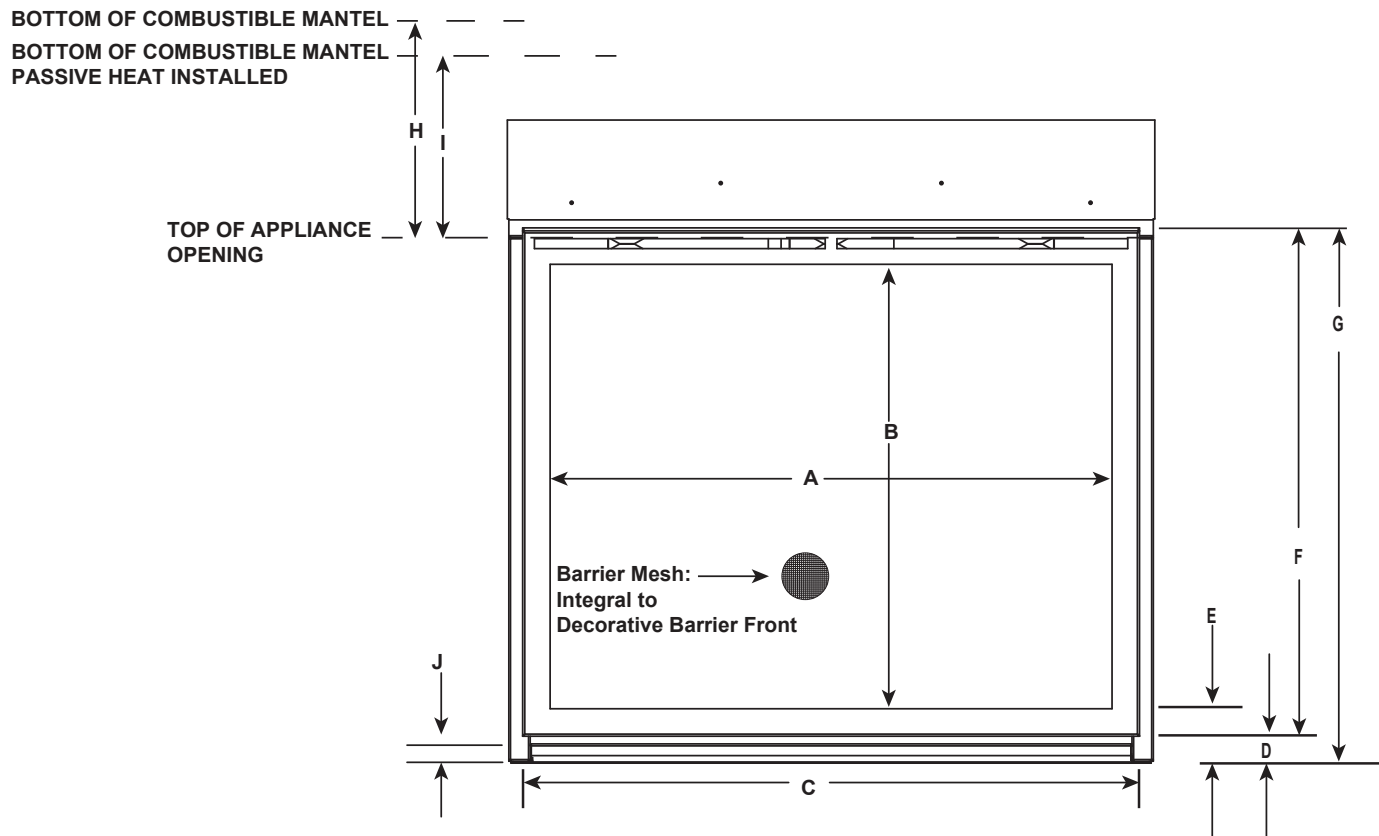
VENTURA DECORATIVE BARRIER FRONTS

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

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

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

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



			A	B	C	D	E	F	G
MER36P	VENTURA36	in.	35-13/16	28-5/16	39-5/16	1-9/16	3-5/16	32-7/16	34
		mm	910	719	999	40	84	824	864
MER42P	VENTURA42	in.	42-13/16	30-5/16	46-5/16	1-9/16	3-5/16	34-7/16	36
		mm	1087	770	1176	40	84	875	914

			H Minimum Combustible Mantel Height at 12 Inch Mantel Depth (No Passive Heat)	I Minimum Combustible Mantel Height at 12 Inch Mantel Depth with Passive Heat Installed	J Bottom of Appliance to Top of Bottom Surround
MER36P	VENTURA36	in.	19	6	1-1/8
		mm	483	152	29
MER42P	VENTURA42	in.	19	6	1-1/8
		mm	483	152	29

Figure 3.5 Decorative Barrier Front Dimensions - VENTURA

C. Appliance Location and Clearances to Combustibles

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

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

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

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

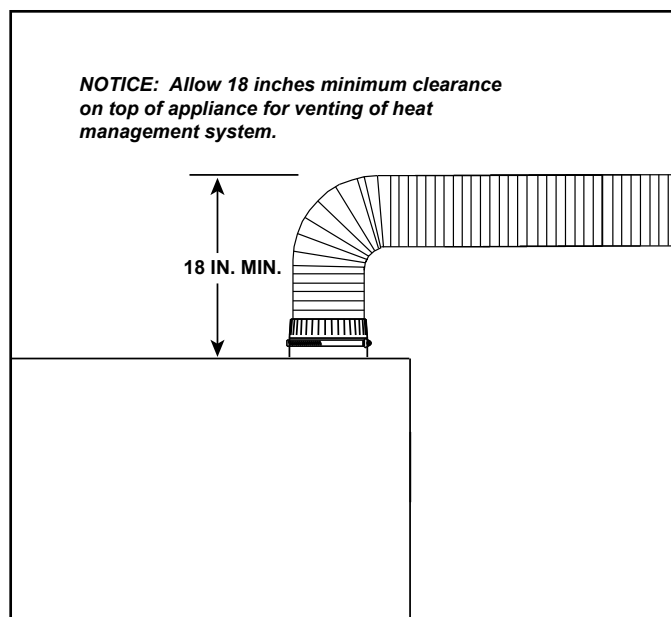


Figure 3.6 Clearance for Heat Management System

Protected Outdoor Applications

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

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

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

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

For Example:

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

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

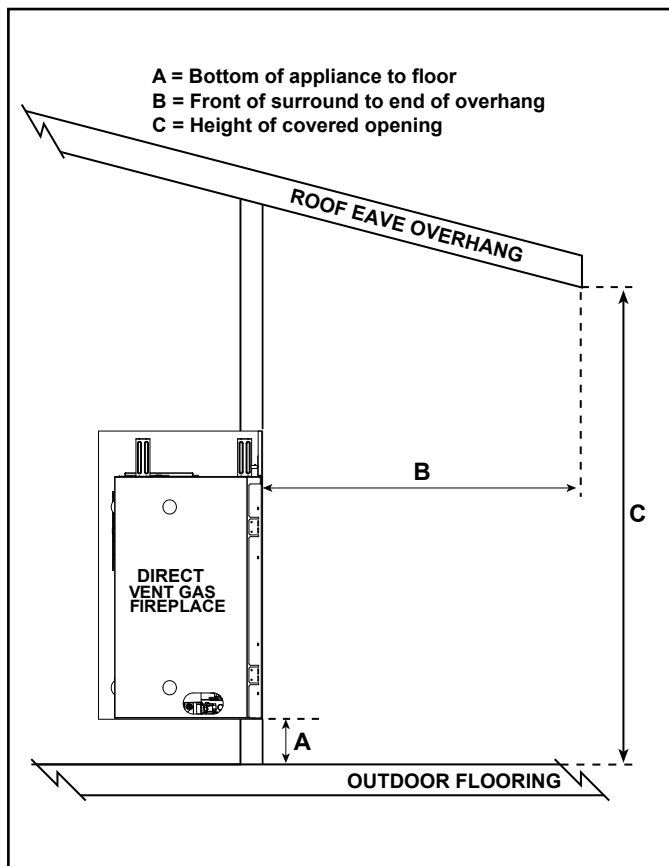
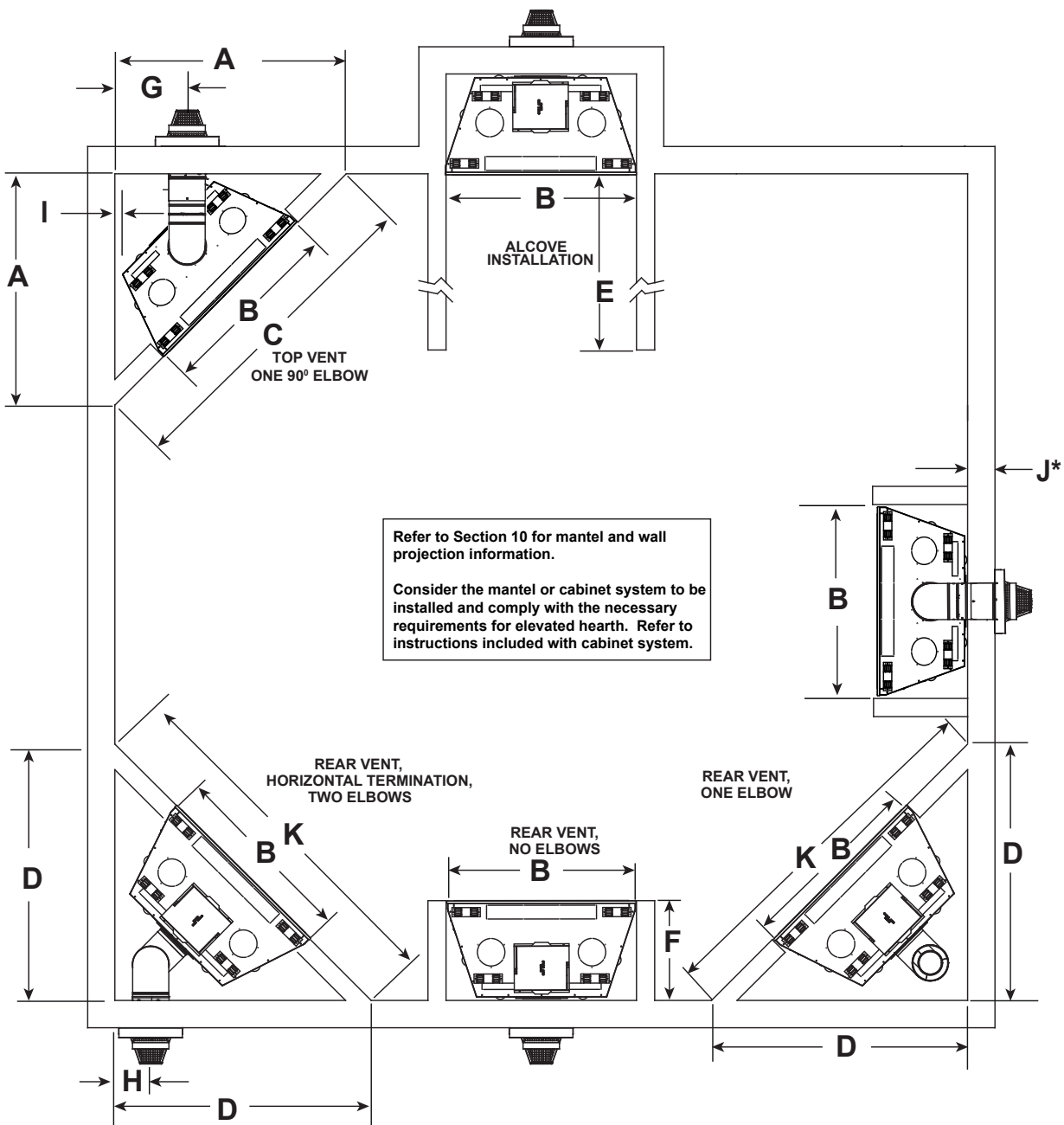


Figure 3.7 Protected Outdoor Applications - Dimensions



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

		A	B	C	D	E
MER36P	IN.	51	42	72	56-5/8	See Section 10 Mantel Projections
	mm	1295	1067	1829	1438	
MER42P	IN.	55-7/8	49	79	61-1/2	
	mm	1419	1245	2007	1562	

		F	G	H	I	J*	K
MER36P	IN.	22	17-3/4	8	1/2	For terminations through a 2 x 4 wall, see Figure 3.9.	80-1/8
	mm	559	451	203	13		2035
MER42P	IN.	22	19-3/4	10	1/2		87
	mm	559	502	254	13		2210

Figure 3.8 Appliance Locations

Top Vent DVP-TRAP1 Exception

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

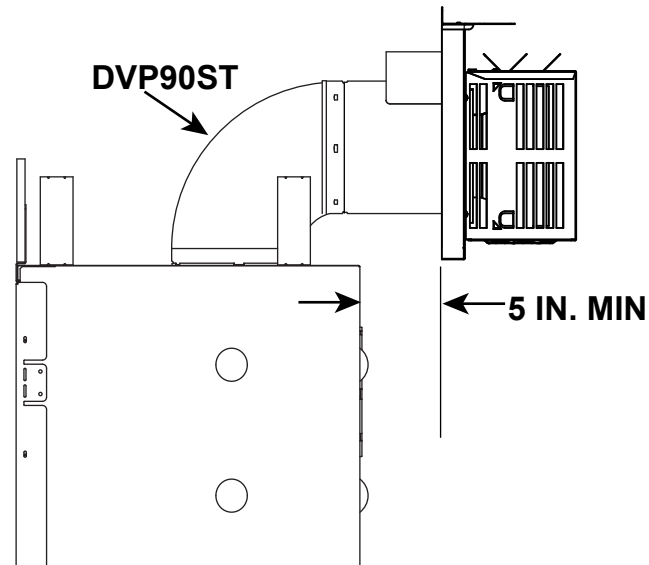
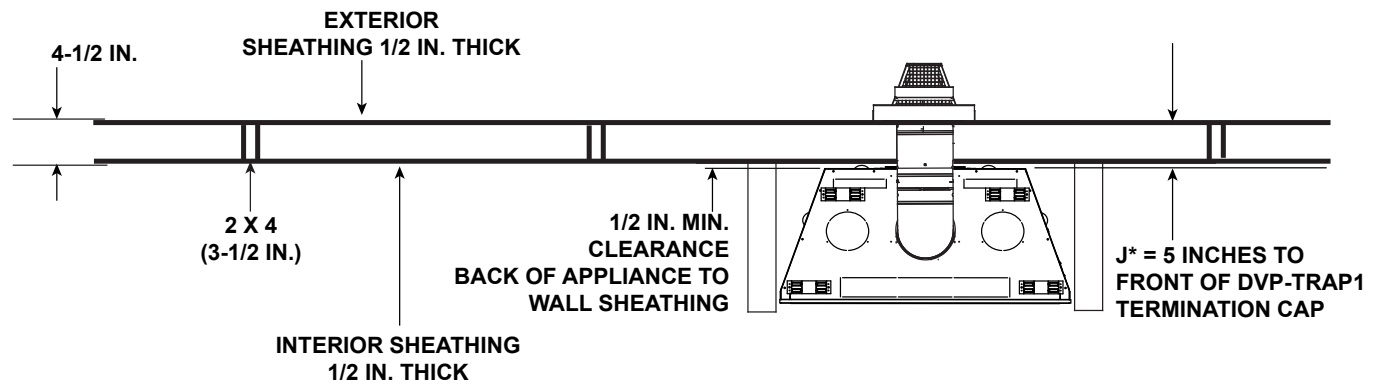
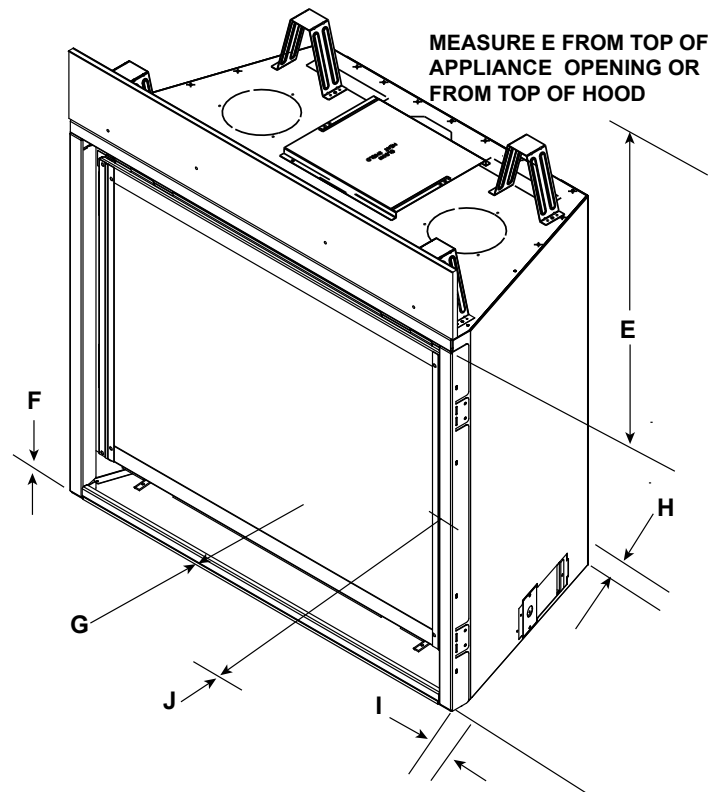
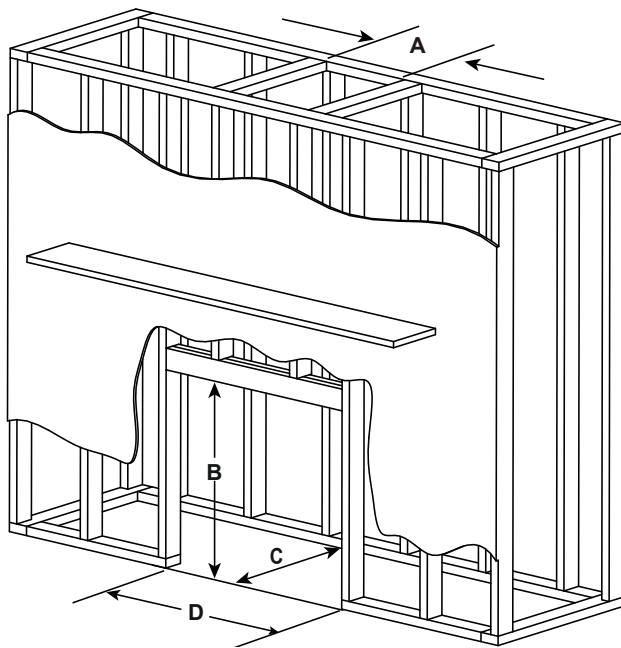


Figure 3.9 DVP-TRAP1 Exception (2 x 4 Construction)



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

* MINIMUM FRAMING DIMENSIONS									
		A	B	C**	D	E	F	G***	H
		Rough Opening (Vent Pipe)	Rough Opening (Height)	Rough Opening (Depth)	Rough Opening (Width)	Clearance to Room Ceiling	Combustible Floor	Minimum Hearth Required	Behind Appliance
MER36P	Inches	10	40-1/8	22	42	32	0	0	1/2
	Millimeters	254	1019	559	1067	813	0	0	13
MER42P	Inches	10	42-1/8	22	49	32	0	0	1/2
	Millimeters	254	1070	559	1245	813	0	0	13

* MINIMUM FRAMING DIMENSIONS			
		I	J
		Sides of Appliance	Front of Appliance
MER36P	Inches	1/2	36
	Millimeters	13	914
MER42P	Inches	1/2	36
	Millimeters	13	914

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

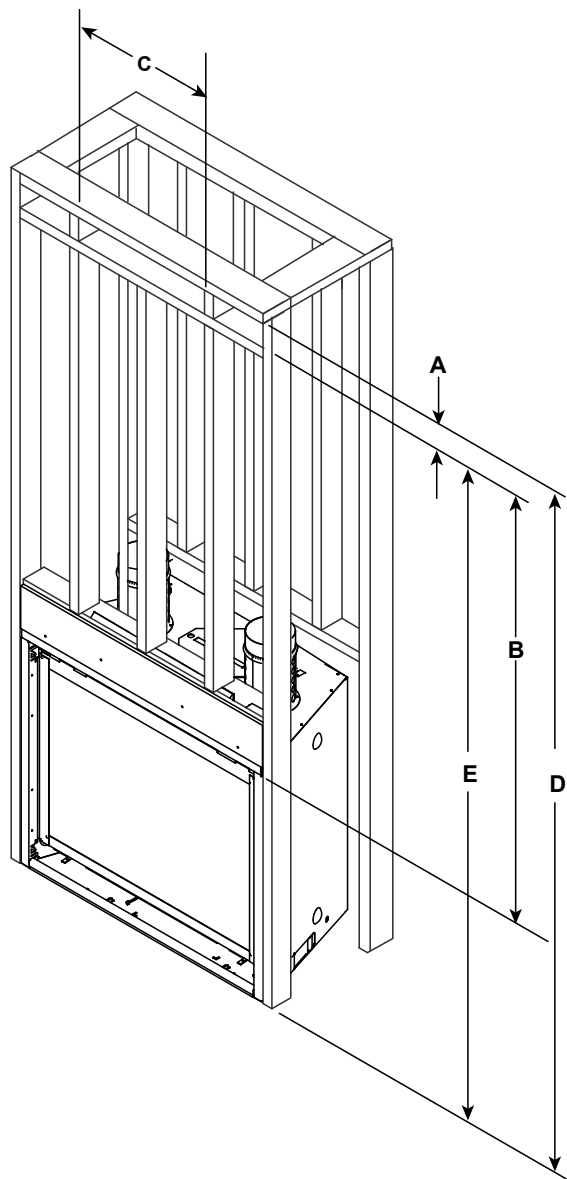
C** Add 12 inches for rear venting with one 90 degree elbow.

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

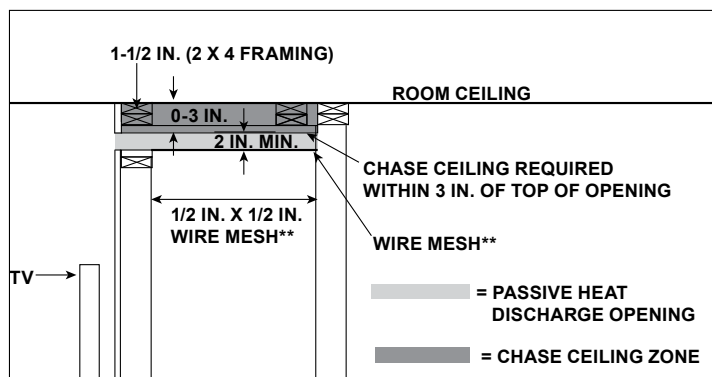
Figure 3.10 Clearances to Combustibles

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

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



CHASE DETAIL



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

FRONT DISCHARGE MINIMUM FRAMING DIMENSIONS

		A		B	C	D	E
		TRIM KIT* INSTALLED	NO TRIM KIT**				
		Required Height of Discharge Opening	Height of Discharge Opening				
MER36P	Inches	3-1/2	2	41	36-1/2	76-1/2	74-1/2
	millimeters	89	51	1041	927	1943	1892
MER42P	Inches	3-1/2	2	41	42-1/2	78-1/2	76-1/2
	millimeters	89	51	1041	1080	1994	1943

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

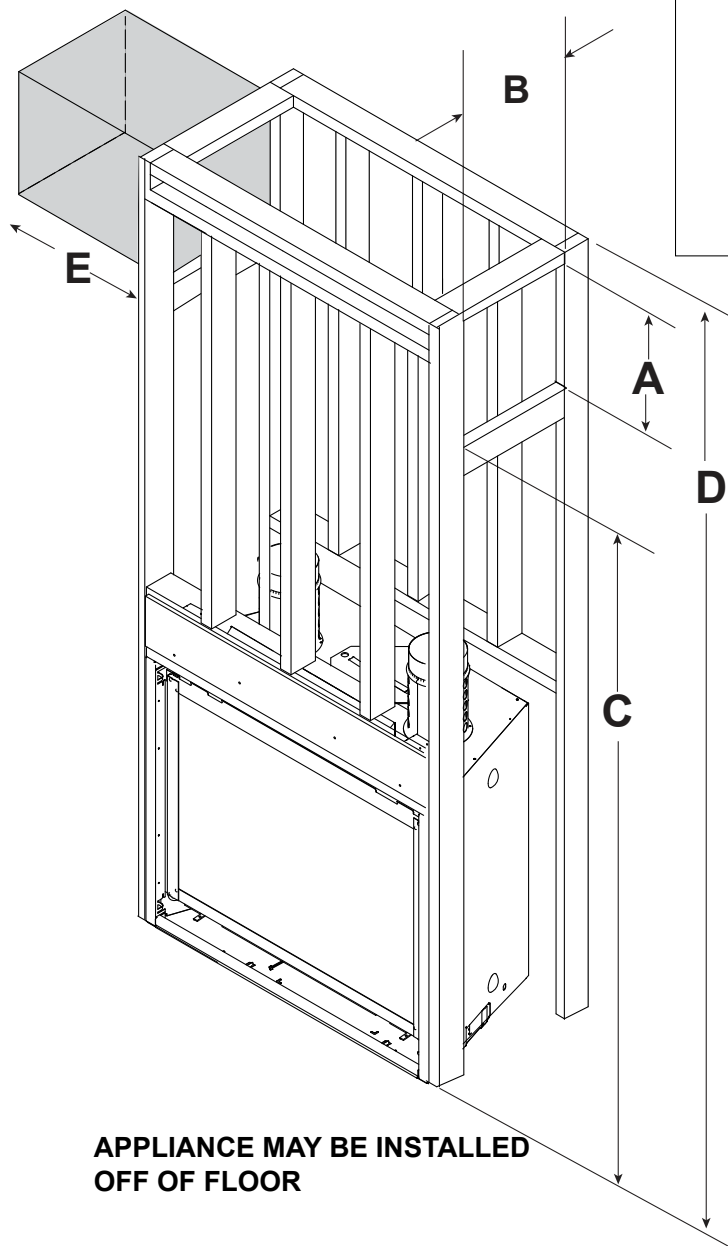
** Measurement without Trim Kit = 2 in. + Additional Finishing Material Thickness. If finished discharge opening height is greater than 3 inches, wire mesh is required.

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

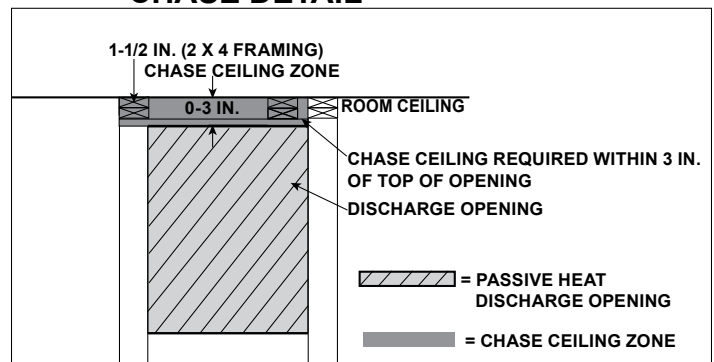
Framing Dimensions - Passive Heat Side Discharge (PH-MR)

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

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



CHASE DETAIL



SIDE DISCHARGE FRAMING DIMENSIONS

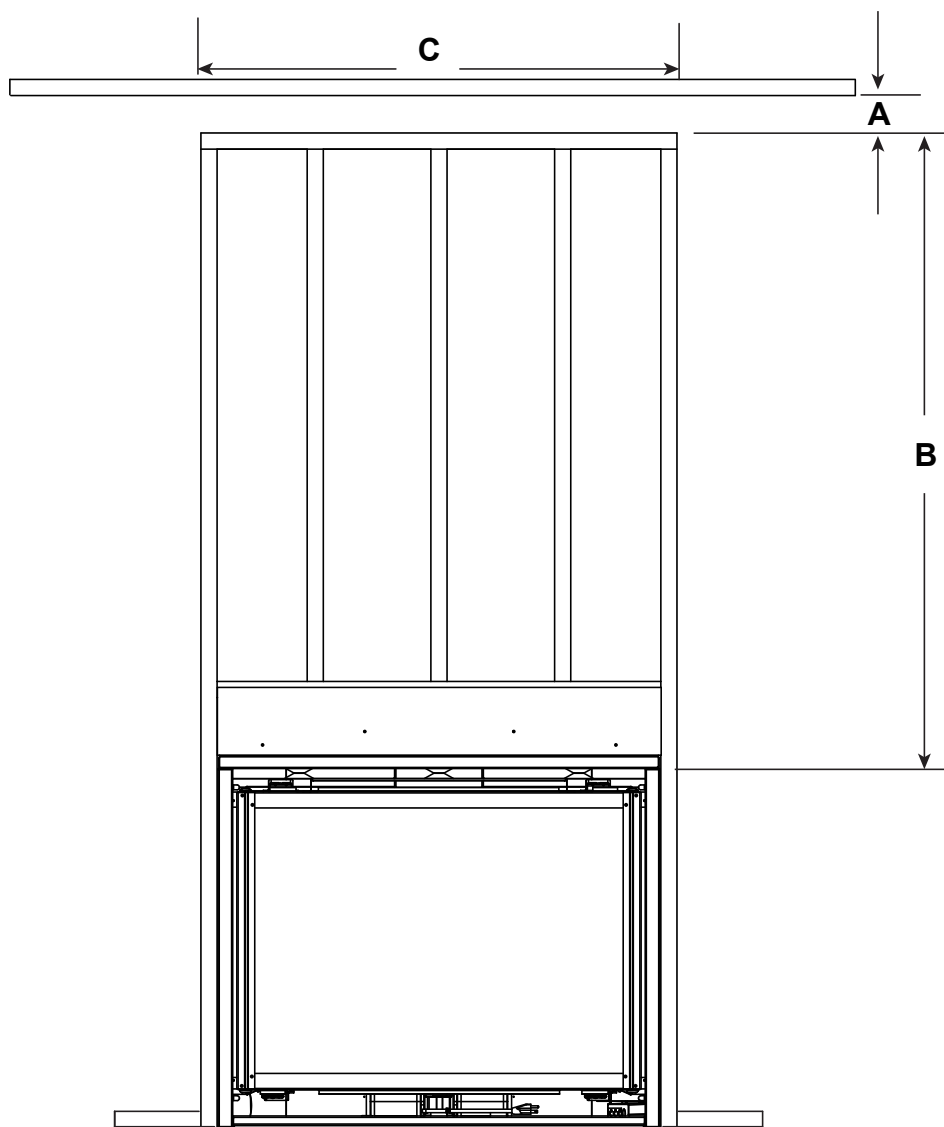
		A	B	C	D	E
		Height of Discharge Opening	Width of Discharge Opening	Minimum Clearance to Discharge Opening From Bottom of Appliance	Minimum Clearance to Ceiling from Bottom of Appliance	Minimum Clearance to Combustible Materials
MER36P MER42P	Inches	12-1/4	8-3/4	68-1/4	83-1/2	18
	millimeters	311	222	1734	2121	457

Figure 3.12 Passive Heat Side Discharge Framing Dimensions

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

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

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



OPEN TOP DISCHARGE MINIMUM FRAMING DIMENSIONS				
		A*	B	C
		Height of Discharge Opening	Clearance to Discharge Opening	Width of Discharge Opening
MER36P	Inches	2	41	36-1/2
	millimeters	51	1041	927
MER42P	Inches	2	41	42-1/2
	millimeters	51	1041	1080

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

Figure 3.13 Passive Heat Minimum Framing Dimensions Open Top Discharge

D. Constructing the Appliance Chase

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

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

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

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

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

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

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

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

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

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

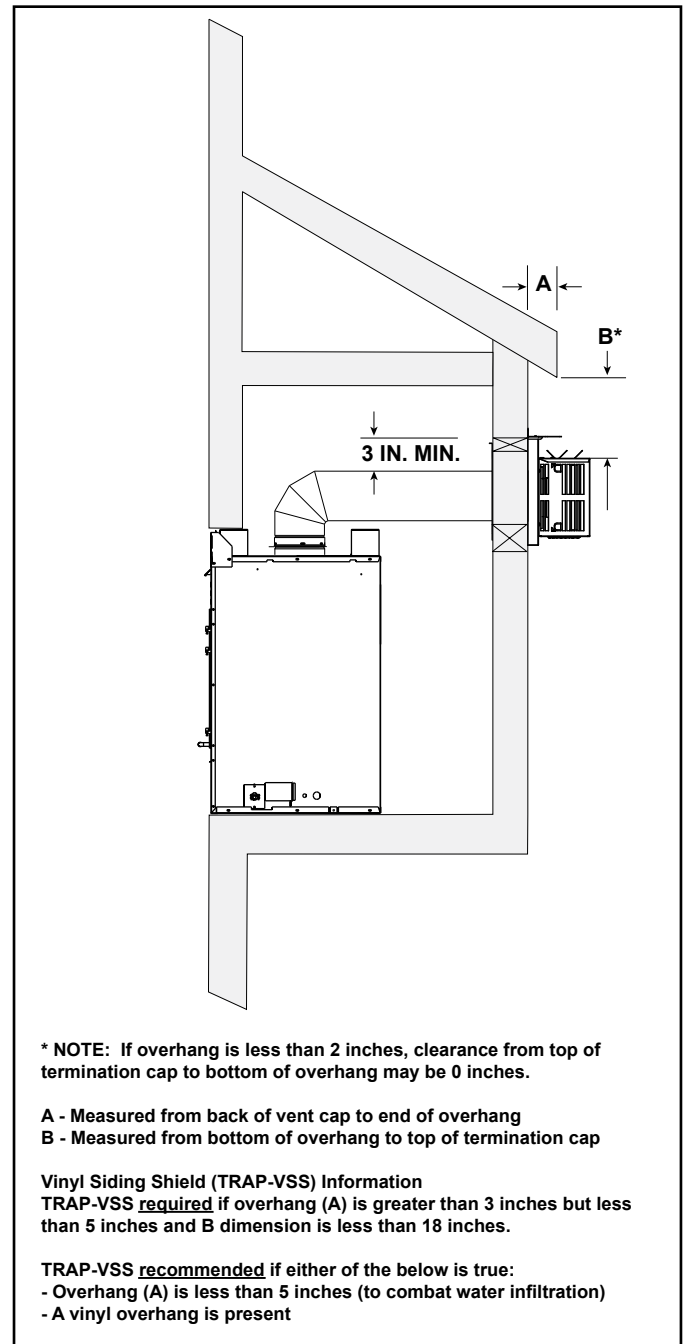


Figure 3.14 Exterior Chase - Minimum Height Requirements

E. Floor Protection

Vinyl Flooring

Vinyl flooring is sensitive to heat. To avoid damage to the vinyl flooring, a 12 inch minimum x 12 inch minimum hearth is recommended when using vinyl flooring up to the wall. See Figure 3.15. If no hearth is used, it is recommended to provide a minimum of 30 inches of clearance in front of the appliance to the vinyl flooring OR the bottom of the appliance should be raised a minimum of 24 inches off of the floor to allow the vinyl flooring to be installed up to the wall.

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

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

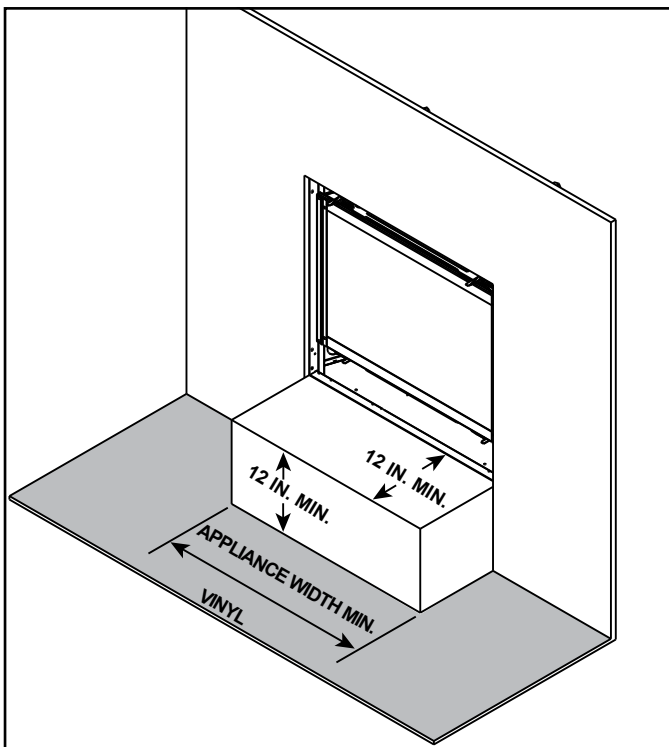


Figure 3.15 Vinyl Flooring Recommendations

- Combustible flooring may be located in front of the appliance. There are exceptions in regards to vinyl and/or adhesive flooring for these models as noted in Figure 3.15.

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

- Flooring and hearth material is allowed up to, but not above, the top of the bottom surround in order to allow for proper air flow from appliance. See Figure 3.16.
- The base of the fireplace may sit on a combustible surface.

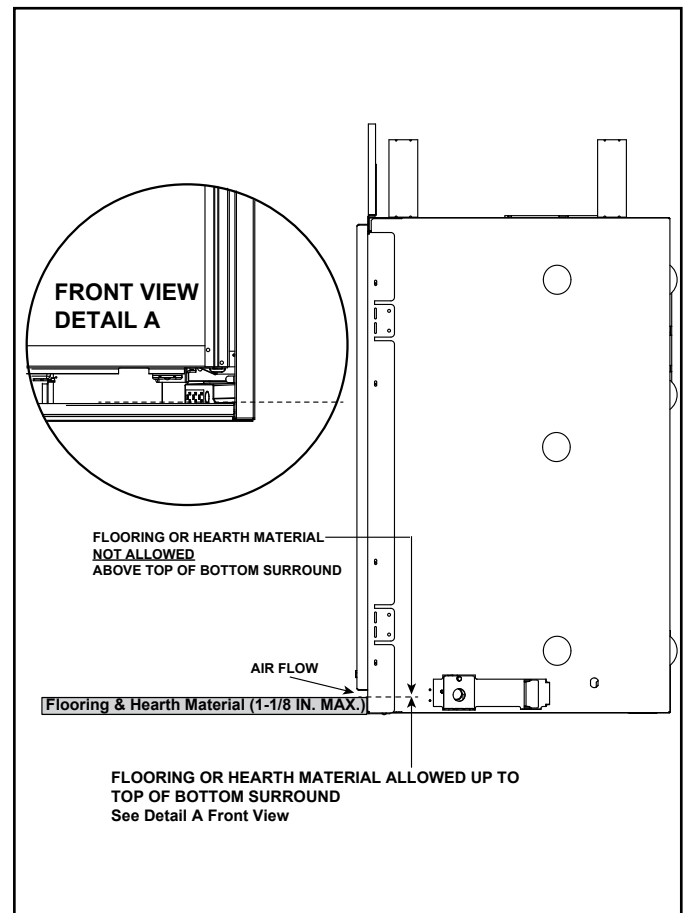


Figure 3.16 Flooring & Hearth Material Allowed

4 Termination Location and Vent Information

A. Approved Pipe

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

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

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

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

B. Vent Termination Minimum Clearances

⚠ WARNING

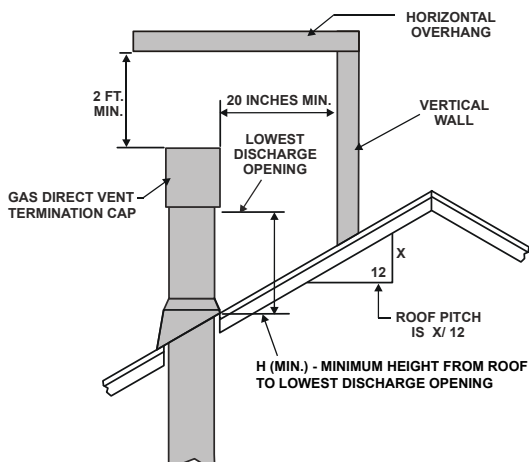


Fire Risk.

Maintain vent clearance to combustibles as specified.

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

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



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

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

Figure 4.1 Minimum Height From Roof to Lowest Discharge Opening

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

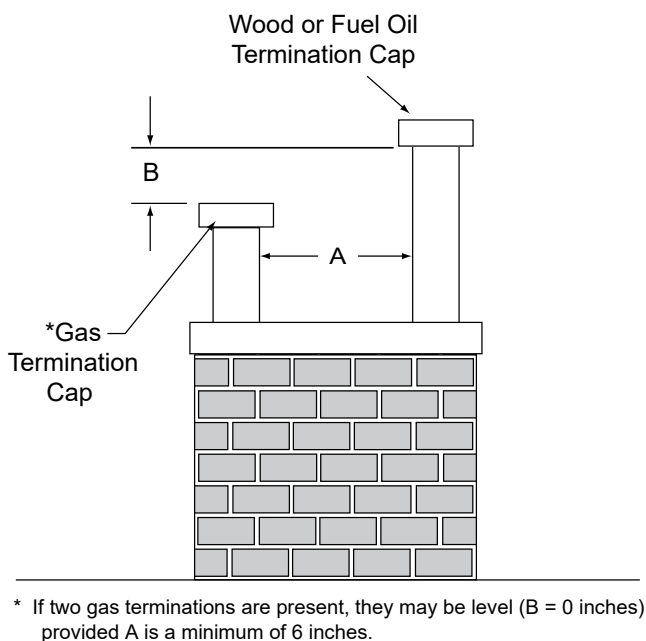


Figure 4.2 Staggered Termination Caps

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

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

B. Vent Termination Minimum Clearances (continued)

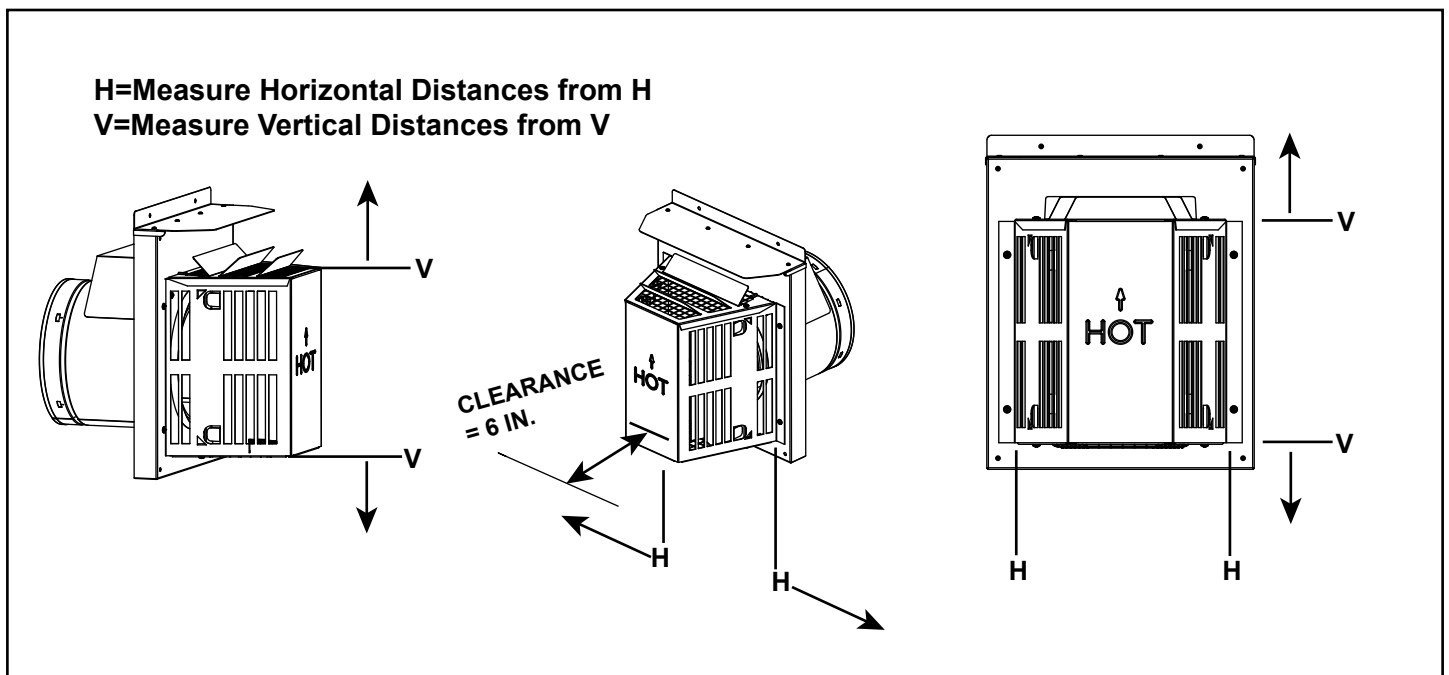


Figure 4.3

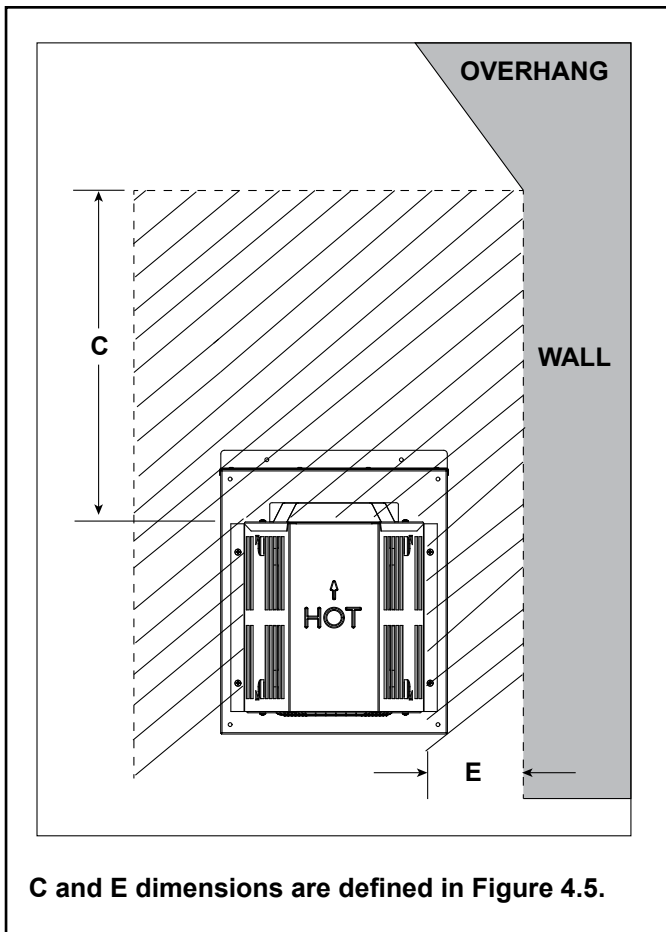
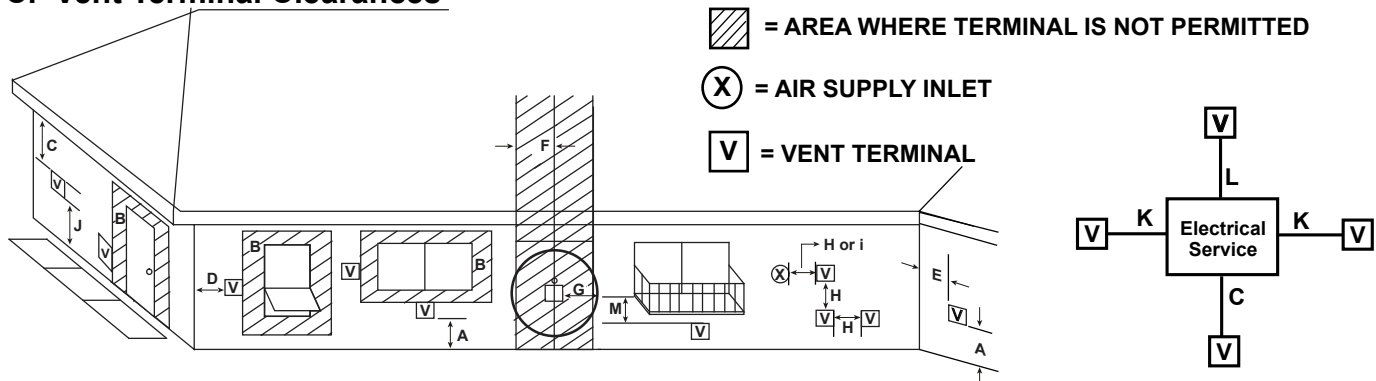


Figure 4.4 Measure Horizontal and Vertical Termination Clearance to Trapezoid Portion of Cap

C. Vent Terminal Clearances



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

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

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

Figure 4.5 Minimum Clearances for Termination

D. Use of Elbows

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

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

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

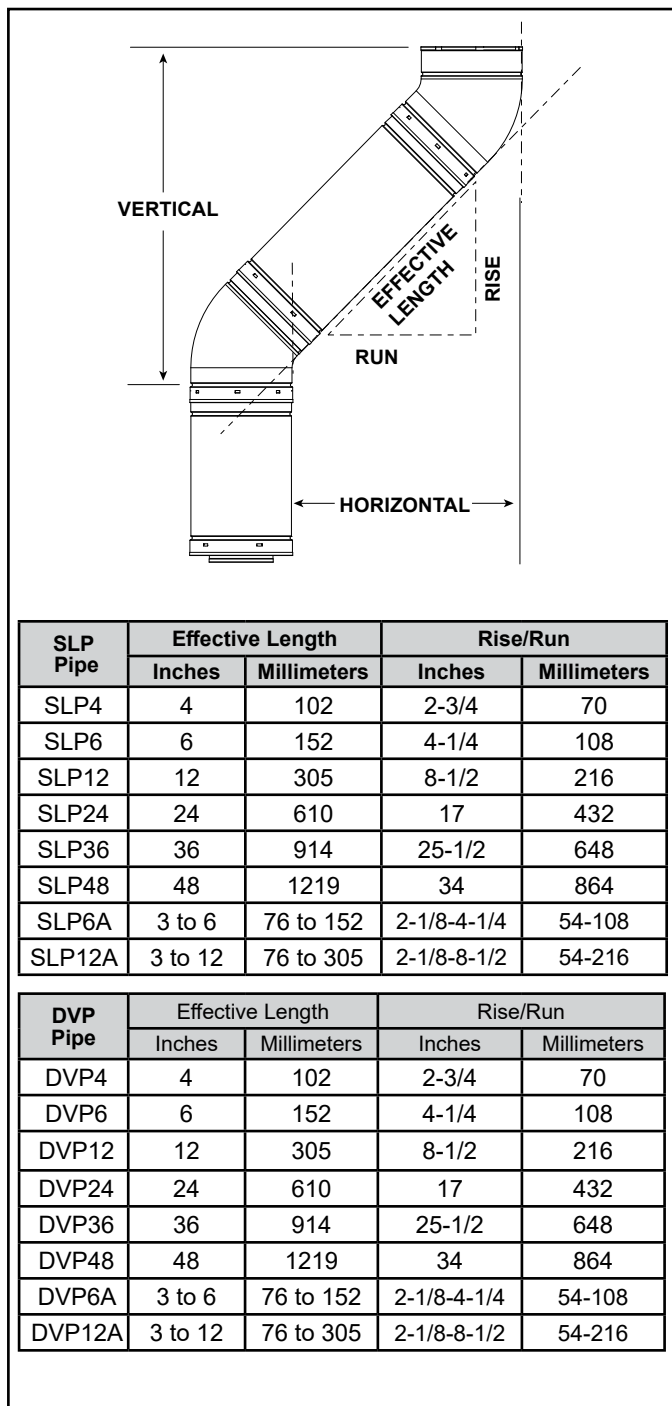


Figure 4.6

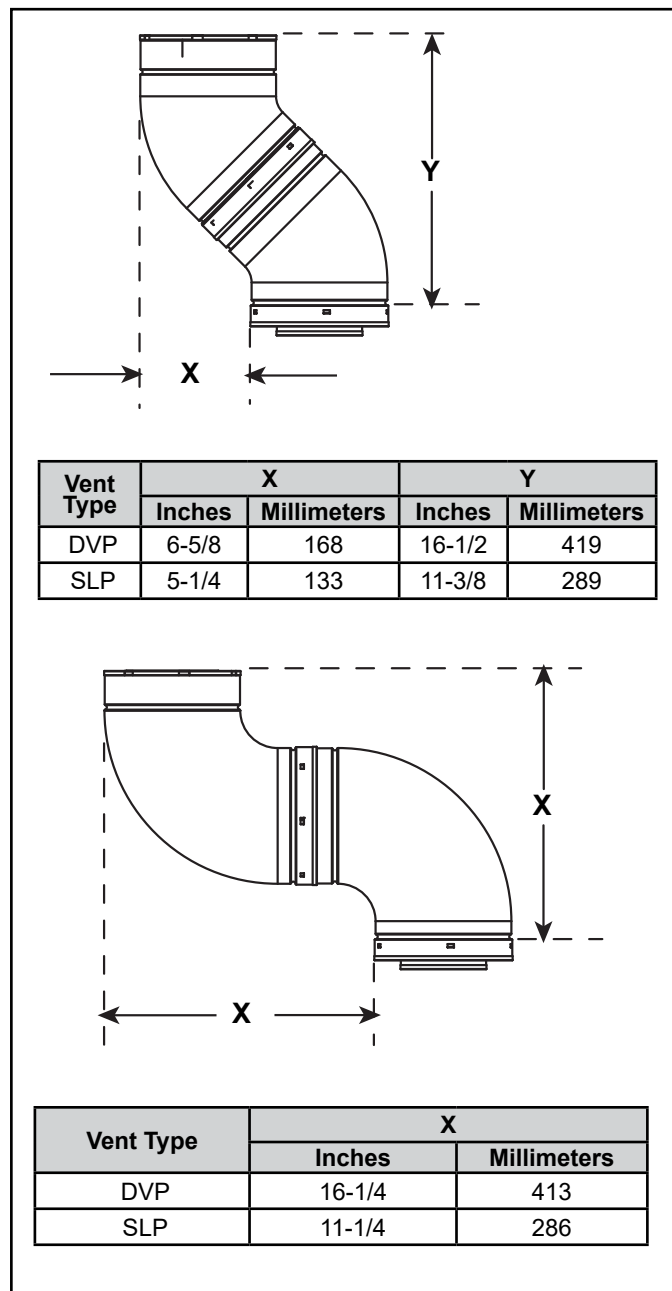


Figure 4.7 Vertical and Horizontal Offset for DVP and SLP Elbows

E. Vent Diagrams

General Rules:

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

If venting configuration differs from the vent diagrams on the following pages (Figure 4.11-4.26), these rules also apply:

- SUBTRACT 3 ft from the total H measurement for each 90° elbow installed horizontally.
- SUBTRACT 1-1/2 ft from the total H measurement for each 45° elbow installed horizontally.
- A maximum of three 90° elbows (or six 45° elbows) may be used in any vent configuration. Some elbows may be installed horizontally. See Figure 4.18.
- Elbows may be placed back to back anywhere in the system.
- Any 90° elbow may be replaced with two back to back 45° elbows.
- 2 x 45° elbow jog directly off the top of the fireplace is allowed but has no V or H value, is permitted when reducing to SLP pipe, and DOES NOT count towards total elbow count.

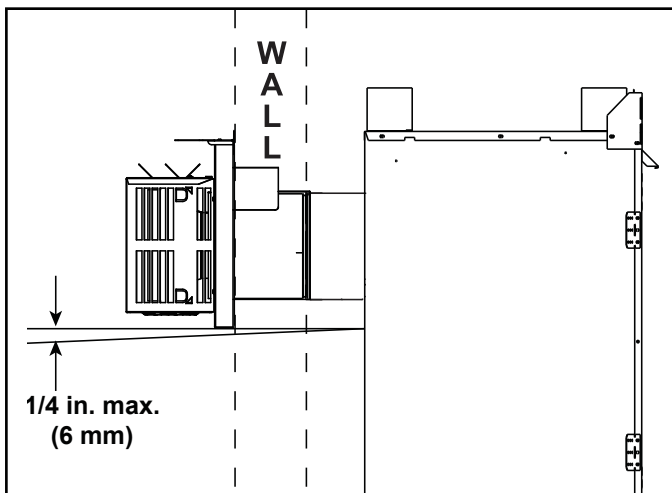


Figure 4.8

⚠ WARNING



Fire Risk. Explosion Risk.

Do NOT pack insulation or other combustibles between ceiling firestops.

- ALWAYS maintain specified clearances around venting and firestop systems.



- Install wall shield and ceiling firestops as specified.

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

⚠ WARNING



Fire Risk.

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

Note: The MER36P/MER42P series models can adapt to SLP series vent pipe, if desired.

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

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

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

MER36P

Example: DVP pipe 1 ft. min. vertical = 4 ft. max. horizontal
SLP pipe 5 ft. min. vertical = 4 ft. max. horizontal

MER42P

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

Measuring Standards:

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

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

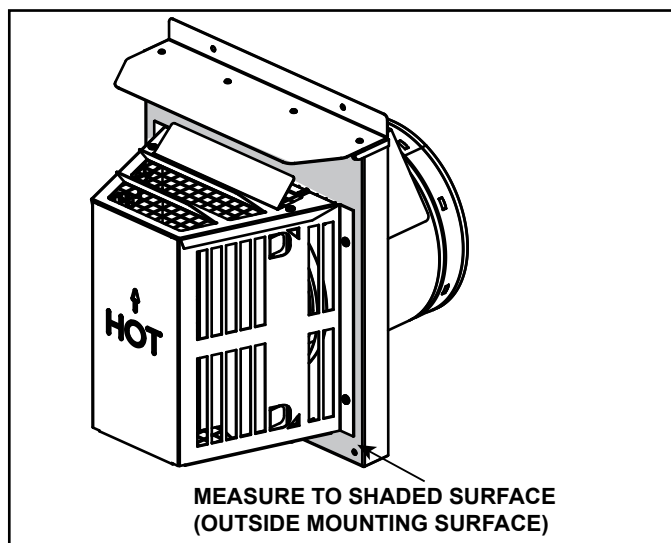


Figure 4.9 Measure to Outside Mounting Surface

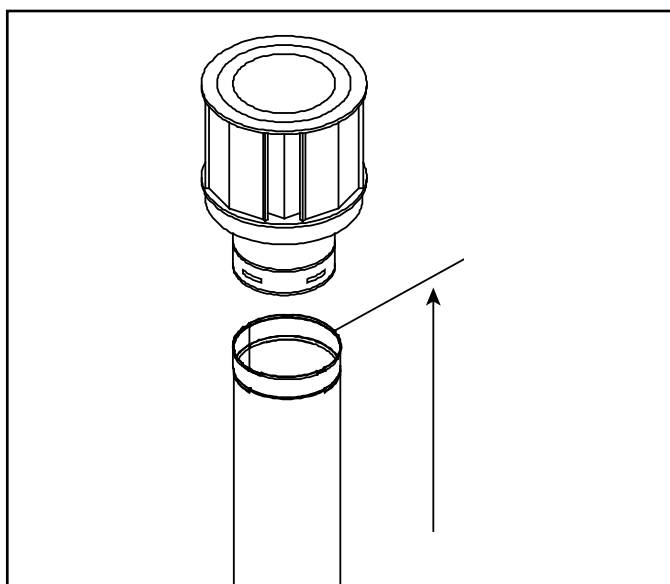


Figure 4.10 Measure to Top of Last Section of Pipe

Top Vent - Horizontal Termination

One Elbow

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

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

MER36PN, MER36PL			
V_1 Minimum		H_1 Maximum	
Elbow Only		2 ft.	610 mm
.5 ft.	152 mm	2.5 ft.	762 mm
1 ft.	305 mm	4 ft.	1.2 m
2 ft.	610 mm	8 ft.	2.4 m
3 ft.	914 mm	12 ft.	3.7 m
4 ft.	1.2 m	16 ft.	4.9 m
5 ft.	1.5 m	20 ft.	6.1 m
$V_1 + H_1 = 40$ ft. (12.2 m) Maximum			
$H_1 = 20$ ft. (6.1 m) Maximum			

MER42PN, MER42PL			
V_1 Minimum		H_1 Maximum	
Elbow Only		1.5 ft.	457 mm
.5 ft.	152 mm	2 ft.	610 mm
1 ft.	305 mm	3 ft.	914 mm
2 ft.	610 mm	6 ft.	1.8 m
3 ft.	914 mm	10 ft.	3.1 m
4 ft.	1.2 m	14 ft.	4.3 m
5 ft.	1.5 m	18 ft.	5.5 m
5.5 ft.	1.7	20	6.1 m
$V_1 + H_1 = 40$ ft. (12.2 m) Maximum			
$H_1 = 20$ ft. (6.1 m) Maximum			

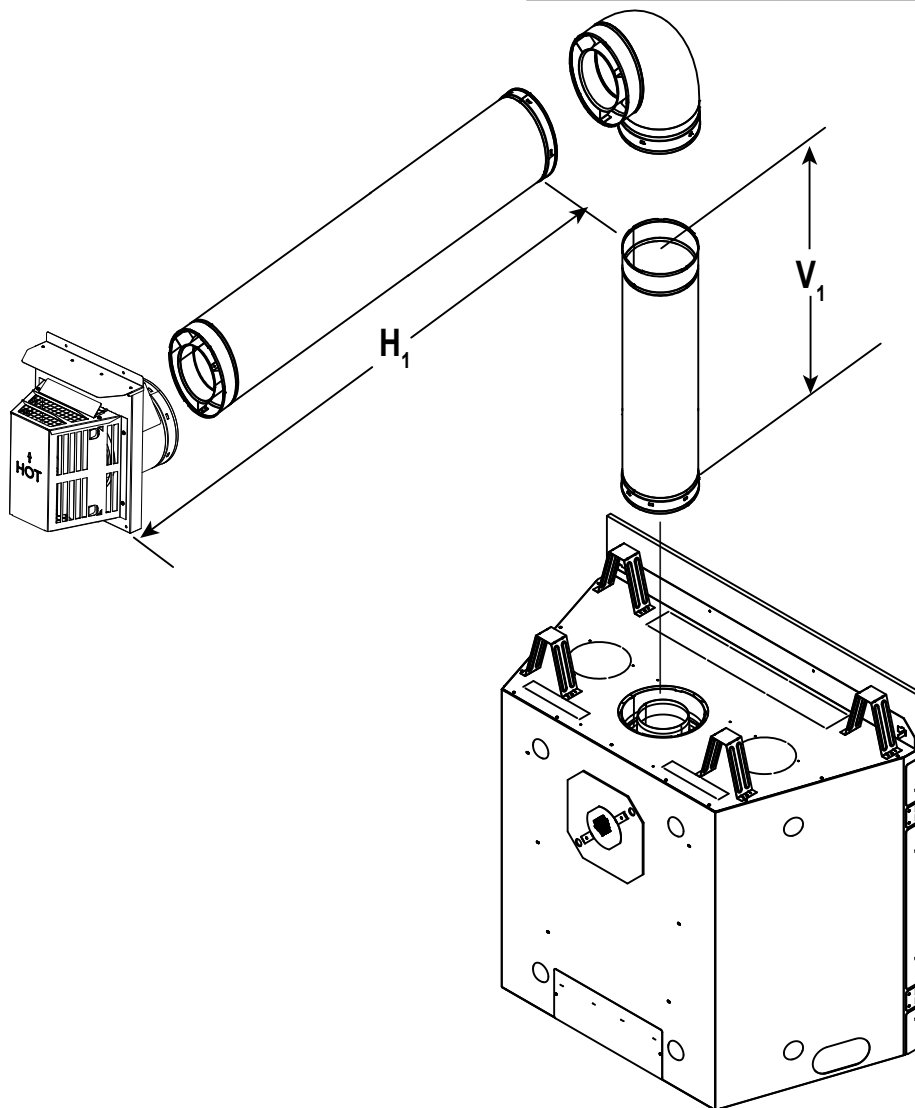


Figure 4.11

Top Vent - Horizontal Termination - (continued)

Two Elbows

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

MER36PN, MER36PL			
V_1 Minimum		$H_1 + H_2$ Maximum	
Elbow only		Not allowed	
.5 ft.	152 mm	1 ft.	305 mm
1 ft.	305 mm	3 ft.	914 mm
2 ft.	610 mm	6 ft.	1.8 m
3 ft.	914 mm	10 ft.	3.1 m
4 ft.	1.2 m	14 ft.	4.3 m
5 ft.	1.5 m	18 ft.	5.5 m
5.5 ft.	1.7	20 ft.	6.1 m
$V_1 + H_1 + H_2 = 40$ ft. (12.2 m) Maximum $H_1 + H_2 = 20$ ft. (6.1 m) Maximum			

MER42PN, MER42PL			
V_1 Minimum		$H_1 + H_2$ Maximum	
Elbow Only		Not Allowed	
.5 ft.	152 mm	1 ft.	305 mm
1 ft.	305 mm	2 ft.	610 mm
2 ft.	610 mm	3 ft.	914 mm
3 ft.	914 mm	8 ft.	2.4 m
4 ft.	1.2 m	12 ft.	3.7
5 ft.	1.5 m	16 ft.	4.9
6 ft.	1.8 m	20 ft.	6.1 m
$V_1 + H_1 + H_2 = 40$ ft. (12.2 m) Maximum $H_1 + H_2 = 20$ ft. (6.1 m) Maximum $V_1 = 1$ ft. (305 mm) Minimum			

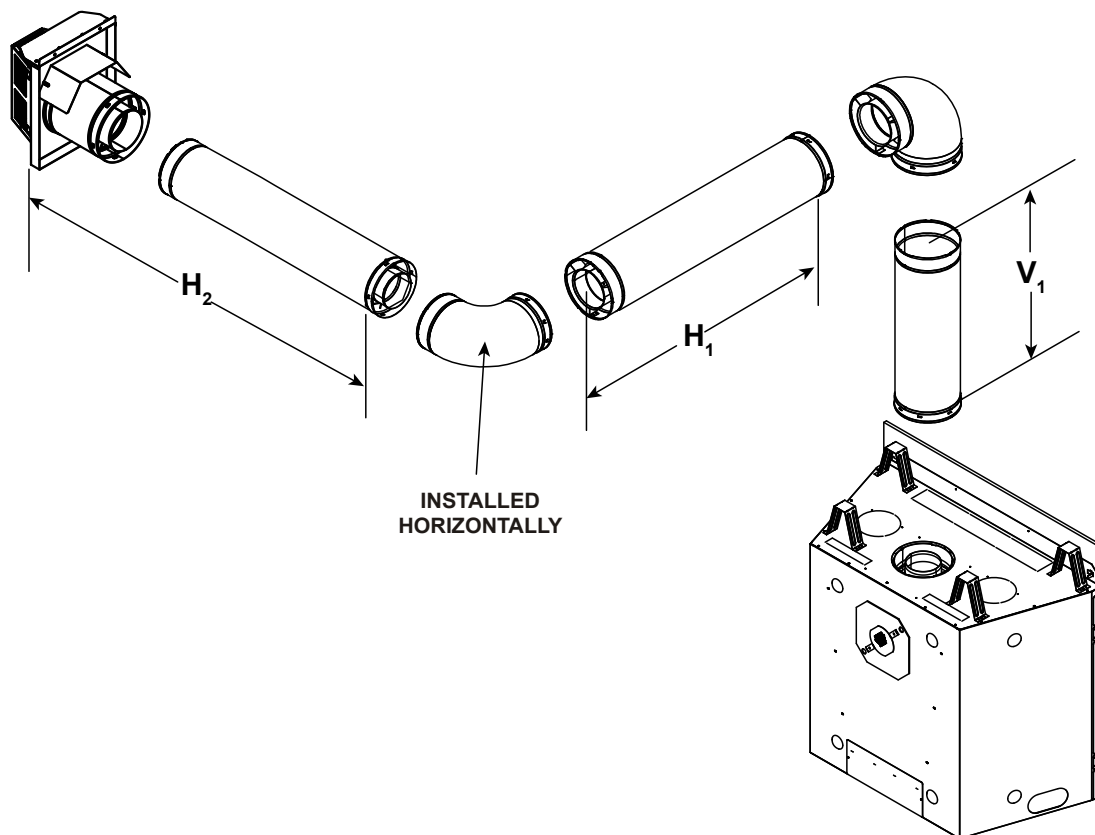
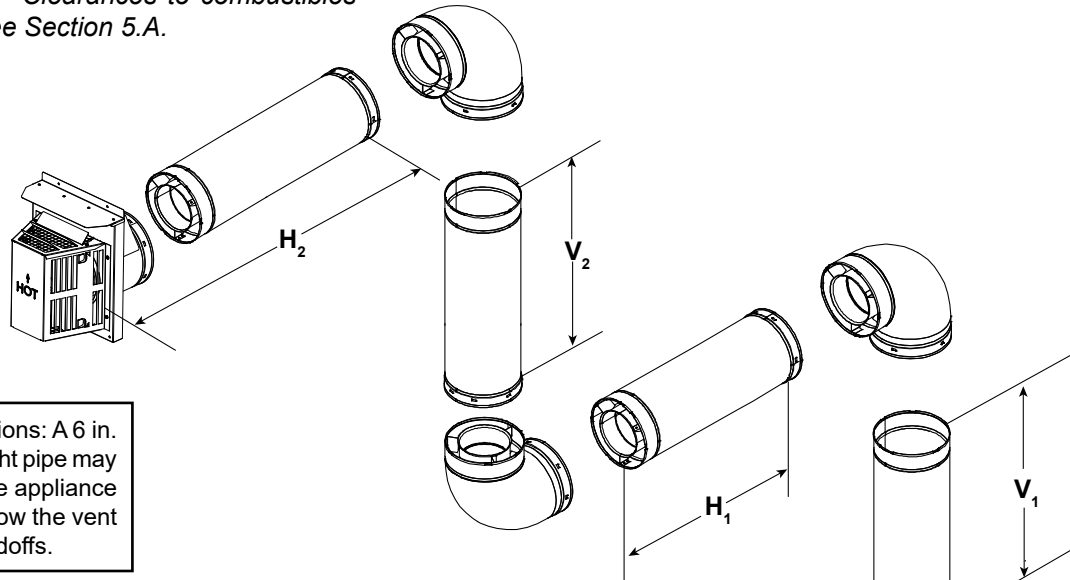


Figure 4.12

Top Vent - Horizontal Termination - (continued)

Three Elbows

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



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

MER36PN, MER36PL							
V_1 Min.		H_1 Max.		V_2 Min.		H_2 Max.	
Elbow only		2 ft.	610 mm	0 in.	0 mm	2 ft.	610 mm
6 in.	152 mm	2.5 ft.	762 mm	6 in.	152 mm	2.5 ft.	762 mm
1 ft.	305 mm	4 ft.	1.2 m	1 ft.	305 mm	4 ft.	1.2 m
2 ft.	610 mm	8 ft.	2.4 m	2 ft.	610 mm	8 ft.	2.4 m
3 ft.	914 mm	12 ft.	3.7 m	3 ft.	914 mm	12 ft.	3.7 m
4 ft.	1.2 m	16 ft.	4.9 m	4 ft.	1.2 m	16 ft.	4.9 m
5 ft.	1.5 m	20 ft.	6.1 m	5 ft.	1.5 m	20 ft.	6.1 m
* $H_1 + H_2 = 20$ ft. (6.1 m) Maximum $V_1 + V_2 + H_1 + H_2 = 40$ ft. (12.2 m) Maximum							

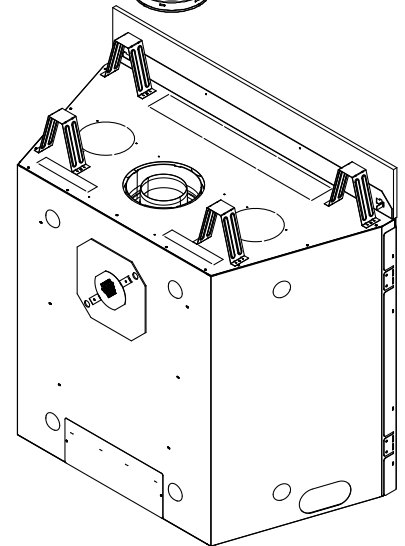


Figure 4.13

MER42PN, MER42PL							
V_1 Min.		H_1 Max.		V_2 Min.		H_2 Max.	
Elbow only		1.5 ft	457 mm	0 in.	0 mm	1.5 ft.	457 mm
6 in.	152 mm	2 ft.	610 mm	6 in.	152 mm	2 ft.	610 mm
1 ft.	305 mm	3 ft.	914 mm	1 ft.	305 mm	3 ft.	914 mm
2 ft.	610 mm	6 ft.	1.8 m	2 ft.	610 mm	6 ft.	1.8 m
3 ft.	914 mm	10 ft.	3.1 m	3 ft.	914 mm	10 ft.	3.1 m
4 ft.	1.2 m	14 ft.	4.3 m	4 ft.	1.2 m	14 ft.	4.3 m
5 ft.	1.5 m	18 ft.	5.5 m	5 ft.	1.5 m	18 ft.	5.5 m
5.5 ft.	1.7 m	20 ft.	6.1 m	5.5 ft.	1.7 m	20 ft.	6.1 m
* $H_1 + H_2 = 20$ ft. (6.1 m) Maximum $V_1 + V_2 + H_1 + H_2 = 40$ ft. (12.2 m) Maximum							

Top Vent - Vertical Termination

No Elbow

$V_1 = 40 \text{ ft. Max. (12.4 m)}$
 $V_1 = 3 \text{ ft. Min. (914 mm)}$

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

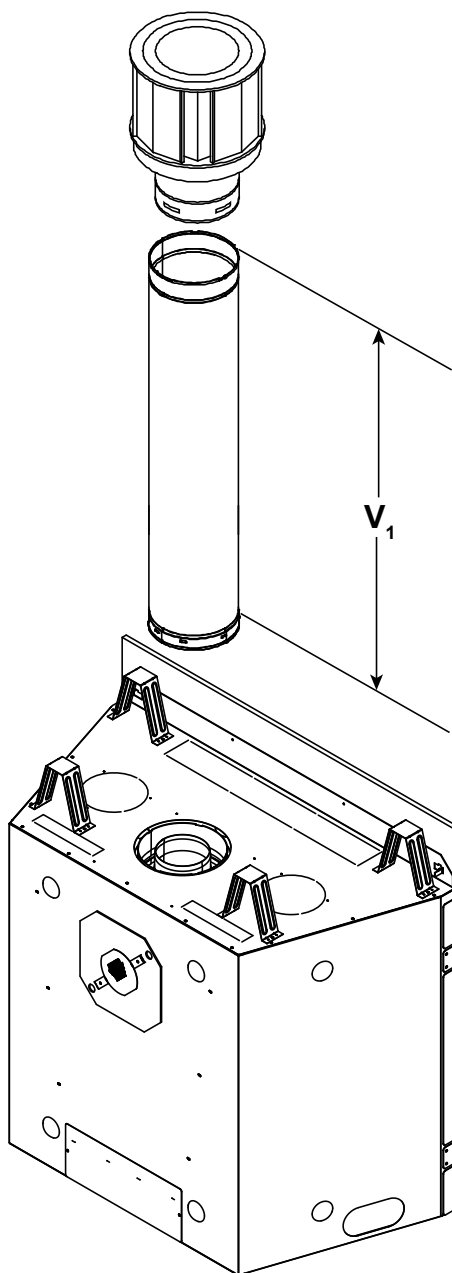


Figure 4.14

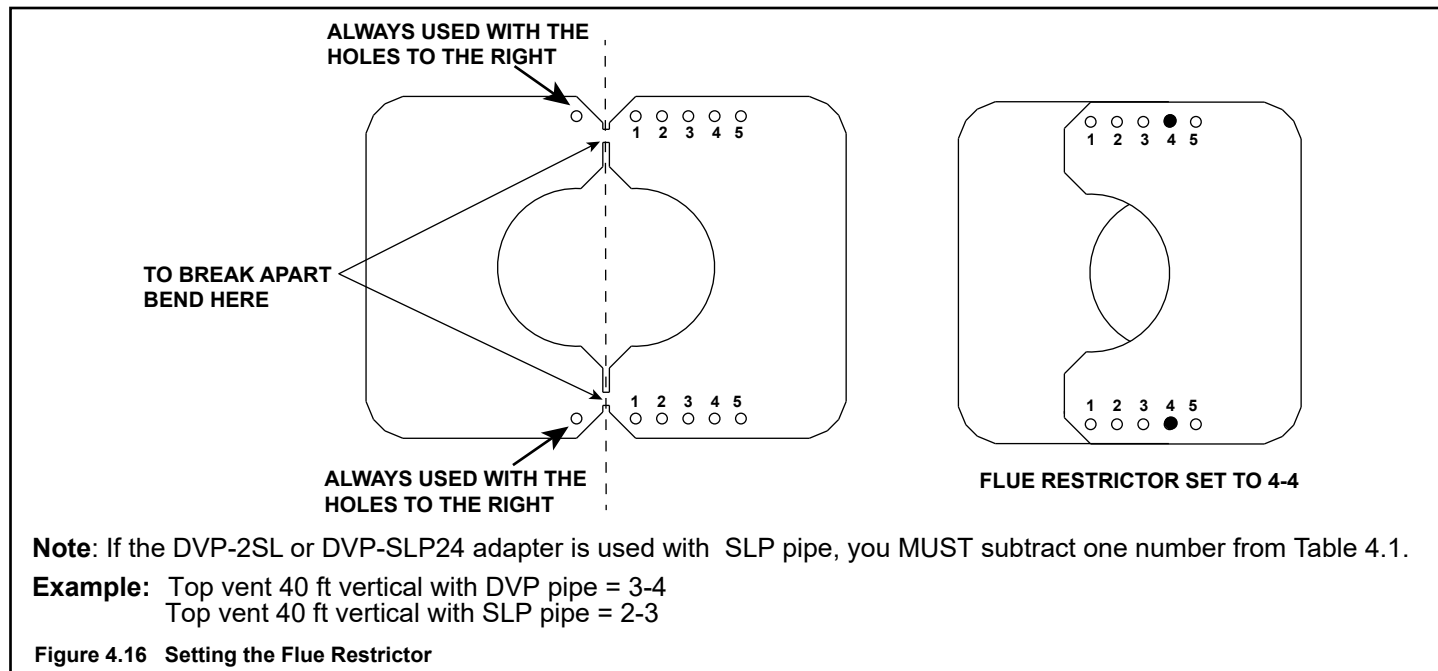
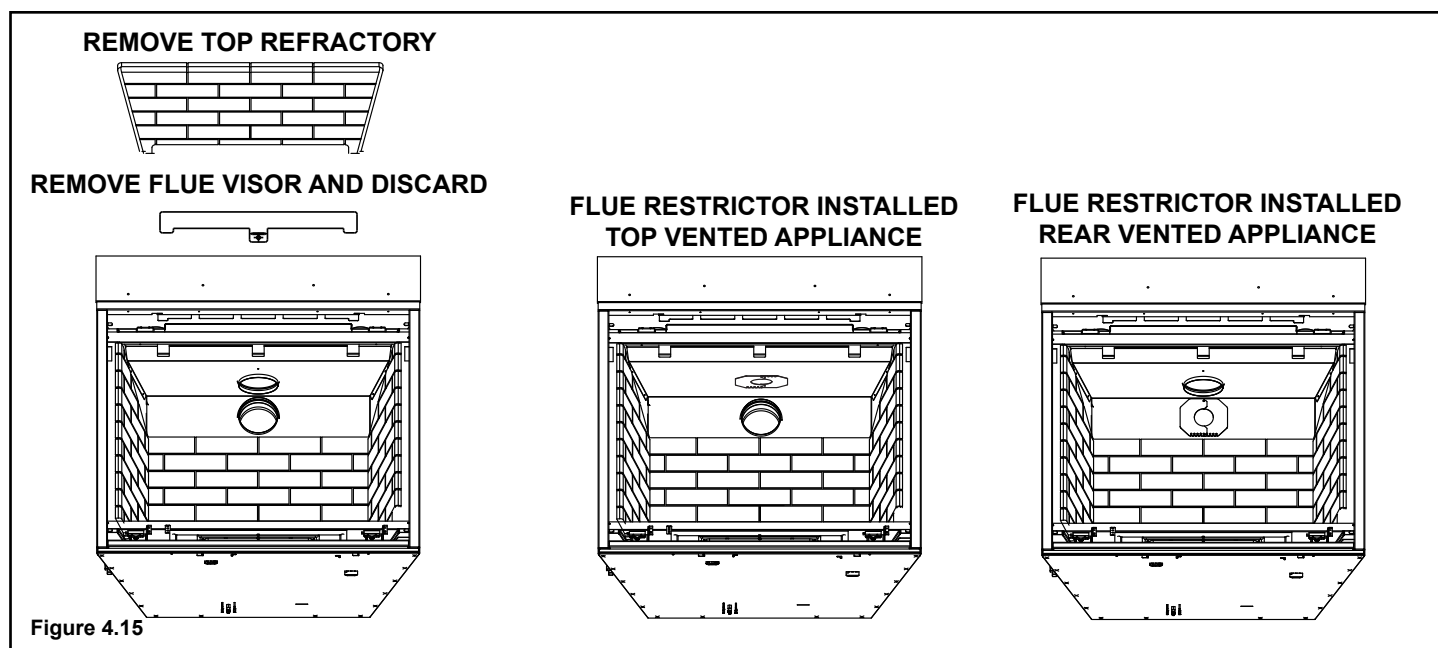
Top Vent - Vertical Termination (continued)

Flue Restrictor Instructions

1. Remove the top piece of refractory, if already installed. See Figure 4.15.
2. Remove the flue visor and discard. See Figure 4.15.
3. Orientate and align the two pieces of the flue restrictor as shown in Figure 4.16.
4. Refer to Table 4.1 and Figure 4.16 to match the amount of vertical you have in the system and determine the appropriate position to set the flue restrictor.
5. Center the two flue restrictor pieces on the vent at the setting selected in step 4 and secure in place by using two self-tapping screws. See Figure 4.15.
6. Reinstall the refractory.

Vertical	TOP VENT		REAR VENT	
	NG	Propane	NG	Propane
4 ft.	1-1	No Restrictor	No Restrictor	No Restrictor
8 ft.	2-2	1-2	1-1	No Restrictor
15 ft.	3-2	3-2	2-2	1-2
20 ft.	3-2	3-2	3-2	3-2
25 ft.	3-2	3-2	3-2	3-2
30 ft.	3-3	3-2	3-3	3-2
35 ft.	3-4	3-2	3-4	3-2
40 ft.	3-4	3-3	3-4	3-2

Table 4.1 Flue Restrictor Settings



Top Vent - Vertical Termination - (continued)

Two Elbows

V ₁		H ₁ Maximum		V ₂	V ₁ + V ₂ Min.	
Elbow only		2 ft.	610 mm	*	*	*
6 in.	152 mm	6 ft.	1.8 m	*	*	*
2 ft.	610 mm	12 ft.	3.7 m	*	*	*
3 ft.	914 mm	20 ft.	6.1 m	*	*	*
V ₁ + V ₂ + H ₁ = 50 ft. (15.2 m) Maximum *No specific restrictions on this value EXCEPT V ₁ + V ₂ + H ₁ cannot exceed 50 ft (15.2 m)						

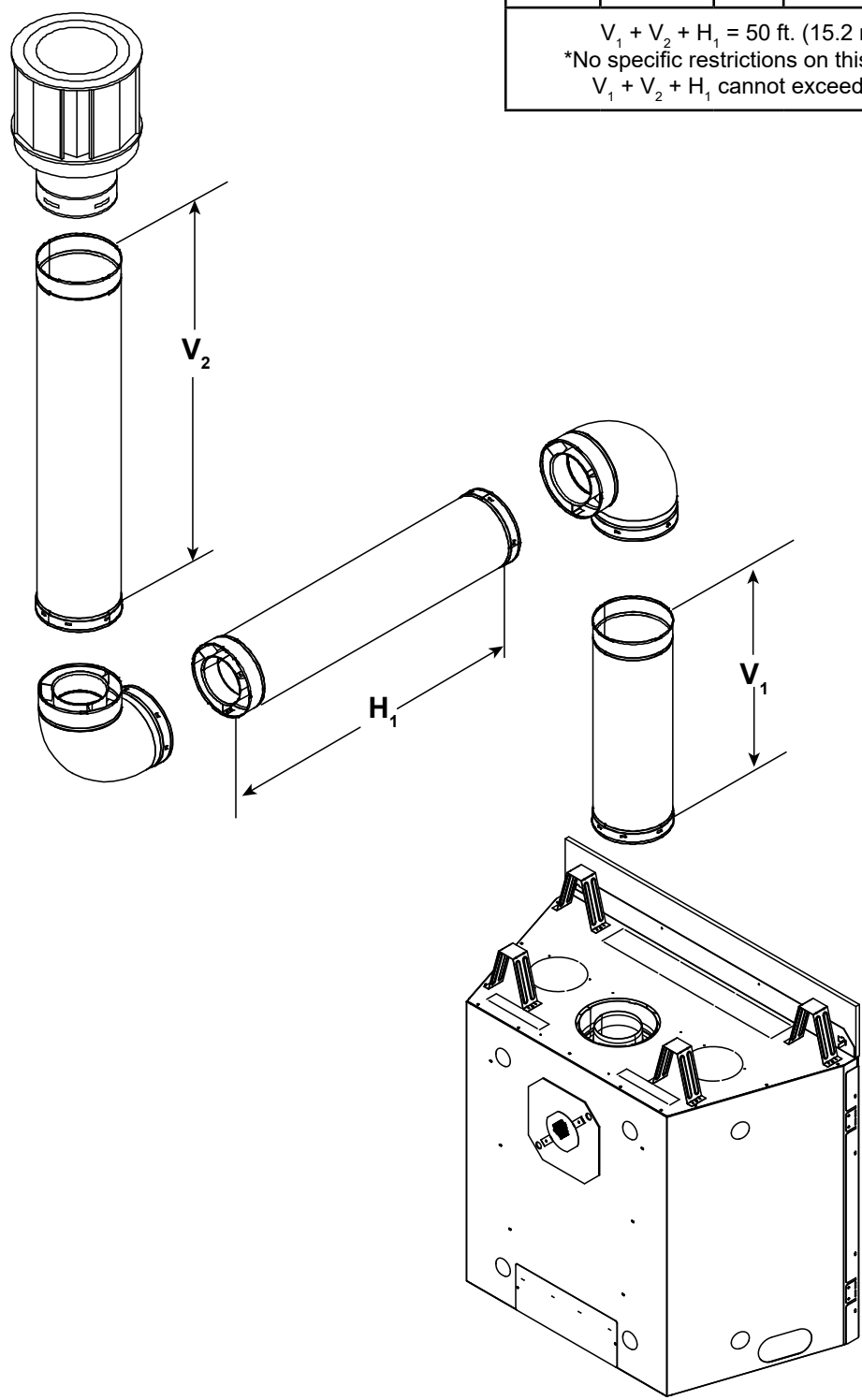


Figure 4.17

Top Vent - Vertical Termination - (continued)

Three Elbows

V ₁		H ₁ + H ₂		V ₂	V ₁ + V ₂ Minimum		H ₁ + H ₂ Maximum	
Elbow only		1 ft.	305 mm	*	*	*	1 ft.	305 mm
6 in.	152 mm	2 ft.	610 mm	*	*	*	2 ft.	610 mm
1 ft.	305 mm	2 ft.	610 mm	*	*	*	2 ft.	610 mm
2 ft.	610 mm	4 ft.	1.2 m	*	*	*	4 ft.	1.2 m
3 ft.	914 mm	9 ft.	2.7 m	*	*	*	9 ft.	2.7 m
4 ft.	1.2 m	18 ft.	5.5 m	*	*	*	18 ft.	5.5 m
H ₁ + H ₂ = 18 ft. (5.5 m) Maximum V ₁ + V ₂ + H ₁ + H ₂ = 40 ft. (12.2 m) Maximum * No specific restrictions on this value EXCEPT V ₁ + V ₂ + H ₁ + H ₂ cannot exceed 40 ft. (12.2 m).								

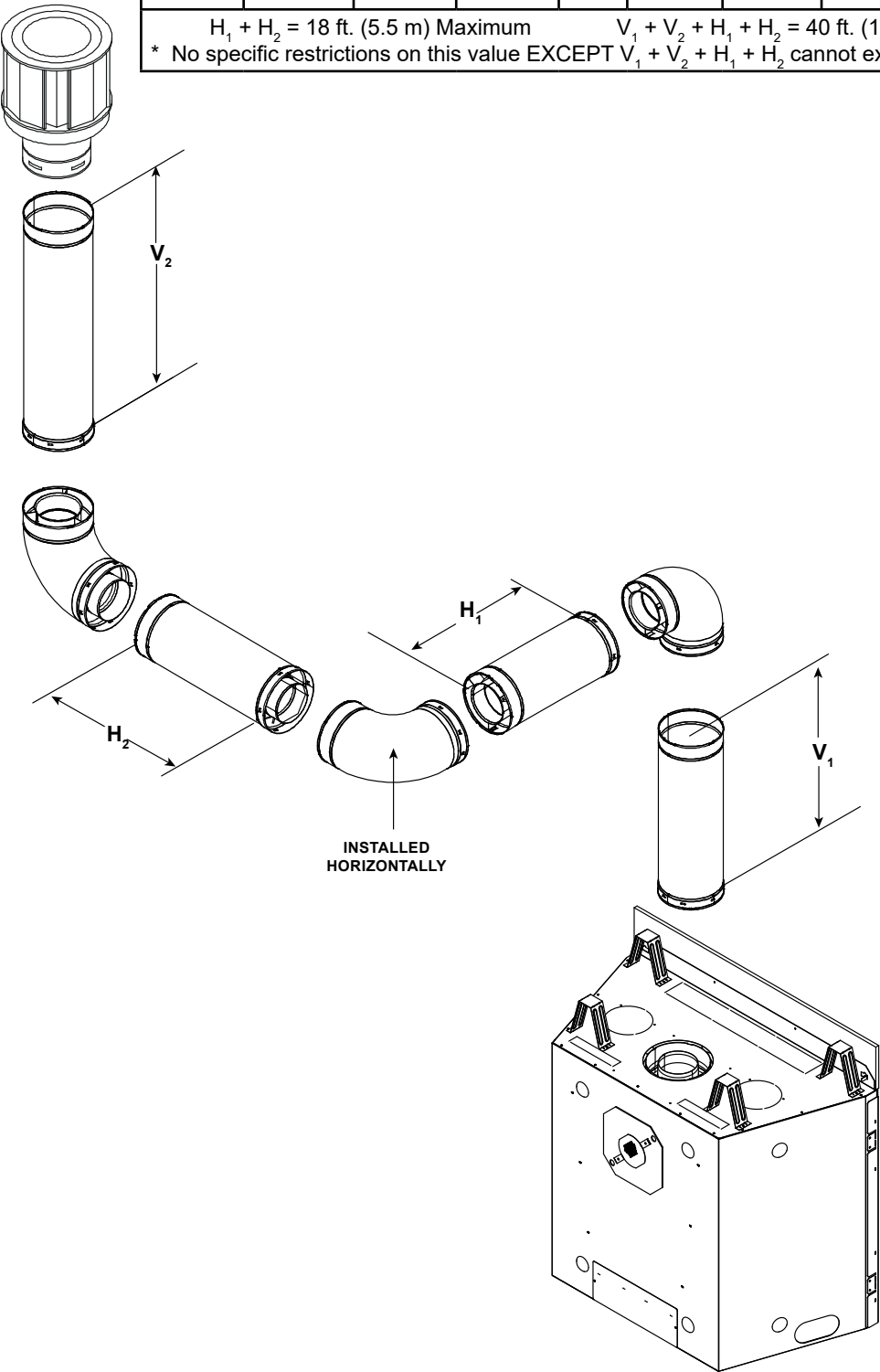
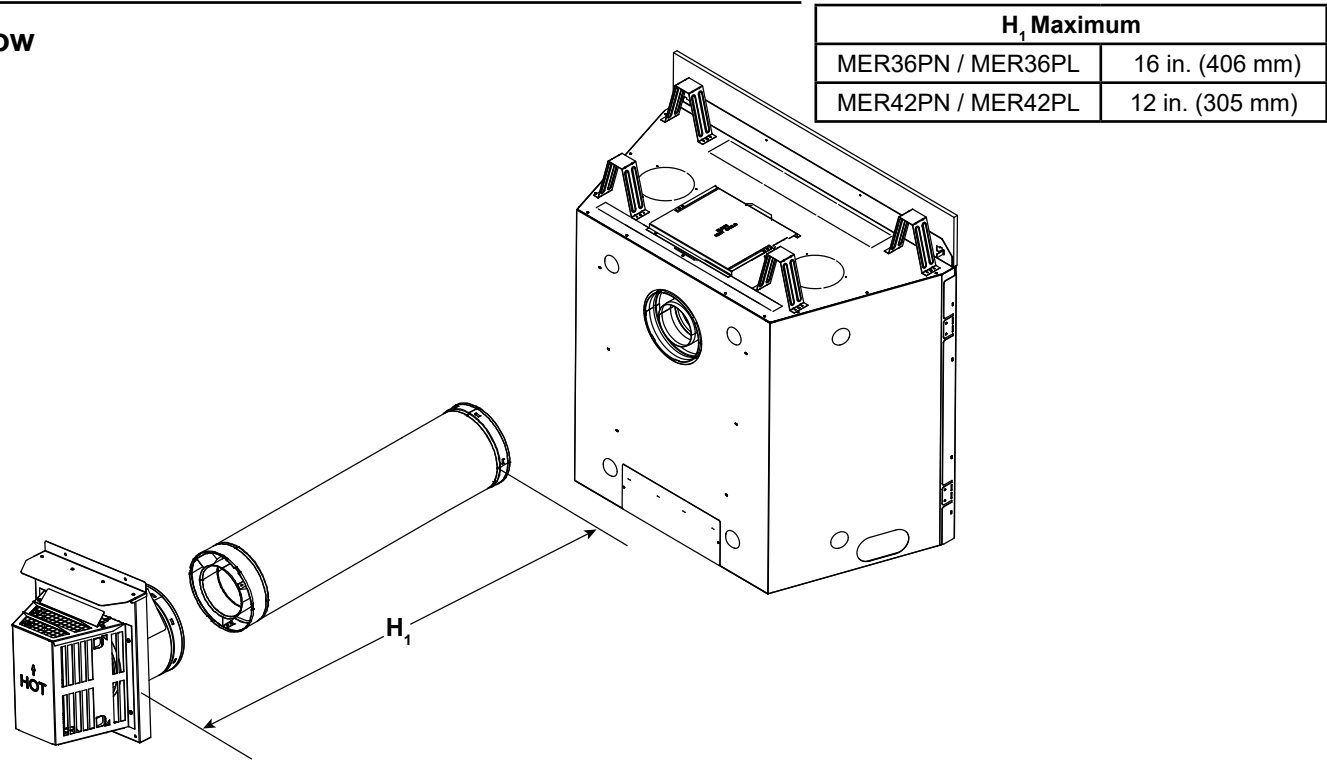


Figure 4.18

Rear Vent - Horizontal Termination

No Elbow



One 45° Elbow

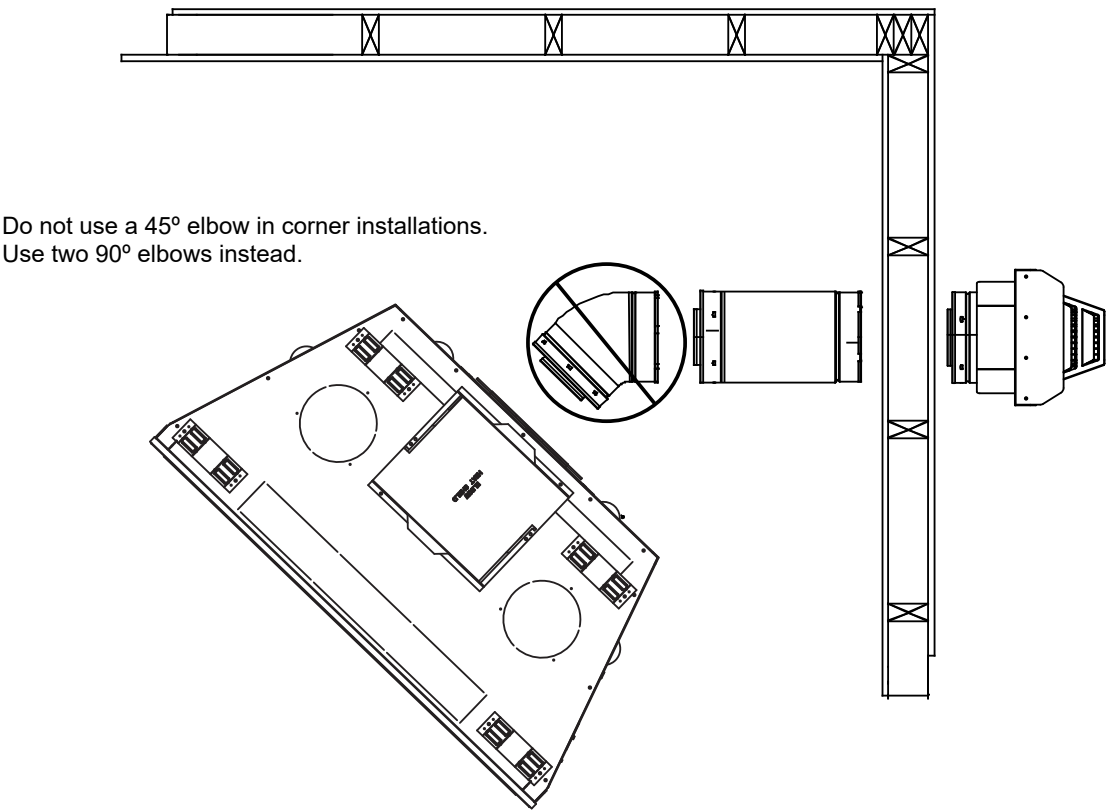


Figure 4.20

Rear Vent - Horizontal Termination - (continued)

Two Elbows

MER36PN / MER36PL					
H ₁ Maximum		V ₁ Minimum		H ₁ + H ₂ Maximum	
.5 ft.	152 mm	Back to Back 90° Elbows		1.5 ft.	457 mm
1 ft.	305 mm	.5 ft.	152 mm	2.5 ft.	762 mm
2 ft.	610 mm	1 ft.	305 mm	4 ft.	1.2 m
3 ft.	914 mm	2 ft.	610 mm	8 ft.	2.4 m
3 ft.	914 mm	3 ft.	914 mm	12 ft.	3.7 m
3 ft.	914 mm	4 ft.	1.2 m	16 ft.	4.9 m
3 ft.	914 mm	5 ft.	1.5 m	20 ft.	6.1 m
$V_1 + H_1 + H_2 = 40 \text{ ft. (12.2 m) Maximum}$ $H_1 = 3 \text{ ft. (914 mm) Maximum}$ $*H_1 + H_2 = 20 \text{ ft. (6.1 m) Maximum}$					

MER42PN / MER42PL					
H ₁ Maximum		V ₁ Minimum		H ₁ + H ₂ Maximum	
.5 ft.	152 mm	Back to Back 90° Elbows		1 ft.	305 mm
1 ft.	305 mm	.5 ft.	152 mm	2.5 ft.	762 mm
2 ft.	610 mm	1 ft.	305 mm	3 ft.	914 mm
3 ft.	914 mm	2 ft.	610 mm	6 ft.	1.8 m
3 ft.	914 mm	3 ft.	914 mm	10 ft.	3.0 m
3 ft.	914 mm	4 ft.	1.2 m	14 ft.	4.3 m
3 ft.	914 mm	5 ft.	1.5 m	18 ft.	5.5 m
3 ft.	914 mm	5.5 ft.	1.7 m	20 ft.	6.1 m
$V_1 + H_1 + H_2 = 40 \text{ ft. (12.2 m) Maximum}$ $H_1 = 3 \text{ ft. (914 mm) Maximum}$ $*H_1 + H_2 = 20 \text{ ft. (6.1 m) Maximum}$					

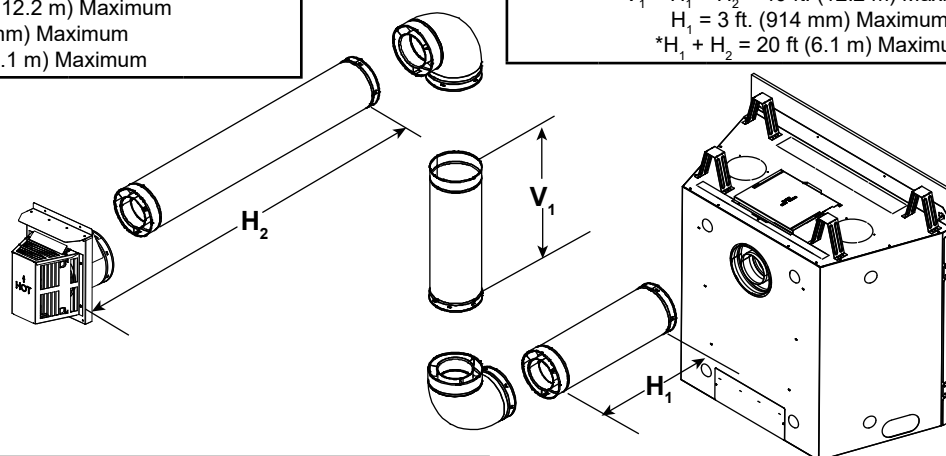


Figure 4.21

Three Elbows

MER36PN / MER36PL					
H ₁ Maximum		V ₁ Minimum		H ₁ + H ₂ + H ₃ Max.	
0 ft.	0 mm	Back to Back 90° Elbows		Not Allowed	
.5 ft.	152 mm	1 ft.	305 mm	2.5 ft.	762 mm
1 ft.	305 mm	2 ft.	610 mm	4 ft.	1.2 m
2 ft.	610 mm	3 ft.	914 mm	8 ft.	2.4 m
3 ft.	914 mm	4 ft.	1.2 m	12 ft.	3.7 m
3 ft.	914 mm	5 ft.	1.5 m	16 ft.	4.9 m
3 ft.	914 mm	6 ft.	1.8 m	20 ft.	6.1 m
$V_1 + H_1 + H_2 + H_3 = 40 \text{ ft. (12.2 m) Maximum}$ $H_1 = 3 \text{ ft. (914 mm) Maximum}$ $H_1 + H_2 + H_3 = 20 \text{ ft. (6.1 m) Maximum}$					

MER42PN / MER42PL					
H ₁ Maximum		V ₁ Minimum		H ₁ + H ₂ + H ₃ Max.	
0 ft.	0 mm	Back to Back 90° Elbows		Not Allowed	
.5 ft.	152 mm	1 ft.	305 mm	1 ft.	305 mm
1 ft.	305 mm	2 ft.	610 mm	3 ft.	914 mm
2 ft.	610 mm	3 ft.	914 mm	6 ft.	1.8 m
3 ft.	914 mm	4 ft.	1.2 m	8 ft.	2.4 m
3 ft.	914 mm	5 ft.	1.5 m	12 ft.	3.7 m
3 ft.	914 mm	6 ft.	1.8 m	15 ft.	4.6 m
3 ft.	914 mm	7 ft.	2.1 m	20 ft.	6.1
$V_1 + H_1 + H_2 + H_3 = 40 \text{ ft. (12.2 m) Maximum}$ $H_1 = 3 \text{ ft. (914 mm) Maximum}$ $H_1 + H_2 + H_3 = 20 \text{ ft. (6.1 m) Maximum}$					

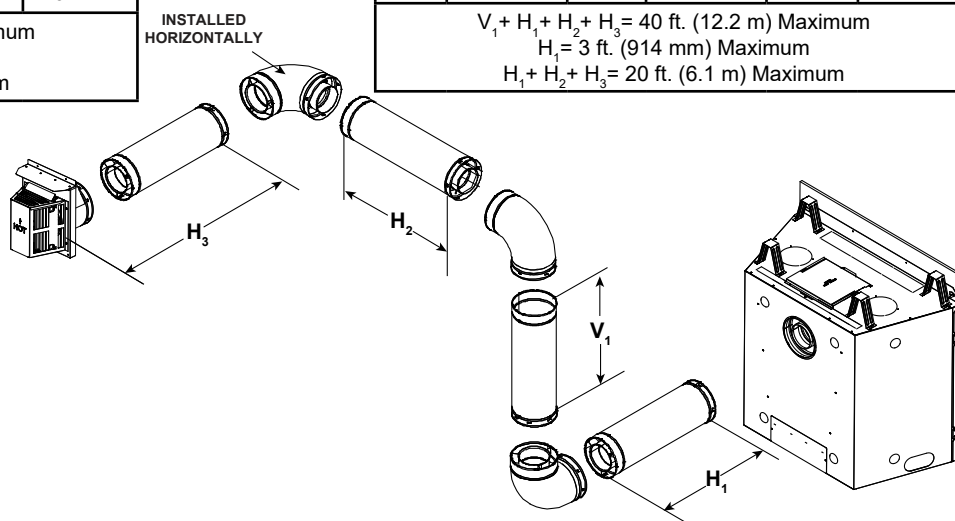
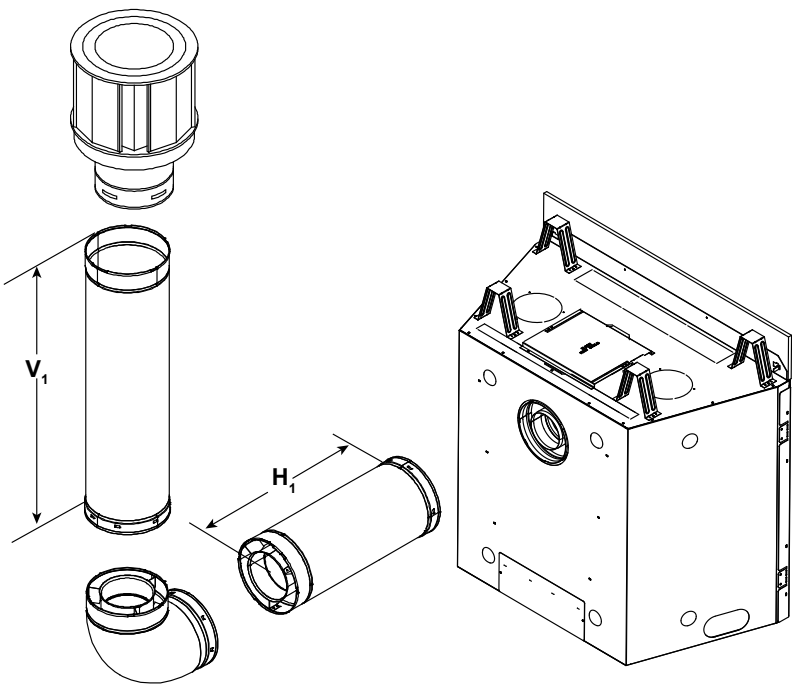


Figure 4.22

Rear Vent - Vertical Termination

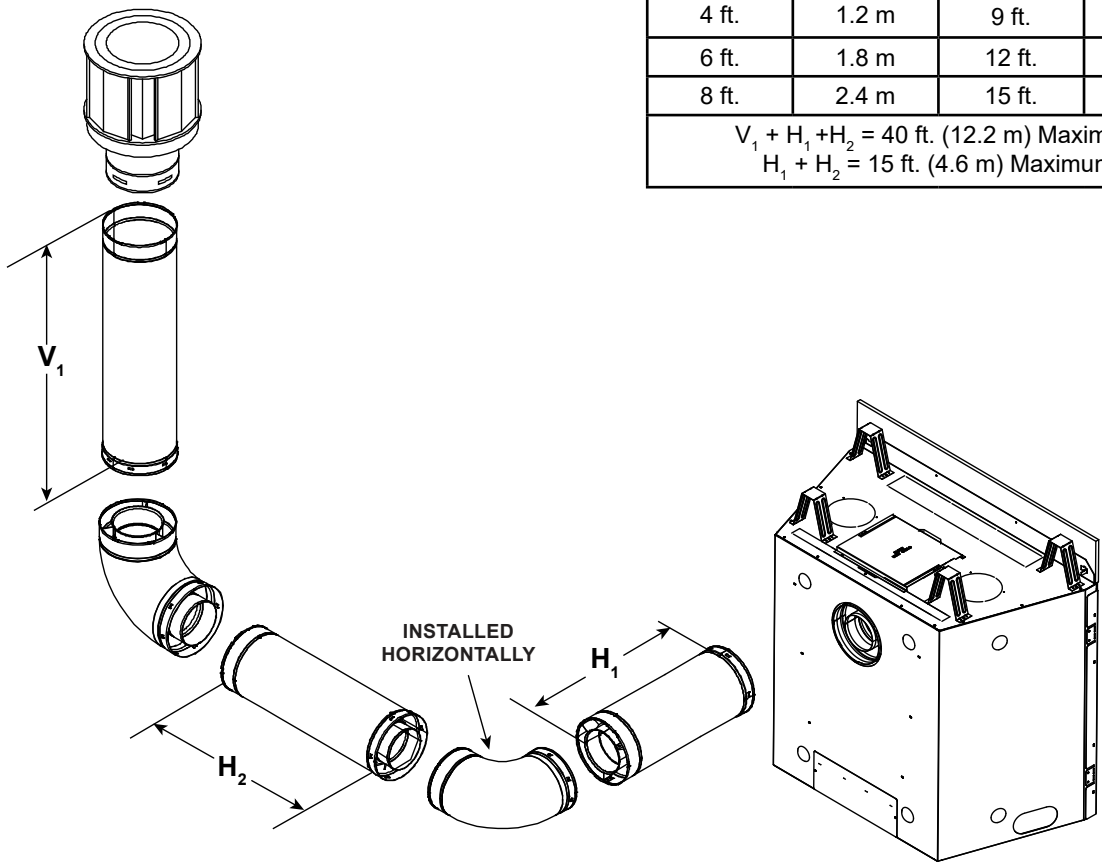
One Elbow



V ₁ Minimum		H ₁ Maximum	
6 in.	152 mm	2 ft.	610 mm
1 ft.	305 mm	3 ft.	914 mm
2 ft.	610 mm	5 ft.	1.5 m
3 ft.	914 mm	7 ft.	2.1 m
4 ft.	1.2 m	8 ft.	2.4 m
5 ft.	1.5 m	8 ft.	2.4 m
V ₁ + H ₁ = 40 ft. (12.2 m) Maximum			
H ₁ = 8 ft. (2.4 m) Maximum			

Figure 4.23

Two Elbows

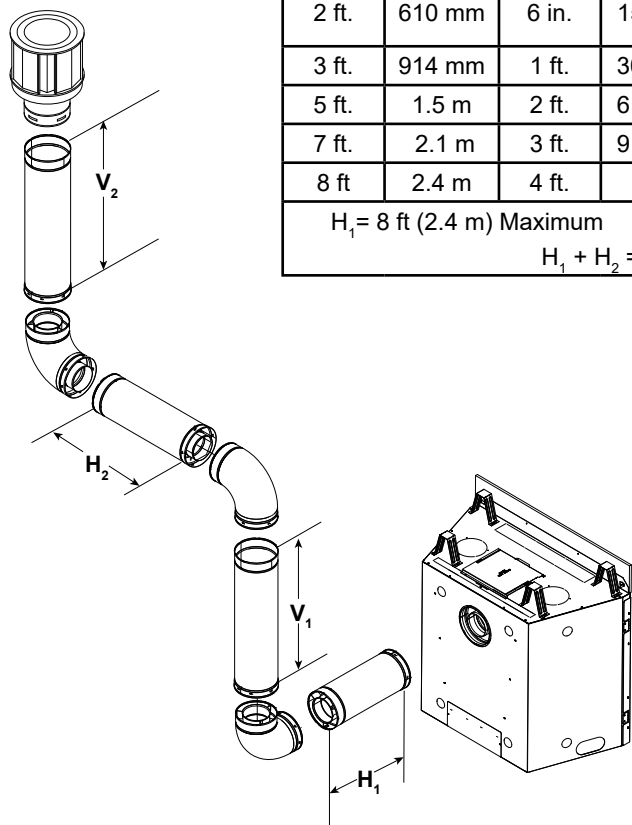


V ₁ Minimum		H ₁ + H ₂ Maximum	
Back to Back 90° Elbows		3 ft.	914 mm
2 ft.	610 mm	6 ft.	1.8 m
4 ft.	1.2 m	9 ft.	2.7 m
6 ft.	1.8 m	12 ft.	3.7 m
8 ft.	2.4 m	15 ft.	4.6 m
V ₁ + H ₁ + H ₂ = 40 ft. (12.2 m) Maximum			
H ₁ + H ₂ = 15 ft. (4.6 m) Maximum			

Figure 4.24

Rear Vent - Vertical Termination - (continued)

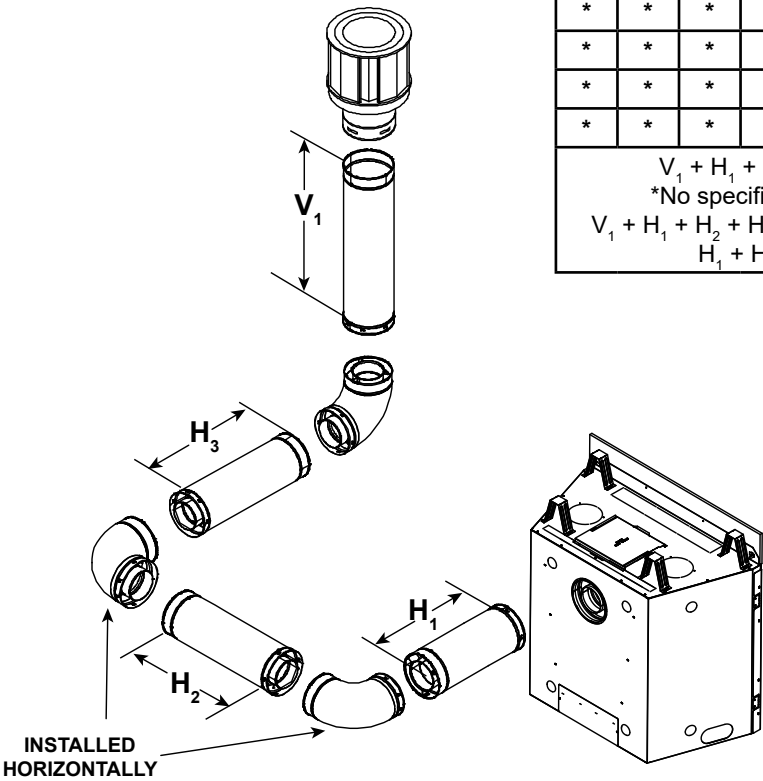
Three Elbows



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

Figure 4.25

Three Elbows



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

Figure 4.26

5 Vent Clearances and Framing

A. Vent Clearances to Combustibles

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

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

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

WARNING! Risk of Fire! Elbow heat shield required when $V_1 = 2$ ft. or less. Clearances to combustibles must be maintained. See Figure 4.11.

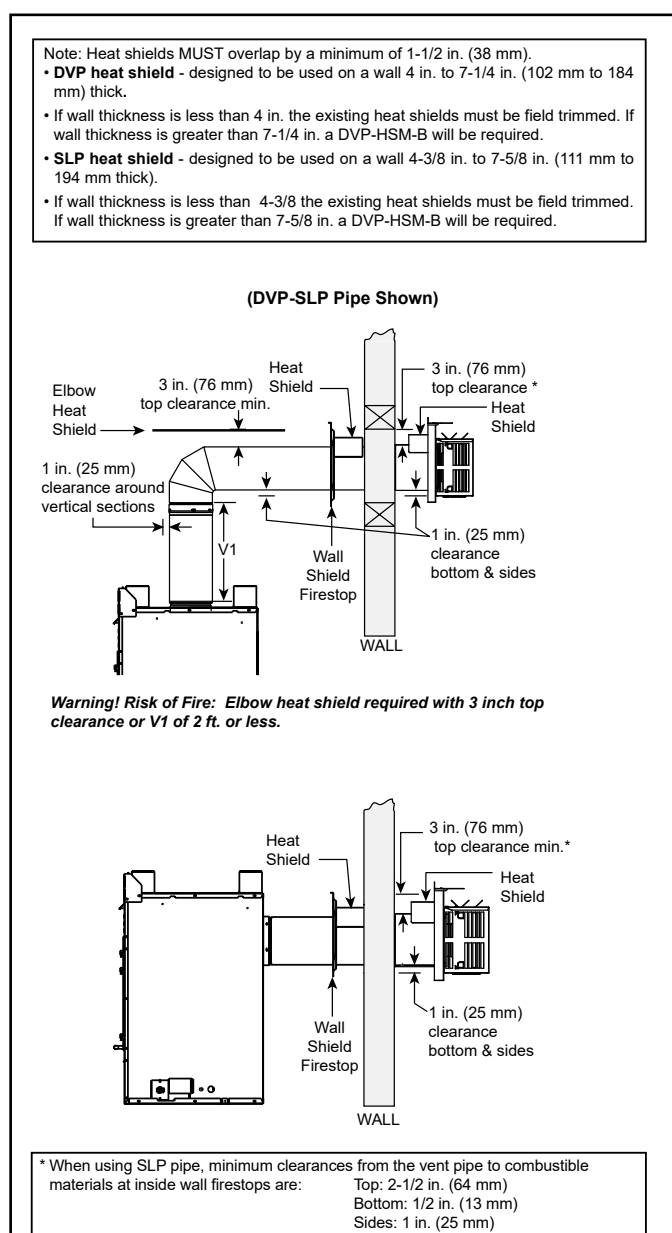


Figure 5.1 Horizontal Venting Clearances To Combustible Materials

Elbow Heat Shield

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

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

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

To Install Elbow Heat Shield:

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

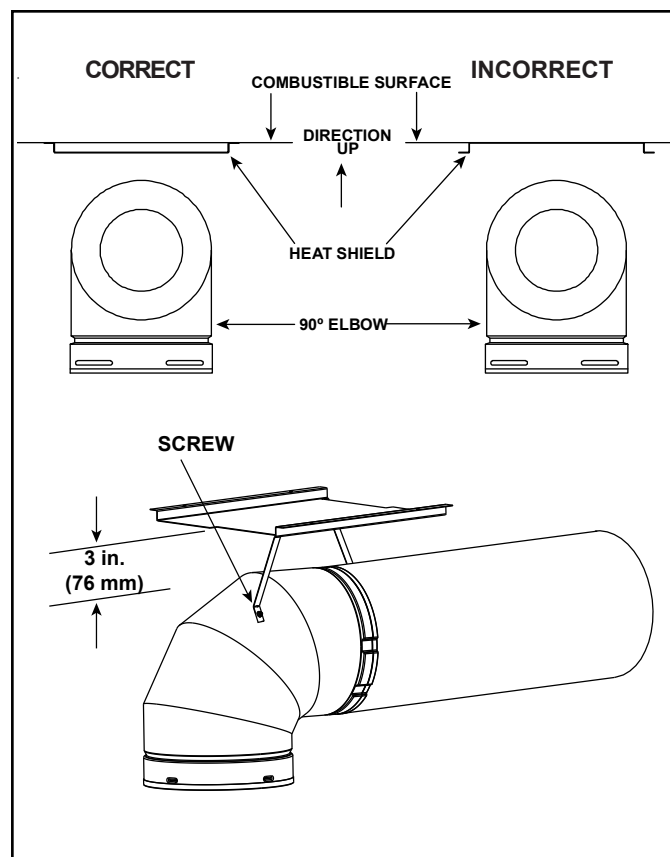


Figure 5.2 Elbow Heat Shield Installation

Elbow and Offset Clearances to Combustibles

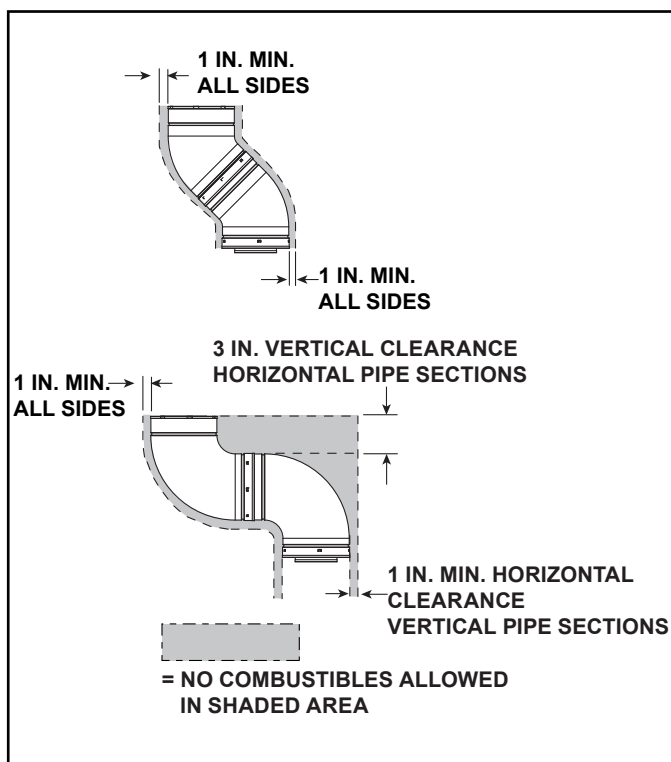


Figure 5.3 Clearances from Vent to Combustible Framing Materials

B. Wall Penetration Framing/Firestops

Combustible Wall Penetration

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

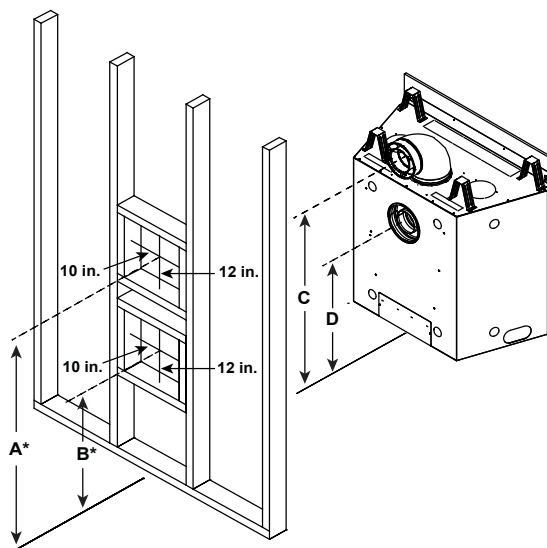
- The opening must be framed on all four sides using the same size framing materials as those used in the wall construction.
- SLP pipe - A wall shield firestop must be placed on each side of an interior wall. A minimum 1-1/2 in. (38 mm) overlap of attached heat shields must be maintained.
- DVP pipe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

Non-Combustible Wall Penetration

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

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

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



		A*	B*	C	D
MER36P	in.	42-3/4	27-7/8	41-3/4	26-7/8
	mm	1086	708	1060	683
MER42P	in.	45-1/8	29-7/8	44-1/8	28-7/8
	mm	1146	759	1121	733

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

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

Figure 5.4 Wall Penetration

C. Ceiling Firestop/Floor Penetration Framing

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

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

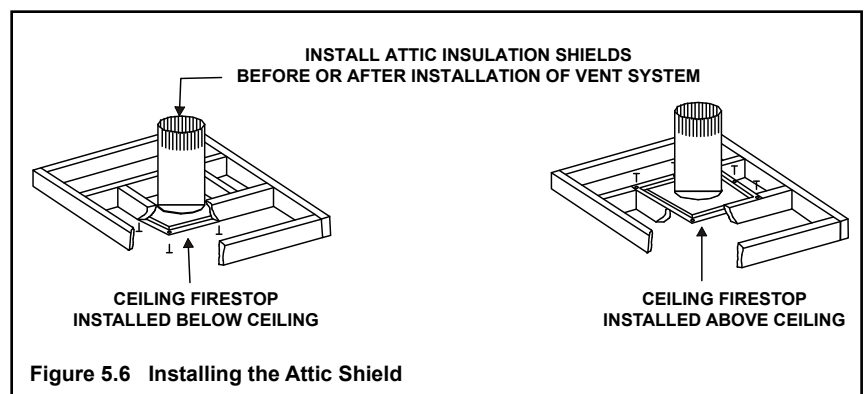
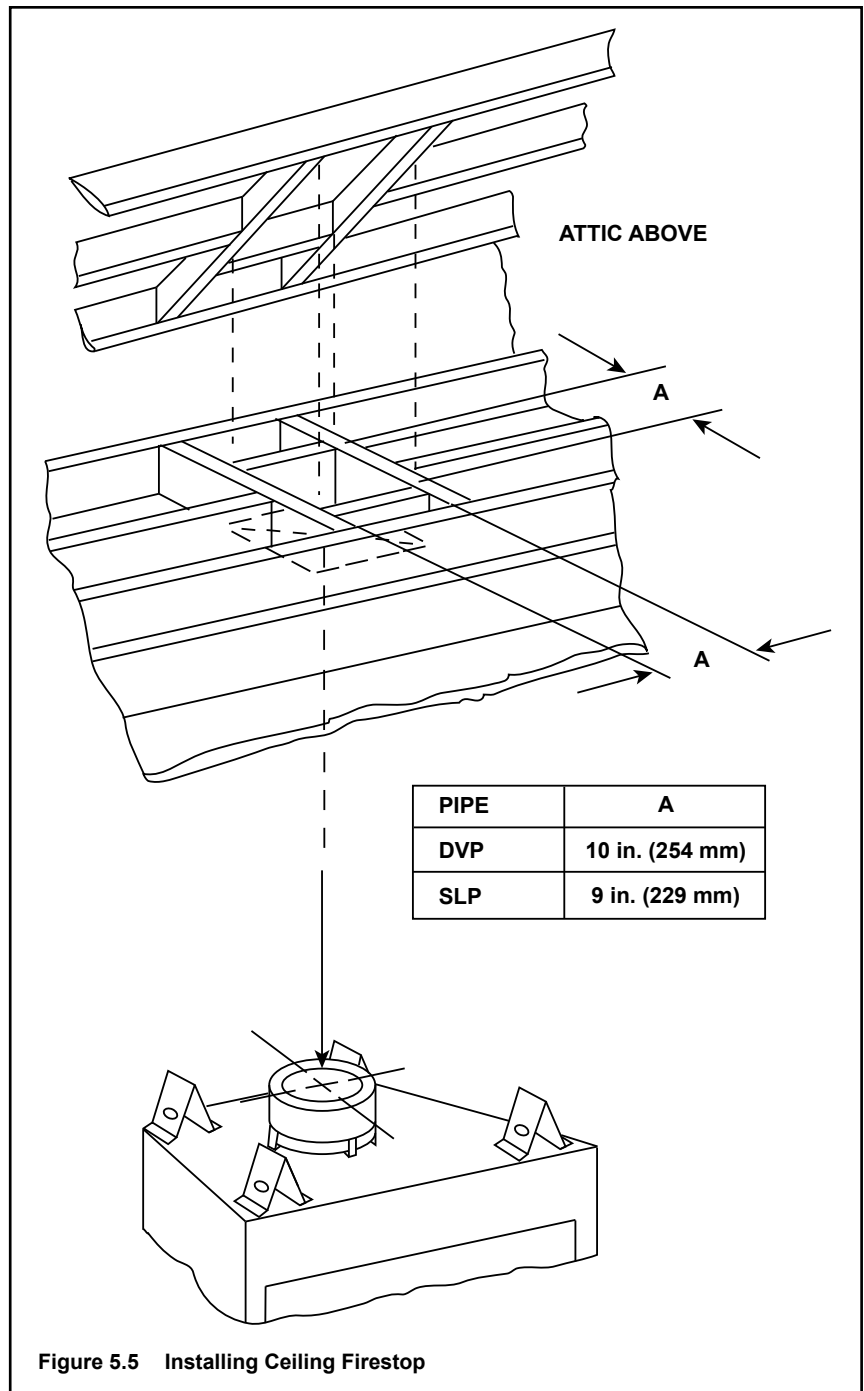
- **DVP pipe only** - Frame an opening 10 in. by 10 in. (254 mm by 254 mm) whenever the vent penetrates a ceiling/floor (see Figure 5.5).
- **SLP pipe only** - Frame opening 9 in. x 9 in. (229 mm x 229 mm) whenever the vent penetrates a ceiling/floor (see Figure 5.5).
- Frame the area with the same sized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

D. Install Attic Insulation Shield

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

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

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



6 Appliance Preparation

A. Vent Collar Preparation

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

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

Top Vent

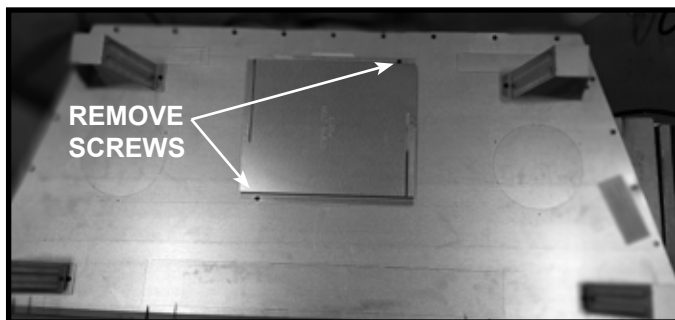


Figure 6.1 Remove Elbow Heat Shield by Removing Two Screws

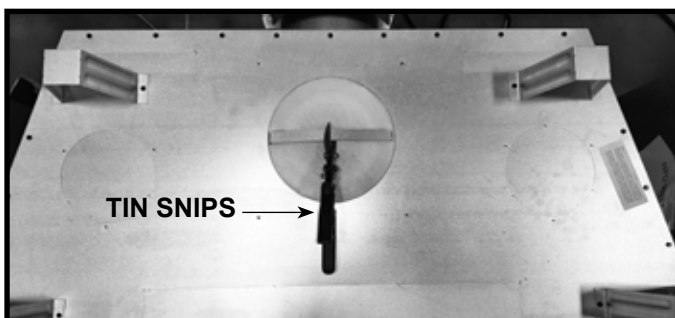


Figure 6.2 Cut Seal Cap Strap Using a Tin Snips and Bend the Pieces to 90 Degrees

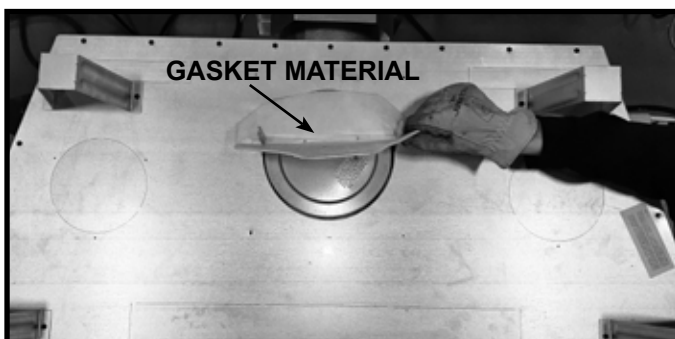


Figure 6.3 Remove the White Gasket Material Covering the Seal Cap

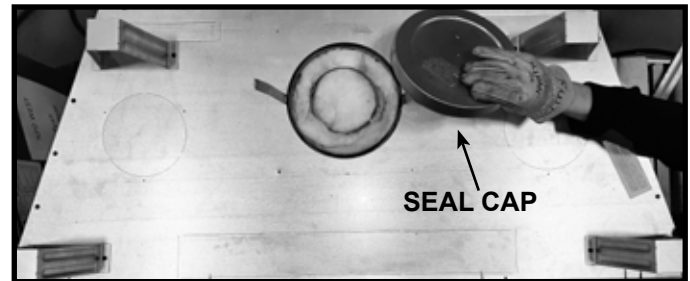


Figure 6.4 Remove Seal Cap

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

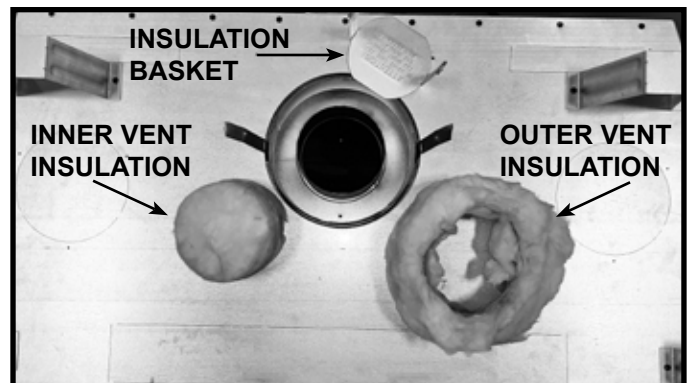


Figure 6.5 Remove Insulation Basket, Inner Vent Insulation and Outer Vent Insulation

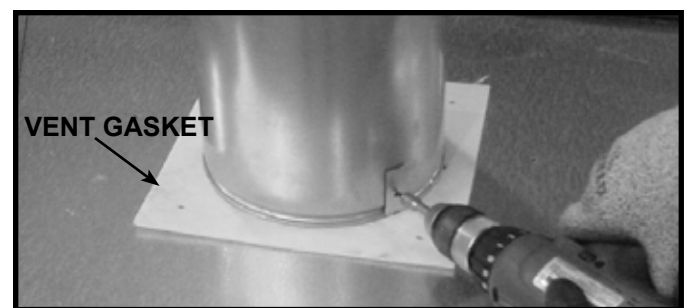


Figure 6.6 (Generic Fireplace Shown) To attach the first section of vent pipe, make sure to use the vent gasket in the manual bag to seal between the first vent component and the outer fireplace wrap. Seal with four screws or caulk with a minimum of 300 °F continuous exposure rating may be used to hold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

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

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

Rear Vent

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

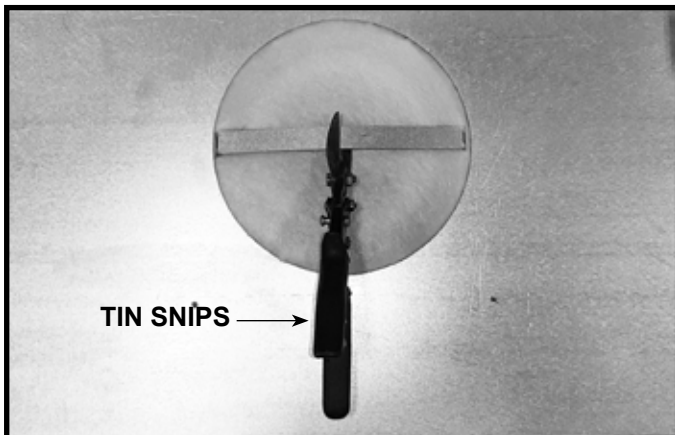


Figure 6.7 Cut Seal Cap Strap Using a Tin Snips and Bend the Pieces to 90 Degrees

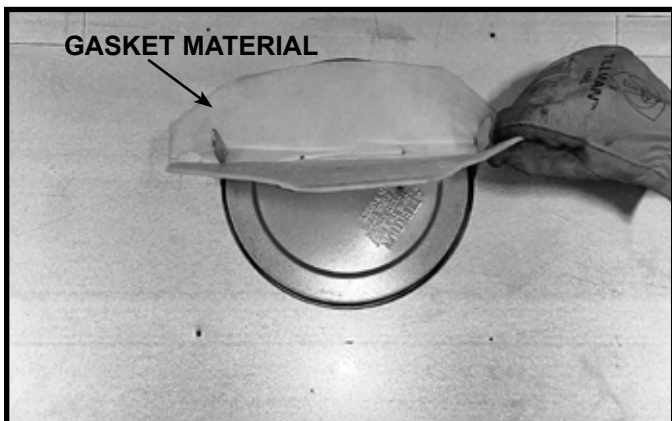


Figure 6.8 Remove the White Gasket Material Covering the Seal Cap

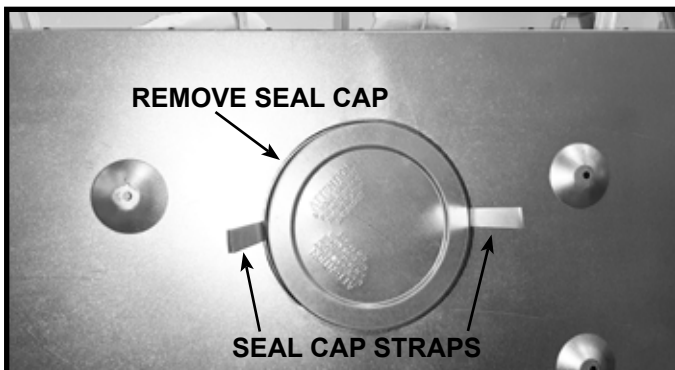


Figure 6.9 Remove Seal Cap

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

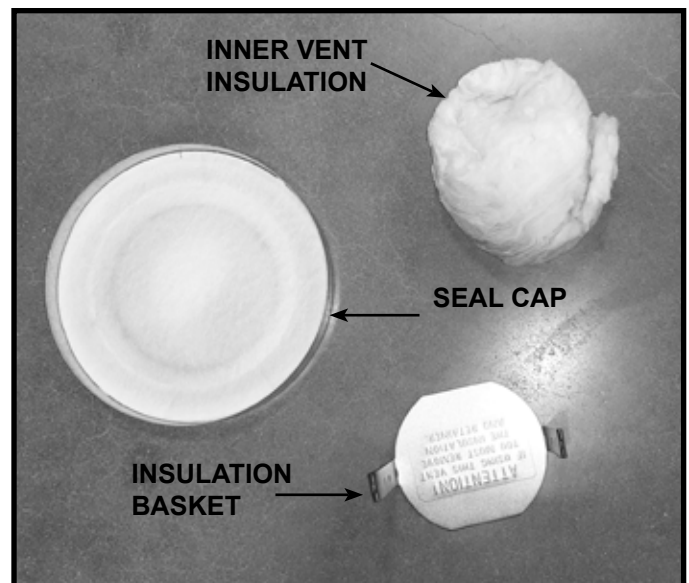


Figure 6.10 Remove Insulation Basket and Inner Vent Insulation

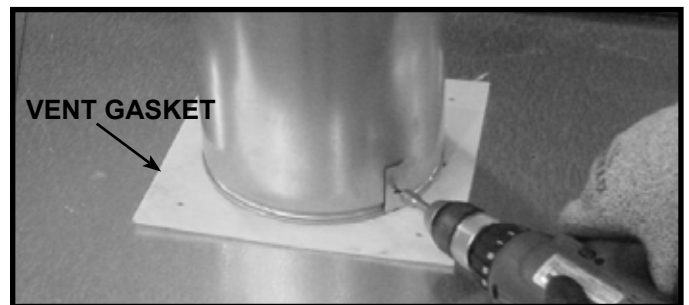


Figure 6.11 (Generic Fireplace Shown) To attach the first section of vent pipe, make sure to use the vent gasket in the manual bag to seal between the first vent component and the outer fireplace wrap. Seal with four screws or caulk with a minimum of 300 °F continuous exposure rating may be used to hold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

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

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

B. Prepare For Heat Management

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

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

Introduction

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

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

Heat Management System options are:

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

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

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

Note: Do this BEFORE final positioning of the appliance.

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

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

These models may utilize two Heat Management Systems.

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

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

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

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

Table 6.1 HZMR-ADP Kit

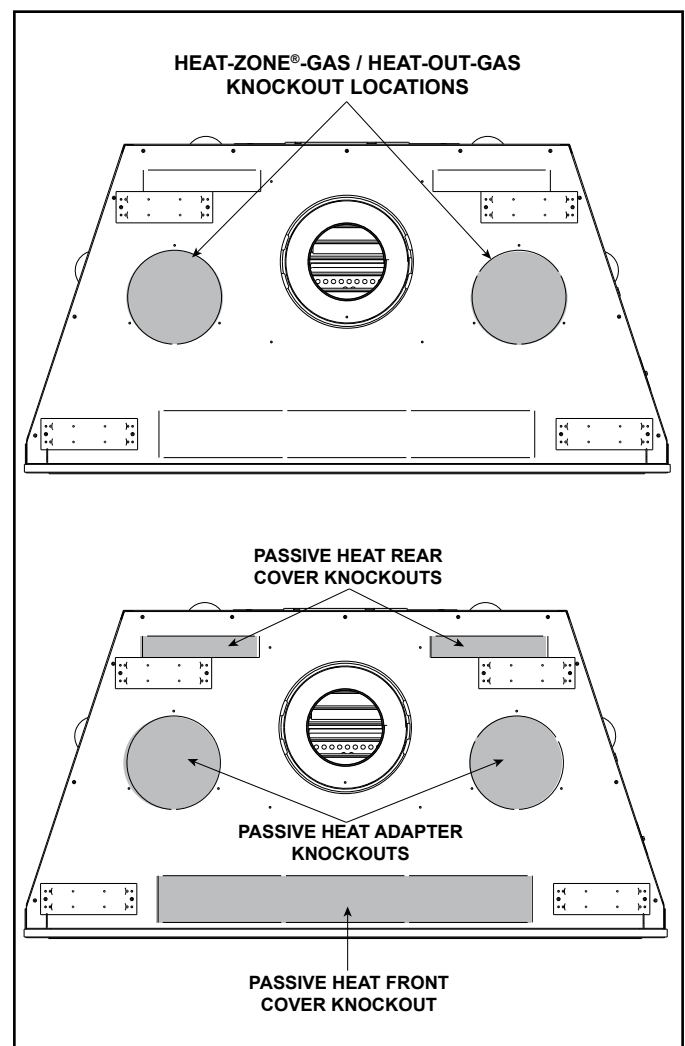


Figure 6.12 Heat Management Knockout Locations

C. Securing and Leveling the Appliance

⚠ WARNING



Risk of Fire!

Prevent contact with:

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

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

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

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

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

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

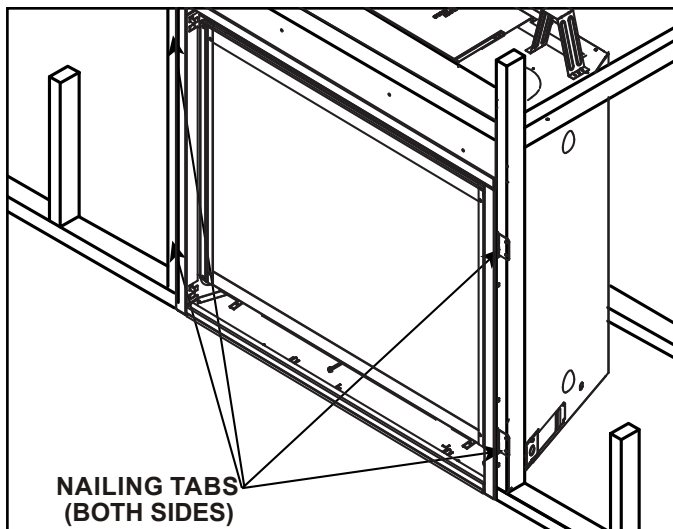


Figure 6.13 Proper Positioning and Securing of an Appliance

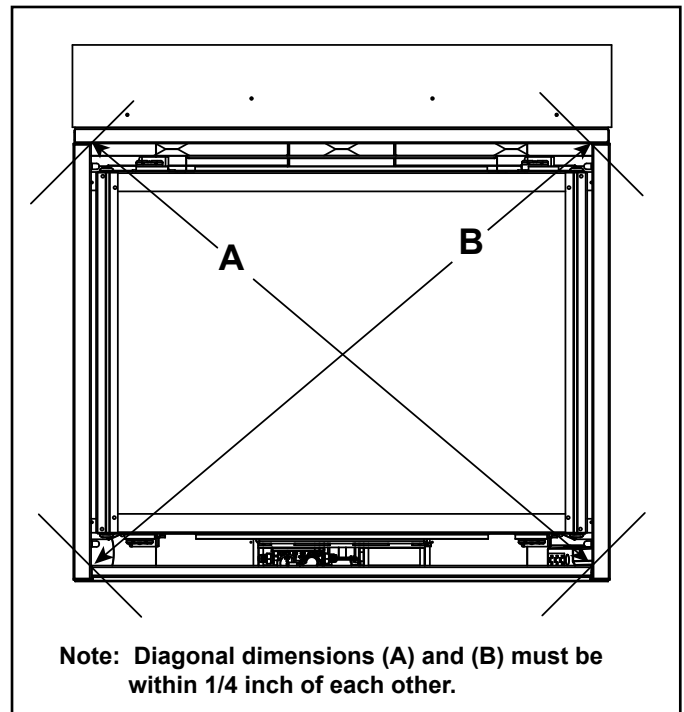


Figure 6.14 Positioning the Appliance Squarely

D. Non-Combustible Material (Factory-Installed)

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

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

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

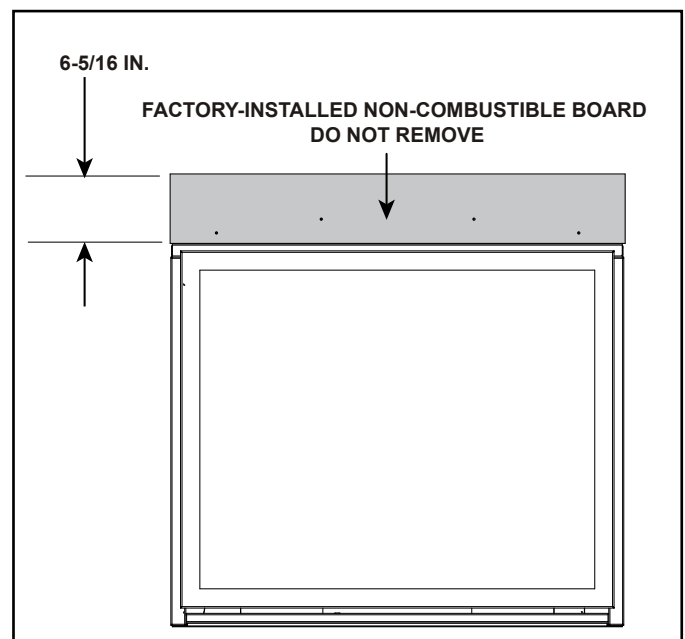


Figure 6.15 Non-Combustible Board - Generic Decorative Barrier Front Shown

7 Venting

A. Assemble Vent Sections (DVP Pipe Only)

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

Attach Vent to the Firebox Assembly

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

Attach the first pipe section to the starting collar:

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

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

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

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

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

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

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

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

Assemble Pipe Sections

Per Figure 7.2:

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

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

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



Figure 7.1 High Temperature Silicone Sealant

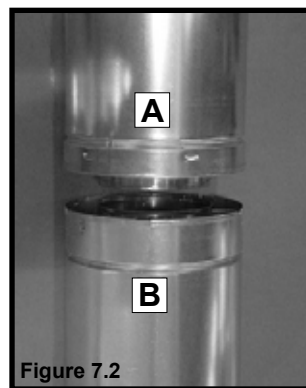


Figure 7.2

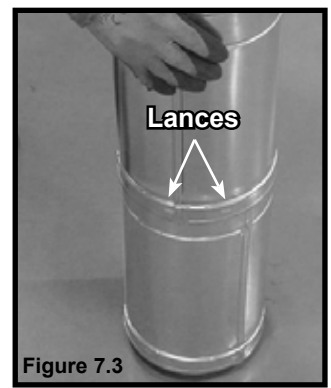
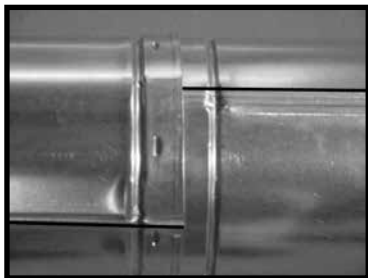
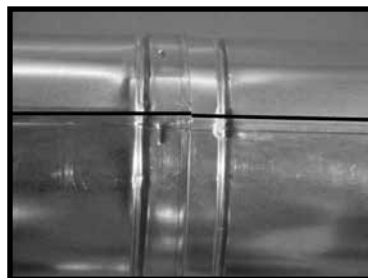


Figure 7.3

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



CORRECT



INCORRECT

Figure 7.4 Seams

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

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

Assemble Vent Sections (SLP Only)

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

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

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

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

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

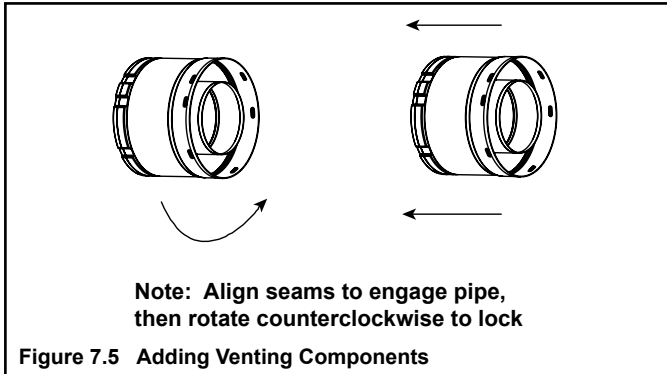
Recommended: Vent Configurations with five or more pipe joints/pipe connections

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

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

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

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



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

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

B. Assemble Slip Sections

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

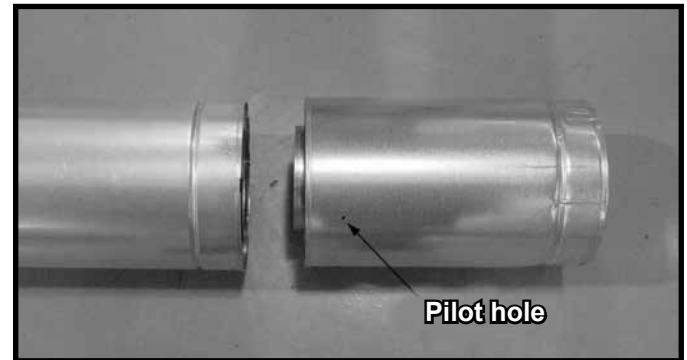


Figure 7.6 Slip Section Pilot Holes

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

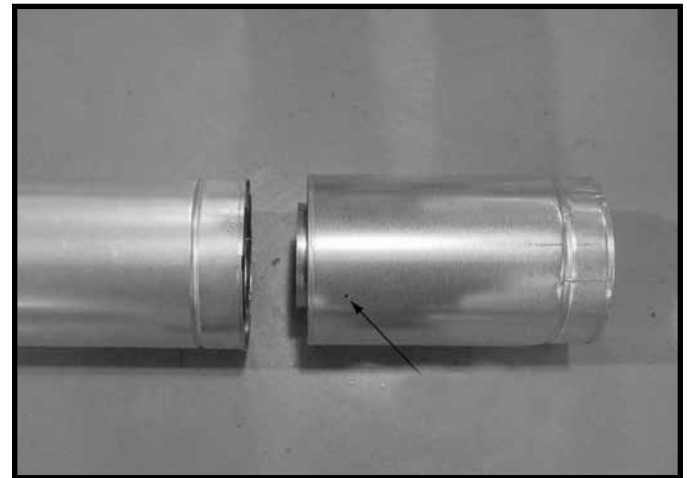


Figure 7.7 Screws into Slip Section

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

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

C. Secure the Vent Sections

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

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

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

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

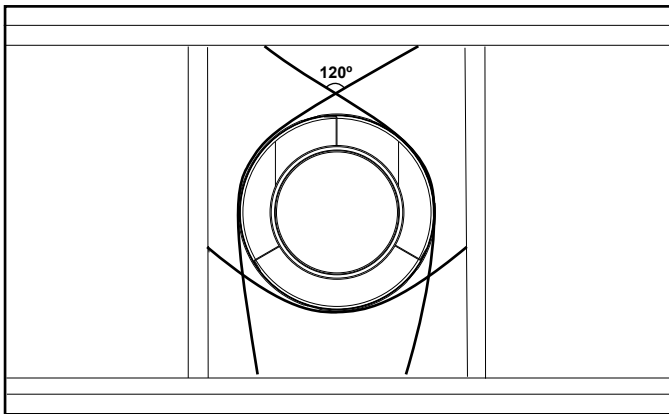


Figure 7.8 Securing Vertical Pipe Sections

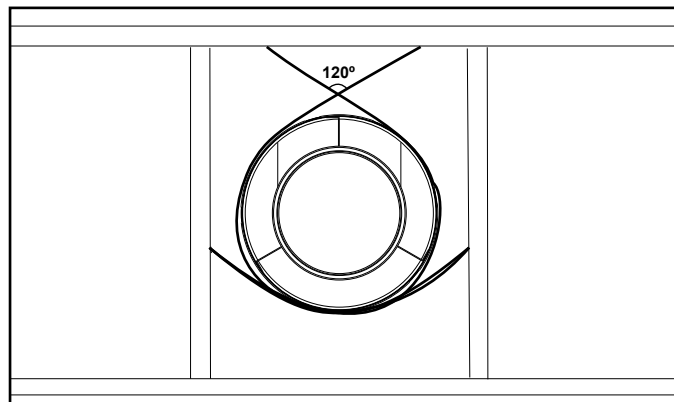


Figure 7.9 Securing Horizontal Pipe Sections

D. Disassemble Vent Sections

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

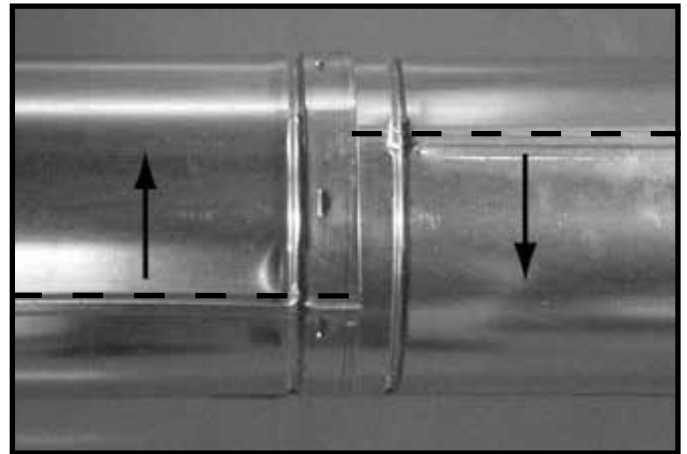


Figure 7.10 Rotate Seams for Disassembly

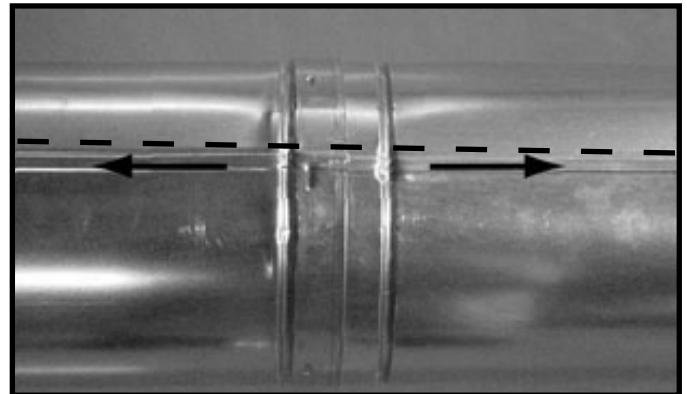


Figure 7.11 Align and Disassemble Vent Sections

E. Vertical Termination Requirements

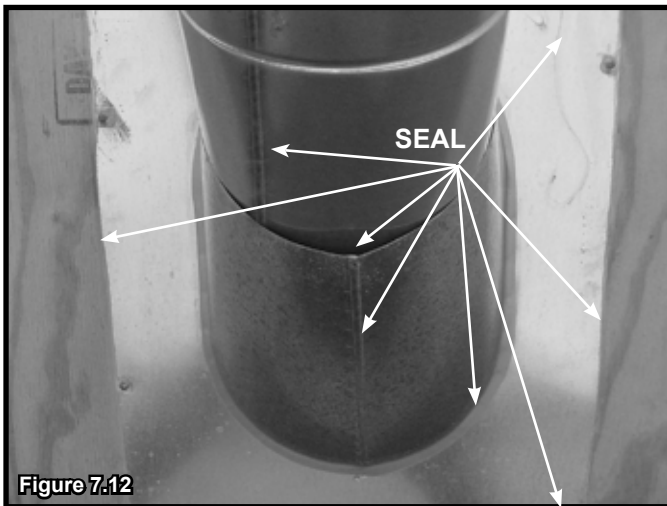
Install and Seal Metal Roof Flashing

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

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

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

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



Assemble and Install Storm Collar

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

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



Figure 7.13 Insert Bolt into Brackets

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

Install Vertical Termination Cap

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

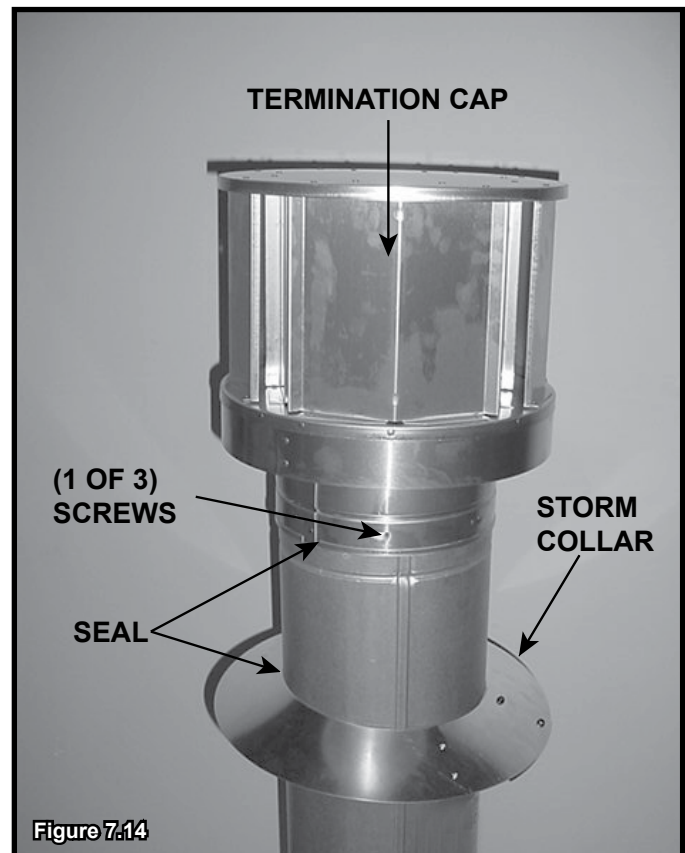


Figure 7.14

F. Horizontal Termination Requirements

Heat Shield Requirements for Horizontal Termination

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

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

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

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

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

Important Notice: Heat shields may not be field constructed.

Install Horizontal Termination Cap (DVP and SLP Pipe)

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

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

Failure to maintain overlap could cause overheating and fire.

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

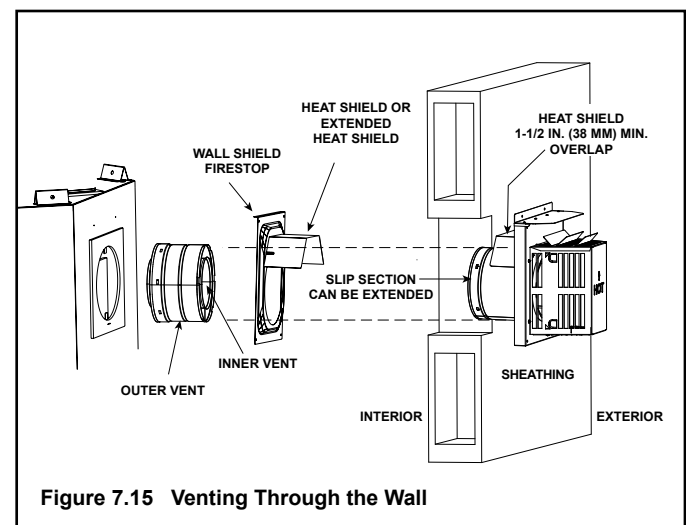
CAUTION! Risk of Burns! Local codes may require installation of a cap shield to prevent anything or anyone from touching the hot cap.

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

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

DVP-TRAP1 Exception

See Section 3.C for termination cap exception (DVP-TRAP1 or equivalent) for top vent, horizontally terminated installation.



8 Electrical Information

A. General Information

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

Incorrect wiring will damage controls.

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

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

Junction Box Wiring

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

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

Accessories Requirements

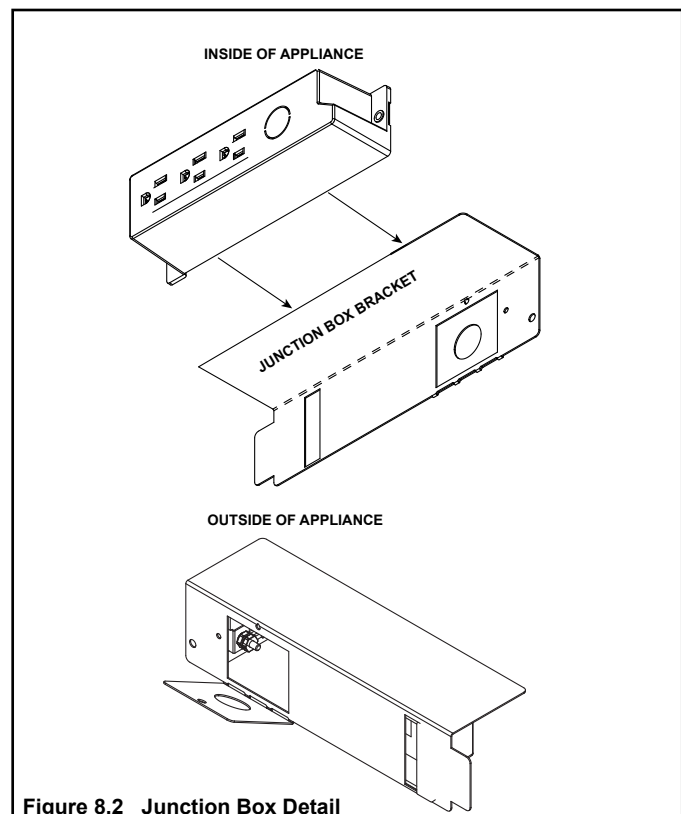
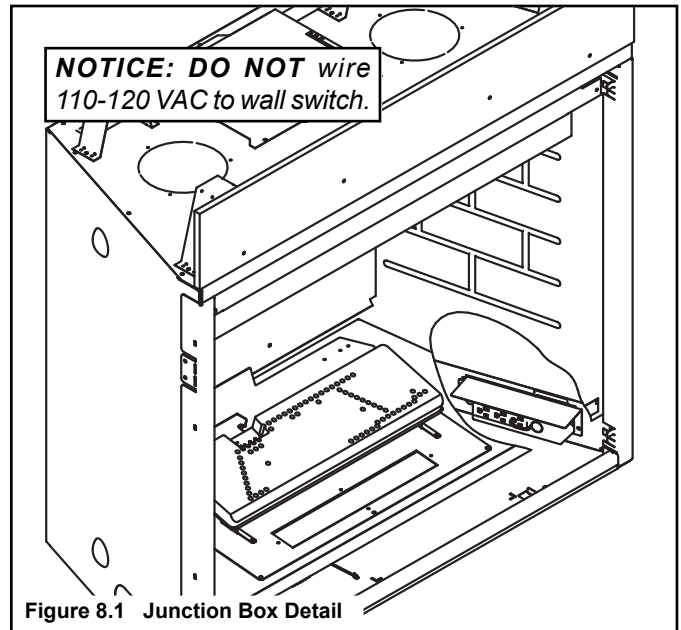
- This appliance may be used with a wall switch, wall mounted thermostat and/or a remote control.

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

Electrical Service and Repair

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

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



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

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

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



B. Wiring Requirements

IntelliFire Touch® Ignition System Wiring

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

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

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

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

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

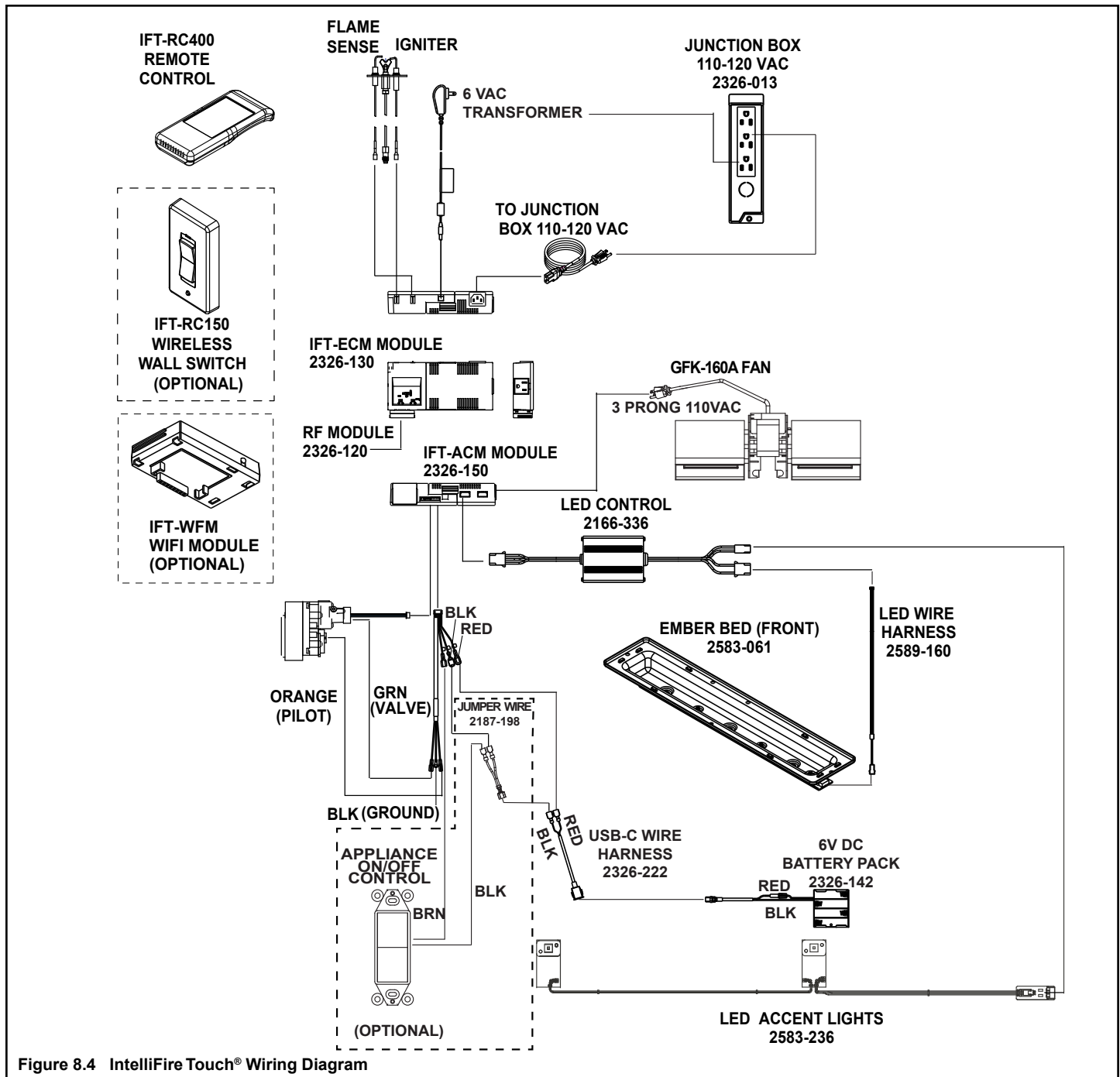


Figure 8.4 IntelliFire Touch® Wiring Diagram

C. Service for Fan

Service should be performed by a qualified service technician.

- Remove decorative barrier front, glass, logs, base pan assembly, burner assembly and valve plate assembly.
- Service can be performed through the valve plate cavity. See Figure 8.5.
- Reinstall valve plate assembly, burner assembly, basepan assembly, logs, appliance glass and decorative barrier front.

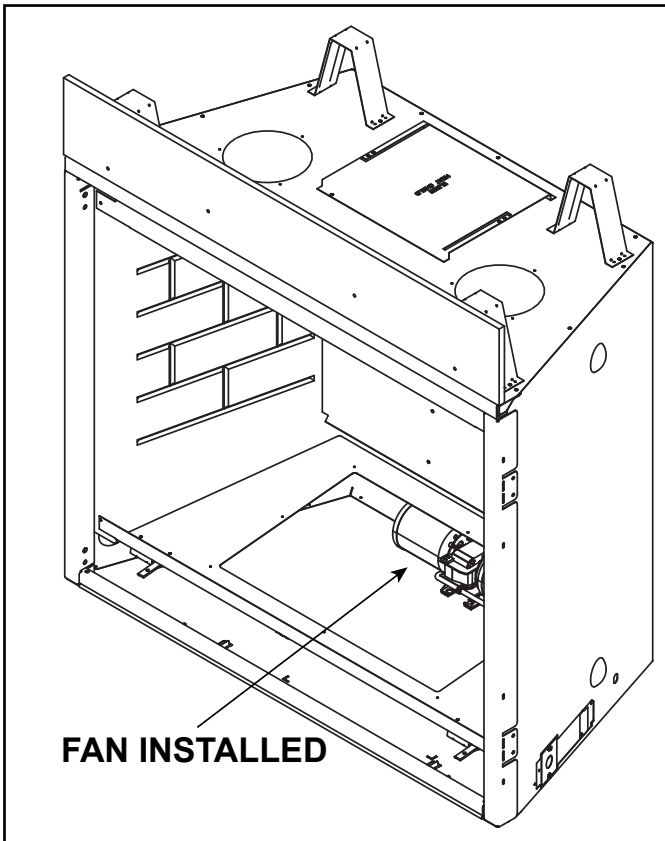


Figure 8.5 Fan Installed in Valve Plate Cavity

9 Gas Information

A. Fuel Conversion

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

B. Gas Pressure

⚠ WARNING



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

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

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

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

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

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

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

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

C. Gas Connection

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

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

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

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

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

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

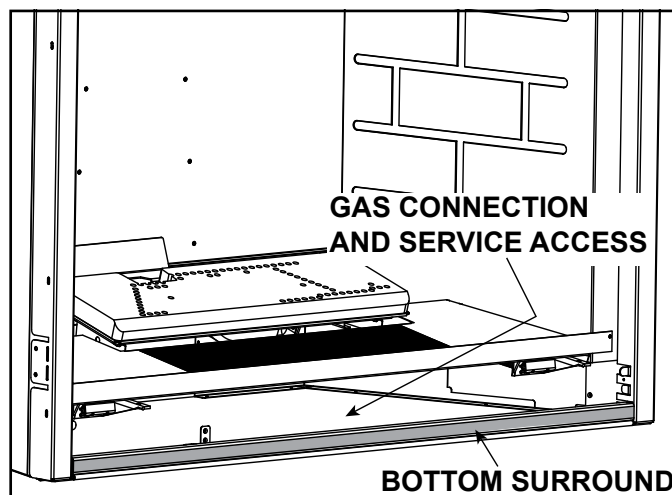


Figure 9.1 Bottom Surround Removal

D. High Altitude Installations

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

When installing above 2000 feet elevation:

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

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

E. Air Shutter Setting

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

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

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

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

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

Rear Vented with the DVP-TRAP2 termination cap

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

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

Air Shutter Settings

(Factory Set to Minimum Vent Runs)

MODEL	GAS TYPE	MINIMUM VENT RUN
MER36PN	NG	3/4 IN.
MER36PL	PROPANE	1 IN.
MER42PN	NG	1 IN.
MER42PL	PROPANE	1 IN.

Shutter Setting Verification / Flame Appearance

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

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

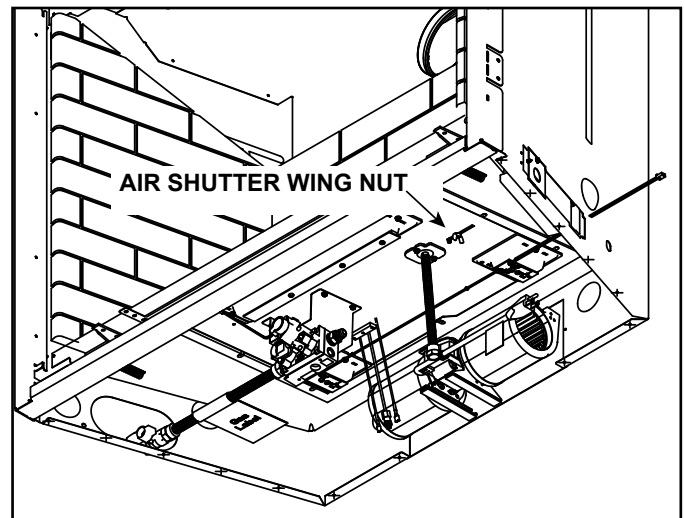


Figure 9.2 Air Shutter

Burner Identification

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



Figure 9.3 Burner Identification

F. Service/Replace Appliance Gas Valve

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

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

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

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

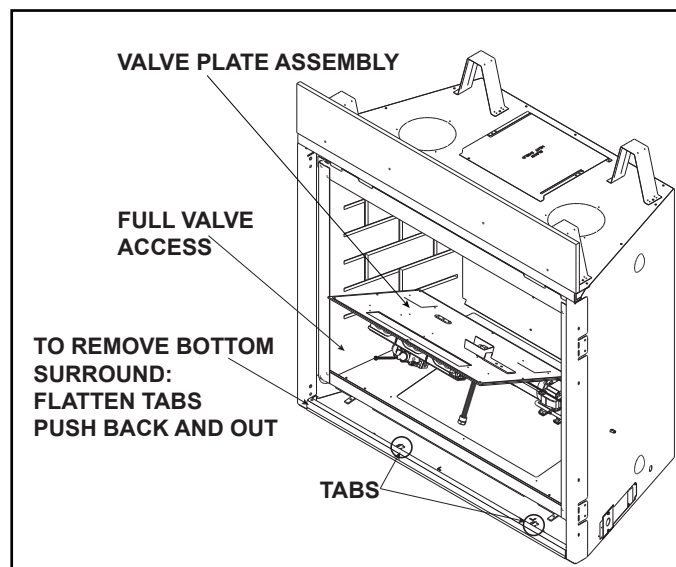


Figure 9.4 Gas Valve Access

10 Finishing

A. Facing Material

⚠ WARNING

Risk of Fire!

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

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

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

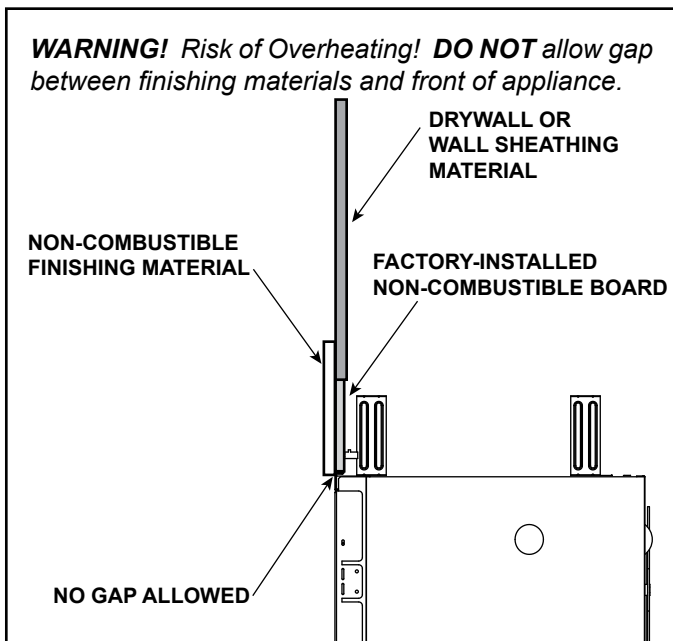


Figure 10.1 Finishing Material Installed

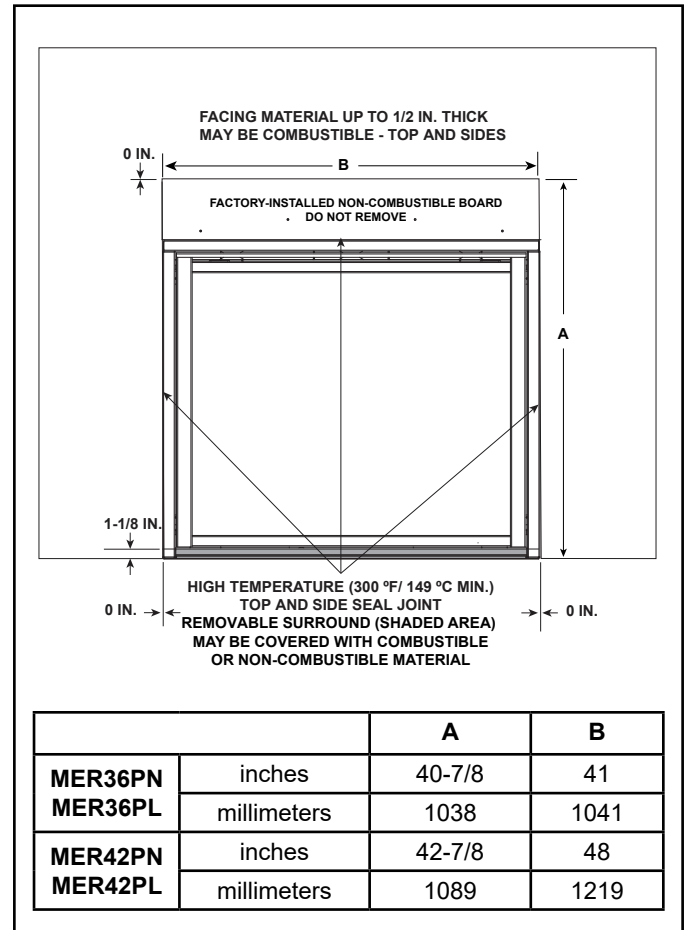


Figure 10.2 Non-combustible Facing Diagram

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

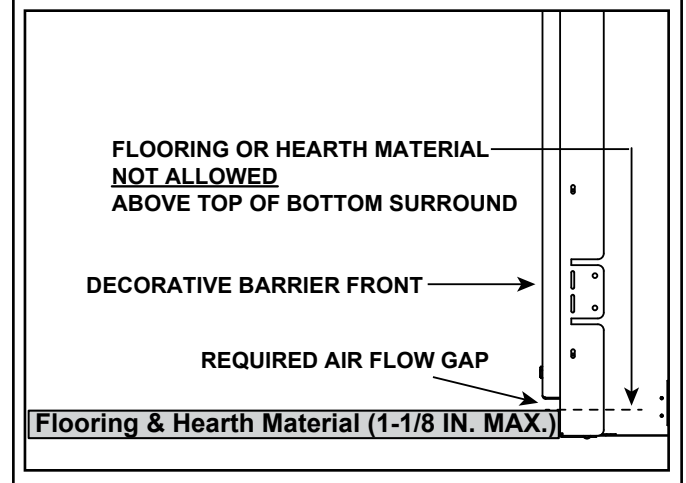


Figure 10.3 Required Air Flow Gap

B. Installing a Television

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

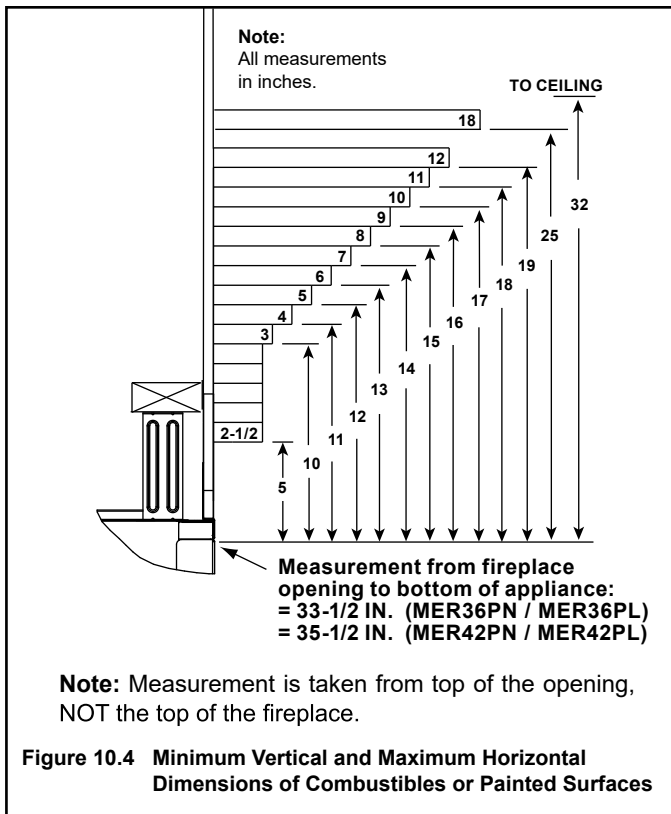
C. Mantel and Wall Projections

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

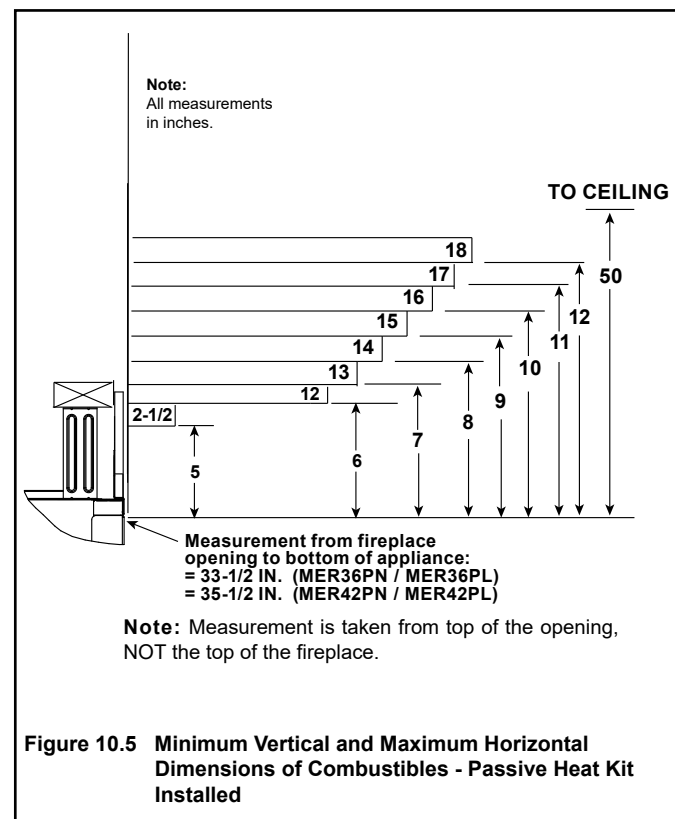
- Framing closer than the minimums listed must be constructed entirely of non-combustible materials (i.e., steel studs, concrete board, etc.).
- No gaps allowed between the wall and the bottom of the mantel.
- Combustible mantel legs and wall projections may be applied over the non-combustible board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

Mantel requirements are shown in Figures 10.4-10.9.

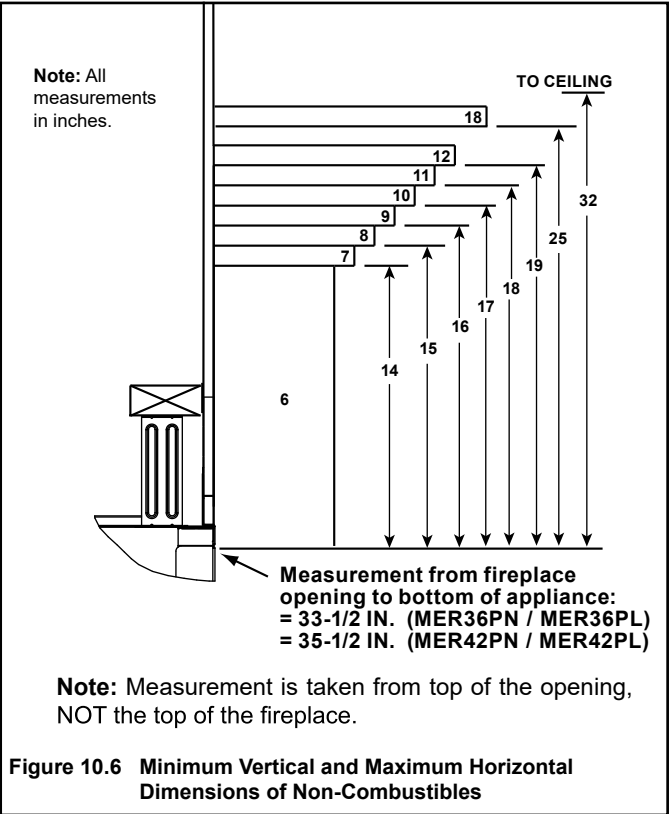
Combustible Mantels



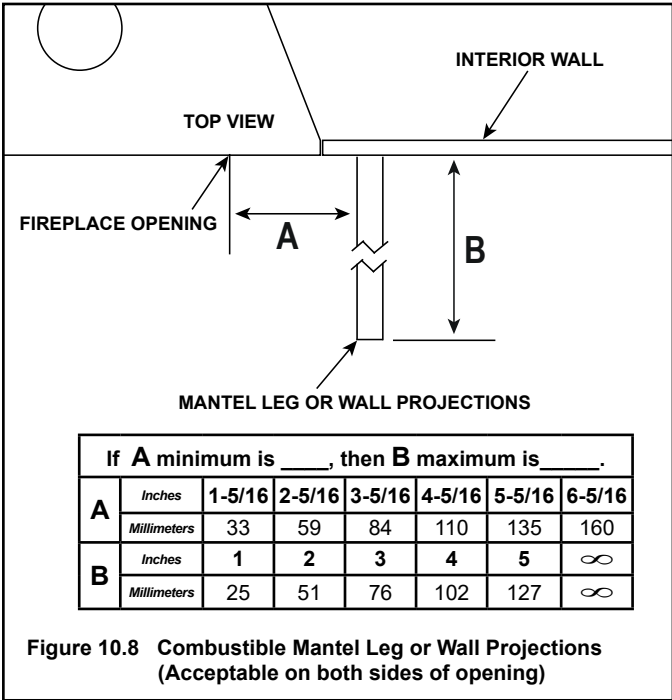
Combustible Mantels - Passive Heat Installed



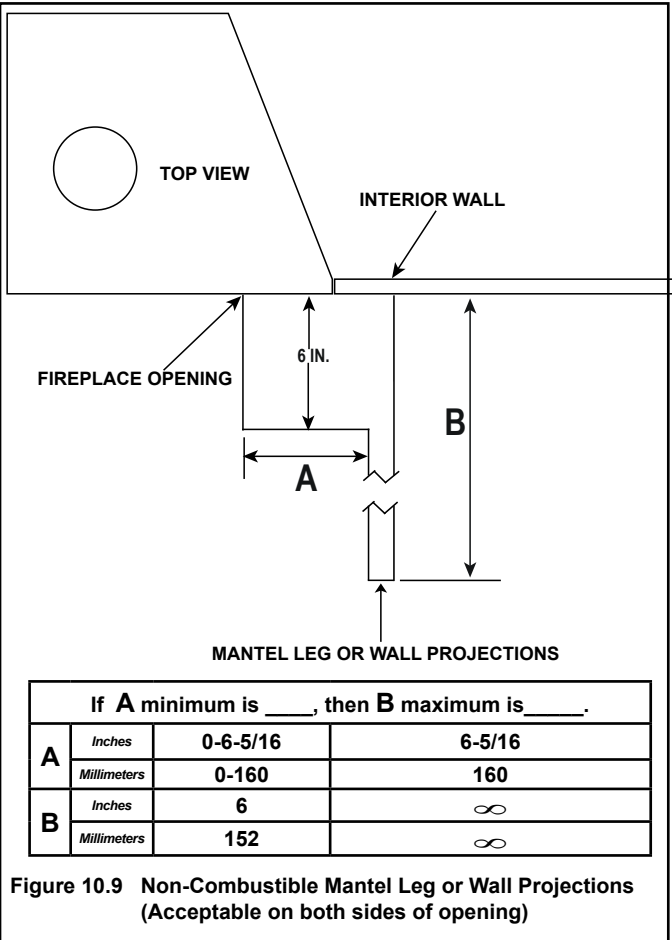
Non-Combustible Mantels



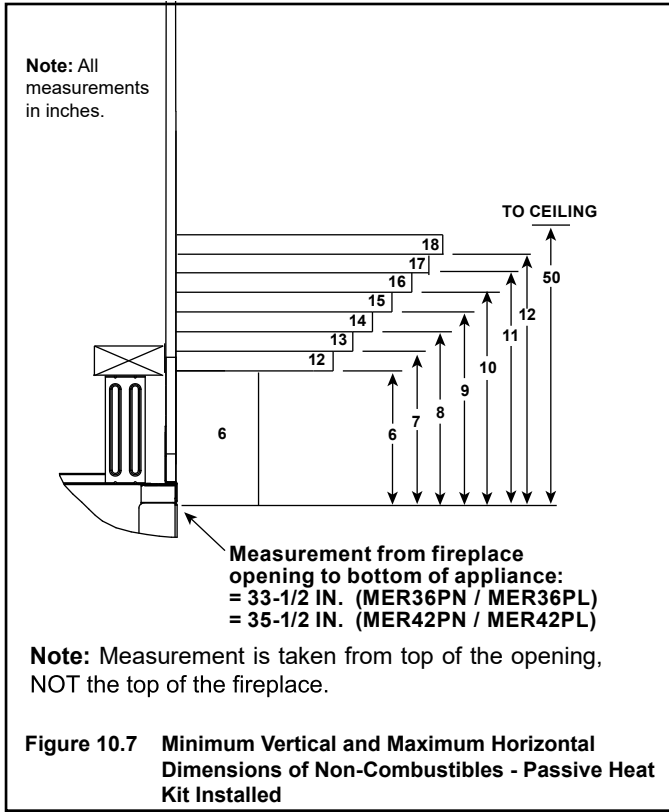
Combustible Mantel Legs or Wall Projections



Non-Combustible Mantel Legs or Wall Projections

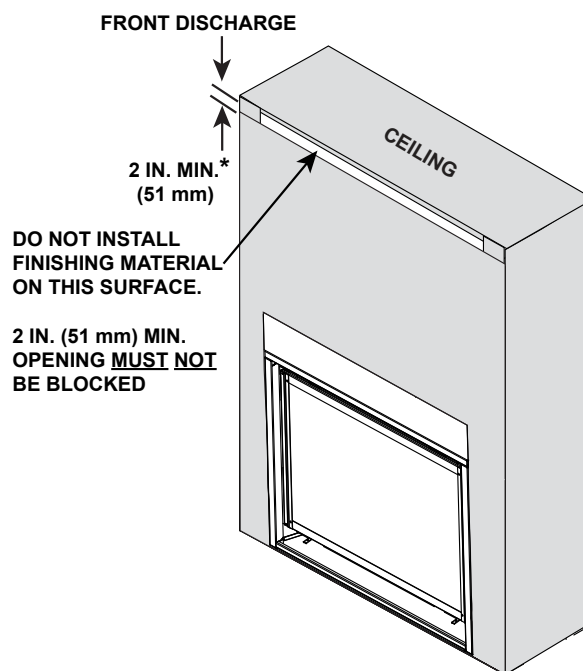
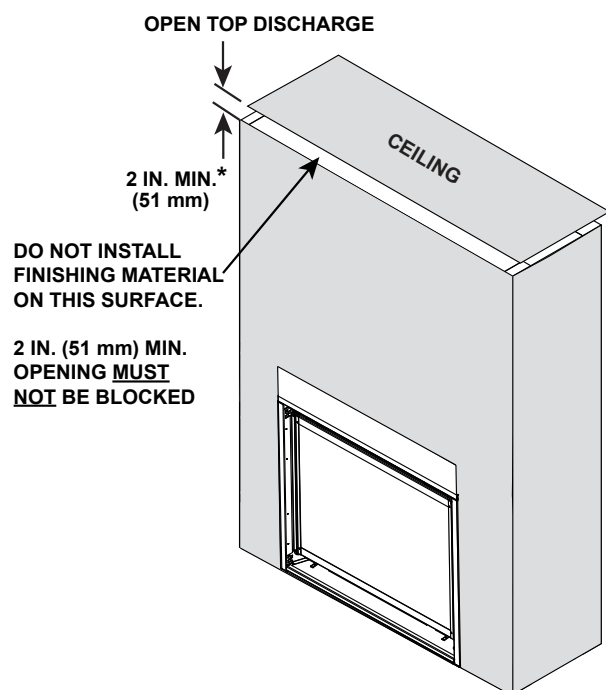


Non-Combustible Mantels - Passive Heat Installed



Finishing Material Installed with Passive Heat Optional Heat Management System

 = COMBUSTIBLE MATERIAL ALLOWED



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

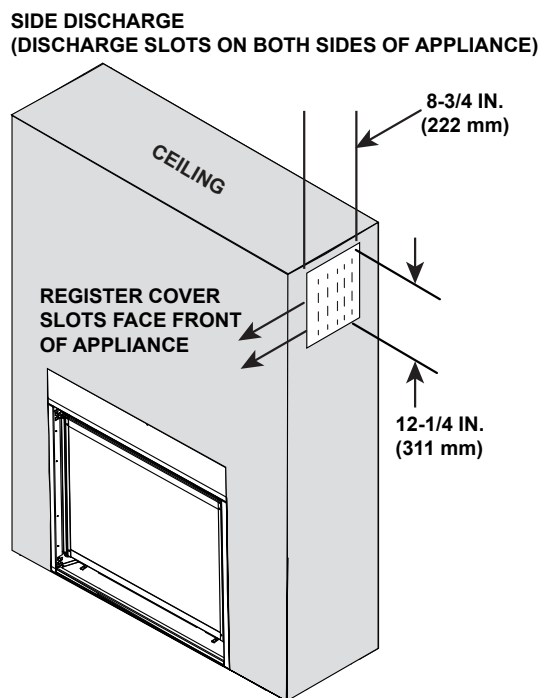


Figure 10.10 Finishing Material installed with Passive Heat Optional Heat Management System

D. Hearth Extension

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

E. Decorative Barrier Front Dimensions for Finishing

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

Decorative Barrier Front Fit Types

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

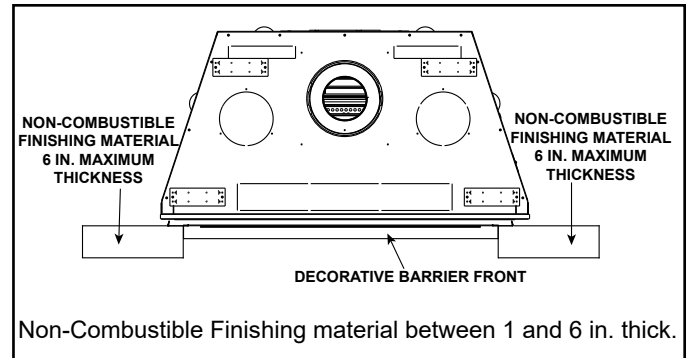


Figure 10.11 Inside Fit Decorative Barrier Front

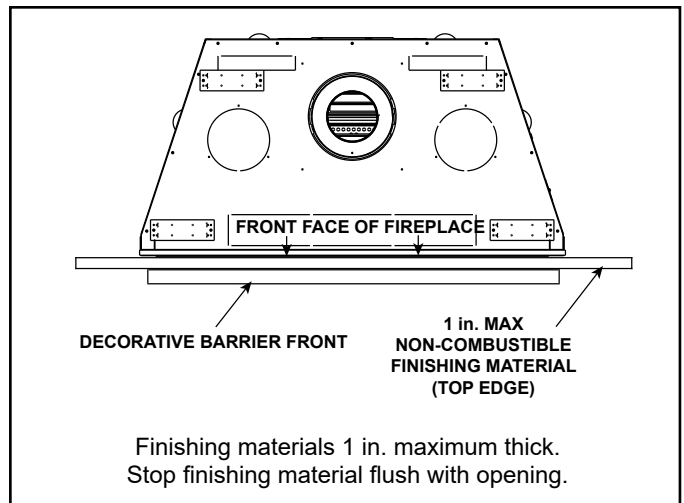


Figure 10.12 Overlap Fit Decorative Barrier Front

Decorative Barrier Front Finishing Methods

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

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

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

DECORATIVE BARRIER FRONT	FIT OPTION
MANOR	Overlap
ENSEMBLE	Overlap
VENTURA	Overlap

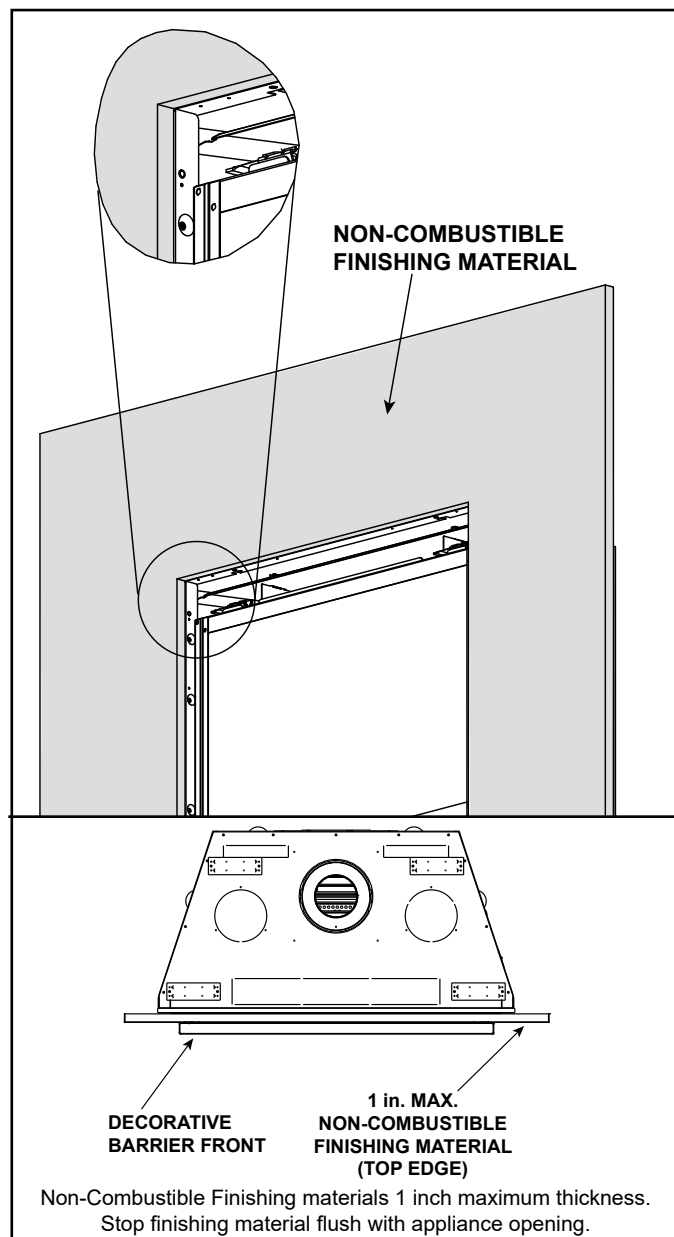


Figure 10.13 Non-Combustible Finishing Material 1 Inch Thick or Less - Overlap Fit Fronts

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

DECORATIVE BARRIER FRONT	FIT OPTION
ESSENCE	Inside

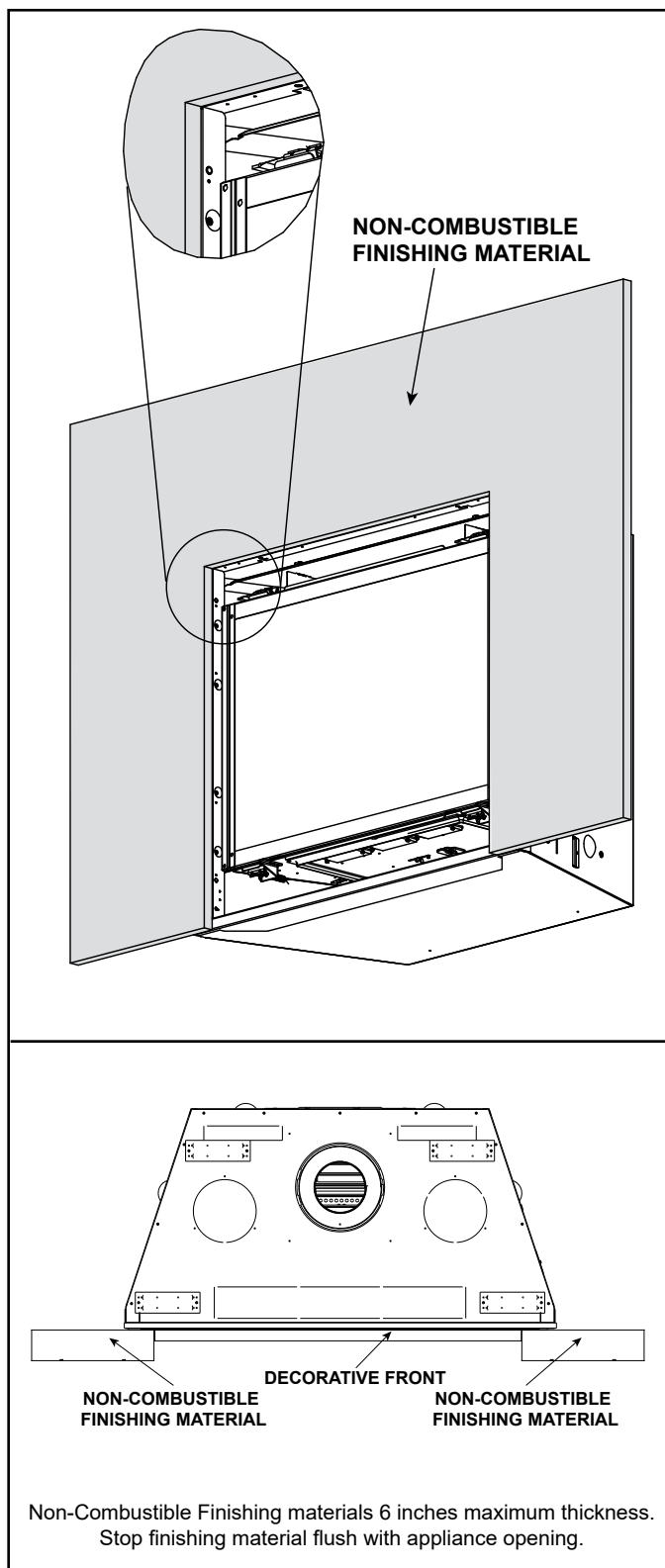


Figure 10.14 Inside Fit Method

2.A Inside Fit Method with Overlap Fit Front

FINISHING STRIPS REQUIRED

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

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

DECORATIVE BARRIER FRONT	FIT OPTION
MANOR	Inside
ENSEMBLE	Inside
VENTURA	Inside

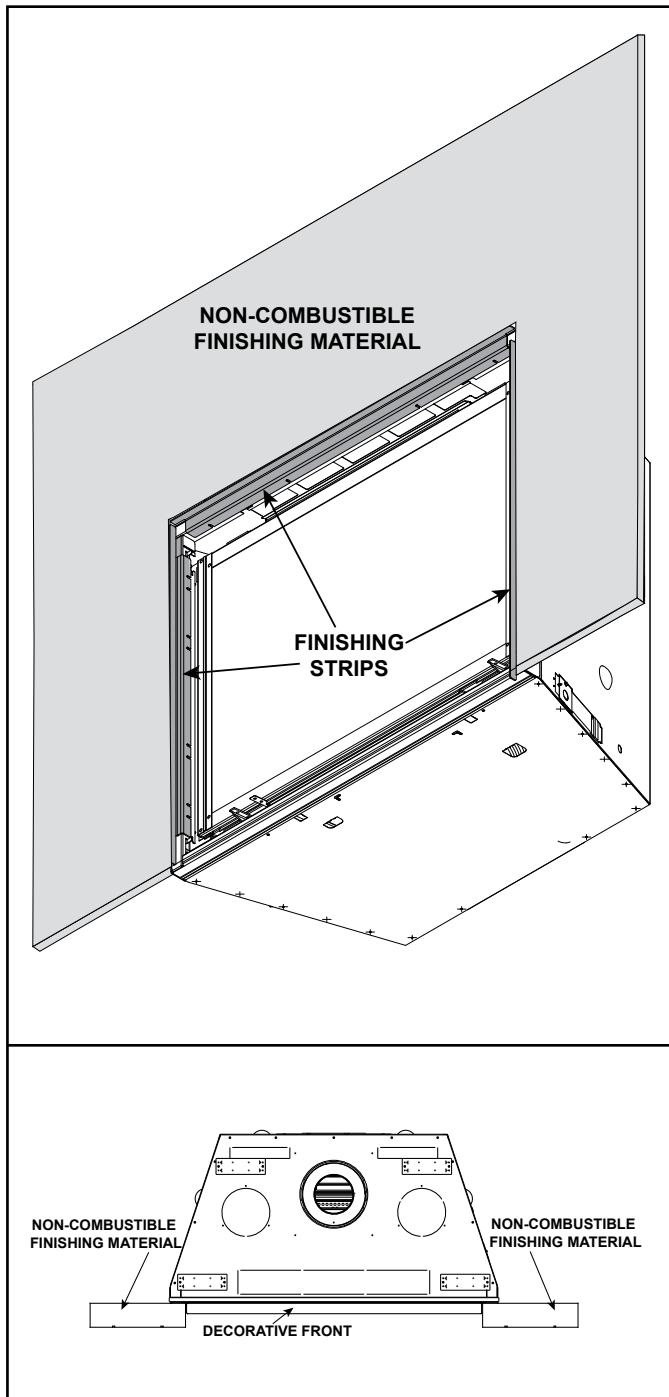


Figure 10.15 Non-Combustible Finishing Material Thickness Greater Than One Inch - Finishing Strips Required

Install and Remove Finishing Strips

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

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

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

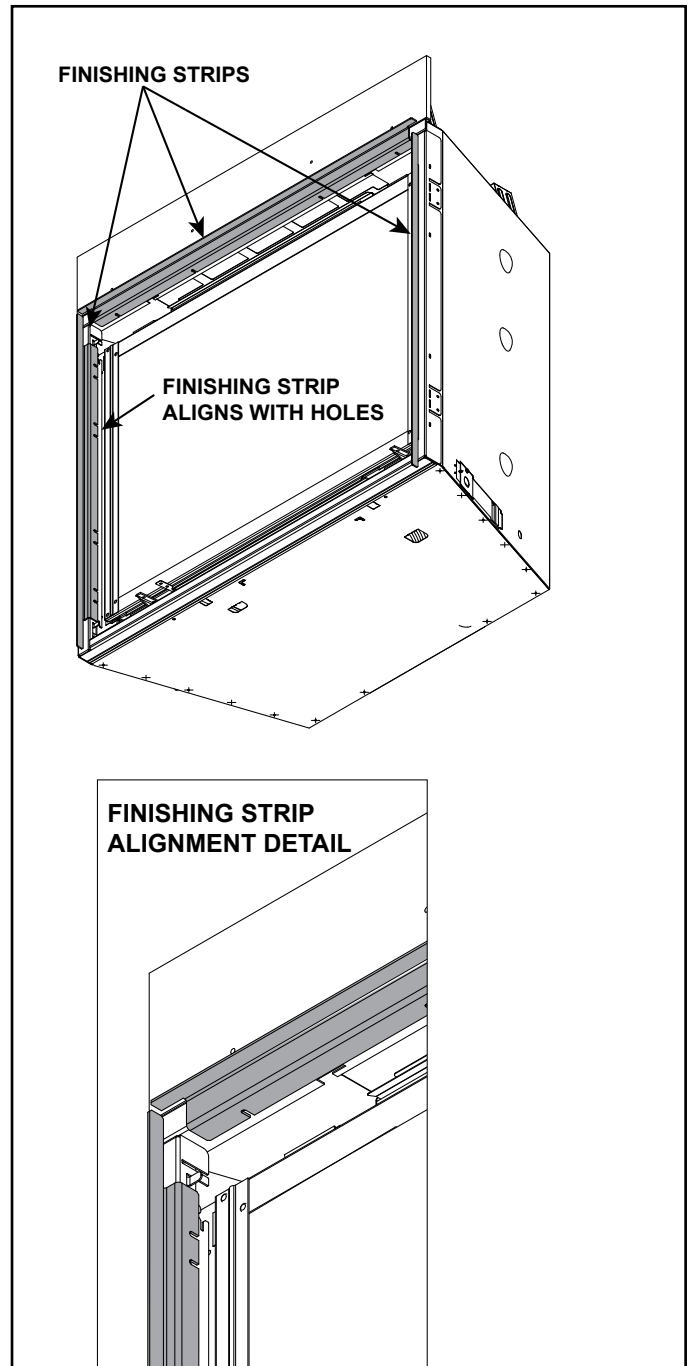
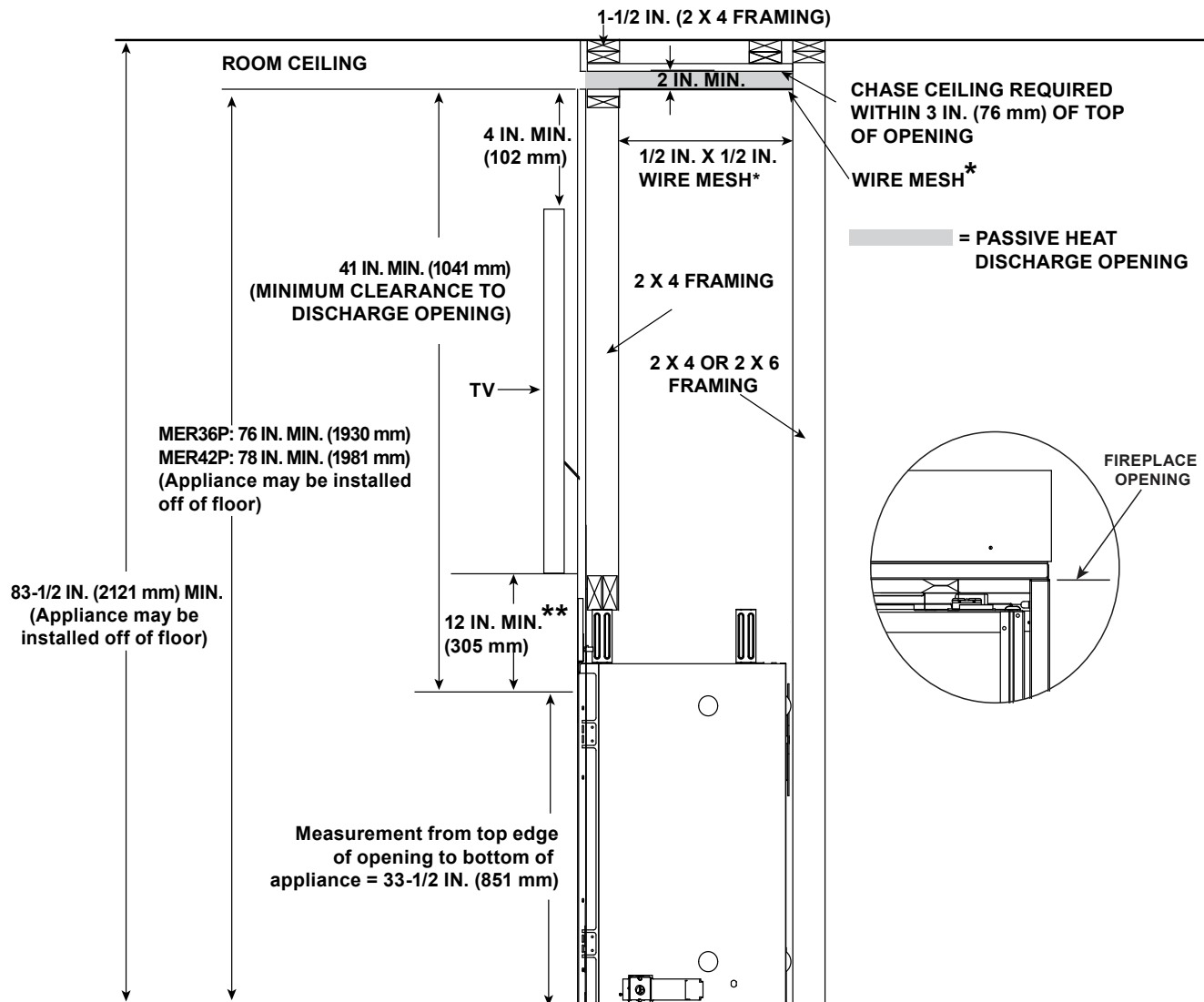


Figure 10.16 Install Finishing Strips

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

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



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

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

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

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

11 Appliance Setup

A. Remove the Shipping Materials

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

Remove shipping materials from inside or underneath the firebox.

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

B. Clean the Appliance

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

C. Install the Refractory (Required)

WARNING! Risk of Fire! DO NOT operate appliance without refractory. Overheating will occur.

Refractory must be ordered at time of appliance purchase and is required to be installed prior to operation of the appliance. Refer to Section 12.B for color options. Contact your dealer to order.

1. Locate the back refractory panel and turn it so the grout lines will align with the grout lines on the side panels when installed. Install the back refractory panel as shown in Figure 11.1. Carefully place it on the back air passage return bend behind the log stop.
2. It is necessary to hold the back refractory panel with one hand while installing the side refractory panel as shown in Figure 11.3. Photos show the right side being installed first.
3. Locate the notch on the side refractory panel, highlighted in Figure 11.2.

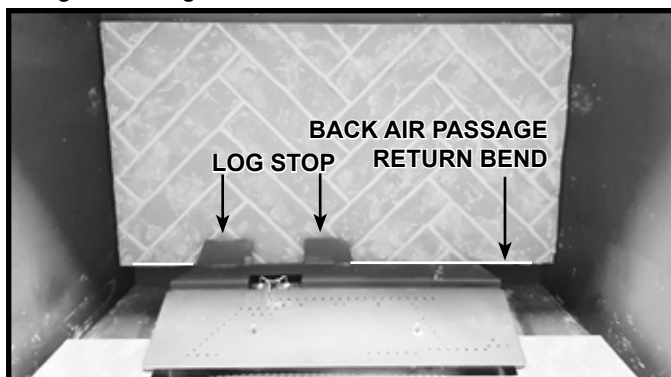


Figure 11.1 Install Back Refractory Panel

4. Install the side refractory panel as shown in Figure 11.3. Level the side refractory panel and gently push it toward the back of the firebox until it meets the back refractory panel, holding it in place. Figure 11.4 shows the side refractory panel installed.

Note: When the side panel is properly placed, the bottom front edge extends outward over the firebox lip as noted in Figure 11.4. The top front edge remains flush with the front edge of the firebox.

5. Repeat steps 3 and 4 for the other side refractory panel.

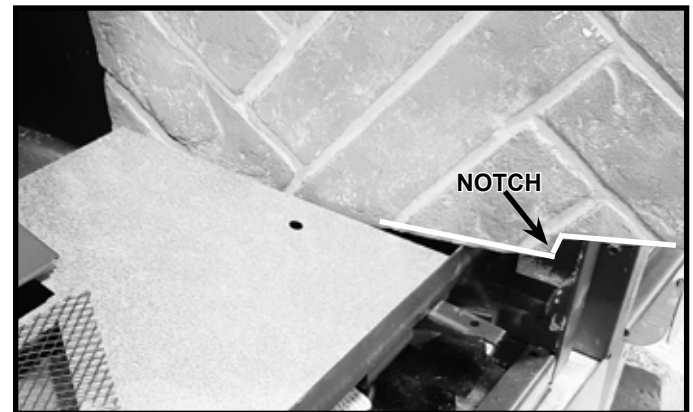


Figure 11.2 Side Refractory Panel Notch



Figure 11.3 Install Side Refractory Panel (Right Side Shown)



Figure 11.4 Side Refractory Panel Installed (Right Side Shown)

6. Install the top refractory panel by placing onto the left and right side refractory pieces as shown in Figure 11.5 and sliding toward the rear of the firebox.

Note: The “leg” on the top refractory will contact the rear refractory panel as shown in Figure 11.6.

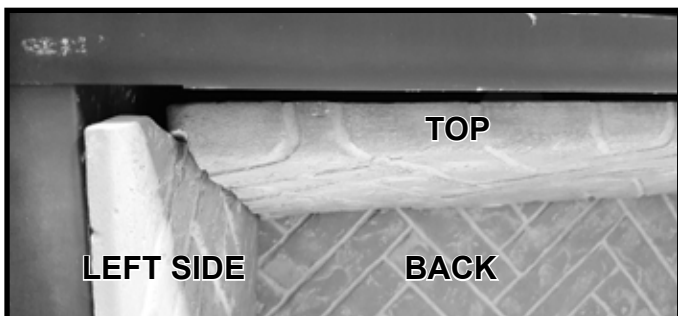


Figure 11.5 Install Top Refractory Panel - Left Side Shown

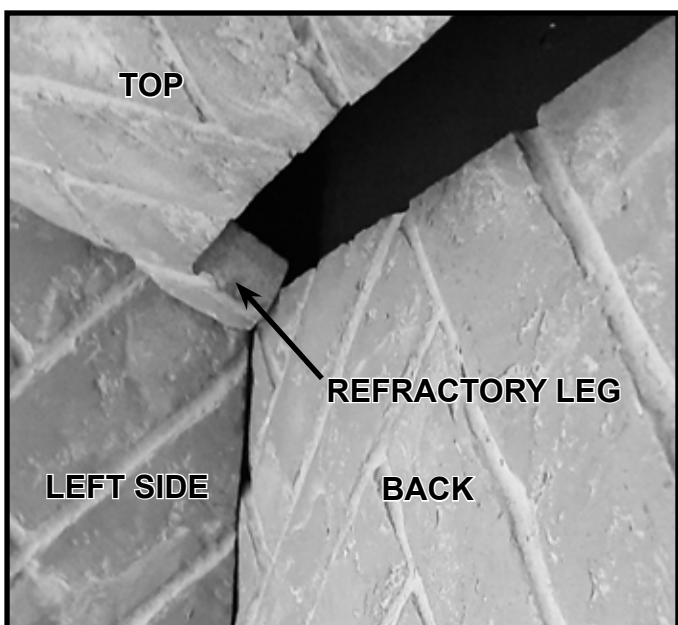


Figure 11.6 Top Refractory Panel Installed

7. **MER42P Models Only:** Place the optional rear base refractory pieces on the left and right sides in the rear of the firebox. Push back and toward the side of the firebox as shown in Figure 11.7. The base refractory piece should contact the side and back refractory panel.
8. Prior to placing base refractory, ensure the basepan is centered left to right and is positioned forward enough that it contacts the firebox front as noted in Figure 11.8. Place the two front base refractory pieces as shown in Figure 11.8. Ensure that the profile of the refractory fits over the firebox lip as shown in Figure 11.9.

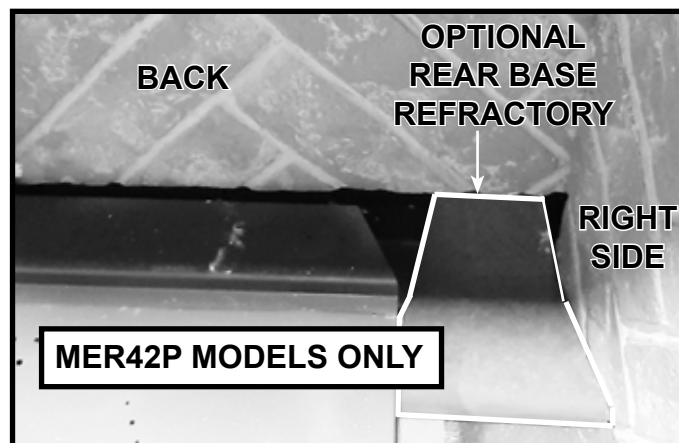


Figure 11.7 MER42P Models Only: Optional Rear Base Refractory Piece Installed (Right Side Shown)

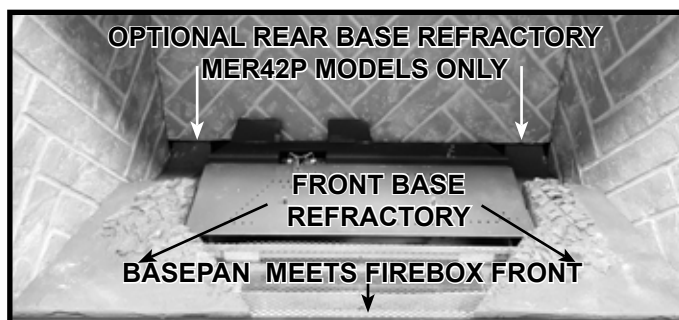


Figure 11.8 MER42P Models Only: Base Refractory Pieces Installed

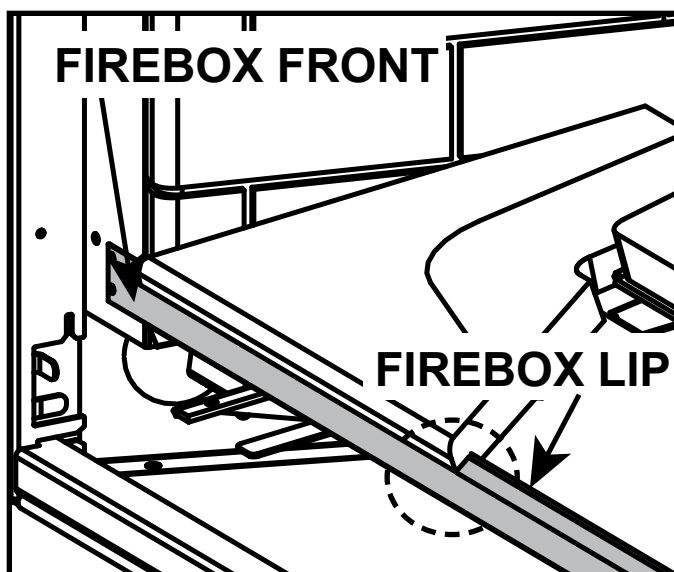


Figure 11.9 Front Base Refractory Installed

D. Install the Illuminated Embers

The Illuminated Embers are shipped from the factory pre-painted. If a darker appearance is desired, the illuminated embers may be fogged with high temperature black paint. Hearth and Home Technologies part number TUP-GBK-12.

Fogging Tips

- Apply paint with the ember lights turned on. This will help you avoid over fogging or under fogging.
- Reduce the lighting in the room while applying the paint.
- Fog the Illuminated Embers to create a realistic coal bed appearance.
- Allow the paint to dry/cure a minimum of 15 minutes.

Illuminated Embers Placement

1. Pour the provided Stone Media between the left and right base refractories as shown in Figure 11.12.

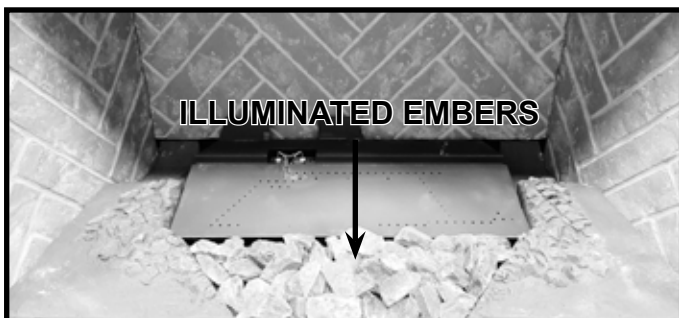


Figure 11.10 Illuminated Embers Installed

E. Install Burner Media/Embers

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

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

- Embers CANNOT completely block burner ports. Care should be taken not to block the lighting trail of ports.
- Embers may only be placed in areas as shown in Figure 11.11.
- Save the remaining ember materials for use during appliance servicing. The embers provided should be enough for 3 to 5 applications.

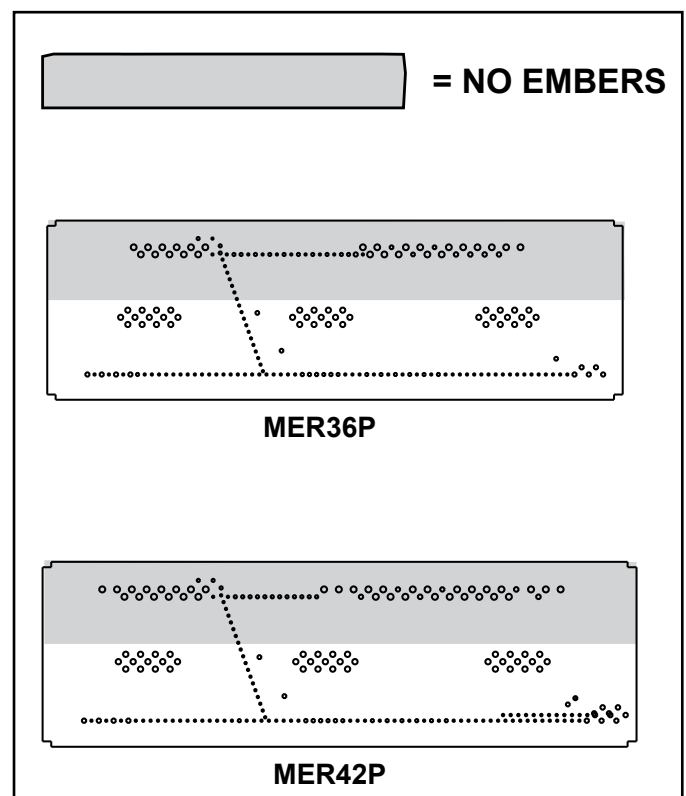


Figure 11.11 Burner Media / Ember Placement

F. Install the Log Assembly

Log Set Assembly: LOGSMER36

LOG PLACEMENT INSTRUCTIONS

Models: MER36PN, MER36PL, MER36N, MER36L



Leave this manual with party responsible for use and operation.

CAUTION: Logs are fragile, handle with care.

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

Installation

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

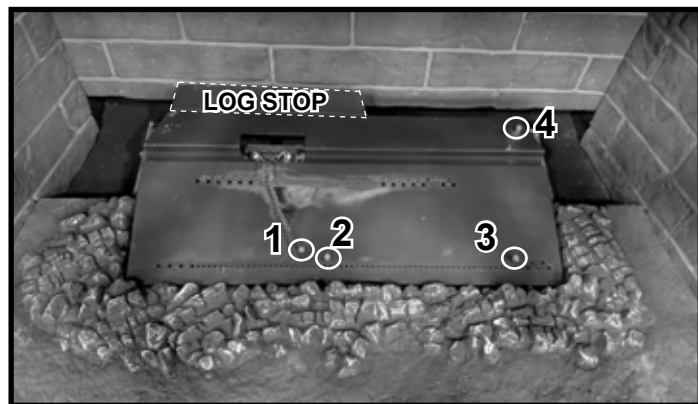


Figure 2 Locations for Log Pins

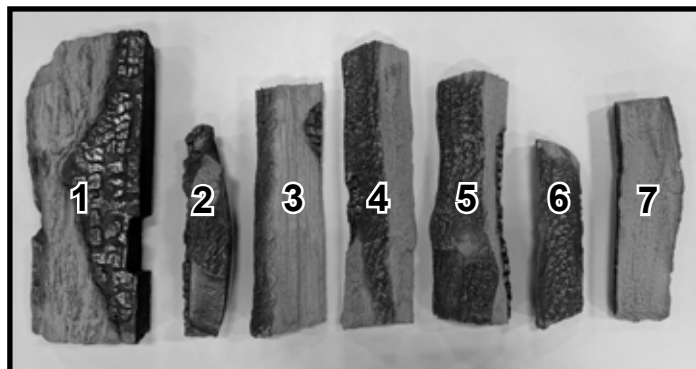


Figure 1 Log Identification



Figure 3 Position Log #1

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

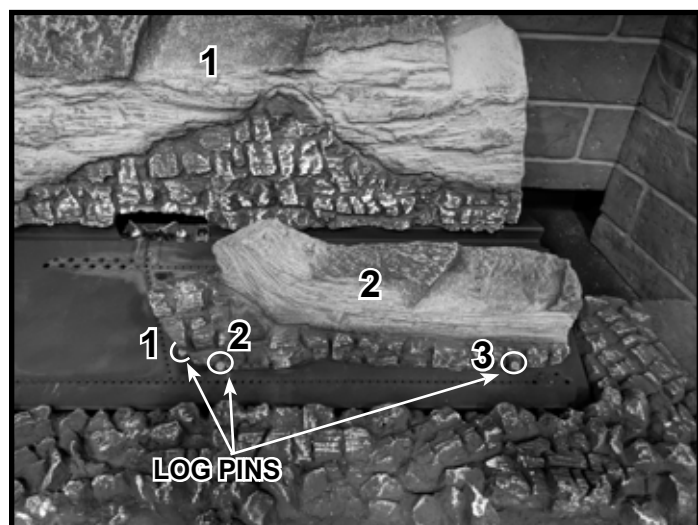


Figure 4 Position Log #2

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



Figure 5 Position Log #3

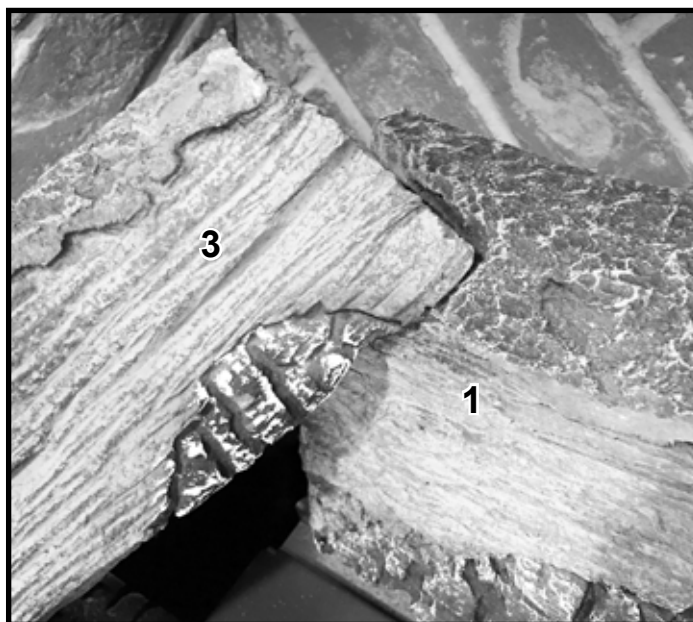


Figure 6 Position Log #3

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

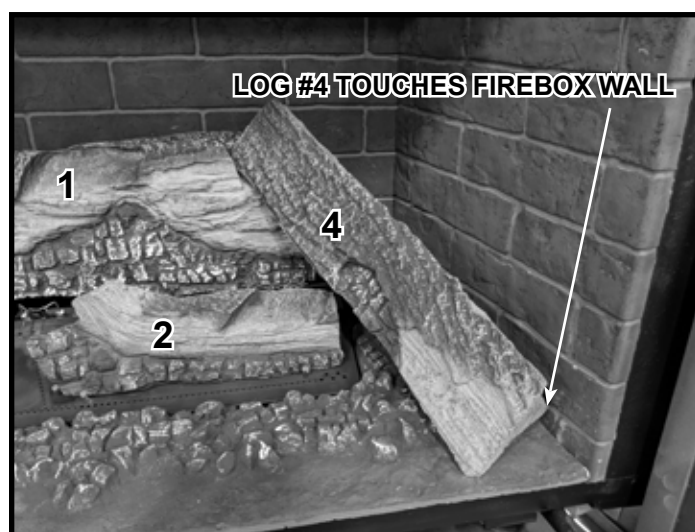


Figure 7 Place Log #4

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

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

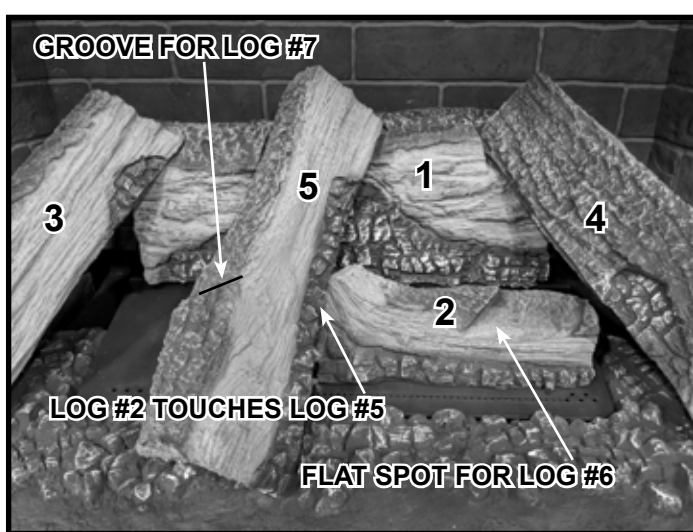


Figure 8 Place Log #5

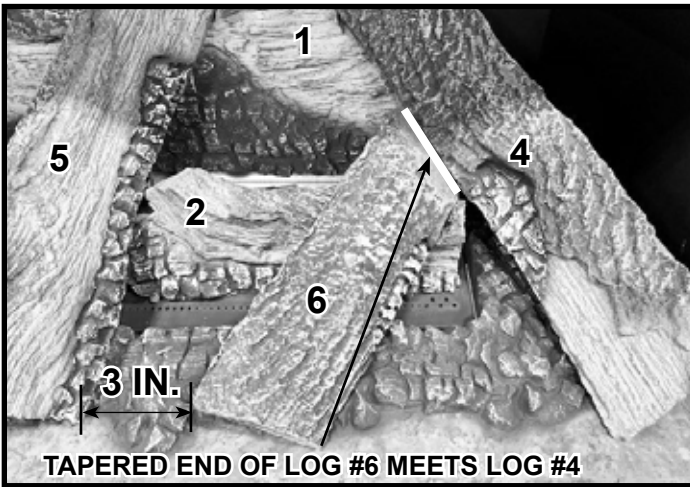


Figure 9 Place Log #6

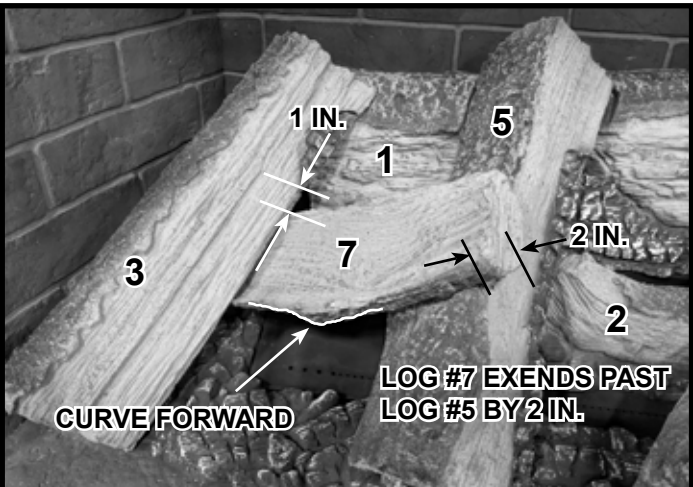


Figure 10 Place Log #7

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

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



Figure 11 Log Set Installed Properly

Service Parts List

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

2596-935B

LOG PLACEMENT INSTRUCTIONS

Log Set Assembly: LOGSMER42

Models: MER42PN, MER42PL, MER42N, MER42L



Leave this manual with party responsible for use and operation.

CAUTION: Logs are fragile, handle with care.

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

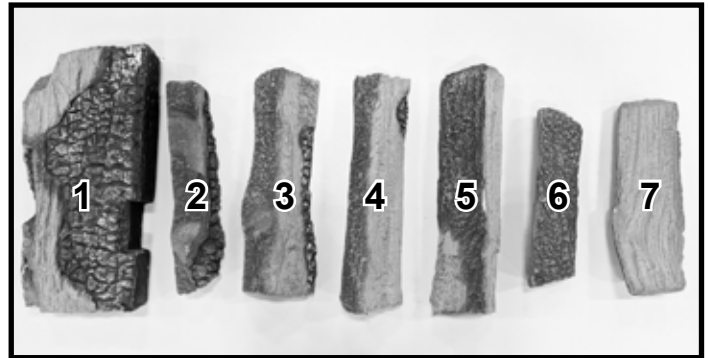


Figure 1 Log Identification

Installation

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

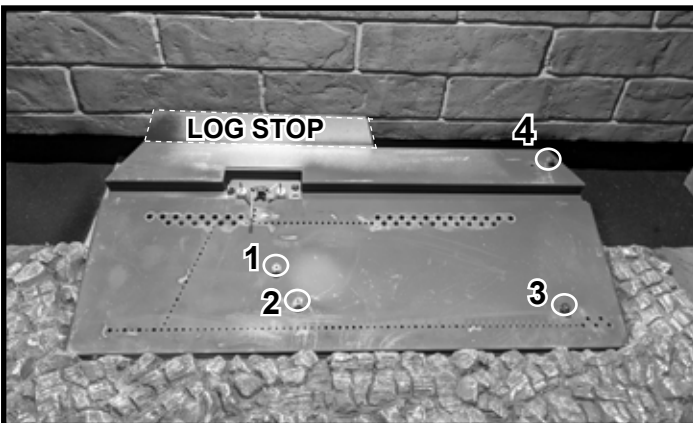


Figure 2 Locations for Log Pins

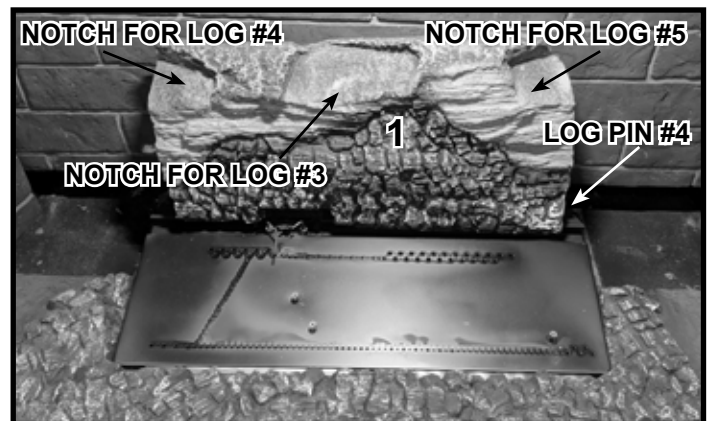


Figure 3 Position Log #1

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

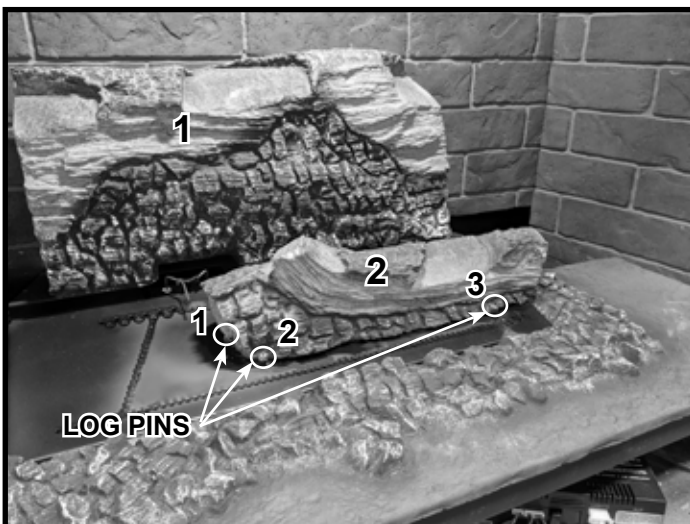


Figure 4 Position Log #2

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

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



Figure 5 Position Log #3

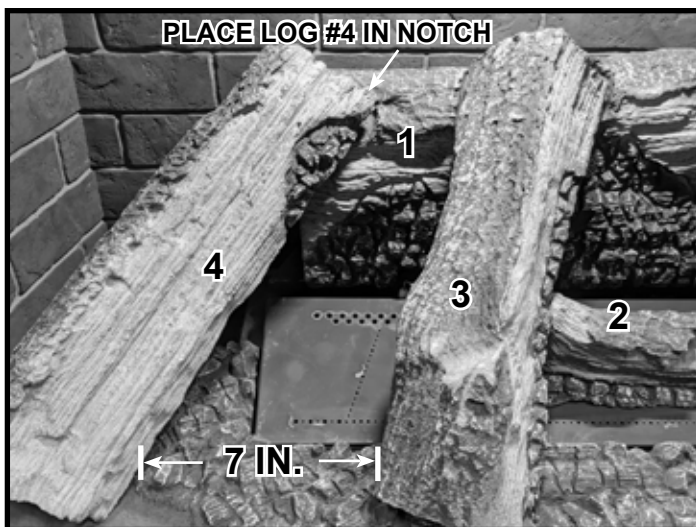


Figure 6 Place Log #4

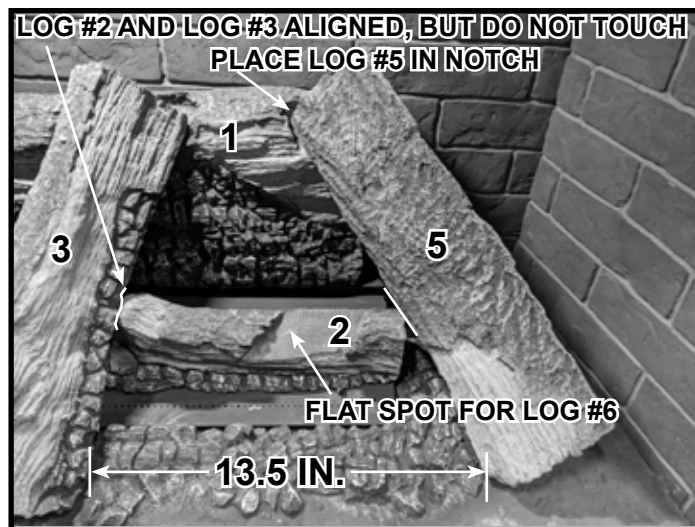


Figure 7 Place Log #5

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

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

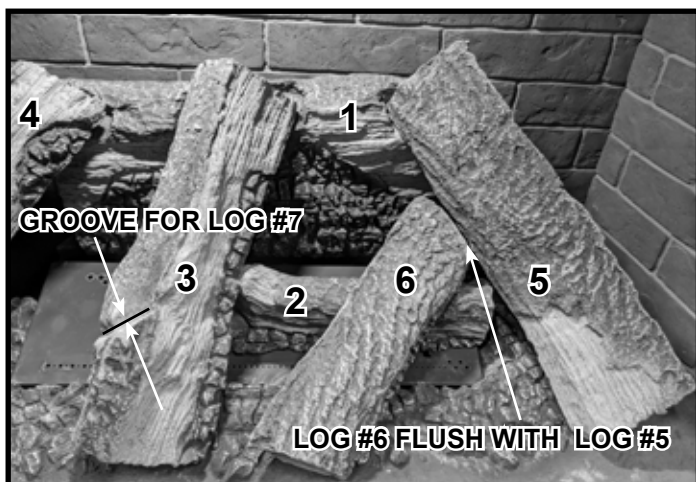


Figure 8 Place Log #6

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

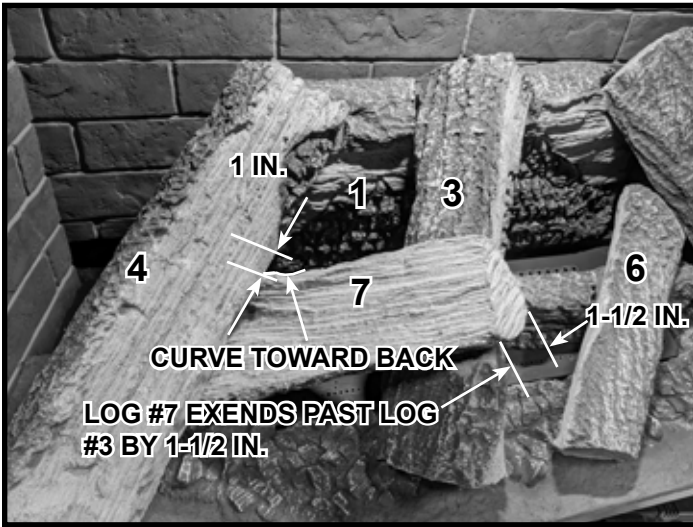


Figure 9 Place Log #7

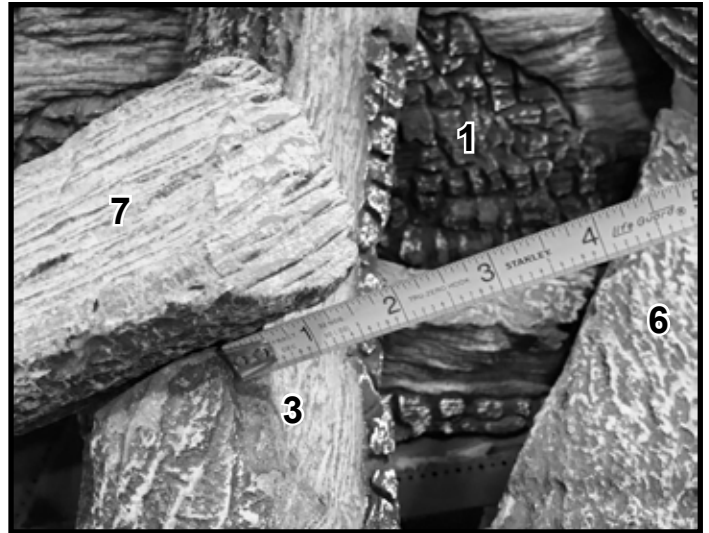


Figure 10 Edge of Log #7 Extends Past Log #3

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

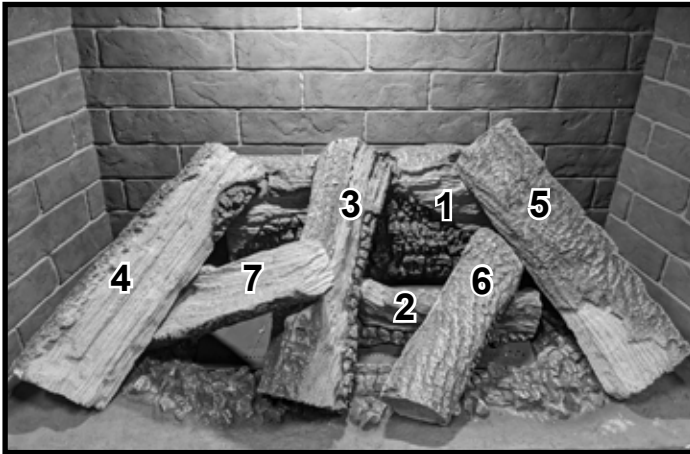


Figure 11 Log Set Installed Properly

Service Parts List

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

2598-935

G. IntelliFire Touch® Control System Setup

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

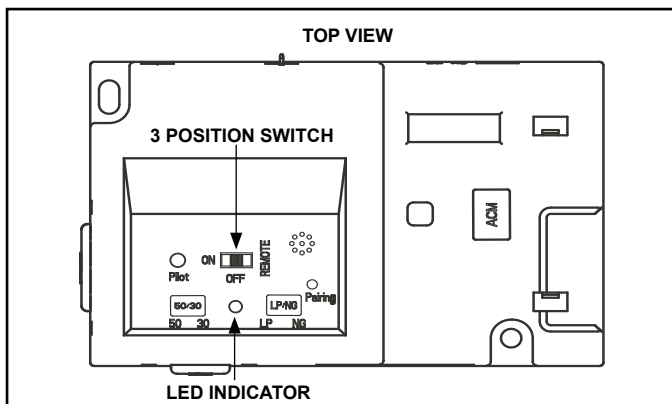


Figure 11.12 IFT-ECM

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

1. If installed, remove batteries from remote.
2. Verify that the new appliance has power and secure electrical connections.
3. Adjust the ECM selector switch to 'REMOTE' mode.
4. Switch the master reset switch to 'ON' (if equipped).
5. Wait to verify LED indicator on the ECM stops flashing.
6. Install batteries in the RC400 remote.
7. The RC400 remote will automatically pair to the appliance as pre-set at the factory.

H. Fixed Glass Assembly Removal and Replacement

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

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

Removing Fixed Glass Assembly

- Pull the four glass assembly latches away from the tabs on the glass frame. Remove glass assembly from the appliance. See Figure 11.13.

Replacing Fixed Glass Assembly

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

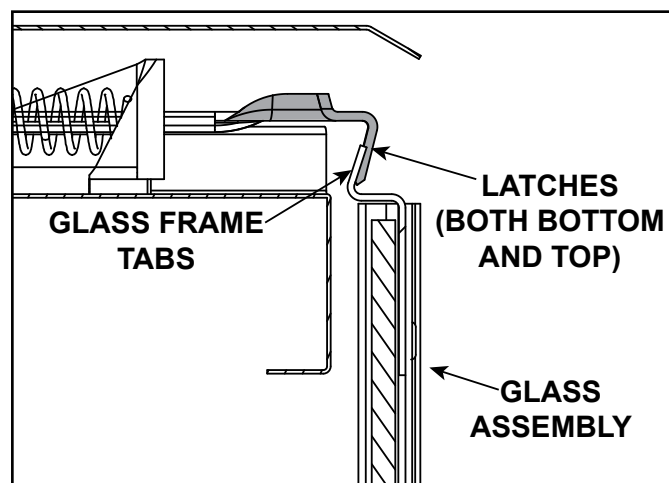


Figure 11.13 Fixed Glass Assembly

I. Install Decorative Barrier Front

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

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

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

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

12 Reference Materials

A. Approved Vent Components List

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

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



[Vent Components](#)

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

B. Accessories

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

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

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

Options:

Remote Controls, Wall Controls and Wall Switches		
IFT-RC150-MAJ	IntelliFire Touch wireless wall switch	
IFT-RC400	IntelliFire Touch remote control	(Shipped standard)
IntelliFire Wi-Fi module with IntelliFire App		
IFT-WFM	IntelliFire Wi-Fi module for app	
Refractory Kits (Required)		
GL-36MX / GL-42MX	Black Glass Liner	
BRICK36MPLCS / BRICK42MPLCS	Castle Stone Brick Refractory	
SRV2586-077-TG* Optional rear base refractory, for use with Castle Stone		
BRICK36MPLTB / BRICK42MPLTB	Tavern Brown Brick Refractory	
SRV2586-077-NS* Optional rear base refractory, for use with Tavern Brown or Tavern Brown Herringbone		
BRICK36MPLTBH / BRICK42MPLTBH	Tavern Brown Herringbone Brick Refractory	
SRV2586-077-NS* Optional rear base refractory, for use with Tavern Brown or Tavern Brown Herringbone		
*Optional rear base refractory recommended for aesthetic purposes only. MER42PN / MER42PL only.		
Heat Management Systems Kits		
HEAT-OUT-GAS	Heat-Out-Gas	
HEAT-ZONE-GAS	Heat-Zone-Gas	
HZMR-ADP	Heat Zone Adapter	
PH-MR	Passive Heat-Front, Side or Top Discharge	
PH-SIDETRIM	Passive Heat registers for side discharge (requires PH-MR)	
PH-FRTTRIM-36, PH-FRTTRIM-42	Passive Heat registers for front discharge (requires PH-MR)	

Majestic, a brand of Hearth & Home Technologies
7571 215th Street West, Lakeville, MN 55044
www.majesticproducts.com

Please contact your Majestic dealer with any questions or concerns.
For the location of your nearest Majestic dealer,
please visit www.majesticproducts.com.

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