



# INSTALLATION AND OPERATION MANUAL

## SAFETY INFORMATION

### ! 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.
- Immediately call your gas supplier from a neighbour'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 supplier.

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

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

#### INSTALLER:

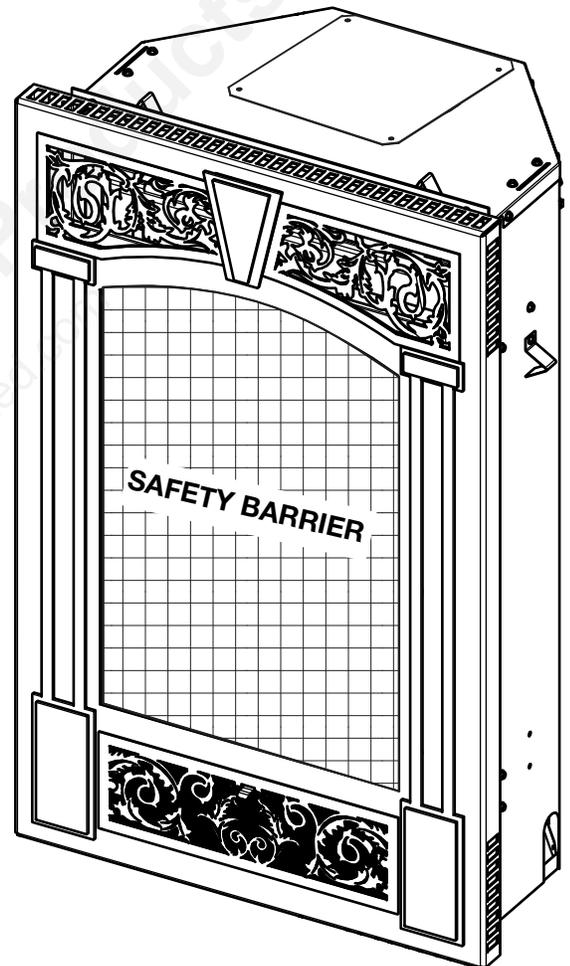
Leave this manual with the appliance

#### CONSUMER:

Retain this manual for future reference

## Vittoria™

(Illustrated with Traditional Surround)



### FOR INDOOR USE ONLY

CERTIFIED TO THE CANADIAN AND AMERICAN NATIONAL STANDARDS:  
CSA 2.22 AND ANSI Z21.50 FOR VENTED DECORATIVE GAS APPLIANCES

APPLY SERIAL NUMBER LABEL FROM CARTON



Wolf Steel Ltd., 24 Napoleon Rd., Barrie, ON, L4M 0G8 Canada / 103 Miller Drive, Crittenden, Kentucky, USA, 41030  
Phone 1 (866) 820-8686 • www.napoleon.com • hearth@napoleon.com

## ! WARNING

- **This appliance is hot when operated and can cause severe burns if contacted.**
- **Any changes or alterations to this appliance or its controls can be dangerous and is prohibited.**
- Do not operate appliance before reading and understanding operating instructions. Failure to operate appliance according to operating instructions could cause fire or injury.
- Ensure the glass door is opened or removed when lighting the pilot for the first time and when the gas supply has run out.
- Risk of fire or asphyxiation, do not operate appliance with fixed glass removed and never obstruct the front opening of the appliance.
- Do not connect 110 volts to the control valve, with the exception of models; GSST8 and GT8.
- Risk of burns. The appliance should be turned off and cooled before servicing.
- Do not install damaged, incomplete or substitute components.
- Risk of cuts and abrasions. Wear protective gloves, protective footwear, and safety glasses during installation. Sheet metal edges may be sharp.
- Do not burn wood or other materials in this appliance.
- Provide adequate ventilation and combustion air. Provide adequate accessibility clearance for servicing and operating the appliance.
- High pressure will damage valve. Disconnect gas supply piping before pressure testing gas line at test pressures above 1/2 psig. Close the manual shut-off valve before pressure testing gas line at test pressures equal to or less than 1/2 psig (35mb).
- The appliance must not be operated at temperatures below freezing (32°F / 0°C). Allow the appliance to warm to above freezing prior to operation, with the exception of models; GSS36, GSS42; these appliances are suitable for 0°F / -18°C.
- **Children and adults should be alerted to hazards of high surface temperature and should stay away to avoid burns or clothing ignition.**
- **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 an appliance 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.**
- **Clothing or other flammable material should not be placed on or near the appliance.**
- **Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.**
- Furniture or other objects must be kept a minimum of 4 feet (1.22m) away from the front of the appliance.
- Ensure you have incorporated adequate safety measure to protect infants/toddlers from touching hot surfaces.
- Even after the appliance is off, it will remain hot for an extended period of time.
- Check with your local hearth specialty dealer for safety screens and hearth guards to protect children from hot surfaces. These screens and guards must be fastened to the floor.
- **Any safety screen, guard or barrier removed for servicing the appliance, must be replaced prior to operating the appliance.**
- It is imperative that the control compartments, burners and circulating blower and its passageway in the appliance and venting system are kept clean. The appliance and its venting system should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- If the appliance shuts off, do not re-light until you provide fresh air. If appliance keeps shutting off, have it serviced. Keep burner and control compartment clean.
- Under no circumstances should this appliance be modified.
- Do not allow wind or fans to blow directly into the appliance. Avoid any drafts that alter burner flame patterns.

# DANGER

**HOT GLASS WILL CAUSE BURNS.**

**DO NOT TOUCH GLASS UNTIL COOLED.**

**NEVER ALLOW CHILDREN TO TOUCH GLASS.**

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

## WARNING

- Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this appliance.
- This appliance must not be connected to a chimney flue pipe serving a separate solid fuel burning appliance.
- 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.
- Do not operate the appliance with the glass door removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person, if equipped.
- Do not strike or slam shut the appliance glass door, if equipped.
- **Only doors / optional fronts certified with the appliance are to be installed on the appliance.**
- Keep the packaging material out of reach of children and dispose of the material in a safe manner. As with all plastic bags, these are not toys and should be kept away from children and infants.
- Carbon or soot should not occur in a vent free appliance as it can distribute into the living area of your home. If you notice any signs of carbon or soot, immediately turn off your appliance and arrange to have it serviced by a qualified technician before operating it again.
- If equipped, the screen must be in place (closed) when the appliance is in operation.
- When equipped with pressure relief doors, they must be kept closed while the appliance is operating to prevent exhaust fumes containing carbon monoxide, from entering into the home. Temperatures of the exhaust escaping through these openings can also cause the surrounding combustible materials to overheat and catch fire.
- Carbon monoxide poisoning may lead to death; early signs of carbon monoxide poisoning resemble the flu, with headache, dizziness and/or nausea. If you have these signs, the appliance may not be working properly. Get fresh air at once! Have appliance serviced. Some people; pregnant women, persons with heart or lung disease, anemia, those under the influence of alcohol, those at high altitudes are more affected by carbon monoxide than others. Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.
- As with any combustion appliance, we recommend having your appliance regularly inspected and serviced as well as having a Carbon Monoxide Detector installed in the same area to defend you and your family against Carbon Monoxide (not applicable for outdoor appliances).
- Ensure clearances to combustibles are maintained when building a mantel or shelves above the appliance. Elevated temperatures on the wall or in the air above the appliance can cause melting, discolouration or damage to decorations, a TV or other electronic components.
- **For appliances equipped with a safety barrier; if the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.**
- **Installation and repair should be done by a qualified service person. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.**
- For outdoor products only: this appliance must not be installed indoors or within any structure that prevents or inhibits the exhaust gases from dissipating in the outside atmosphere.
- If applicable, the millivolt version of this appliance uses and requires a fast acting thermocouple. Replace only with a fast acting thermocouple supplied by Wolf Steel Ltd.

 **WARNING:** This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer, and chemicals including carbon monoxide, which are known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

 **WARNING** 

**FIRE RISK HAZARD / DELAYED IGNITION**

**High supply pressure will damage the valve / controls.**



Disconnect the appliance main gas valve/control from the supply piping when pressure testing that system at pressures in excess of 1/2 psi (3.5 kPa).

Isolate the appliance with it's shut off valve during any pressure testing of the supply piping at pressures equal to or less than 1/2 psi (3.5 kPa).

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**note:**

The information throughout this manual is believed to be correct at the time of printing. Wolf Steel Ltd. reserves the right to change or modify any information within this manual at any time without notice. Changes, other than editorial, are denoted by a vertical line in the margin.

**Installer, please fill out the following information:**

Customer: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Date of Installation: \_\_\_\_\_  
 Location of Appliance: \_\_\_\_\_  
 Installer: \_\_\_\_\_  
 Dealer/Distributor contact number: \_\_\_\_\_  
 Serial #: \_\_\_\_\_

Model:

**Natural Gas:**  GD19N-2

**Propane:**  GD19P-2

## 1.0 general information

When the appliance is installed at elevations above 4,500ft (1372m), and in the absence of specific recommendations from the local authority having jurisdiction, the certified high altitude input rating shall be reduced at the rate of 4% for each additional 1,000ft (305m) .

Expansion / contraction noises during heating up and cooling down cycles are normal and to be expected.

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

Provide adequate accessibility clearance for servicing and operating the appliance.

Never obstruct the front opening of the appliance.

**note:**

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

The protective wrap on plated parts is best removed when the assembly is at room temperature but this can be improved if the assembly is warmed, using a hair dryer or similar heat source. The protective wrap must be removed before operating the appliance.

**This appliance is a decorative product. It is not a source of heat, not intended as a heating appliance, and not for use with solid fuel.**



Batteries must be disposed of according to the local laws and regulations. Some batteries may be recycled, and may be accepted for disposal at your local recycling center. Check with your municipality for recycling instructions.

### 1.1 rates and efficiencies

GD19-2		
	NATURAL GAS	PROPANE GAS
Altitude (FT)	0 - 4,500	0 - 4,500
Maximum Input (BTU/hr)	11,500	11,000
Maximum Output (BTU/hr)	8,600	8,250
Minimum Inlet Gas Supply Pressure	4.5" (11mb) Water Column	11" (27mb) Water Column
Maximum Inlet Gas Supply Pressure	7" * (17mb) Water Column	13" (32mb) Water Column
Manifold Pressure Under Flow Conditions	3.5" (9mb) Water Column	10" (25mb) Water Column

\* Max. inlet pressure not to exceed 13".

## WARNING

- Always light the pilot - whether for the first time or if the gas supply has run out - with the glass door opened or removed.
- Provide adequate clearance for servicing and operating the appliance.
- Provide adequate ventilation.
- Never obstruct the front opening of the appliance.
- Objects placed in front of the appliance must be kept a minimum of 48" (121.9cm) from the front face of the appliance.
- Surfaces around and especially above the appliance can become hot. Avoid contact when appliance is operating.
- Fire risk. Explosion hazard.
- Use only Wolf Steel approved optional accessories and replacement parts with this appliance using non-listed accessories (blowers, doors, louvres, trims, gas components, venting components, etc.) could result in a safety hazard and will void the warranty and certification.

**THIS GAS APPLIANCE MUST BE INSTALLED AND SERVICED BY A QUALIFIED INSTALLER** to conform with local codes. Installation practices vary from region to region and it is important to know the specifics that apply to your area, for example in the state of Massachusetts:

- This product must be installed by a licensed plumber or gas fitter when installed within the commonwealth of Massachusetts.
- The appliance damper must be removed or welded in the open position prior to installation of an appliance insert or gas log.
- The appliance off valve must be a "T" handle gas cock.
- The flexible connector must not be longer than 36 inches (0.9m).
- A carbon monoxide detector is required in all rooms containing gas fired appliances.
- The appliance is not approved for installation in a bedroom or bathroom unless the unit is a direct vent sealed combustion product.

The installation must conform with local codes or, in absence of local codes, the National Gas and Propane Installation Code CSA B149.1 in Canada, or the National Fuel Gas Code, ANSI Z223.1 / NFPA 54 in the United States. Suitable for mobile home installation if installed in accordance with the current standard CAN/CSA Z240MH Series, for gas equipped mobile homes, in Canada or ANSI Z223.1 and NFPA 54 in the United States.

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (35 mb).

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (35 mb). When installed with a blower or fan, the junction box must be electrically connected and grounded in accordance with local codes. In the absence of local codes, use the current CSA C22.1 Canadian Electrical Code in Canada or the ANSI / NFPA 70 National Electric Code in the United States. In the case where the blower is equipped with a power cord, it must be connected into a properly grounded receptacle. The grounding prong must not be removed from the cord plug.

The following does not apply to inserts; as long as the required clearance to combustibles is maintained, the most desirable and beneficial location for an appliance is in the center of a building, thereby allowing the most efficient use of the heat created. The location of windows, doors and, the traffic flow in the room where the appliance is to be located should be considered. If possible, you should choose a location where the vent will pass through the house without cutting a floor or roof joist. If the appliance is installed directly on carpeting, vinyl tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth, unless otherwise tested.

**NATIONAL  
FIREPLACE  
INSTITUTE**



**CERTIFIED**

[www.nficertified.org](http://www.nficertified.org)

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

## 1.2 rating plate information

Certified to Canadian and American National Standards: **CSA 2.22-2016 / ANSI Z21.50-2016 for Vented Decorative Gas Appliances**  
 Certifié selon les normes Nationales Canadiennes et Américaines: **CSA 2.22-2016 / ANSI Z21.50-2016 pour les Appareils à gaz décoratif à évacuation**

Direct vent, vented gas fireplaces. Approved for bedroom, bathroom and bed-sitting room installation. Suitable for mobile home installation, if installed in accordance with the current standard CAN / CSA Z240MH Series gas equipped mobile homes in Canada, or, in the United States, the *Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280*. When this US Standard is not applicable, use the *Standard for Fire Safety Criteria for Manufactured Home Installations, Sites and Communities, ANSI / NFPA 501A*. This appliance must be installed in accordance with local codes, if any, if none, follow the current ANSI Z223.1 or CSA B149. **For use with barrier W565-0170. Follow installation instructions.**  
 Foyer à gaz ventilé. Homologué pour installation dans une chambre à coucher, une salle de bain et un studio. Approuvé pour installation dans une maison mobile si son installation conforme aux exigences de la norme CAN / CSA Z240MH. Série de maisons mobiles équipées au gaz en vigueur au Canada, ou, aux États-Unis selon la norme 24 CFR, Part 3280, *Manufactured Home Construction and Safety Standard*. Dans le cas où cette norme d'États-Unis n'est pas pertinente, utiliser la norme NFPA 501A, *Fire Safety Criteria for Manufactured Home Installations, Sites and Communities*. Installer l'appareil selon les codes ou règlements locaux ou, en l'absence de tels règlements, selon les codes d'installation ANSI Z223.1 ou CSA B149 en vigueur. **Utiliser uniquement avec l'écran W565-0170. Suivre les instructions d'installation.**



9700539 (WSL)    4001658 (NAC)    4001657 (NGZ)    4001659 (WUSA)

GD19N-2    CDV19N-2    GD19P-2    CDV19P-2

**MODEL / MODÈLE**

<p>Altitude Input: 11,500 BTU/h                  Reduced Input: 8,000 BTU/h                  P4                  Manifold Pressure: 3.5" w.c. (NG)                  Minimum Supply Pressure: 4.5" w.c. (NG)                  Maximum Supply Pressure: 7" w.c. (NG)                  Pression au Collecteur: 3.5" d'une colonne d'eau (GN)                  Pression d'Alimentation Min.: 4.5" d'une colonne d'eau (GN)                  Pression d'Alimentation Max.: 7" d'une colonne d'eau (GN)                  *Maximum inlet pressure not to exceed 13"                  Minimum clearance to combustible materials:                  Top 0"                  Floor 0"                  Sides 0"                  Back 0"                  Vent 0"                  Mantel 2"                  Top, Sides &amp; Back: per stand off spacers for framing materials.                  For finishing materials, see owners manual.                  *Maximum horizontal extension: 2". See installation manual for greater extensions, minimum vent lengths and maximum vent lengths.</p>	<p>Elevation Alimentation Réduite: 11,000 BTU/h                  P4                  Manifold Pressure: 10" w.c. (P)                  Minimum Supply Pressure: 11" w.c. (P)                  Maximum Supply Pressure: 13" w.c. (P)                  Pression au Collecteur: 10" d'une colonne d'eau (P)                  Pression d'Alimentation Min.: 11" d'une colonne d'eau (P)                  Pression d'Alimentation Max.: 13" d'une colonne d'eau (P)                  *Pression d'alimentation maximale ne devrait pas dépasser 19"                  Dégagements minimaux des matériaux combustibles:                  Dessus 0"                  Plancher 0"                  Côtés 0"                  Arrière 0"                  Évent 0"                  Tablette 2"                  Dessus, Côtés &amp; Arrière: selon les espaces de dégagement pour les matériaux d'ossature. Pour les matériaux de finition, voir le manuel du propriétaire.                  *L'extension horizontale maximale: 2". Référez au manuel d'installation pour des extensions plus grandes, les longueurs d'évacuation minimum et maximum.</p>
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**VENTED DECORATIVE GAS APPLIANCE: NOT A SOURCE OF HEAT, NOT INTENDED FOR USE AS A HEATING APPLIANCE, NOT FOR USE WITH SOLID FUEL.**  
**APPAREIL À GAZ DÉCORATIF À ÉVACUATION: N'EST PAS UNE SOURCE DE CHALEUR; N'EST PAS DESTINÉ À ÊTRE UTILISÉ COMME UN APPAREIL DE CHAUFFAGE; NE CONVIENT PAS AUX COMBUSTIBLES SOLIDES.**

**FOR USE WITH GLASS DOORS CERTIFIED WITH THIS APPLIANCE ONLY. POUR UTILISATION UNIQUEMENT AVEC LES PORTES EN VERRE CERTIFIÉES AVEC L'APPAREIL.**

**WARNING:** Do not add any material to the appliance which will come in contact with the flames, other than that supplied by the manufacturer with the appliance.  
**AVERTISSEMENT:** N'ajoutez pas à cet appareil aucun matériau devant entrer en contact avec les flammes autre que celui qui est fourni avec cet appareil par le fabricant. L'appareil doit être ventilé à l'aide de l'ensemble d'évacuation propre à Napoleon. Référez au manuel d'installation pour les spécifications d'évacuation. Il est nécessaire de bien réinstaller et resceller l'évacuation après avoir exécuté l'entretien du système de prise d'air. Optional fan kit: GS66  
 Ensemble de ventilateur facultatif: GS66  
 Electrical rating: 115V, 60HZ. Less than 12 amperes.  
 Spécifications électriques: 115V, 60HZ. Moins de 12 ampère.

Refer to the Intertek Directory of Building Products (<https://bpdirectory.intertek.com>) for detailed information.

**WOLF STEEL LTD.**   24 Napoleon Road, Barrie, ON, L4M 0G8 Canada   **Serial Number / N° de Série: GD19**   **W385-2288 / A**

This illustration is for reference only. Refer to the rating plate on the appliance for accurate information.

**note:**

The rating plate must remain with the appliance at all times. It must not be removed.

## 1.3 mobile home installation

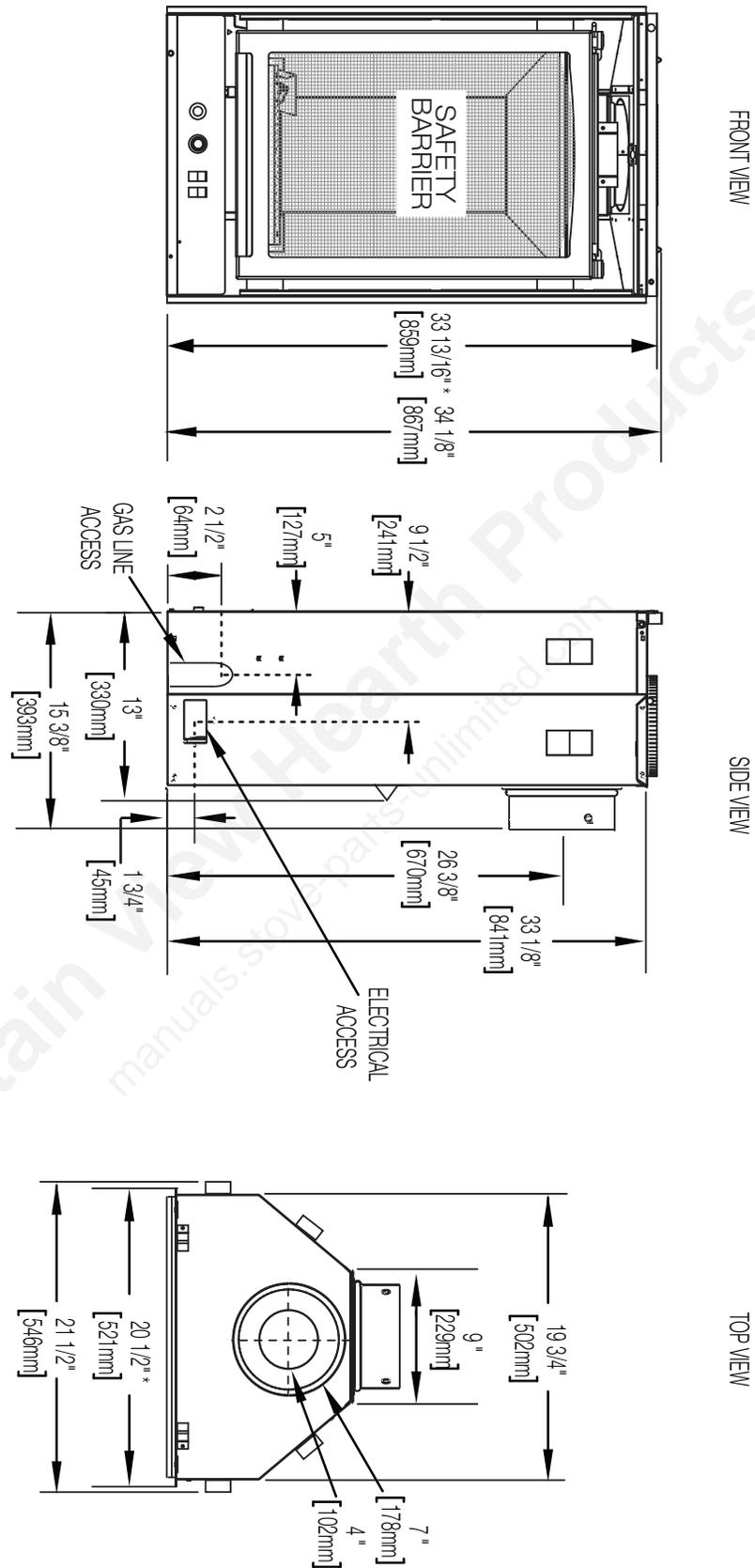
This appliance must be installed in accordance with the manufacturer's instructions and the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, in the United States or the Mobile Home Standard, CAN/CSA Z240 MH Series, in Canada. This appliance is only for use with the type(s) of gas indicated on the rating plate.

This mobile/manufactured home listed appliance comes factory equipped with a means to secure the appliance. Built in appliances are equipped with 1/4" (6.4mm) diameter holes located in the front left and right corners of the base. Use appropriate fasteners, inserted through the holes in the base to secure. For free standing products contact your local authorized dealer / distributor for the appropriate securing kit. For mobile home installations, the appliance must be fastened in place. It is recommended that the appliance be secured in all installations. Always turn off the pilot and the fuel supply at the source, prior to moving the mobile home. After moving the mobile home and prior to lighting the appliance, ensure that the logs are positioned correctly.

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

**Conversion Kits**

This appliance is field convertible between Natural Gas (NG) and Propane (P). To convert from one gas to another, consult your Authorized dealer/distributor.



\*Finishing flange depth (the finishing flange defines the perimeter of the fireplace opening; framing or finishing materials must NEVER encroach inside the finishing flange).

## WARNING

- Risk of fire. Maintain specified air space clearances to vent pipe and appliance.
- The vent system must be supported every 3'(0.9m) for both vertical and horizontal runs. Use support ring assembly W010-0067 or equivalent non-combustible strapping to maintain the minimum clearance to combustibles for both vertical and horizontal runs. Spacers are attached to the inner pipe at predetermined intervals to maintain an even air gap to the outer pipe. This gap is required for safe operation. A spacer is required at the start, middle, and end of each elbow to ensure this gap is maintained. These spaces must not be removed.

**This appliance uses a 4" (102mm) exhaust / 7" (178mm) air intake vent pipe system. Refer to the section applicable to your installation.**

For safe and proper operation of the appliance, follow the venting instructions exactly. Deviation from the minimum vertical vent length can create difficulty in burner start-up and/or carboning. Under extreme vent configurations, allow several minutes (5-15) for the flame to stabilize after ignition. Although not a requirement, it is recommended for vent lengths that pass through unheated spaces (attics, garages, crawl spaces) be insulated with the insulation wrapped in a protective sleeve to minimize condensation. Provide a means for visually checking the vent connection to the appliance after the appliance is installed. Use a firestop, vent pipe shield or attic insulation shield when penetrating interior walls, floor or ceiling.

The vent terminal may be painted with a high temperature paint to match exterior colours. Use an outdoor paint suitable for 400°F (200°C). Application and performance of paint is the consumer's responsibility. Spot testing is recommended.

### note:

If for any reason the vent air intake system is disassembled, re-install per the instructions provided for the initial installation.

This appliance must be installed with a continuous connection of exhaust and air intake vent pipes. Utilizing alternate constructions such as a chimney as part of the vent system is not permitted.

Use only Wolf Steel, Simpson Dura-Vent, Selkirk Direct Temp, American Metal Amerivent or Metal-Fab venting components. Minimum and maximum vent lengths, for both horizontal and vertical installations, clearances from vent pipes to combustibles and air terminal locations as set out in this manual apply to all vent systems and must be adhered to. For Simpson Dura-Vent, Selkirk Direct Temp, American Metal Amerivent and Metal-Fab, follow the installation procedure provided with the venting components or on the website for your venting supplier.

A starter adaptor must be used with the following vent systems and may be purchased from the corresponding supplier:

Venting System	Starter Adapter Part Number	Supplier	Website
Duravent	W175-0053	Wolf Steel	www.duravent.com
Amerivent	4DSC-N2	American Metal	www.americanmetalproducts.com
Direct Temp	4DT-AAN	Selkirk	www.selkirkcorp.com
SureSeal	4DNA	Metal-Fab	www.mtlfab.com

For vent systems that provide seals on the inner exhaust flue, only the outer air intake joints must be sealed using a red high temperature silicone (RTV). This same sealant may be used on both the inner exhaust and outer intake vent pipe joints of all other approved vent systems except for the exhaust vent pipe connection to the appliance flue collar which must be sealed using the black high temperature sealant Mill Pac. High temperature sealant must be ordered separately.

When using Wolf Steel venting components, use only approved Wolf Steel rigid / flexible components with the following termination kits: wall terminal kit **GD-222**, **GD-222R**, or 1/12 to 7/12 pitch roof terminal kit **GD-110**, 8/12 to 12/12 roof terminal kit **GD-111**, flat roof terminal kit **GD-112** or periscope kit **GD-201** (for wall penetration below grade). With flexible venting, in conjunction with the various terminations, use either the 5 foot (1.5m) vent kit **GD-220** or the 10 foot (3.1m) vent kit **GD-330**. For stoves only: wall terminal kit **GD-175** (venting included).

**All vent measurements start at the base of the air collar of the appliance.**

# venting requirements

For optimum flame appearance and appliance performance, keep the vent length and number of elbows to a minimum.

The air terminal must remain unobstructed at all times. Examine the air terminal at least once a year to verify that it is unobstructed and undamaged.

**Rigid and flexible venting systems must not be combined. Different venting manufacturer components must not be combined.**

These vent kits allow for either horizontal or vertical venting of the appliance. The maximum allowable horizontal run is 20 feet (6.1m). The maximum allowable vertical vent length is 40 feet (12.2m). The maximum number of vent connections is two horizontally or three vertically (excluding the appliance and the air terminal connections) when using flexible venting.

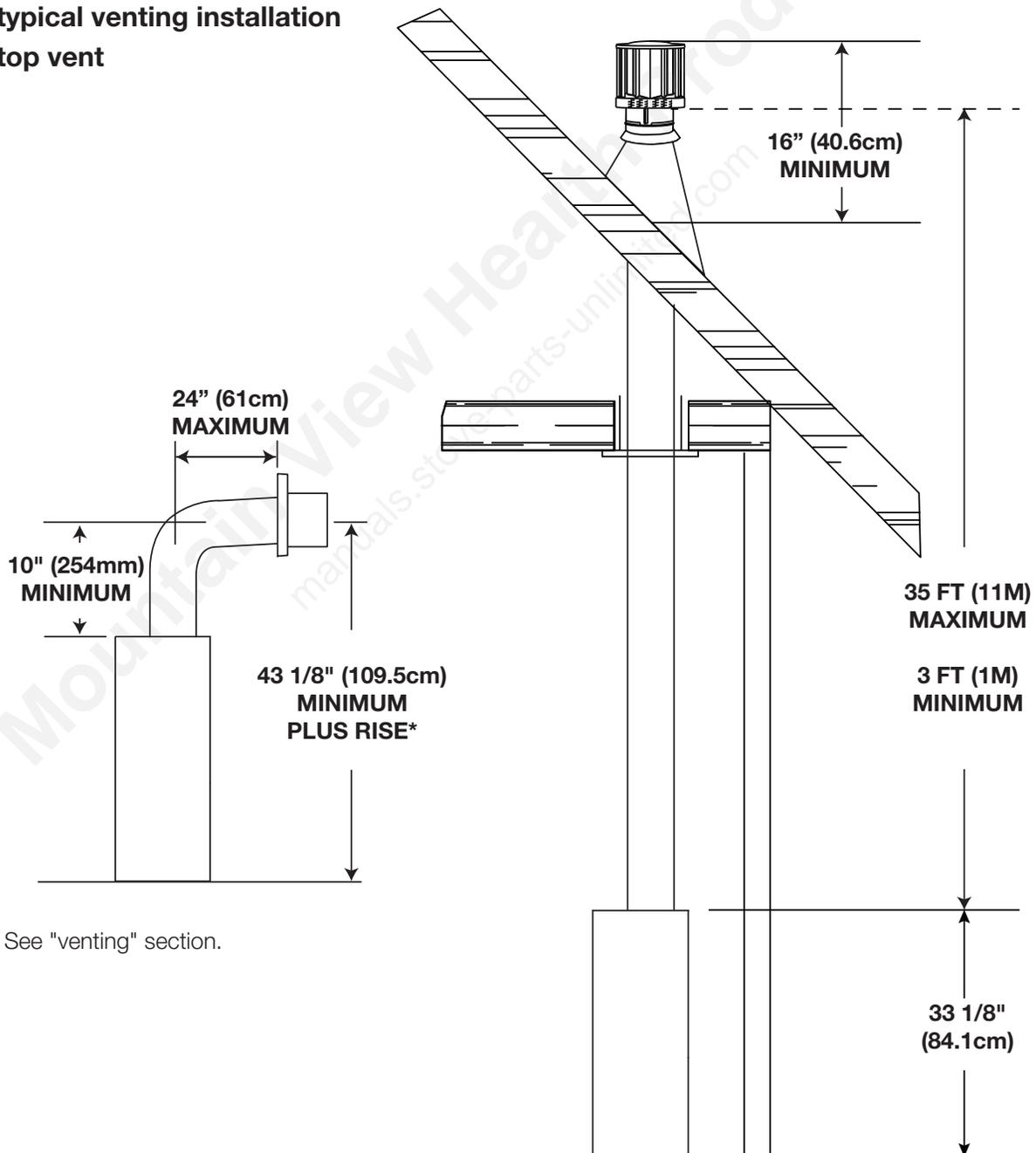
Horizontal runs may have a 0" rise per foot or 0mm rise per meter however for optimum performance it is recommended that all horizontal runs have a minimum 1/4" rise per foot or 21mm rise per meter using flexible venting. For safe and proper operation of the appliance, follow the venting instructions exactly.

A terminal shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings. Local codes or regulations may require different clearances.

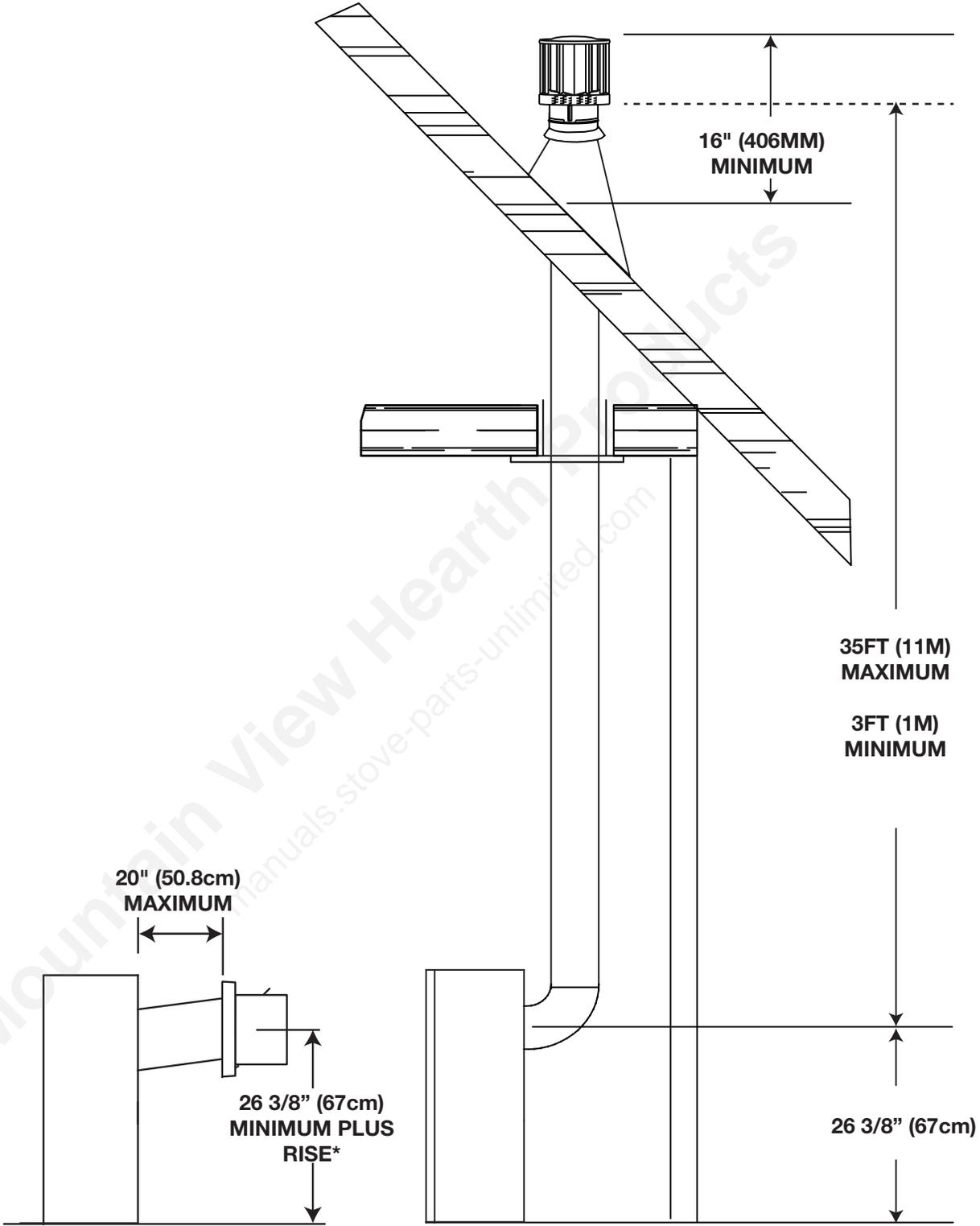
Do not allow the inside liner to bunch up on horizontal or vertical runs and elbows. Keep it pulled tight. A 1/4" (31.8mm) air gap all around between the inner liner and outer liner is required for safe operation.

## 2.1 typical venting installation

### 2.1.1 top vent



2.1.2 rear vent



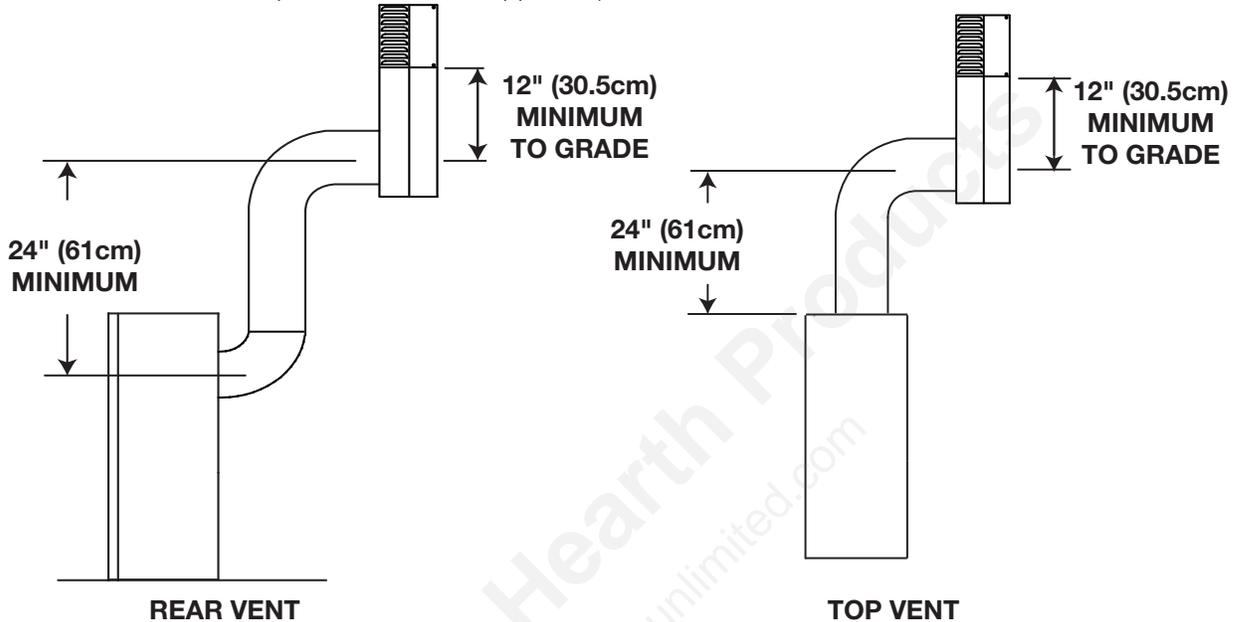
\* See "venting" section.

# venting requirements

## 2.2 special vent installations

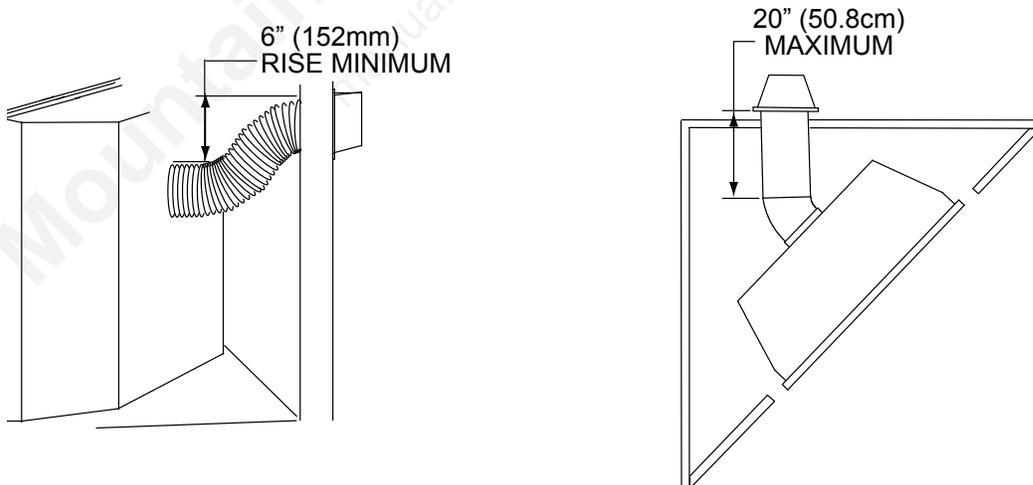
### 2.2.1 periscope termination

Use the periscope kit to locate the air termination above grade. The periscope must be installed so that when final grading is completed, the bottom air slot is located a minimum 12" (305mm) above grade. The maximum allowable vent length (including both rise and run) is 10' (3m) for a fireplace and 8' (2m) for a stove. An insulation sleeve is illustrated in the top vent image below, use only when supplied with the appliance. (The insulation sleeve is not required with a stove appliance)

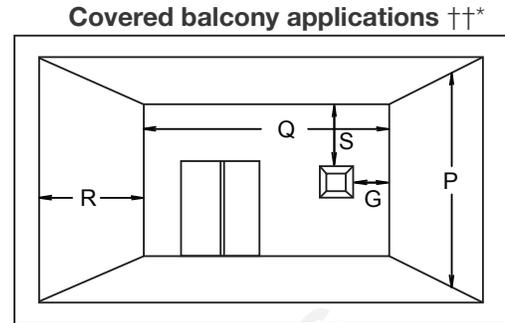
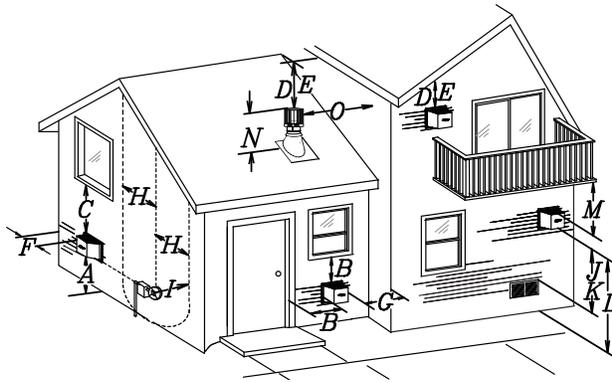


### 2.2.2 corner termination

The maximum vent length for a corner installation is 20" (50.8cm) of horizontal run, in addition to the 45° offset. In this case, zero rise is acceptable. See illustrations below. It is recommended to maintain a 6" (152mm) rise.



2.3 minimum air terminal location clearances



$Q_{MIN} = 3 \text{ feet (0.9m)}$      $R_{MAX} = 2 \times Q_{ACTUAL}$      $R_{MAX} \leq 15 \text{ feet (4.6m)}$

**note:**  
Wall terminals are for illustration purposes only. Size and shapes may vary.

	INSTALLATIONS		
	CANADA	U.S.A.	
<b>A</b>	12" (30.5cm)	12" (30.5cm)	Clearance above grade, veranda porch, deck or balcony.
<b>B</b>	12" (30.5cm) <sup>Δ</sup>	9" (229mm) <sup>Δ</sup>	Clearance to windows or doors that open.
<b>C</b>	12" (30.5cm)*	12" (30.5cm)*	Clearance to permanently closed windows.
<b>D</b>	18" (45.7cm)**	18" (45.7cm)**	Vertical clearance to ventilated soffits located above the terminal within a horizontal distance of 2' (0.6m) from the center line of the terminal.
<b>E</b>	12" (30.5cm)**	12" (30.5cm)**	Clearance to unventilated soffit.
<b>F</b>	0" (0mm)	0" (0mm)	Clearance to an outside corner wall.
<b>G</b>	0" (0mm)***	0" (0mm)***	Clearance to an inside <b>non</b> -combustible corner wall or protruding <b>non</b> -combustible obstructions (chimney, etc.).
	2" (51mm)***	2" (51mm)***	Clearance to an inside combustible corner wall or protruding combustible obstructions (vent chase, etc.).
<b>H</b>	3'(0.9m)	3'(0.9m)****	Clearance to each side of the center line extended above the meter / regulator assembly to a maximum vertical distance of 15' (4.6m).
<b>I</b>	3' (0.9m)	3' (0.9m)****	Clearance to a service regulator vent outlet.
<b>J</b>	12" (30.5cm)	9" (229mm)	Clearance to a non-mechanical air supply inlet to the building or a combustion air inlet to any other appliance.
<b>K</b>	6' (1.8m)	3' (0.9m) †	Clearance to a mechanical air supply inlet.
<b>L</b>	7' (2.1m) ‡	7' (2.1m) ****	Clearance above a paved sidewalk or paved driveway located on public property.
<b>M</b>	12" (30.5cm)††	12" (30.5cm)****	Clearance under a veranda, porch or deck.
<b>N</b>	16" (40.6cm)	16" (40.6cm)	Clearance above the roof.
<b>O</b>	2' (0.6m)†*	2' (0.6m) †*	Clearance from an adjacent wall including neighbouring buildings.
<b>P</b>	8' (2.4m)	8' (2.4m)	Roof must be <b>non</b> -combustible without openings.
<b>Q</b>	3' (0.9m)	3' (0.9m)	See chart for wider wall dimensions.
<b>R</b>	6' (1.8m)	6' (1.8m)	See chart for deeper wall dimensions. The terminal shall not be installed on any wall that has an opening between the terminal and the open side of the structure.
<b>S</b>	12" (30.5cm)	12" (30.5cm)	Clearance under a covered balcony

Δ The terminal shall not be located less than 6 feet under a window that opens on a horizontal plane in a structure with three walls and a roof.

\* Recommended to prevent condensation on windows and thermal breakage

\*\* It is recommended to use a heat shield and to maximize the distance to vinyl clad soffits.

\*\*\* The periscope requires a minimum 18 inches clearance from an inside corner.

\*\*\*\* This is a recommended distance. For additional requirements, check local codes.

† 3 feet above if within 10 feet horizontally.

‡ A vent shall not terminate where it may cause hazardous frost or ice accumulations on adjacent property surfaces.

†† Permitted only if the veranda, porch, or deck is fully open on a minimum of two sides beneath the floor.

†\* Recommended to prevent recirculation of exhaust products. For additional requirements, check local codes.

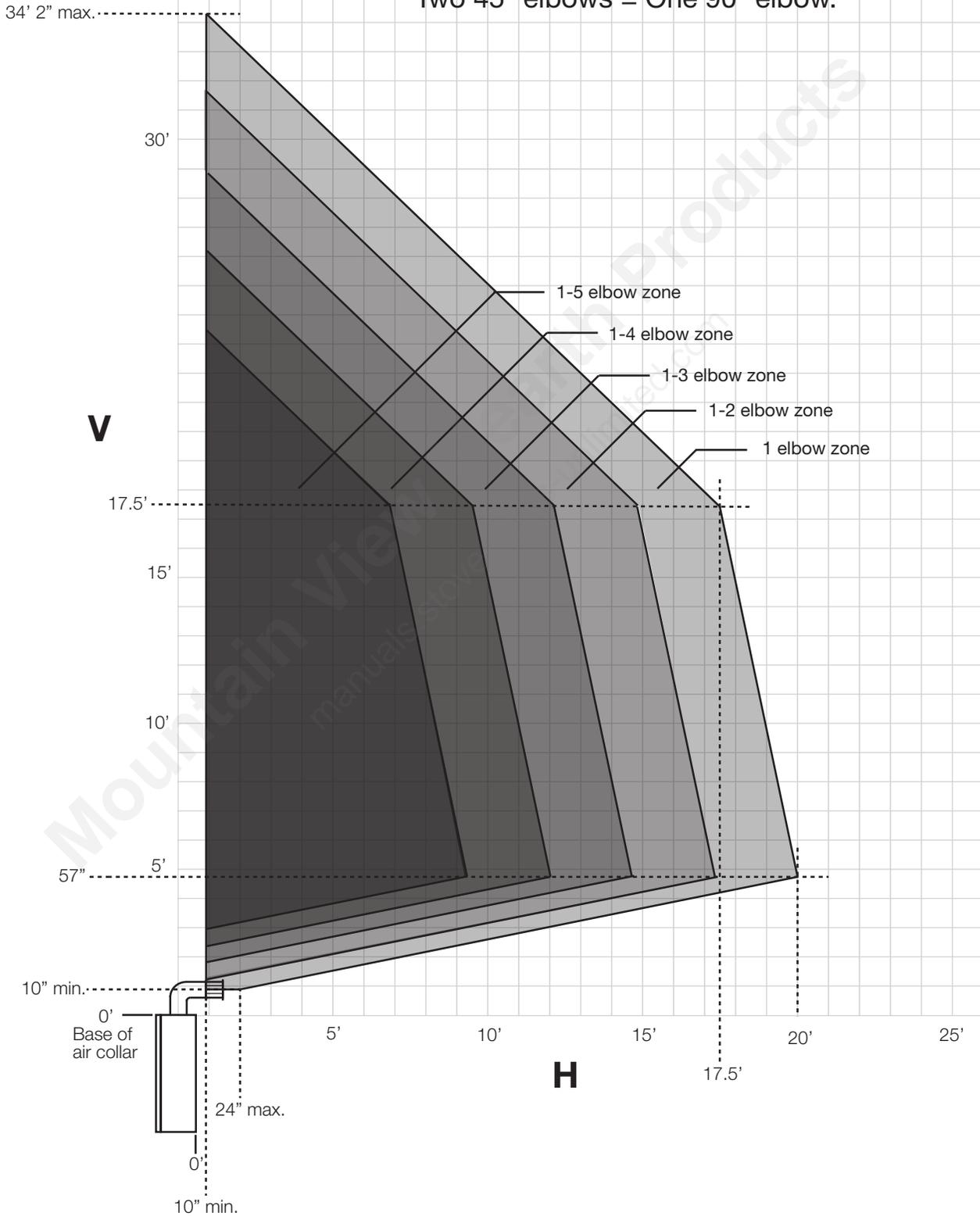
†† Permitted only if the balcony is fully open on a minimum of one side.

**note:**  
Clearances are to be in accordance with local installation codes and the requirements of the gas supplier. In their absence, clearances are to be as listed above and are based on national codes.

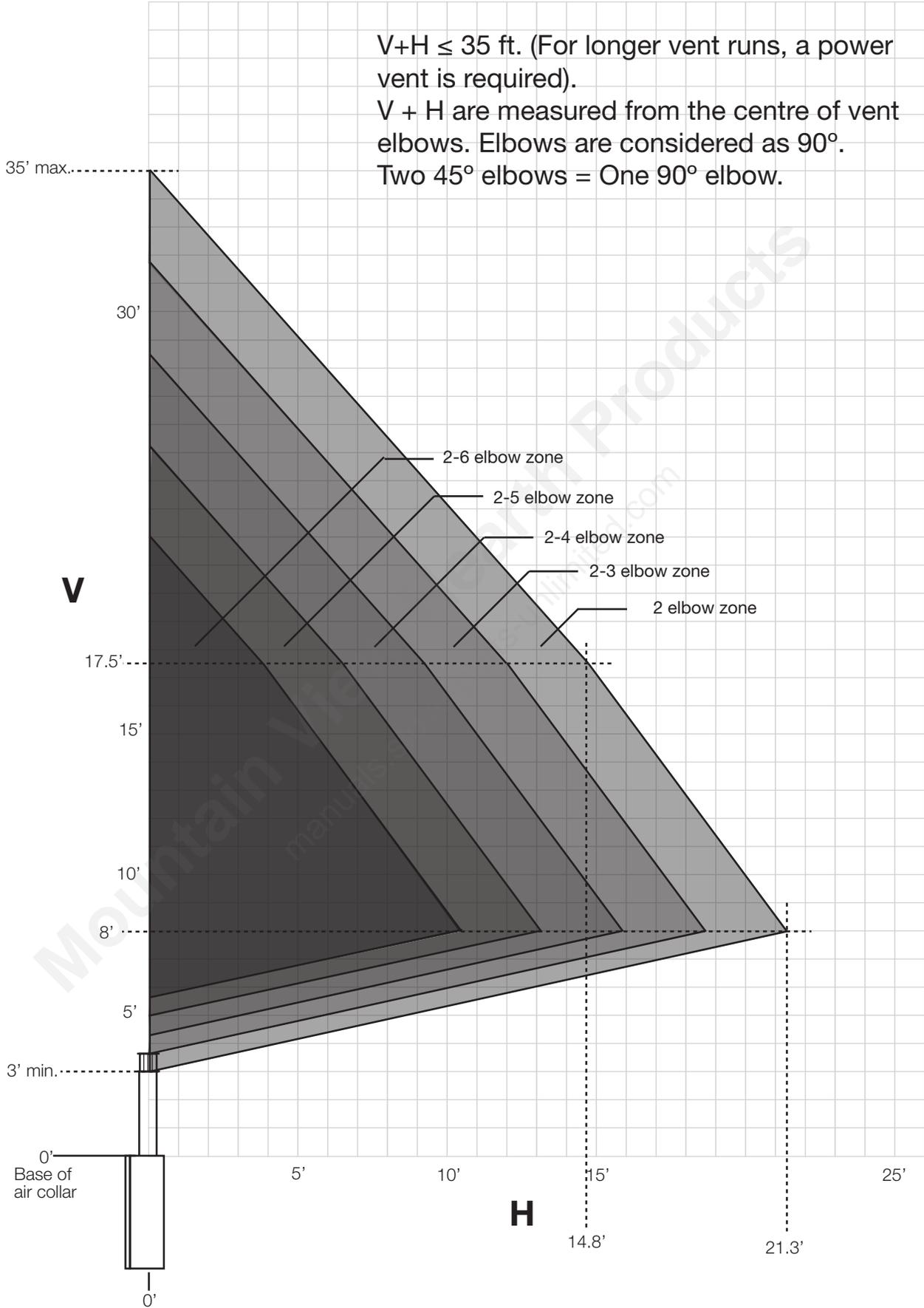
# venting requirements

## 2.4 top exit - horizontal terminations

$V+H \leq 35$  ft. (For longer vent runs, a power vent is required).  
 V + H are measured from the centre of vent elbows. Elbows are considered as 90°.  
 Two 45° elbows = One 90° elbow.



2.5 top exit - vertical terminations



# venting requirements

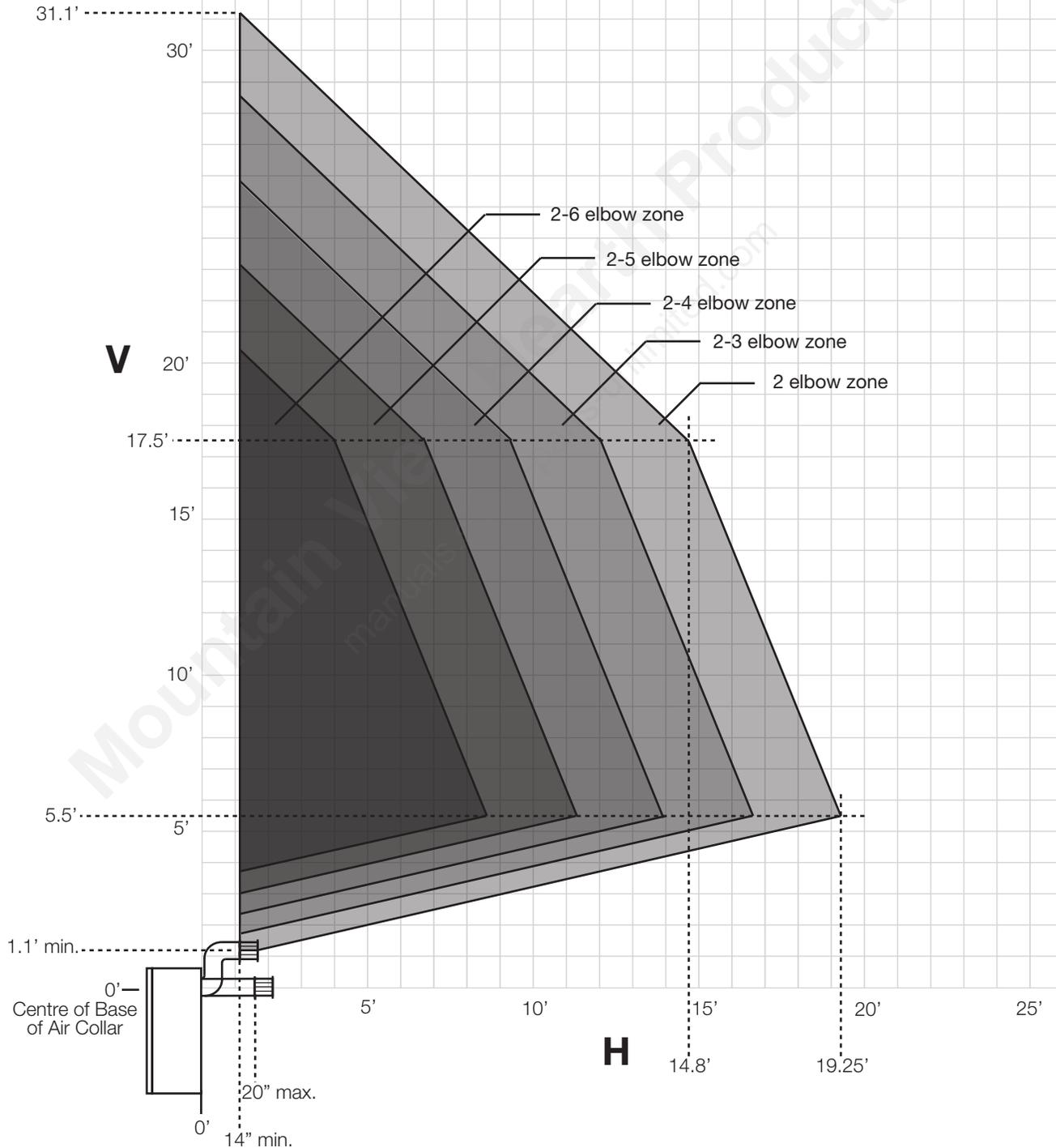
## 2.6 rear exit - horizontal terminations

$V+H \leq 35$  ft. (For longer vent runs, a power vent is required).

$H \leq 19.25$  ft.

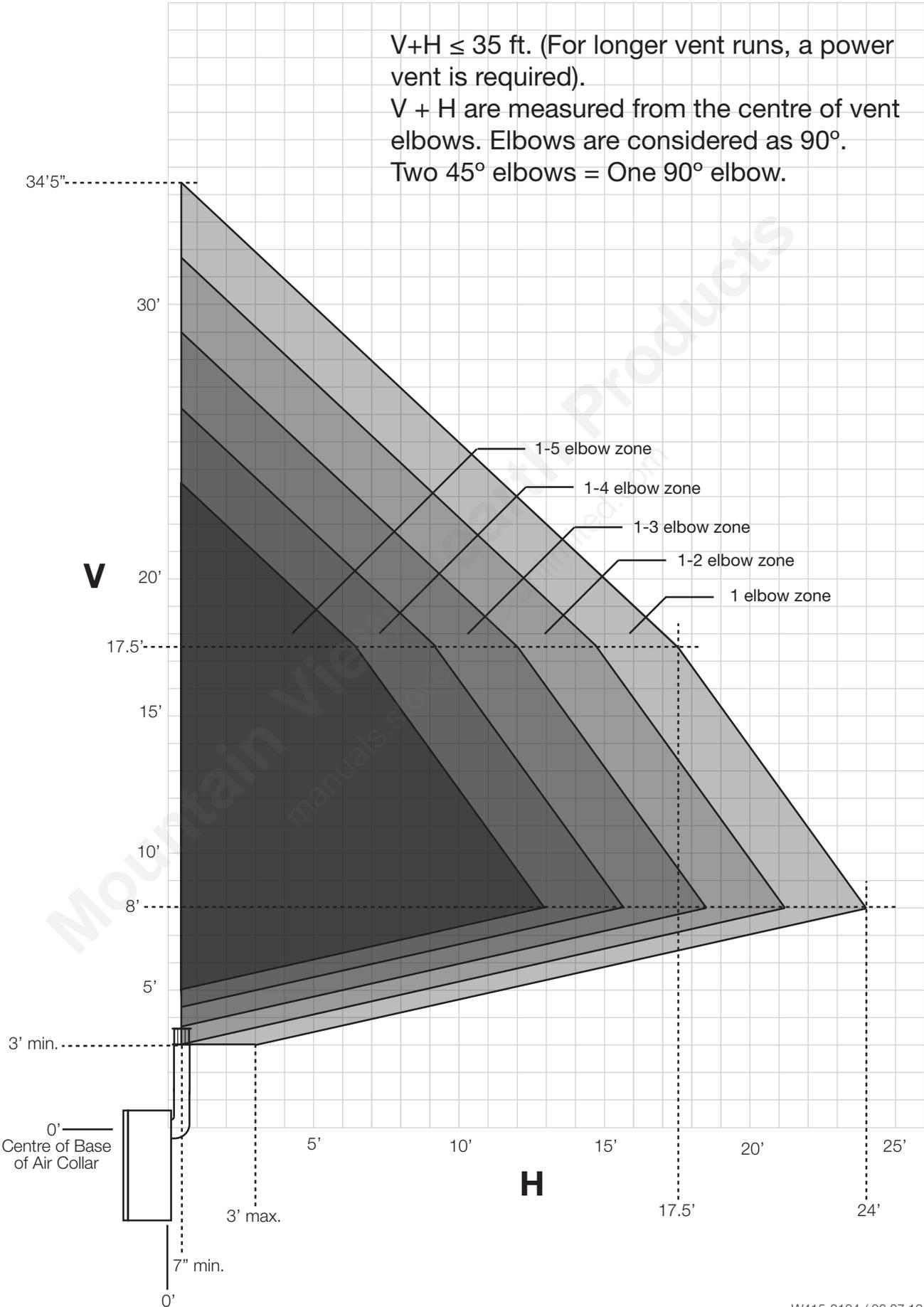
$V + H$  are measured from the centre of vent elbows. Elbows are considered as  $90^\circ$ .

Two  $45^\circ$  elbows = One  $90^\circ$  elbow.



2.7 rear exit - vertical terminations

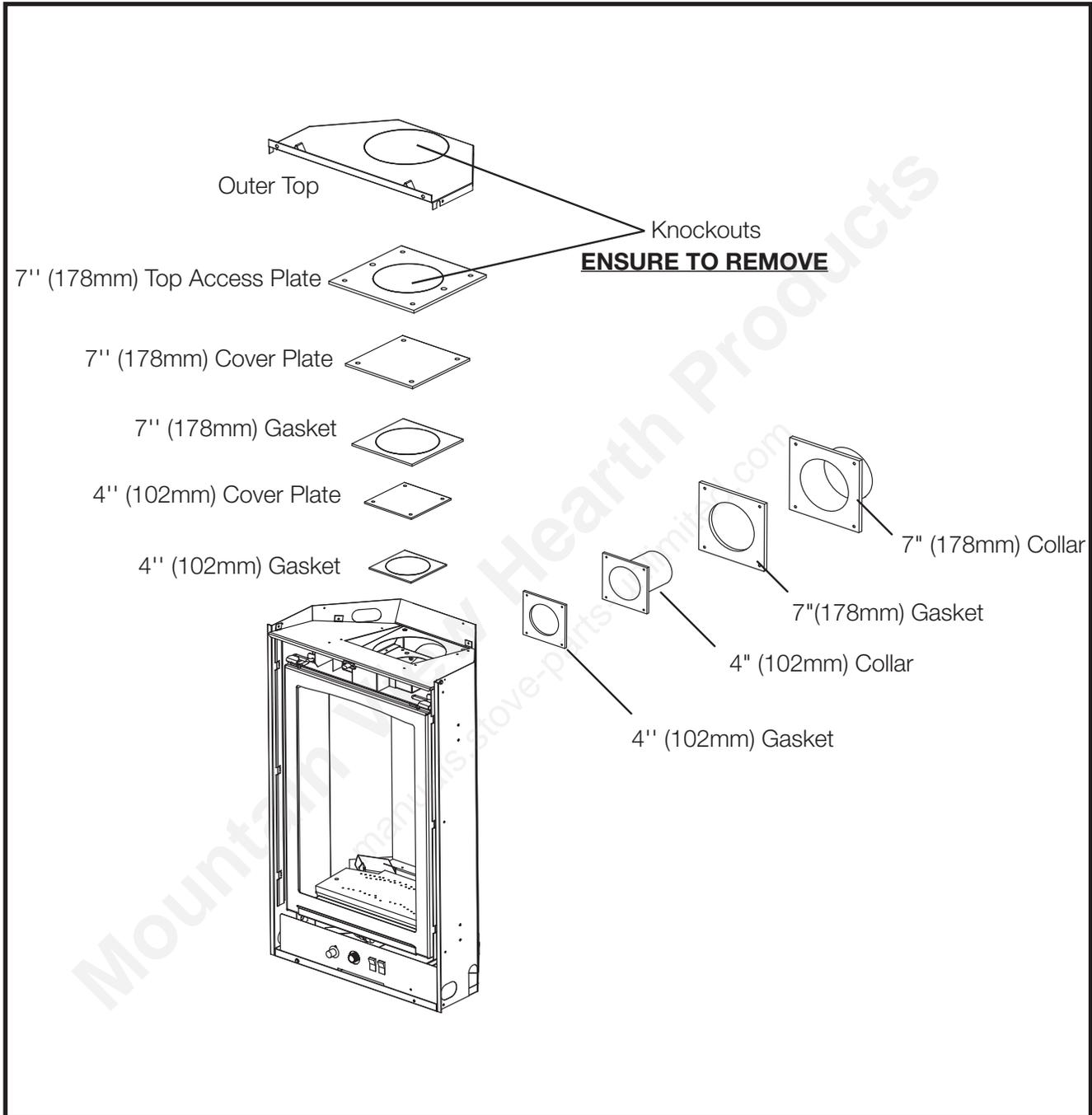
$V+H \leq 35$  ft. (For longer vent runs, a power vent is required).  
 $V + H$  are measured from the centre of vent elbows. Elbows are considered as  $90^\circ$ .  
 Two  $45^\circ$  elbows = One  $90^\circ$  elbow.



# venting requirements

## 2.8 top vent conversion

In order to convert the venting configuration from a **rear exit** to a **top exit**, remove components as illustrated below. **When reinstalling in the alternate position, check gaskets for tears and replace if necessary to ensure a proper seal.**



**2.9 vertical through existing chimney**

**! WARNING**

- Risk of fire.
- Co-axial to co-linear venting configurations must only be used in a non-combustible chimney or enclosure. Installation in a combustible enclosure could result in a fire.

This appliance is designed to be attached to a 3" (76.2mm) co-linear aluminum flex vent system running the full length of a masonry chimney.

The flex liners accommodate any contours of a masonry chimney, however, it is necessary to keep the flexible liners as straight as possible. The inlet air collar of the termination cap must be connected to the air intake flex liner and the exhaust collar must be connected to the exhaust flexible liner.

Both Simpson Duravent and Selkirk co-linear to co-axial adaptors have been approved on this appliance

**note:**

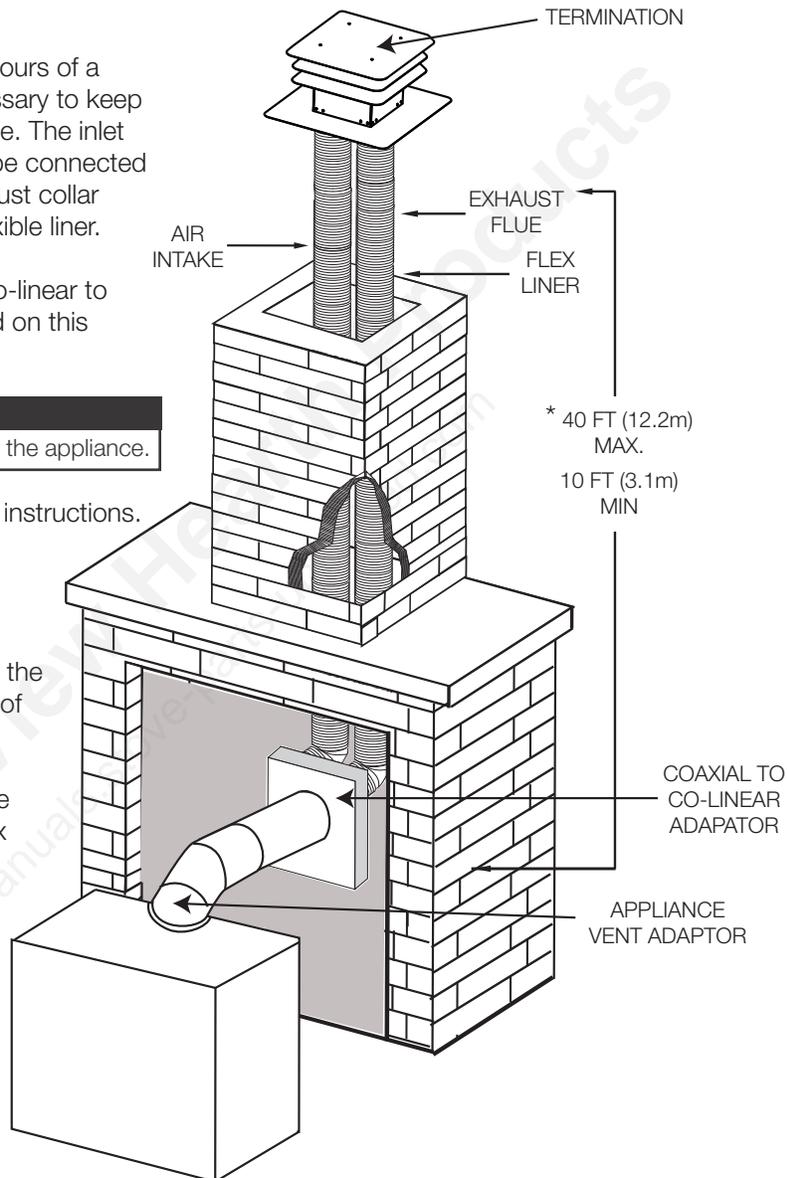
A vent adaptor will be required directly off the appliance.

Follow vent manufacturer's installation instructions.

Different manufacturer's venting components must not be combined. Once the preferred manufacturer's appliance adaptor has been attached, the remainder of the system must be that of the same manufacturer.

The only exception to this rule is to use Wolf Steel's approved 3" (76.2mm) flex liner and co-linear termination.

\* Measured from appliance flue collar to termination flue collar



## 3.0 framing

**note:**

When using optional finishing accessories, the framing dimensions and finishing materials may differ from what is outlined in the section below; refer to the leaflet instructions supplied in the accessory kit for specific framing and finishing specifications.

### **WARNING**

- Risk of fire!
- In order to avoid the possibility of exposed insulation or vapour barrier coming in contact with the appliance body, it is recommended that the walls of the appliance enclosure be “finished” (i.e. drywall / sheetrock), as you would finish any other outside wall of a home. This will ensure that clearance to combustibles is maintained within the cavity.
- Do not notch the framing around the appliance stand offs. Failure to maintain air space clearance may cause over heating and fire. Prevent contact with sagging or loose insulation or framing and other combustible materials. Block opening into the chase to prevent entry of blown-in insulation. Make sure insulation and other materials are secured.
- When constructing the enclosure, allow for finishing material thickness to maintain clearances. Framing or finishing material closer than the minimums listed must be constructed entirely of non-combustible materials. Materials consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof are suitable. Materials that are reported as passing ASTM E136, standard test method for behaviour of materials in a vertical tube furnace at 1382°F (750°C) and UL763 shall be considered non-combustible materials.
- Minimum clearance to combustibles must be maintained or a serious fire hazard could result.
- The appliance requires a minimum enclosure height. Measure from the appliance base.
- If steel stud framing kits with cement board are provided, or specified in the installation instructions, they must be installed.
- If specified in the installation instruction, finishing must be done using a non-combustible board, ceramic tile, marble, etc. Do **NOT** use wood or drywall. Any fire rated drywall is **not** acceptable.

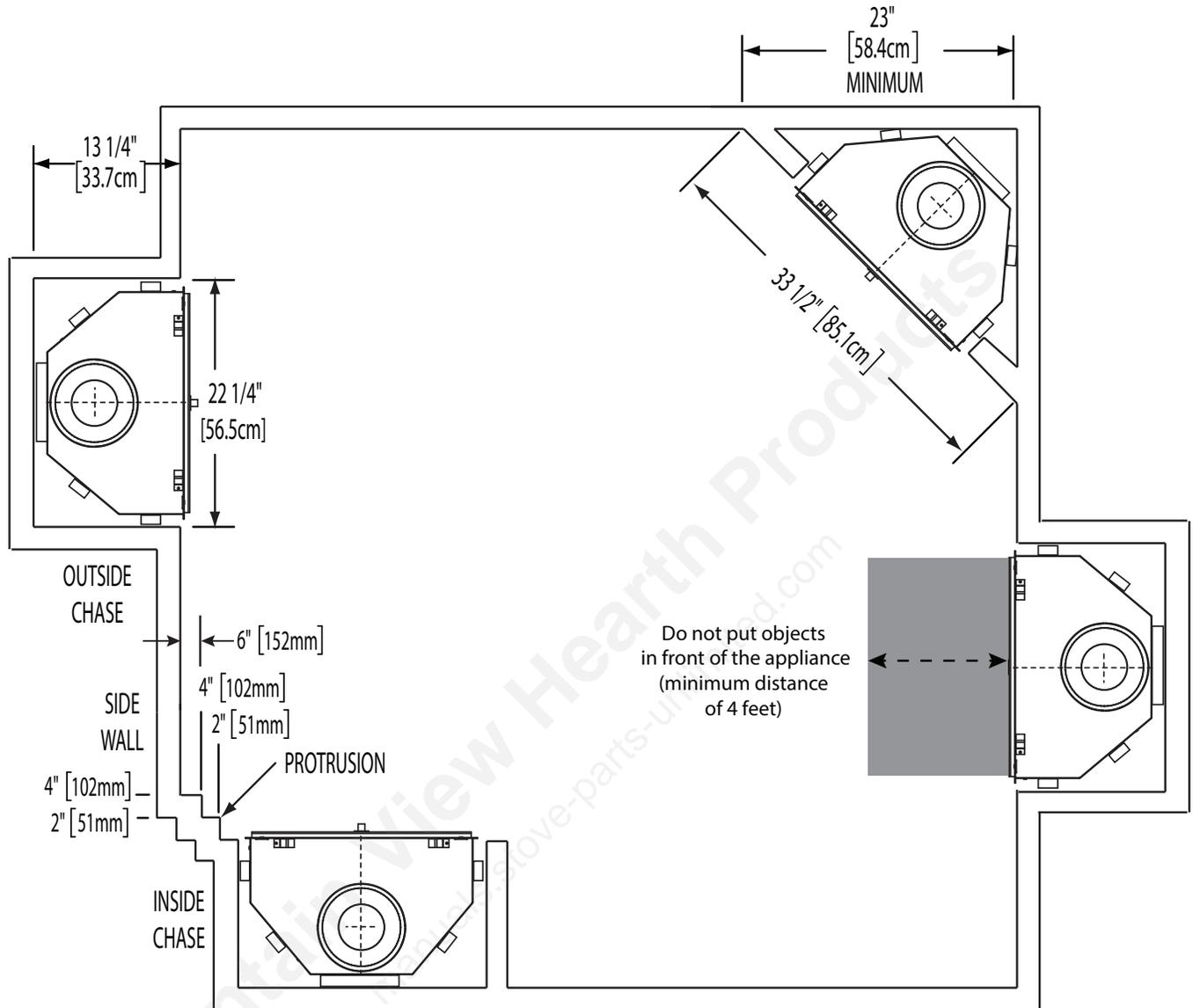
It is best to frame your appliance after it is positioned and the vent system is installed. Frame to local building codes.

To install the appliance face flush with the finished wall, position the framework to accommodate the thickness of the finished wall.

It is not necessary to install a hearth extension with this appliance system.

When roughing in the appliance, raise the appliance to accommodate for the thickness of the finished floor materials (i.e. tile, carpeting, hard wood, etc.), which if not planned for, will interfere with the opening of the lower access door and the installation of many decorative flashing accessories.

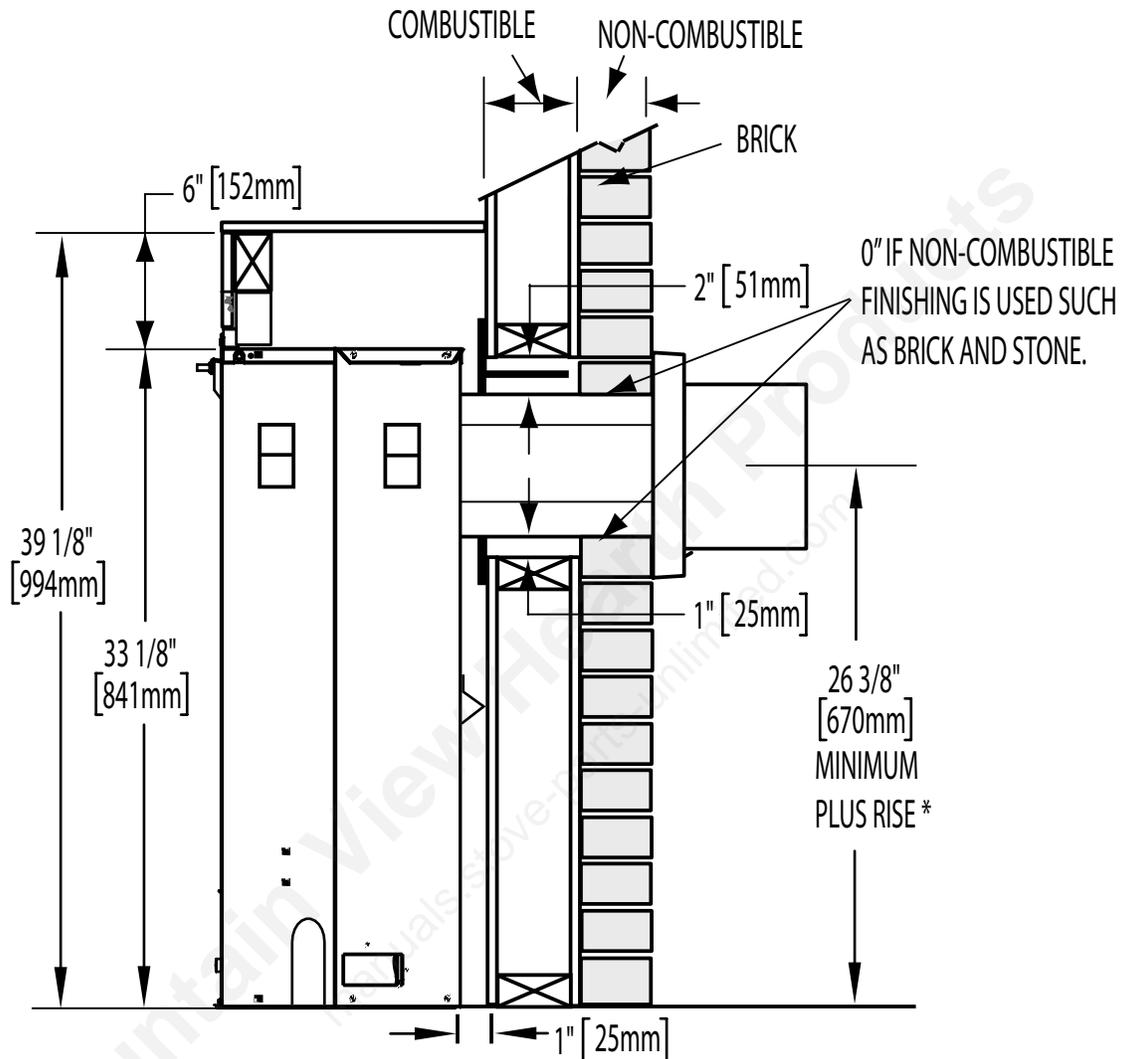
3.1 minimum framing dimensions



# framing

## 3.2 minimum clearance to combustible enclosures

### 3.2.1 rear vent (minimum clearance to combustible enclosures)



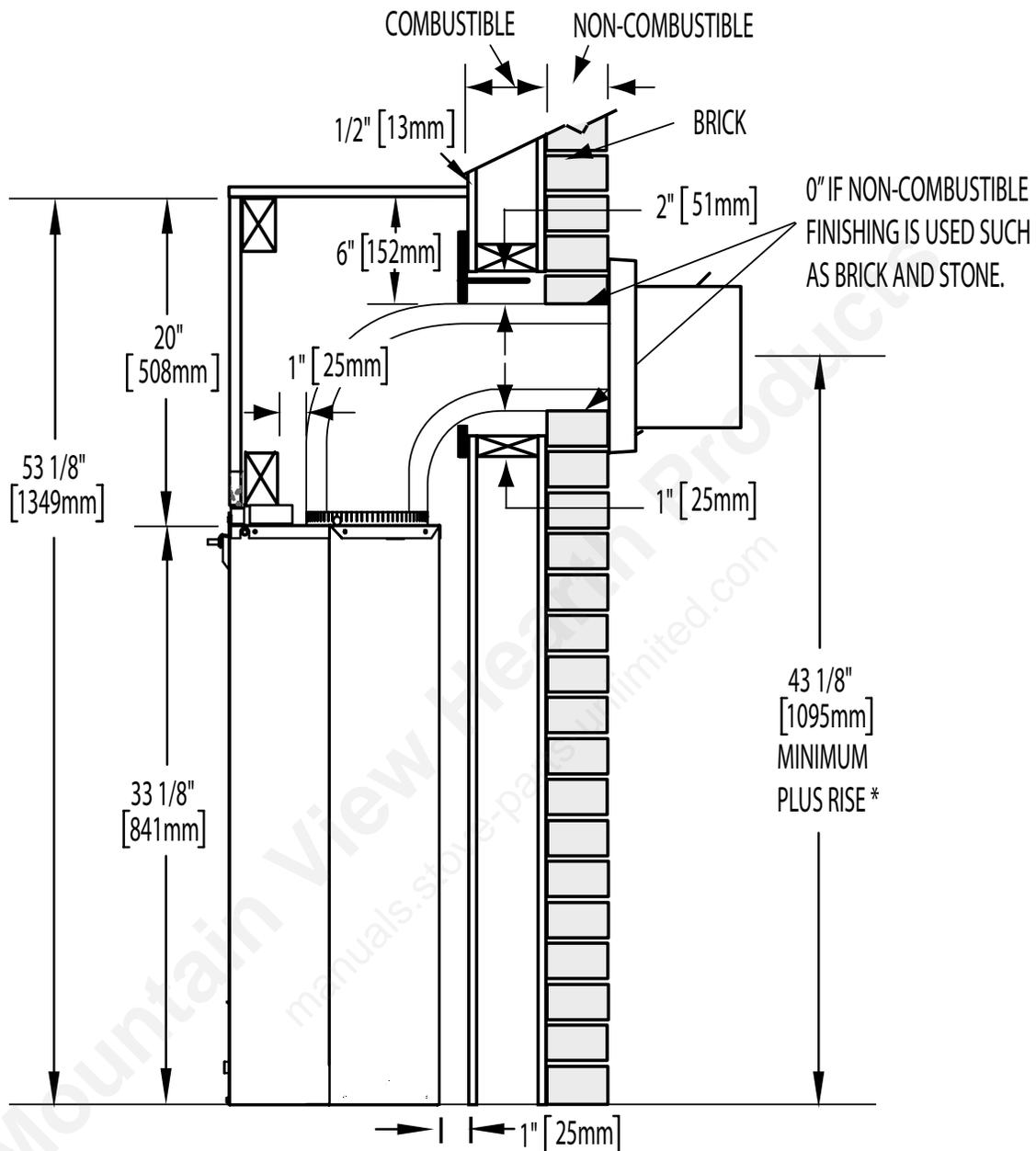
\* See "venting requirements" section

**Horizontal Vent Sections:** A minimum clearance of 1" (25mm) at the bottom and sides, and 2" (51mm) at the top of the vent pipe in all horizontal runs to combustibles is required. Use firestop spacer W010-1777 (supplied).

**Vertical Vent Sections:** A minimum of 1" (25mm) all around the vent pipe on all vertical runs to combustibles is required. Use firestop spacer W500-0096 (not supplied).

The appliance requires a minimum enclosure height of 39 1/8" (99.4cm) and a minimum ceiling height of 45 1/8" (114.6cm) for rear vent. For temperature requirements, the enclosure space around and above the appliance must be left unobstructed.

### 3.2.2 top vent (minimum clearance to combustibles enclosures)



\* See "venting requirements" section

**Horizontal Vent Sections:** A minimum clearance of 1" (25mm) at the bottom and sides, and 2" (51mm) at the top of the vent pipe in all horizontal runs to combustibles is required except for clearances in appliance enclosure which must be a minimum of 6" (152mm). Use firestop spacer W010-1777 (supplied).

**Vertical Vent Sections:** A minimum of 1" (25mm) all around the vent pipe on all vertical runs to combustibles is required. Use firestop spacer W500-0096 (not supplied).

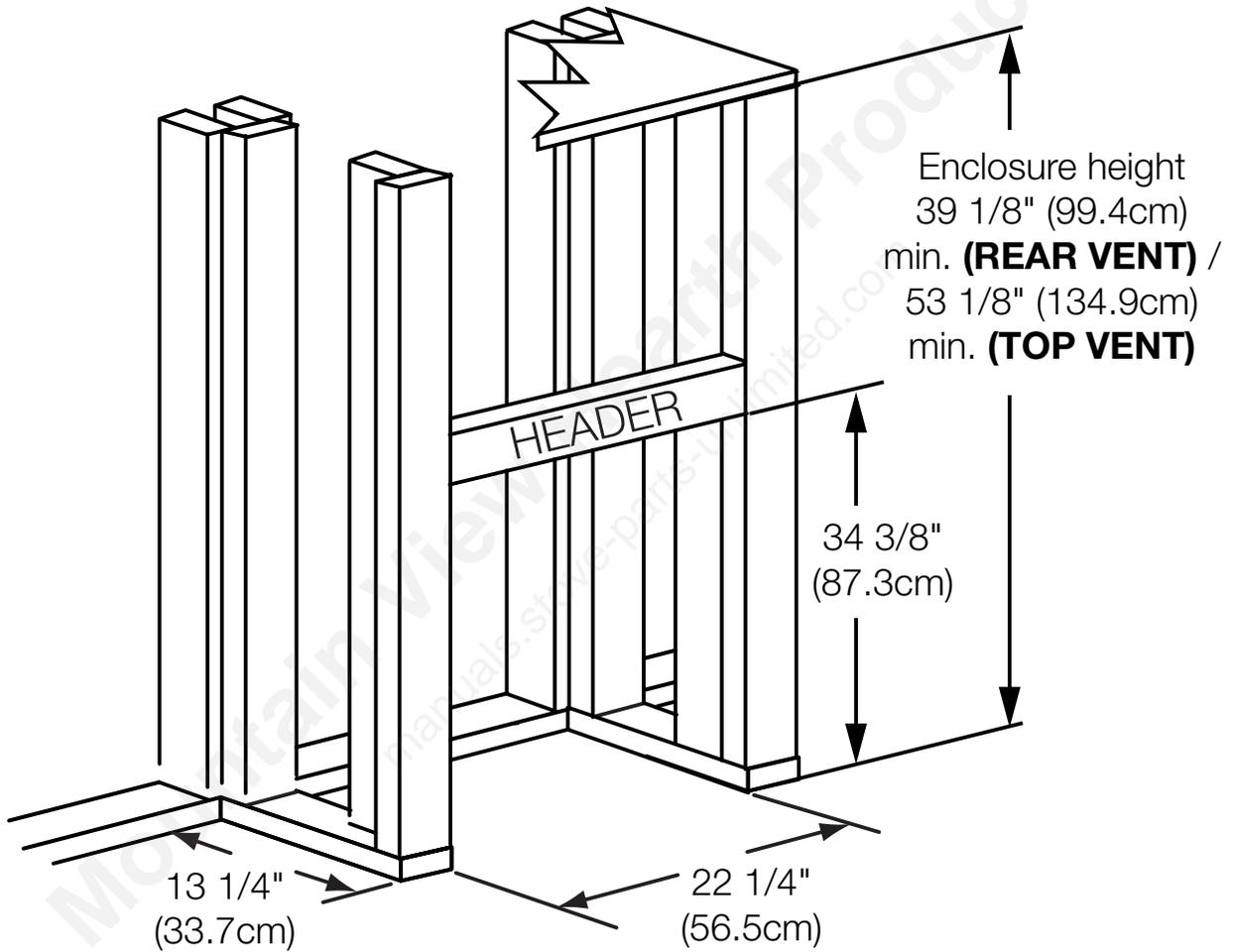
The appliance requires a minimum enclosure / ceiling height of 53 1/8" (134.9cm) for top vent. For temperature requirements, the enclosure space around and above the appliance must be left unobstructed.

\*\* When terminating vertically on a top vented appliance, the height of the enclosure can be reduced to 39 1/8" (99.3cm).

**note:**

For heavier finishing materials such as marble, we recommend adding extra support to the frame. Ensure there is adequate floor support for the appliance and finishing material.

Before framing your appliance, determine vent requirements before deciding the final location of the appliance. After rough framing, place the appliance in its final position.



**! WARNING**

- Ensure to unpack all loose materials from inside the firebox prior to connecting the gas and electrical supply
- **If your appliance is supplied with a remote, ensure the remote receiver is in the "OFF" position prior to connecting the gas and electrical supply to the appliance.**
- For safe and proper operation of the appliance, follow the venting instructions exactly.
- **The appliance exhaust flue collar must be sealed using Mill Pac.** All exhaust and intake vent pipe joints must be sealed using red RTV high temp silicone sealant (W573-0002) (not supplied) or black high temp Mill Pac (W573-0007) (not supplied).
- If using pipe clamps to connect rigid vent components, a minimum of 3 screws must also be used to ensure the connection cannot slip off.
- Do not clamp the flexible vent pipe.
- Risk of fire, explosion, or asphyxiation. Improper support of the entire venting system may allow vent to sag and separate. Use vent run supports and connect vent sections per installation instructions.
- Risk of fire, do not allow loose materials or insulation to touch the vent pipe. Remove insulation to allow for the installation of the attic shield and to maintain clearances to combustibles.
- Do not fill the space between the vent pipe and enclosure with any type of material. Do not pack insulation or combustibles between ceiling firestops. Always maintain specified clearances around venting and firestop systems. Install wall shields and firestops as specified. Failure to keep insulation or other materials away from vent pipe may cause fire.

For clearances to combustible materials from the vent pipe, see "framing" section.

For optimum performance, it is recommended that horizontal runs have a minimum 1/4" rise per foot or 21mm rise per meter using flexible venting. For safe and proper operation of the appliance, follow the venting instructions exactly.

# venting installation

## 4.1 horizontal installation

### ! WARNING

- The firestop assembly must be installed with the vent shield to the top.
- Terminals must not be recessed into a wall or siding more than the depth of the return flange of the mounting plate.

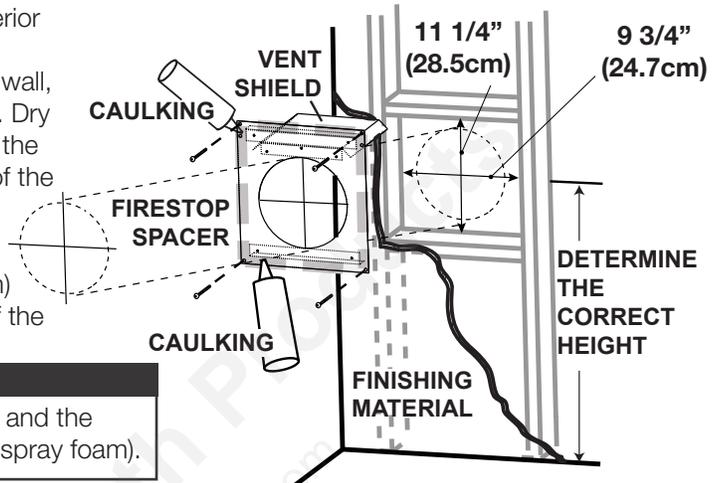
This application occurs when venting through an exterior wall. Having determined the correct height for the air terminal location, cut and frame a hole in the exterior wall, as illustrated, to accommodate the firestop assembly. Dry fit the firestop assembly before proceeding to ensure the brackets on the rear surface fit to the inside surface of the horizontal framing.

The length of the vent shield may be cut shorter for combustible walls that are less than 8 1/2" (215.9mm) thick but the vent shield must extend the full depth of the combustible wall.

#### note:

Do not fill the air space between the firestop spacer and the exterior wall with any type of insulating material (i.e. spray foam).

- Apply a bead of caulking (not supplied) around the outer edge of the hole of the firestop assembly, fit the firestop assembly to the hole and secure using 4 screws.
- Once the vent pipe is installed in its final position, apply red RTV silicone (W573-0002) (not supplied) between the pipe and the firestop.



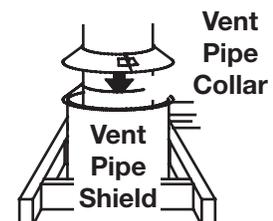
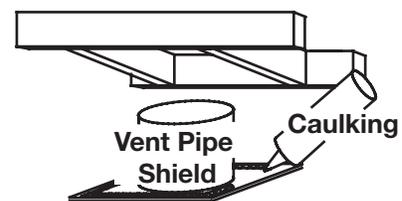
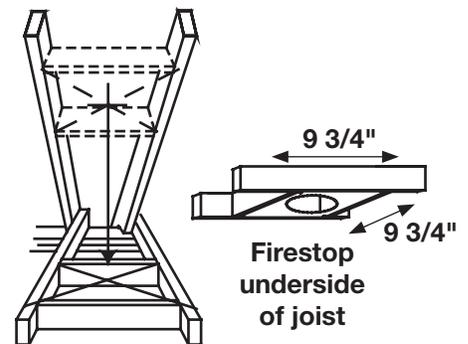
#### note:

The above is for illustration purposes only. Vents do not always pass through center of frame.

## 4.2 vertical installation

This application occurs when venting through a roof. Installation kits for various roof pitches are available from your authorized dealer / distributor. See the "accessories" section to order specific kits required.

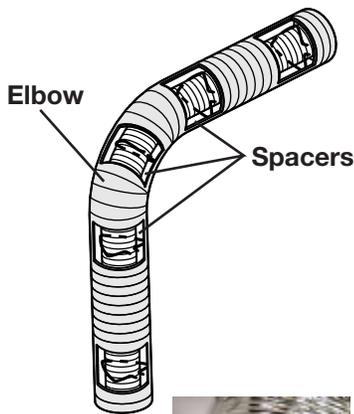
- Determine the air terminal location, cut and frame a square opening, as illustrated, in the ceiling and the roof to provide the minimum 1" (25mm) clearance between the vent pipe and any combustible material. Try to center the vent pipe location midway between two joists to prevent having to cut them. Use a plumb bob to line up the center of the openings. A vent pipe shield will prevent any materials such as insulation, from filling up the 1" (25mm) air space around the pipe. Nail headers between the joist for extra support.
- Apply a bead of caulking (not supplied) to the framework or to the Wolf Steel vent pipe shield plate or equivalent (in the case of a finished ceiling), and secure over the opening in the ceiling. A firestop must be placed on the bottom of each framed opening in a roof or ceiling that the venting system passes through. Apply a bead of caulking all around and place a firestop spacer over the vent shield to restrict cold air from being drawn into the room or around the fireplace. Ensure that both spacer and shield maintain the required clearance to combustibles. Once the vent pipe is installed in its final position, apply red RTV silicone (W573-0002) (not supplied) between the pipe and the firestop assembly.
- In the attic, slide the vent pipe collar down to cover up the open end of the shield and tighten. This will prevent any materials, such as insulation, from filling up the 1" (25mm) air space around the pipe.



### 4.3 using either flexible or rigid vent components

#### **! WARNING**

- Do not allow the inner flex pipe to bunch up on horizontal or vertical runs and elbows. Keep it pulled tight.
- Spacers are attached to the inner flex pipe at predetermined intervals to maintain an even air gap to the outer flex pipe. This gap is required for safe operation. A spacer is required at the start, middle, and end of each elbow to ensure this gap is maintained. These spacers must not be removed.



For safe and proper operation of the appliance, follow the venting instructions exactly.

The vent system must be supported approximately every 3 feet (0.9m) for both vertical and horizontal runs. Use Wolf Steel Ltd. support ring assembly or equivalent noncombustible strapping to maintain the minimum clearance to combustibles for both vertical and horizontal runs.

All inner flex pipe and outer flex pipe joints may be sealed using high temperature red RTV silicone W573-0002 (not supplied) or the high temperature sealant W573-0007 Mill Pac (not supplied). However, the high temperature sealant W573-0007 Mill Pac (not supplied) must be used on the joint connecting the inner flex pipe and the exhaust flue collar.

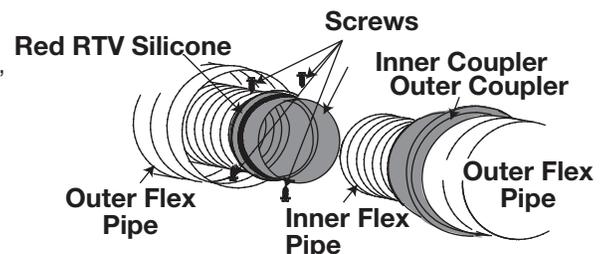
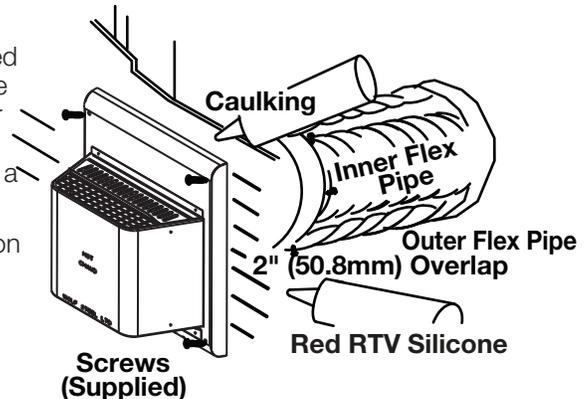
**Use only approved flexible vent pipe kits marked:**



**“Wolf Steel Approved Venting” or “E2” as identified by the stamp only on the flex pipes.**

#### 4.3.1 horizontal air terminal installation

- Stretch the inner flex pipe to the required length taking into account the additional length needed for the finished wall surface. Apply a heavy bead of the red RTV silicone (W573-0002) (not supplied) to the inner sleeve of the air terminal. Slip the vent pipe a minimum of 2" (50.8mm) over the inner sleeve of the air terminal and secure with a minimum of 3 screws.
- Using the outer flex pipe, slide over the outer combustion air sleeve of the air terminal and secure with a minimum of 3 screws. Seal using red RTV silicone (W573-0002) (not supplied).
- Insert the vent pipes through the firestop maintaining the required clearance to combustibles. Holding the air terminal (lettering in an upright, readable position), secure to the exterior wall and make weather tight by sealing with caulking (not supplied).
- If more vent pipe needs to be used to reach the fireplace, couple them together, as illustrated. The vent system must be supported approximately every 3 feet (0.9m) for both vertical and horizontal runs. Use non-combustible strapping to maintain the minimum clearance to combustibles.
- Stove Appliances Only:** From inside the house, using Red RTV Silicone (W573-0002) (not supplied), seal between the vent pipe and the firestop. Then slide the black trim collar over the vent pipe up to the firestop.



**The air terminal mounting plate may be recessed into the exterior wall or siding no greater than the depth of its return flange.**

# venting installation

## 4.3.2 vertical air terminal installation using flexible venting

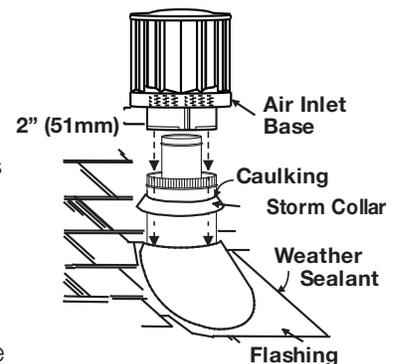
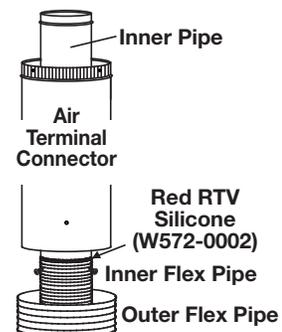
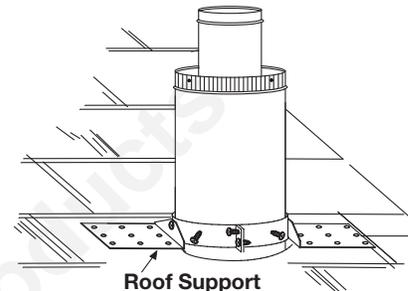
### ! WARNING

- Maintain a minimum 2" (51mm) space between the air inlet base and the storm collar.

#### note:

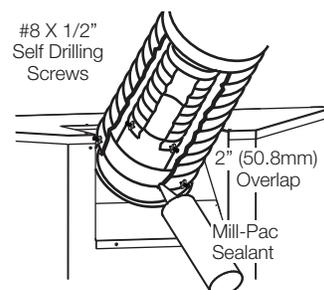
Fastening hardware provided with appropriate roof terminal and liner kits.

- Fasten the roof support to the roof using 6 screws. The roof support is optional. In this case, the venting is to be adequately supported using either an alternate method suitable to the authority having jurisdiction or the optional roof support.
- Stretch the inner flex pipe to the required length. Slip the inner flex pipe a minimum of 2" (51mm) over the inner pipe of the air terminal connector and secure with a minimum of three screws, when 4/7, 5/8 and 3/5 venting is used and a minimum of six screws when using 8/10 or 8/11 venting. Seal using a heavy bead of red RTV silicone sealant (W573-0002) (not supplied).
- Repeat using the outer flex pipe, using a heavy bead of red RTV silicone sealant (W573-0002) (not supplied) and a minimum of three screws, when 4/7, 5/8 and 3/5 venting is used and a minimum of six screws when using 8/10 or 8/11 venting.
- Thread the air terminal connector / vent pipe assembly down through the roof. The air terminal must be positioned vertically and plumb. Attach the air terminal connector to the roof support, ensuring that the top of the air terminal is 16" (40.6cm) above the highest point that it penetrates the roof.
- Remove nails from the shingles, above and to the sides of the air terminal connector. Place the flashing over the air terminal connector leaving a min. 3/4" (19mm) of the air terminal connector showing above the top of the flashing. Slide the flashing underneath the sides and upper edge of the shingles. Ensure that the air terminal connector is properly centered within the flashing, giving a 3/4" (19mm) margin all around. Fasten to the roof. Do not nail through the lower portion of the flashing. Make weather-tight by sealing with caulking. Where possible, cover the sides and top edges of the flashing with roofing material.
- Aligning the seams of the terminal and air terminal connector, place the terminal over the air terminal connector making sure the vent pipe goes into the hole in the terminal. Secure with a minimum of three screws, when 4/7, 5/8 and 3/5 venting is used and a minimum of six screws when using 8/10 or 8/11 venting.
- Apply a heavy bead of weatherproof caulking 2" (51mm) above the flashing. Install the storm collar around the air terminal and slide down to the caulking. Tighten to ensure that a weather-tight seal between the air terminal and the collar is achieved.
- If more vent pipe needs to be used to reach the appliance, see "**horizontal air terminal installation**" section.



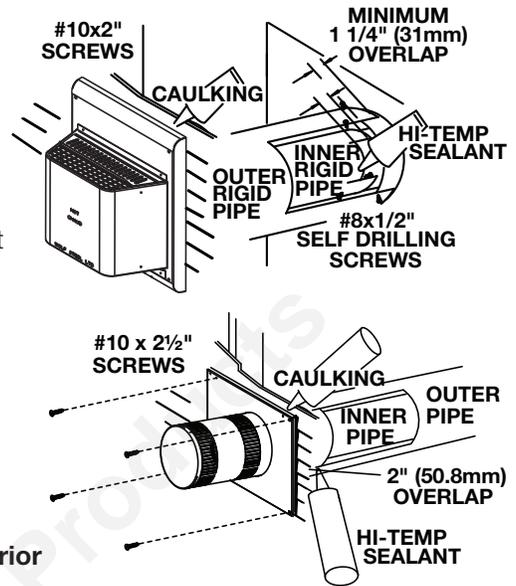
### 4.3.3 appliance vent connection

- Install the inner flex pipe to the appliance. Secure with a minimum of three screws when installing 3"/5", 4"/7" or 5"/8" venting, or six screws when installing 8"/10" or 8"/11" venting. Seal the joint and screw holes using Mill Pac sealant (W573-0007) (not supplied).
- Install the outer flex pipe to the appliance. Secure with a minimum of three screws when installing 3"/5", 4"/7" or 5"/8" venting, or six screws when installing 8"/10" or 8"/11" venting. Seal the joints using high temperature red RTV silicone (W573-0002) (not supplied).



### 4.3.4 horizontal air terminal installation

- A. Move the appliance into position. Measure the vent length required between terminal and appliance taking into account the additional length needed for the finished wall surface and any 1 1/4" (31.8mm) overlaps between venting components.
- B. Apply a heavy bead of Mill Pac sealant (W573-0007) (not supplied) to the outer edge of the inner exhaust flue collar of the appliance. Attach the first inner rigid pipe component and secure using a minimum of three #8 screws. Repeat using the outer rigid pipe. Seal using Red RTV Silicone (W573-0002) (not supplied).
- C. Insert the vent pipes through the firestop maintaining the required clearance to combustibles. Apply a heavy bead of Red RTV Silicone (W573-0002) (not supplied) to both the inner sleeve and outer sleeve of the air terminal. Slide the terminal sleeves into the rigid pipes a minimum of 1 1/4". Holding the air terminal (lettering in an upright, readable position), secure to the exterior wall and make weather tight by sealing with caulking (not supplied).

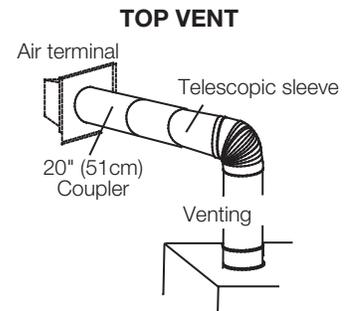


**The air terminal mounting plate may be recessed into the exterior wall or siding no greater than the depth of the return flange.**

### 4.3.5 extended horizontal and corner air terminal installation

**FOR REAR VENT ONLY:** A 45° corner installation can have 0" (0mm) rise between the appliance combustion air collar and the air terminal. In this case, vent lengths must be kept to a maximum of 24" (61cm). For longer vent lengths, a minimum vertical rise of 24" (61cm) is required.

- A. Follow the instructions for "horizontal air terminal installation" section.
- B. Continue adding components alternating inner rigid pipe and outer rigid pipe. Ensure that all inner rigid pipe and elbows have sufficient vent spacers attached and each component is sealed and securely fastened to the one prior. Attach the inner telescopic sleeve to the vent run. Repeat using the outer telescopic sleeve. Seal and secure as before. To facilitate completion, attach inner and outer couplers to the air terminal.
- C. Install the air terminal. See "horizontal air terminal installation" section. Extend the outer telescopic sleeve; connect to the air terminal assembly. Fasten with self tapping screws and seal.



# venting installation

## 4.3.6 vertical air termination installation using rigid venting

### ! WARNING

- Maintain a minimum 2" (51mm) space between the air inlet base and the storm collar.

#### note:

Fastening hardware provided with appropriate roof terminal and liner kits.

Before attaching elbows to the collars on the back of the appliance, 1 1/2" (38.1mm) will need to be trimmed off the 4" (101.6mm) collar.

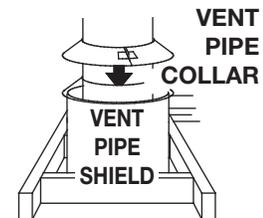
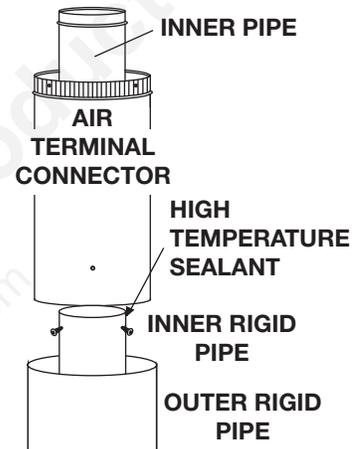
**REAR VENT APPLICATIONS ONLY:** Attach 4" (101.6mm) and 7" (177.8mm) elbows to the appliance. Secure with 3 screws and seal the joints and screw heads using high temperature sealant. Proceed to step A below.

#### TOP AND REAR VENT APPLICATIONS:

- Move the appliance into position.
- Fasten the roof support to the roof using the screws provided. The roof support is optional. In this case the venting is to be adequately supported using either an alternate method suitable to the authority having jurisdiction or the optional roof support.
- Apply high temperature sealant W573-0007 (not supplied) to the outer edge of the inner sleeve of the air terminal. Slip the inner coupler a minimum of 2" (51mm) over the sleeve and secure using 3 screws.
- Apply high temperature sealant W573-0002 (not supplied) to the outer edge of the of the outside sleeve of the air terminal connector. Slip the outer coupler over the sleeve and secure as before. Trim the outer coupler even with the inner coupler end.
- Thread the air terminal connector / vent pipe assembly down through the roof support and attach, ensuring that a minimum 16" (40.6cm) of air terminal connector will penetrate the roof when fastened. If the attic space is tight, we recommend threading the Wolf Steel vent pipe collar or equivalent loosely onto the air terminal connector / vent pipe assembly as it is passed through the attic. The air terminal connector must be positioned vertically and plumb.
- Remove nails from the shingles, above and to the sides of the air terminal connector. Place the flashing over the air terminal connector and slide it underneath the sides and upper edge of the shingles. Ensure that the air terminal connector is properly centered within the flashing, giving a 3/4" (19.1mm) margin all around. Fasten to the roof. **Do NOT nail through the lower portion of the flashing.** Make weather-tight by sealing with caulking. Where possible, cover the sides and top edges of the flashing with roofing material.
- Apply a heavy bead of waterproof caulking 2" (51mm) above the flashing. Install the storm collar around the air terminal and slide down to the caulking. Tighten to ensure that a weather-tight seal between the air terminal connector and the collar is achieved.
- Continue adding rigid venting sections, sealing and securing as above. Attach the inner collapsed telescopic sleeve to the last section of rigid piping. Secure with screws and seal. Repeat using the outer telescopic sleeve.
- Run a bead of high temperature sealant W573-0007 (not supplied) around the outside of the **inner elbow for rear vent applications** or the **inner collar for top vent applications**. Pull the telescopic sleeve a minimum of 2" (51mm) onto the elbow. Secure with three screws. Repeat with the outer telescopic sleeve.

#### TOP VENT APPLICATIONS ONLY:

- In the attic, slide the vent pipe collar down to cover up the open end of the shield and tighten. This will prevent any materials, such as insulation, from filling up the 1" (25mm) air space around the pipe.



## ! WARNING

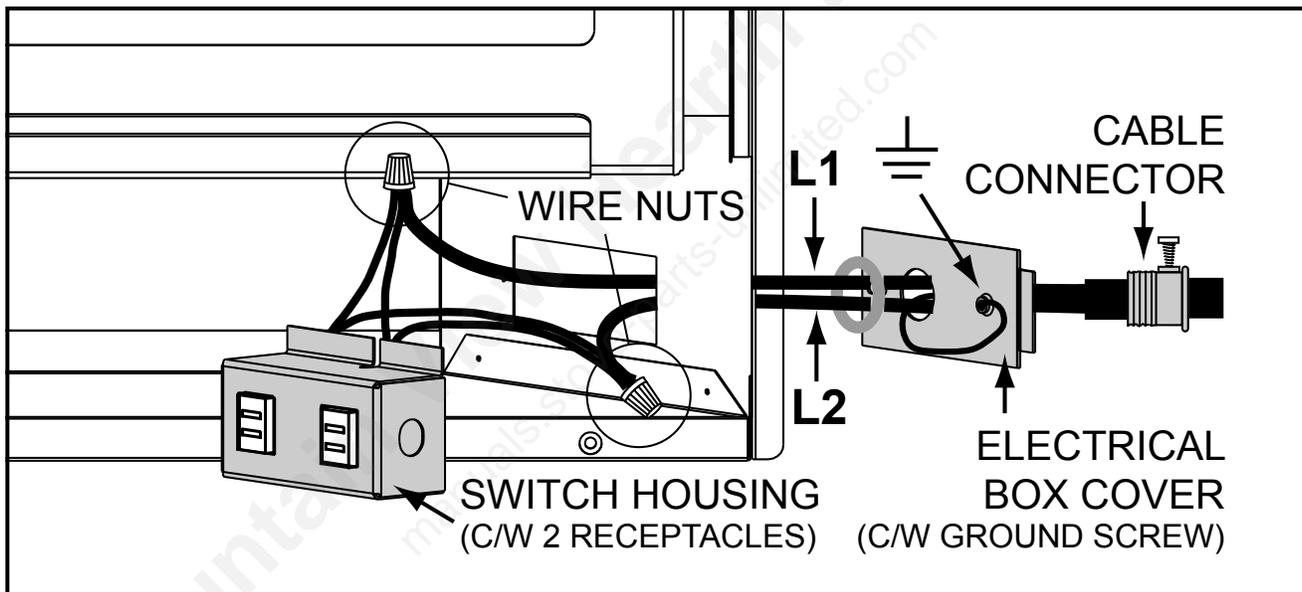
- Do not use this appliance if any part has been under water. Call a qualified service technician immediately to have the appliance inspected for damage to the electrical circuit.
- Risk of electrical shock or explosion. Do not wire 110V to the valve or to the appliance wall switch. Incorrect wiring will damage controls.
- All wiring should be done by a qualified electrician and shall be in compliance with local codes. In the absence of local codes, use the current CSA22.1 Canadian Electric Code in Canada or the current National Electric Code ANSI/NFPA NO. 70 in the United States.
- Always light the pilot whether for the first time or if the gas supply has run out, with the glass door opened or removed.

### 5.1 hard wiring connection

It is necessary to hardwire this appliance. Permanently framing the appliance with an enclosure requires the appliance junction box to be hardwired.

This appliance must be electrically connected and grounded in accordance with local codes. In the absence of local codes, use the current CSA C22.1 Canadian Electrical Code in Canada or the ANSI/NFPA 70-1996 National Electrical Code in the United States.

### 5.2 receptable wiring diagram



# electrical information

## 5.3 battery installation / replacement

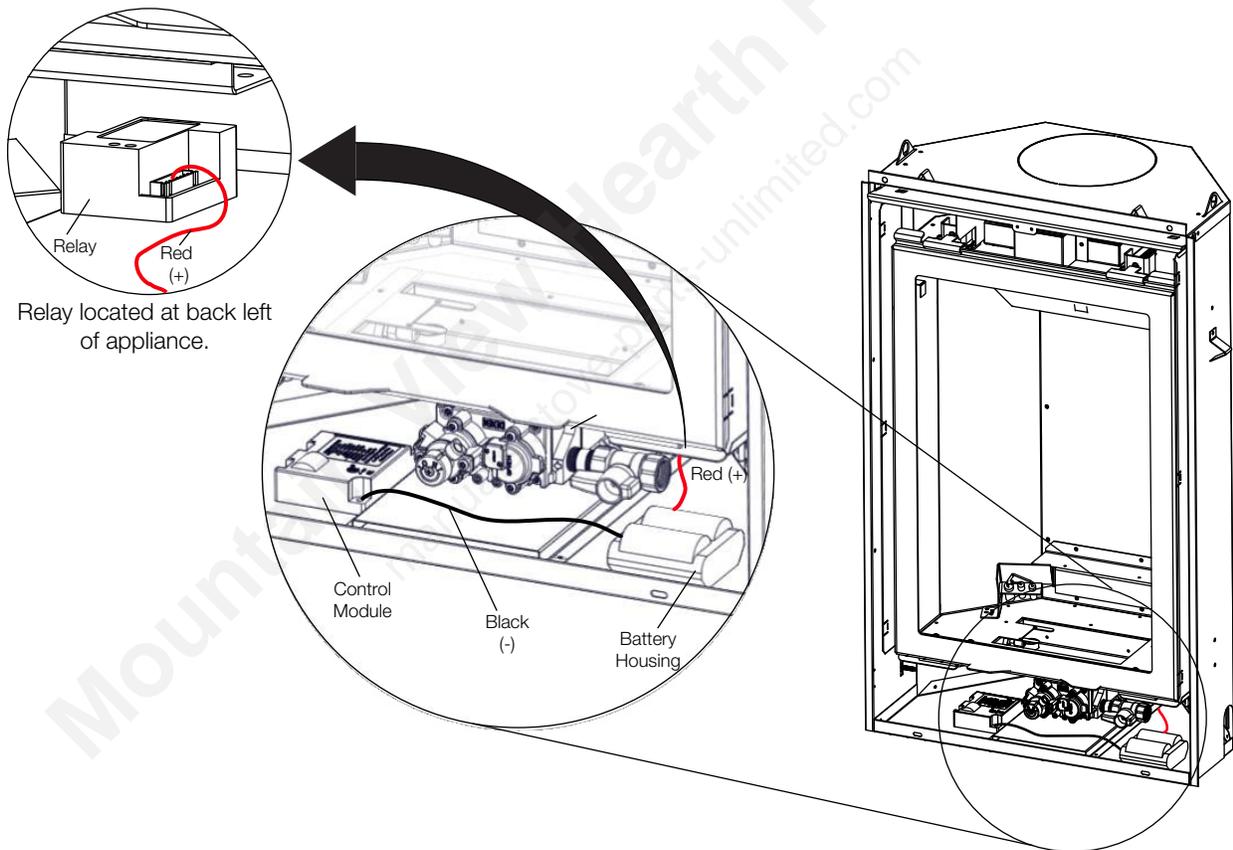
### ! WARNING

- Ensure the gas and electrical power to the appliance is turned off.
- Appliance may be hot, do not service until the appliance has cooled.

#### note:

In the event of a power failure, your appliance can be operated using the supplied battery back-up.

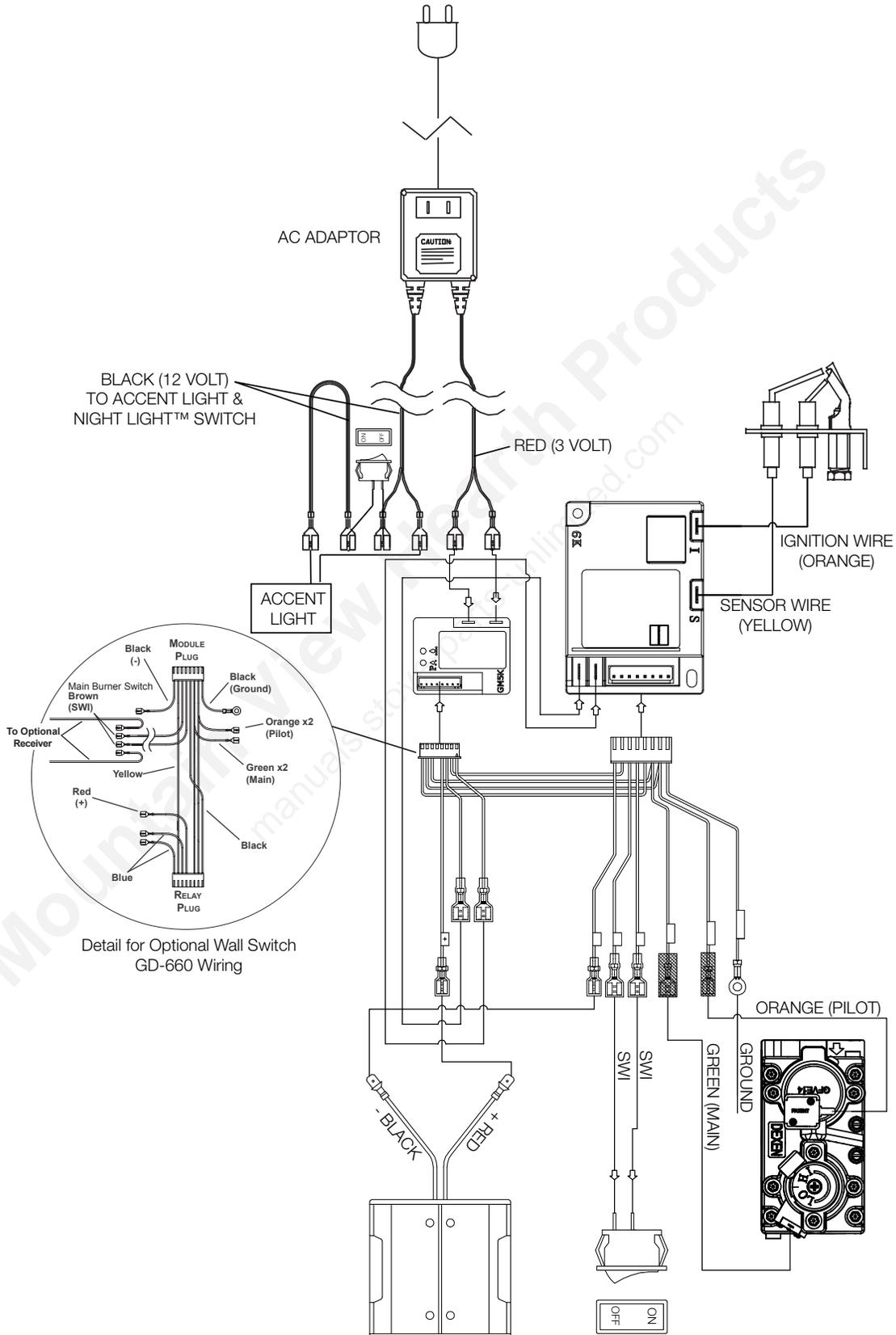
- Remove the safety barrier to easily access the control compartment.
- Turn off the gas and disconnect the electrical power supply from the appliance.
- Locate the battery housing inside the valve compartment.
- Install 2 "D" alkaline batteries (not supplied) into the battery housing. Ensure the positive and negative ends correspond with those identified on the holder.
- Turn the gas and electrical power back on to begin operating the appliance.
- Reinstall the safety barrier. The safety barrier must be installed at all times during operation of the appliance.



5.4 wiring diagram

**! WARNING**

- Do not wire 110 volts to the valve or wall switch.



## 6.0 gas installation

### WARNING

- Risk of fire, explosion, or asphyxiation. Ensure there are no ignition sources such as sparks or open flames.
- Support gas control when attaching gas supply pipe to prevent damaging gas line.
- Always light the pilot whether for the first time or if the gas supply has run out with the glass door opened or removed. Purging of the gas supply line should be performed by a qualified service technician. Ensure that a continuous gas flow is at the burner before closing the door. Ensure adequate ventilation. For gas and electrical locations, see “dimensions” section.
- All gas connections must be contained within the appliance when complete **(gas fireplaces only)**.
- High pressure will damage valve. Disconnect gas supply piping before testing gas line at test pressures above 1/2 PSIG.
- Valve settings have been factory set, do not change.

#### **Installation and servicing to be done by a qualified installer.**

- Move the appliance into position and secure.
- If equipped with a flex connector, the appliance is designed to accept a 1/2” (13mm) gas supply. Without the connector, it is designed to accept a 3/8” (9.5mm) gas supply. The appliance is equipped with a manual shut off valve to turn off the gas supply to the appliance.
- Connect the gas supply in accordance to local codes. In the absence of local codes, install to the current CAN/CSA-B149.1 Installation Code in Canada or to the current National Fuel Gas Code, ANSI Z223.1 / NFPA 54 in the United States.
- When flexing any gas line, support the gas valve so that the lines are not bent or kinked.
- The gas line flex-connector should be installed to provide sufficient movement for shifting the burner assembly on its side to aid with servicing components.
- Check for gas leaks by brushing on a soap and water solution. **Do not use open flame.**

## 7.0 operation

### ! WARNING

- If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.
- If applicable, always light the pilot whether for the first time or if the gas supply has run out with the glass door opened or removed.

Ensure that a continuous gas flow is at the burner before installing the door. When lit for the first time, the appliance will emit an odor for a few hours. This is a normal temporary condition caused by the “burn-in” of paints and lubricants used in the manufacturing process and will not occur again. After extended periods of non-operation, such as, following a vacation or warm weather season, the appliance may emit a slight odor for a few hours. This is caused by dust particules in the heat exchanger burning off. In both cases, open a window to sufficiently ventilate the room.

#### FOR YOUR SAFETY READ BEFORE LIGHTING

- Do not turn on if children or other at risk individuals are near the appliance.
- This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
- Before operating, smell all around the appliance area for gas and next to the floor because some gas is heavier than air and will settle on the floor.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and replace any part of the control system and any gas control which has been underwater.

#### WHAT TO DO IF YOU SMELL GAS

- Turn off all gas to the appliance.
- Open windows.
- 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 neighbour’s phone. Follow the gas supplier’s instructions.
- If you cannot reach your gas supplier, call the fire department.

#### LIGHTING INSTRUCTIONS

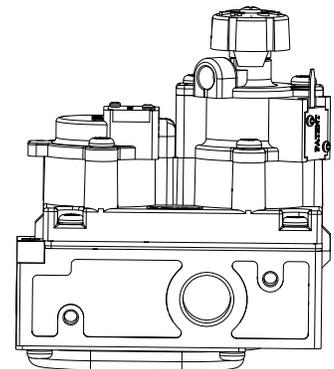
##### note:

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

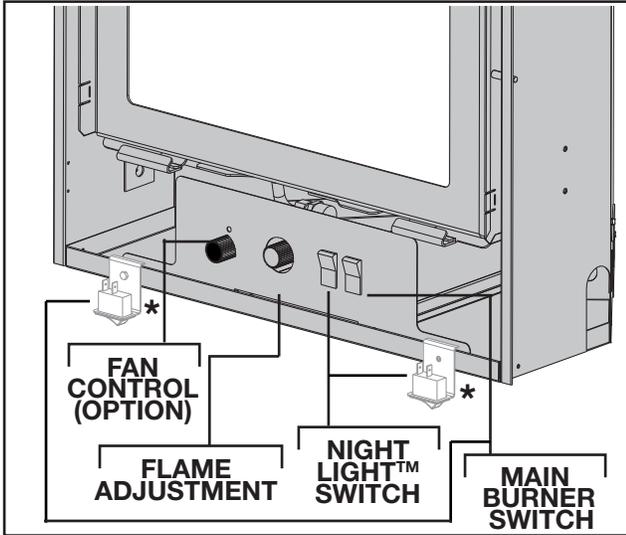
- Stop! Read the above safety information on this label.
- Remove batteries from the transmitter and set thermostat to lowest setting, if equipped.
- Turn off all electrical power to the appliance.
- Open the glass door, if equipped.
- Turn the manual shut-off valve clockwise to the “OFF” position. (Shut-off valve is located on the flex connector).
- Wait five (5) minutes to clear out any gas. If you smell gas including near the floor, **STOP!** Follow the instructions above in the “WHAT TO DO IF YOU SMELL GAS” section. If you don’t smell gas; close the glass door and go to the next step.
- Turn the manual shut-off valve counter clockwise to the “ON” position.
- Turn on all electrical power to the appliance and re-install the batteries into the transmitter. Set thermostat to desired setting, if equipped.
- Turn on the remote wall switch to the appliance.
- If the appliance will not operate, follow instructions “TO TURN OFF GAS” and call your service technician or gas supplier.

#### TO TURN OFF GAS

- Set thermostat to lowest setting, if equipped.
- Turn off the remote wall switch to the appliance.
- Turn off all electric power to the appliance if service is to be performed.
- Turn manual shutoff valve clockwise to the “OFF” position. Do not force.



## 7.1 control functions

**MAIN BURNER SWITCH**

This switch turns the Main Burner on and off.

**FLAME ADJUSTMENT**

Turn this knob clockwise or counter-clockwise to adjust the main burner flame height.

**NIGHT LIGHT™ SWITCH**

This switch turns the Night Light™ on and off.

**FAN CONTROL OPTION**

If installed, this switch will turn the power to the blower on and off and control the fan speed. There is also a thermally activated switch that will only let the blower come on once the appliance has reached a comfortable temperature.

\* Only available with contemporary front.

## **! WARNING**

- Risk of fire and electrical shock!
- Turn off the gas and electrical power before servicing this appliance.
- Use only Wolf Steel approved optional accessories and replacement parts with this appliance. Using non-listed accessories (blowers, doors, louvres, trims, gas components, venting components, etc.) could result in a safety hazard and will void the warranty and certification.
- Ensure that the fan's power cord is not in contact with any surface of the appliance to prevent electrical shock or fire damage. Do not run the power cord beneath the appliance.
- The wire harness provided in the blower kit is a universal harness. When installed, ensure that any excess wire is contained, prevent it from making contact with moving or hot objects.

**ELECTRICAL INSTALLATION TO BE DONE BY A QUALIFIED INSTALLER** and must be connected and grounded in accordance with local codes. In the absence of local codes, use the current CSA C22.1 Canadian Electrical Code in Canada or the current ANSI/NFPA 70 National Electrical Code in the United States.

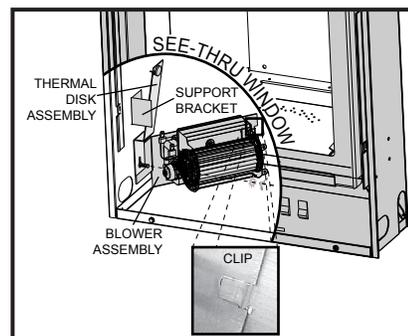
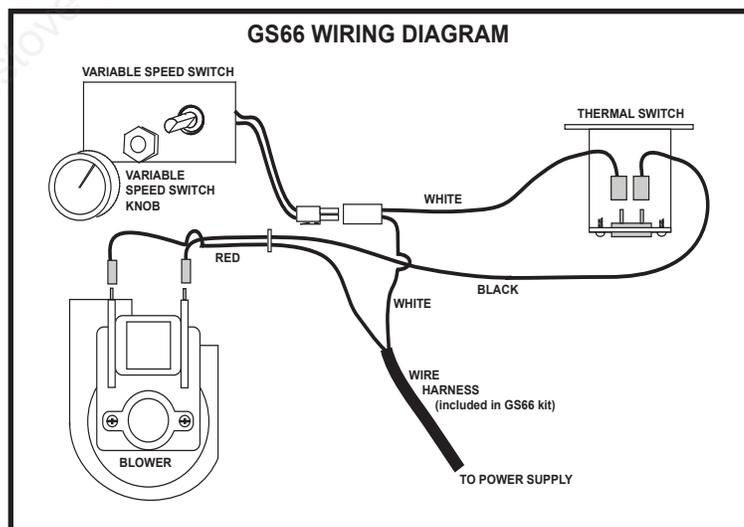
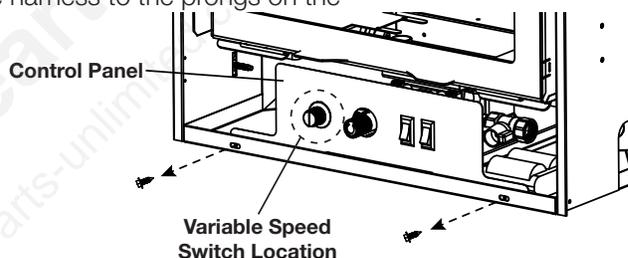
If an optional blower is to be used, the blower must be connected to the main power supply. Route a grounded 14 gauge 2-wire power cable to the junction box and ground. At the point where the cable enters the junction box, a conduit connector must be provided.

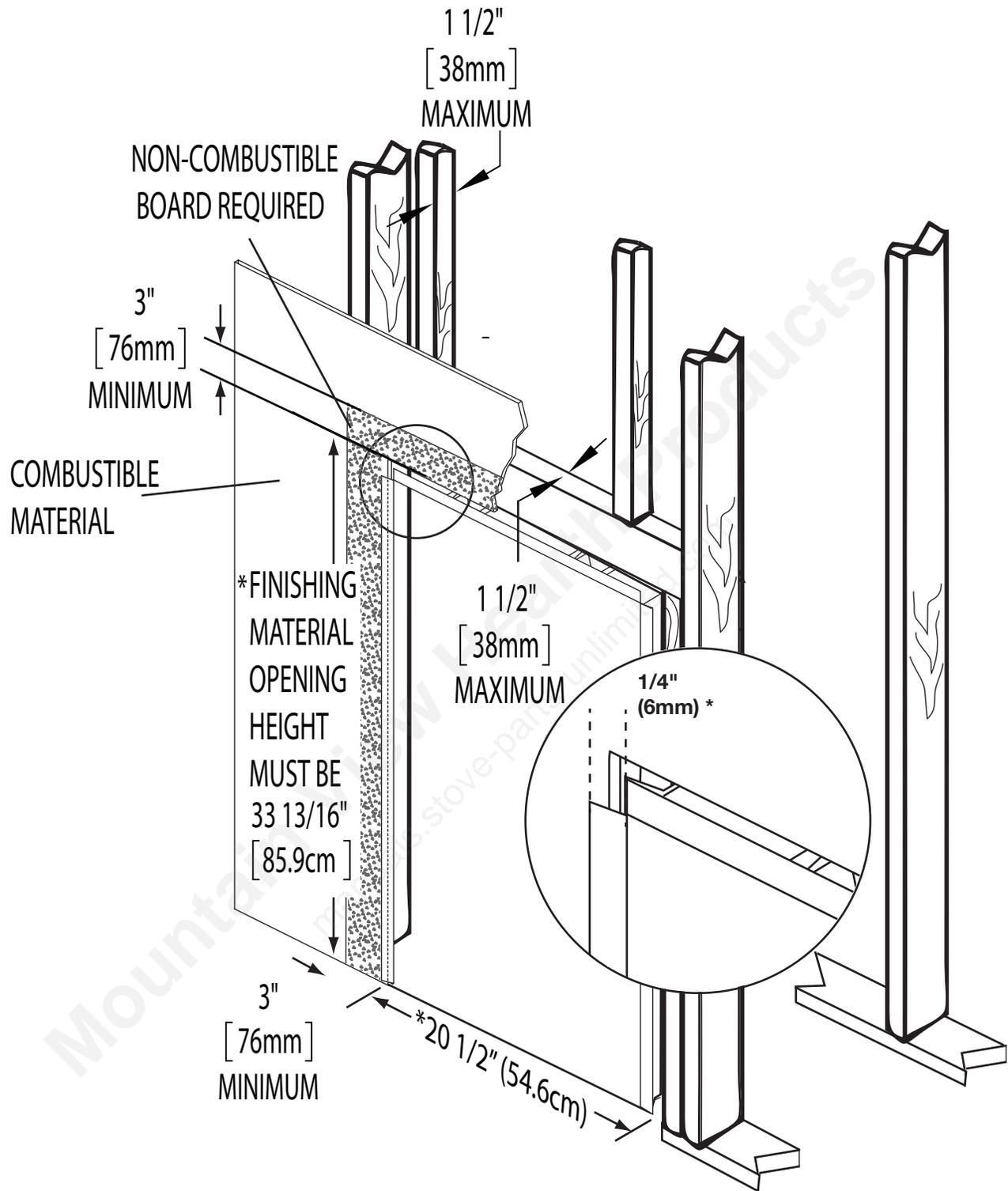
- Remove the two screws that secure the control panel to the front of the appliance.
- Connect the black and red wires of the wire harness to the prongs on the blower.
- Connect the white and black wires of the wire harness to the prongs on the thermodisc.
- Place the thermal switch assembly onto the stud located at the lower left of the firebox and behind the support bracket.
- Connect the wiring for the variable speed switch.
- Insert the blower assembly into the left side under the firebox, slide into the clip and place onto the same stud used for the thermal switch assembly. Secure with the lock washer and wing nut supplied. Ensure that the blower does not touch the base of the firebox, any wiring or controls. Ensure that the thermal switch is touching the wall of the firebox.

### hint:

Rest the thermal disk assembly forward against the firebox.

- Plug into the receptacle on the right side of the appliance.
- Place the variable speed switch into position and secure with the pal nut supplied. Reinstall the control panel and install the variable speed switch knob.





\* Finishing material **MUST NEVER** be installed behind the finishing flange.

This clearance must be maintained for the facing kit to cover the opening.

## 9.1 front face kit installation

### WARNING

- The components in this kit are heavy. Use care when lifting and ensure they are firmly secured once installed.
- This front facing does not replace the main glass door. Do not operate without the main glass door installed.
- The front facing can be installed flush with a counter, floor, or hearth.

- Remove the safety barrier and glass door (see "safety barrier & glass door" section).
- Install the side brackets, ensure the front face is on a soft surface to avoid any damages during bracket installation (**Fig. 1**).
- Install the safety barrier, spline up (**Fig. 2 & 3**).
- Install the decorative facing trim (**Fig. 4**).
- Install the 4 screws with spacers into the sides of the firebox (**Fig. 5**).
- Place the front facing onto the appliance by hooking the its brackets over the screws and spacers (**Fig. 6**).
- Install the rest of the top trim and control panel (**Fig. 7**).

Fig. 1

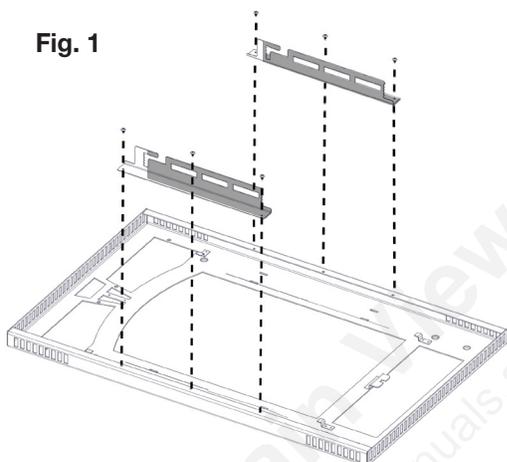


Fig. 2

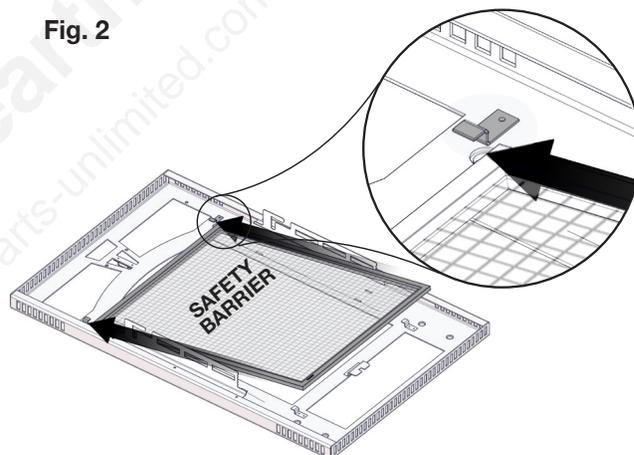


Fig. 3

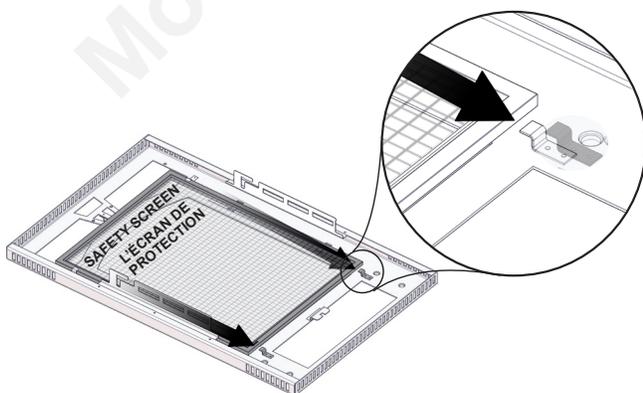


Fig. 4

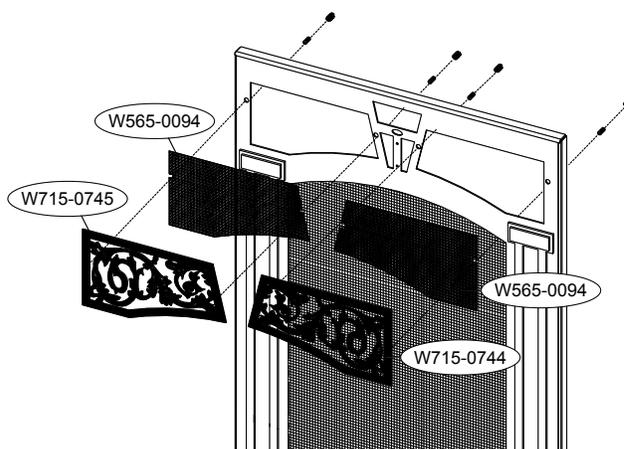


Fig. 5

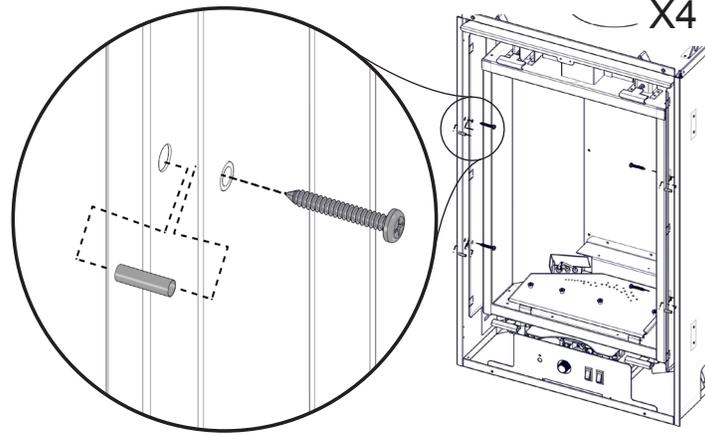


Fig. 6

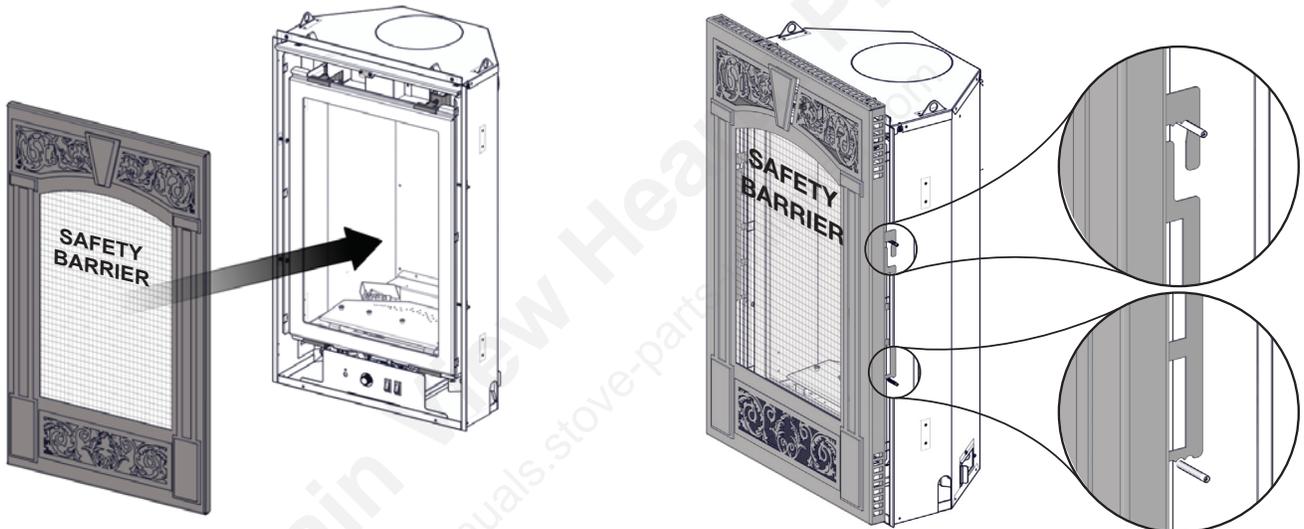
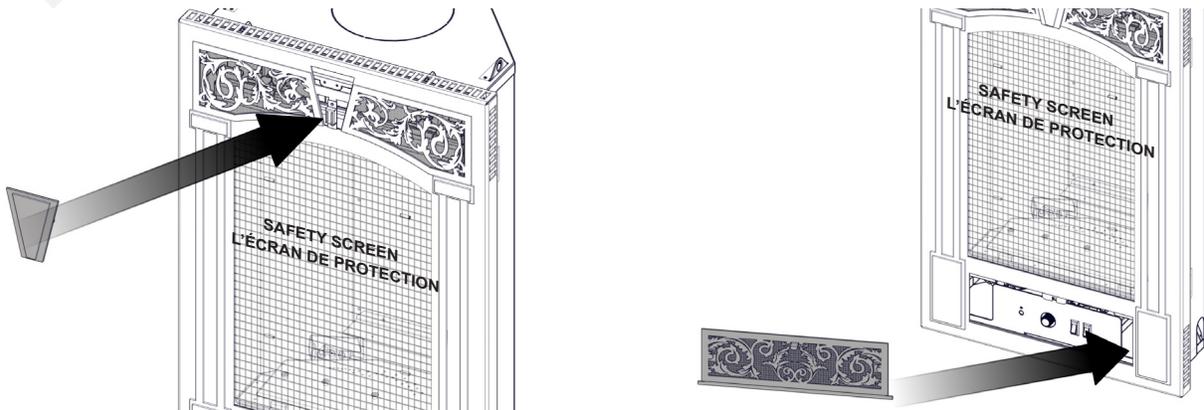


Fig. 7



## 9.2 contemporary front face kit installation

- A. Remove the safety barrier and glass door (see "safety barrier & glass door" section).
- B. Install the side brackets, ensure the front face is on a soft surface to avoid any damages during bracket installation (**Fig. 1**).
- C. Install the lower side bracket on the front (**Fig. 2**).
- D. Install the safety barrier, spline up (**Fig. 3**).
- E. Install the 4 screws with spacers into the sides of the firebox (**Fig. 4**).
- F. Place the front facing onto the appliance by hooking the its brackets over the screws and spacers (**Fig. 5**).

Fig. 1

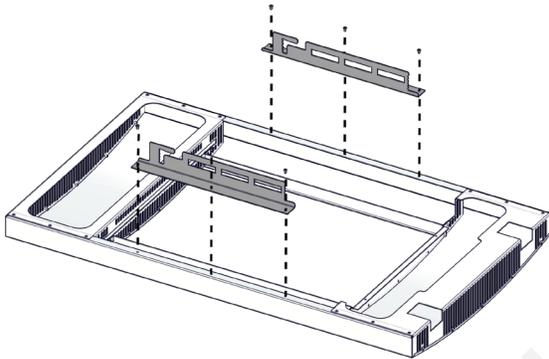


Fig. 2

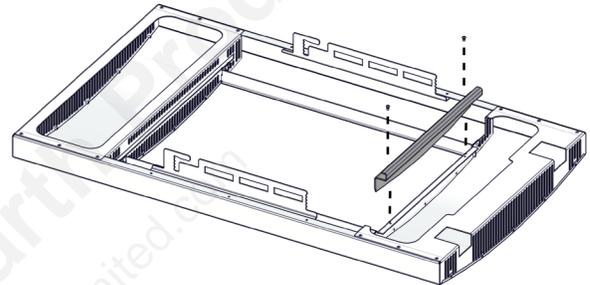


Fig. 3

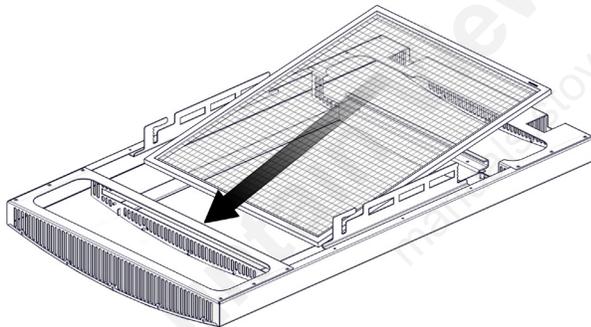


Fig. 4

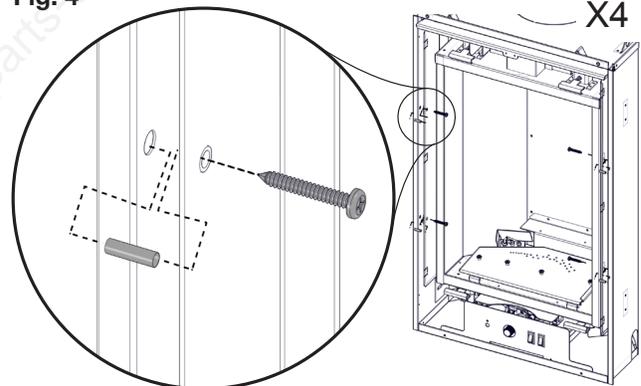
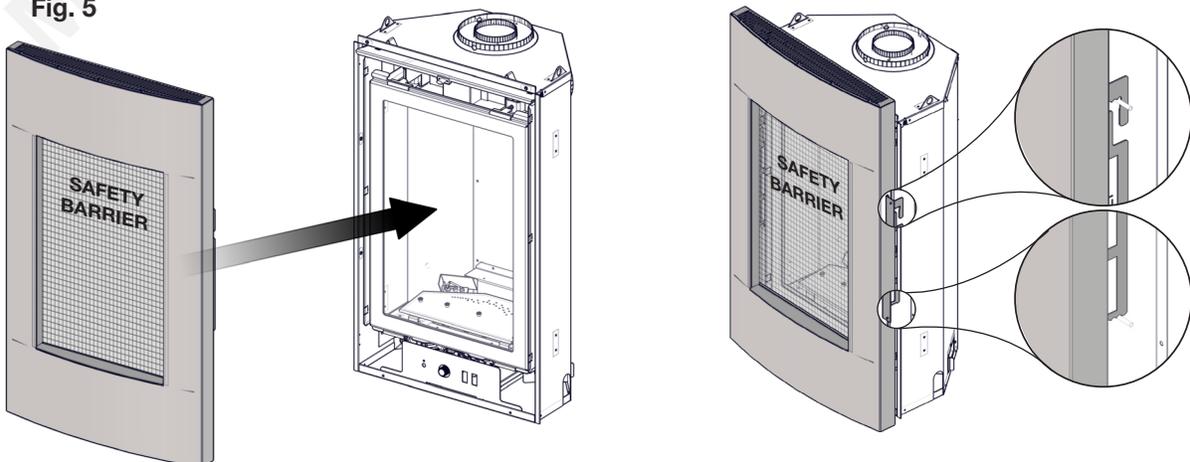


Fig. 5



### 9.3 safety barrier and glass door

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

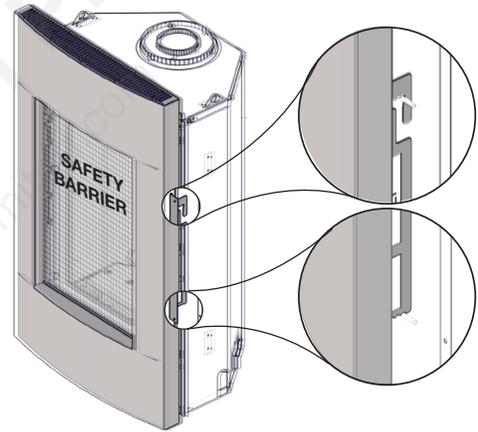
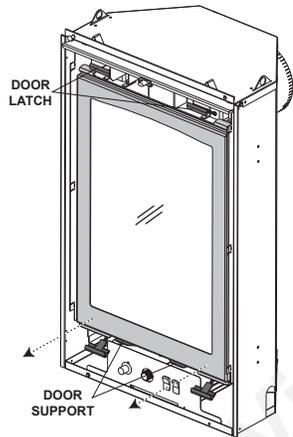
#### Door Removal / Installation:

- A. The glass door is secured to the top and front bottom edges of the firebox with four spring latches. Pull forward on the latches and away from the door to release.
- B. Slide the door forward off its support.
- C. Reverse steps to reinstall the glass door. Slide the front with safety barrier onto the hooks over the top of the spacers and then let it slide down into position.

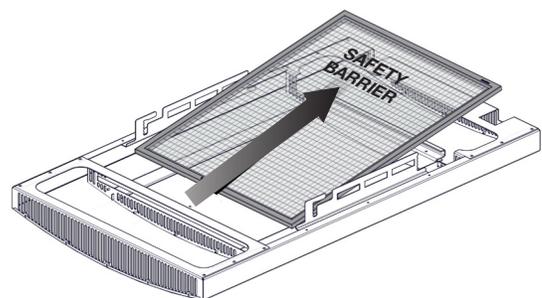
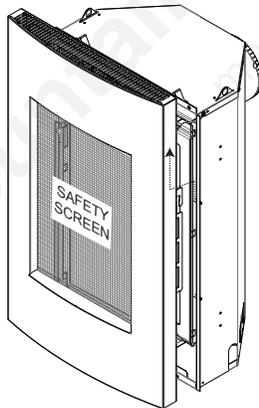
#### Safety Barrier Removal / Installation:

- A. Lift the front with safety barrier up, pull it towards you and lift up and away from the appliance.
- B. Slide screen out and away from the front surround.
- C. Reverse steps to reinstall. Slide the front with safety barrier onto the hooks over the top of the spacers and then let it slide down into position.

#### Door Removal:



#### Safety Barrier Removal:



### 9.4 minimum combustible mantel clearances

#### ! WARNING

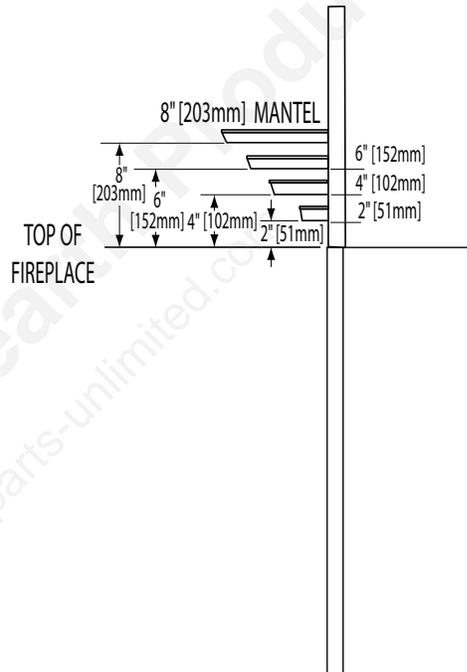
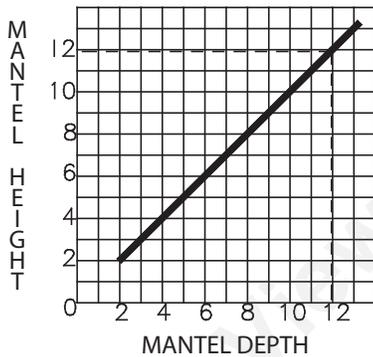
- Risk of fire. Maintain all specified air space clearances to combustibles. Failure to comply with these instructions may cause a fire or cause the appliance to overheat. Ensure all clearances (i.e. back, side, top, vent, mantel, front, etc.) are clearly maintained.
- When using paint or lacquer to finish the mantel, the paint or lacquer must be heat resistant to prevent discolouration.

Mantel clearance can vary according to the mantel depth. Use the graph to help evaluate the clearance needed.

Combustible materials must be installed flush with the front of the appliance but must not cover any of the black face-area of the appliance. Non-combustible material (brick, stone or ceramic tile) may protrude past the face of the appliance.

**note:**

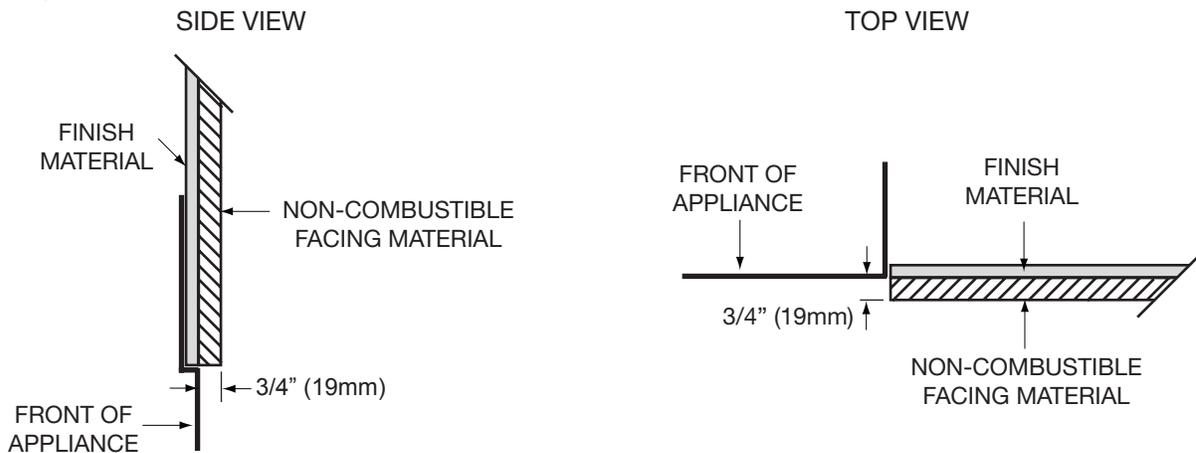
Mantels can be installed according to the chart below until the ceiling height is met.



### 9.5 non-combustible facing material

#### ! WARNING

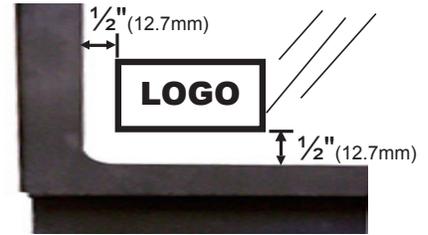
- Non-combustible facing material may protrude past the face of the opening relative to its depth. If it does, it is considered a non-combustible protrusion and must meet the non-combustible protrusion clearance requirements.



## finishing

### 9.6 logo placement

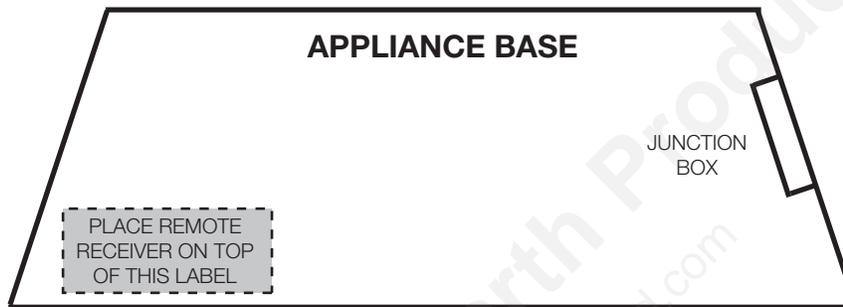
Remove the backing of the logo supplied and place as illustrated.



### 9.7 burner installation

See separate instructions accompanying the burner assembly (sold separately). Keep those instructions along with this manual.

### 9.8 remote receiver placement



Position the remote receiver in the valve compartment box. Ensure the receiver is on top of the placement label, if equipped.

## 10.1 burner orifice replacement

### ! WARNING

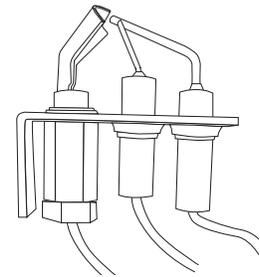
- This installation should be done by a qualified installer and shall be in compliance with local codes. In the absence of local codes, use the current CAN1-B149 Installation Code in Canada, or the current National Fuel Gas Code ANSI Z223.1 in the United States.

- Turn off the electrical and gas supply to the appliance.
- Remove the front, safety barrier, glass viewing door, and log set/rock bowl and support.
- Remove the 2 securing screws. Slide the burner assembly to the right and lift out.
- Using a deep socket wrench, remove the main burner orifice. A back-up wrench must be used on the manifold, located below the housing to ensure that the aluminum tubing does not twist or kink. Replace the correct burner orifice using pipe thread compound.
- Reinstall the burner, ensuring that the Venturi tube fits over the orifice.

#### note:

If necessary, check and adjust the primary air to 1/16" (1.6mm) for propane and 1/32" (1mm) for natural gas. Replace the screws.

- Turn on the gas supply and check for gas leaks by brushing on a soap and water solution. **DO NOT USE OPEN FLAME.**
- Replace the log set/rock bowl and support. Then light the pilot and main burner to ensure that the gas lines have been purged.
- Reinstall the safety barrier, glass viewing door, and front. Turn on the electrical supply to the appliance.  
Purge all gas lines with the glass door removed. Before reinstalling the door, assure that a continuous flow is at the burner.



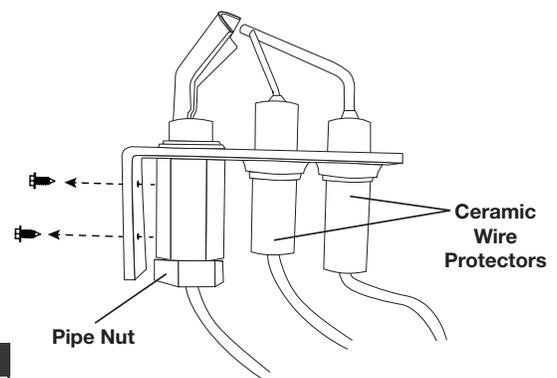
## 10.2 pilot injector replacement

- Turn off the electrical and gas supply to the appliance.
- Remove the front, safety barrier, glass viewing door, and log set/rock bowl and support.
- Remove the 2 securing screws. Slide the burner assembly to the right and lift out.
- Remove the 2 screws holding the pilot to the bracket (see illustration).
- Using a wrench, loosen the pipe nut on the pilot (see illustration).

#### note:

Be careful not to damage ceramic wire protectors (see illustration).

- Replace the injector, then tighten the pipe nut back onto the pilot assembly.
- Secure the pilot back onto the bracket, using the 2 screws previously removed in Step D.
- Reinstall the burner, ensuring that the Venturi tube fits over the orifice.
- Turn on the gas supply and check for gas leaks by brushing on a soap and water solution. **DO NOT USE OPEN FLAME.**



## adjustments

- J. Replace the log set/rock bowl and support. Then light the pilot and main burner to ensure that the gas lines have been purged.
- K. Reinstall the safety barrier, glass viewing door, and front. Turn on the electrical supply to the appliance. Purge all gas lines with the glass door removed. Before reinstalling the door, assure that a continuous flow is at the burner.

### 10.3 venturi adjustment

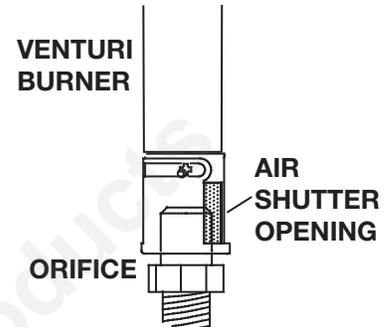
This appliance has an air shutter that has been factory set open according to the chart below:

Regardless of venturi orientation, closing the air shutter will cause a more yellow flame, but can lead to carbonization. Opening the air shutter will cause a more blue flame, but can cause flame lifting from the burner ports. The flame may not appear yellow immediately; allow 15 to 30 minutes for the final flame colour to be established.

**AIR SHUTTER ADJUSTMENT MUST ONLY BE DONE BY A QUALIFIED INSTALLER.**

**note:**

It is important that the orifice is securely inserted into the venturi.



GD19-2	
Fuel	Primary Burner
NG	1/32"
P	1/16"

### 10.4 check pressure readings

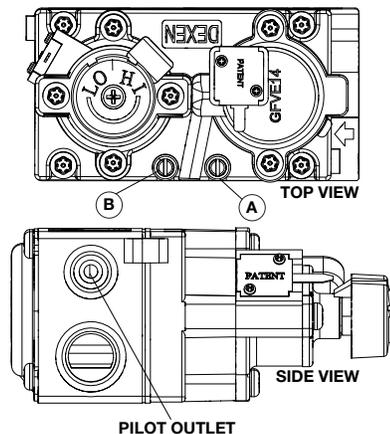
Inlet pressure can be checked by turning screw (A) counter-clockwise 2 or 3 turns and then placing pressure gauge tubing over the test point. Gauge should read as described on the chart below. Check pressure with main burner operating on "HI".

Outlet pressure can be checked the same as above using screw (B). Gauge should read as described on the chart below. Check pressure with main burner operating on "HI".

**After taking pressure readings, be sure to turn screws clockwise firmly to reseal. Do not overtorque.**

Leak test with a soap and water solution.

Prior to pilot adjustment, ensure that the pilot assembly has not been painted. If overspray or painting of the pilot assembly has occurred remove the paint from the pilot assembly, or replace. Fine emery cloth or a synthetic scrub pad (such as Scotch-Brite™) can be used to remove the paint from the pilot hood, electrode and flame sensor.



Pressure	Natural Gas (inches)	Natural Gas (millibars)	Propane (inches)	Propane (millibars)
Inlet	*7" (minimum 4.5")	17.4mb (minimum 11.2mb)	13" (minimum 11")	32.4mb (minimum 27.4mb)
Outlet	3.5"	8.7mb	10"	24.9mb

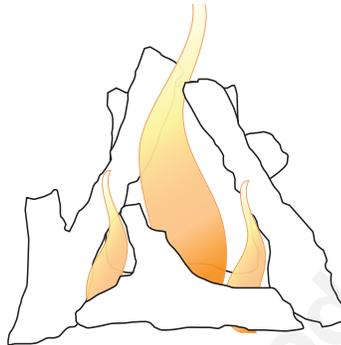
**\*Maximum inlet pressure not to exceed 13"**

## 10.5 flame characteristics

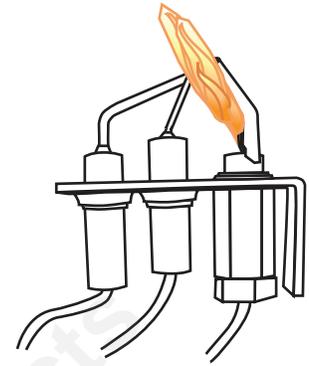
It's important to periodically perform a visual check of the pilot and burner flames. Compare them to the illustration provided. If any flames appear abnormal, call a service person.



**B19N/PS-2 Rock Burner**



**B19N/PL-2 Log Burner**



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## WARNING

- Turn off the gas and electrical power before servicing the appliance.
- Appliance may be hot. Do not service until appliance has cooled.
- Do not use abrasive cleaners on glass.
- Do not paint the pilot assembly.

This appliance and its venting system should be inspected before use and at least annually by a qualified service person. The following suggested checks should be performed by a qualified technician. The appliance area must be kept clear and free of combustible materials, gasoline, or other flammable vapors and liquids. The flow of combustion and ventilation air must not be obstructed.

### note:

Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

1. In order to properly clean the burner and pilot assembly, remove the logs, rocks and/or glass to expose both assemblies.
2. Keep the control compartment, media, burner, air shutter opening and the area surrounding the appliance clean by vacuuming or brushing, at least once a year.
3. Check to see that all burner ports are burning. Clean out any of the ports which may not be burning or are not burning properly.
4. Check to see that the pilot flame is large enough to engulf the flame sensor and/or thermocouple / thermopile as well as it reaches the burner.
5. If your appliance is equipped with a safety barrier, cleaning may be necessary due to excessive lint / dust from carpeting, pets, etc. simply vacuum using the brush attachment.
6. If your appliance is equipped with relief doors, ensure the system performs effectively. Check that the gasket is not worn or damaged. Replace if necessary.
7. Replace the cleaned logs, rocks or glass. Failure to properly position the media may cause carboning which can be distributed in the surrounding living area, inside the firebox and on exterior surfaces surrounding vent termination.
8. Check to see that the main burner ignites completely on all ports when turned on. A 5 to 10 second total light-up period is satisfactory. If ignition takes longer, consult your local authorized dealer / distributor.
9. Visually inspect the appliance for carbon build up. Using a small whisk or brush, brush off the carbon and vacuum up or sweep into garbage.
10. **This step is not applicable for Vent Free appliances:** Check to see that the appliance is venting correctly. Ensure chimney system is safe and unobstructed. (If for any reason the vent air intake system is disassembled, re-install and re-seal per the instructions provided for the initial installation).

## 11.1 annual maintenance

### **WARNING**

- Annual maintenance should be performed by a qualified service technician
- The firebox becomes very hot during operation. Let the appliance cool completely or wear heat resistant gloves before conducting service.
- Never vacuum hot embers.
- Do not paint the pilot assembly

- This appliance will require maintenance which should be planned on an annual basis.
- Service should include cleaning, battery replacement, venting inspection and inspection of the burner, media, and firebox. Refer to the door removal section and remove the door as instructed.
- Carefully remove media if necessary (logs, glass, brick panels, etc.).
- Using a vacuum with soft brush attachment, gently remove any dirt, debris, or carbon build up from the logs, firebox, and burner. For glass media, follow the installation instructions for pre-cleaning.
- Gently remove any build-up on the pilot assembly including thermopile, thermocouple, flame sensor, and igniter (if equipped).

**note:**

Clean flame sensor using a fine emery cloth or a synthetic scrub pad (such as Scotch-Brite™) to remove any oxides. Clean the pilot assembly using a vacuum with a soft brush attachment. It is important that the pilot assembly is not painted.

- Inspect all accessible gaskets and replace as required.
- If equipped with a blower, access the blower and clean using a soft brush and vacuum.
- Re-assemble the various components in reverse order.
- Inspect the relief system. The appliance relieves through the main glass door or through the flaps on the firebox top. Ensure they open freely, and close sealed.
- Check the gas control valve pilot and Hi / Lo knobs move freely, if equipped. Replace if any stiffness in movement is experienced.
- Check for gas leaks on all gas connections up and downstream from the gas valve including pilot tube connections.

## 11.2 door glass replacement

### **WARNING**

- Do not use substitute materials.
- Glass may be hot. Do not touch glass until cooled.
- Care must be taken when removing and disposing of any broken door glass or damaged components. Be sure to vacuum up any broken glass from inside appliance before operation.
- Do not strike, slam, or scratch. Do not operate appliance with glass removed, cracked, broken, or scratched.

Replacement glass/frame assembly shall be replaced as a complete unit as supplied by the appliance manufacturer.

## 11.3 care of glass

**! WARNING**

- Do not clean glass when hot! Do not use abrasive cleaners to clean glass.

Buff lightly with a clean dry soft cloth to remove accumulated dust or fingerprints. Clean both sides of the glass after the first 10 hours of operation with an ammonia-free glass cleaner.

**note:**

Vinegar-based glass cleaners have demonstrated an ability to provide a clean, streak free glass surface.

Thereafter, clean as required. If the glass is not kept clean permanent discoloration and / or blemishes may result. Contact you local authorized dealer / distributor for complete cleaning instructions.

Razor blades, steel wool, or other metallic objects must not be used on both surfaces of the glass. Doing so can remove a thin layer of metal from the razor blades, steel wool, or other metallic objects that may then be deposited onto the coating. This can result in a discoloured stain or scratch-like mark. More importantly, this can scratch the glass surface, thereby reducing its strength.

Do not operate the appliance with broken glass, as leakage of flue gases may result.

Contact your local authorized dealer / distributor for complete cleaning instructions.

If the glass should ever crack or break while the fire is burning, do not open the door until the fire is out. Do not operate the appliance until the glass has been replaced. Contact you local authorized dealer / distributor for replacement parts. **DO NOT SUBSTITUTE MATERIALS.**

This appliance is factory equipped with 5mm ceramic glass. Use only replacement parts as supplied by the appliance manufacturer. **DO NOT SUBSTITUTE MATERIALS.**

## 11.4 night light™ replacement

## 11.4.1 bulb replacement

The GD19-2 comes equipped with our "Night Light™". In the event the lamp or lens needs to be replaced, follow these instructions:

- Turn off all electrical supply.
- Remove the safety barrier, front and door from the firebox.
- Unscrew the lens cover making sure the washer stays in place.

**note:**

Do not handle the lamp (bulb) with care fingers. Protect with a clean, dry cloth.



- The lamp will pull straight out of the socket. Replace with Wolf Steel Ltd. parts only (W387-0009), as lamp and lens are special "high temperature" products.
- Replace lens with gasket, lens covers, attach wires to quick connects and replace the safety barrier and door when finished.

**note:**

The firebox must be sealed.

**When re-assembling the light assembly, care must be taken. "Light Leakage" from above the cast doors may be noticed. The holes in the lamp housing are necessary for ventilation and must not be covered.**

## 11.4.2 lense assembly installation

- Remove the safety barrier and door from the firebox.
- Run the wires up through the lens hole.
- Align key hole with lens assembly.
- Snap into place.
- Replace light shields, attach the wires and replace the door and safety barrier to the firebox.



### 11.4.3 lense assembly replacement

- A. Remove the safety barrier, front door and top shield from the firebox.
- B. Compress the retainer fins in with a screw driver while pressing firmly on the top of the light assembly.
- C. Once all the retainer fins are pushed in the lens assembly will snap out of place.



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## 12.0 replacement parts

### **WARNING**

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

Contact your dealer for questions concerning prices and policies on replacement parts. Normally, all parts can be ordered through your Authorized dealer / distributor.

**For warranty replacement parts, a photocopy of the original invoice will be required to honour the claim.**

When ordering replacement parts always give the following information:

- Model & Serial Number of appliance
- Installation date of appliance
- Part number
- Description of part
- Finish

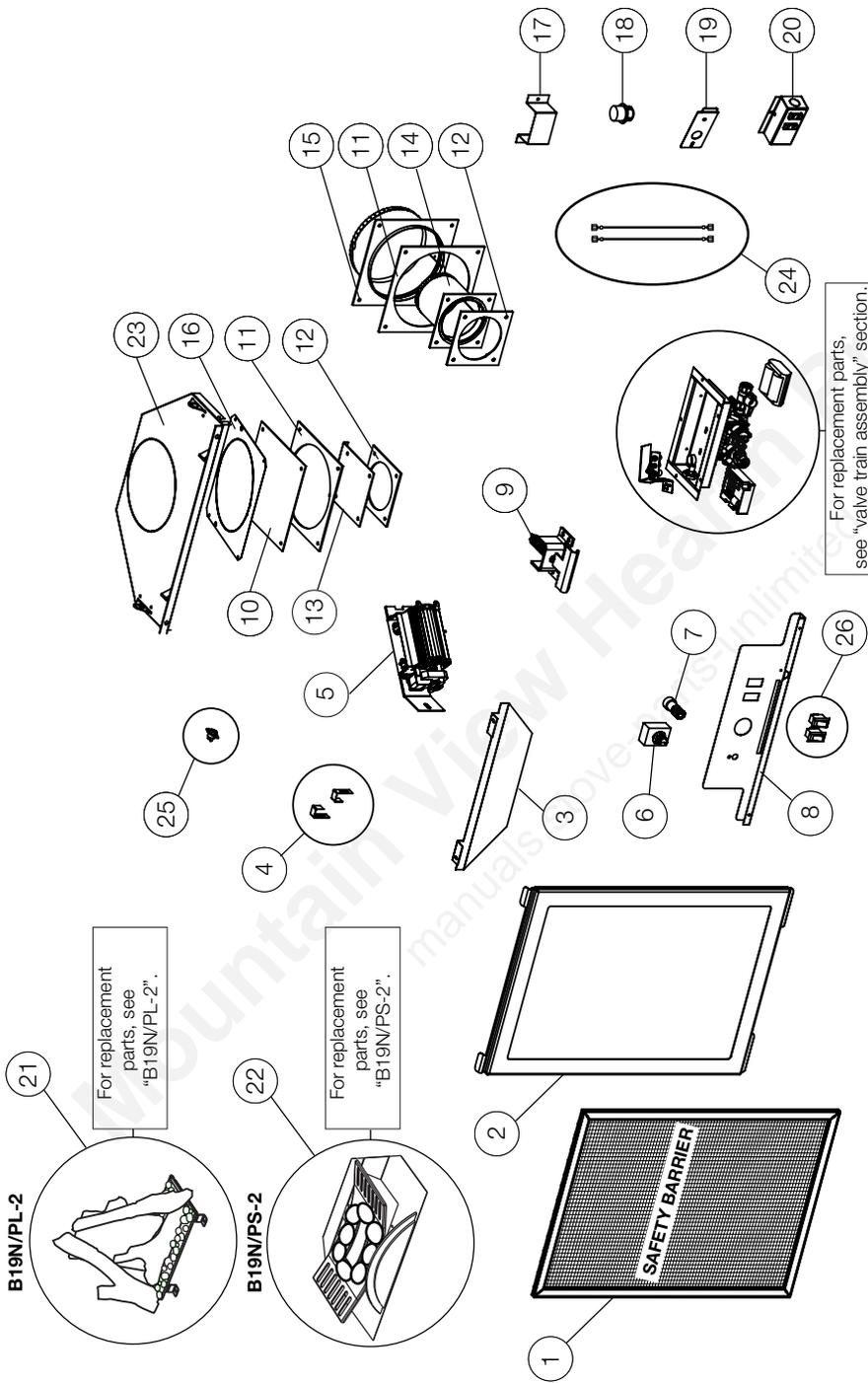
**Parts, part numbers, and availability are subject to change without notice.**

**Parts identified as stocked will be delivered within 2 to 5 business days for most delivery destinations.**

**Parts not identified as stocked will be delivered within a 2 to 4 week period, for most cases.**

**Parts identified as 'SO' are special order and can take up to 90 days for delivery.**

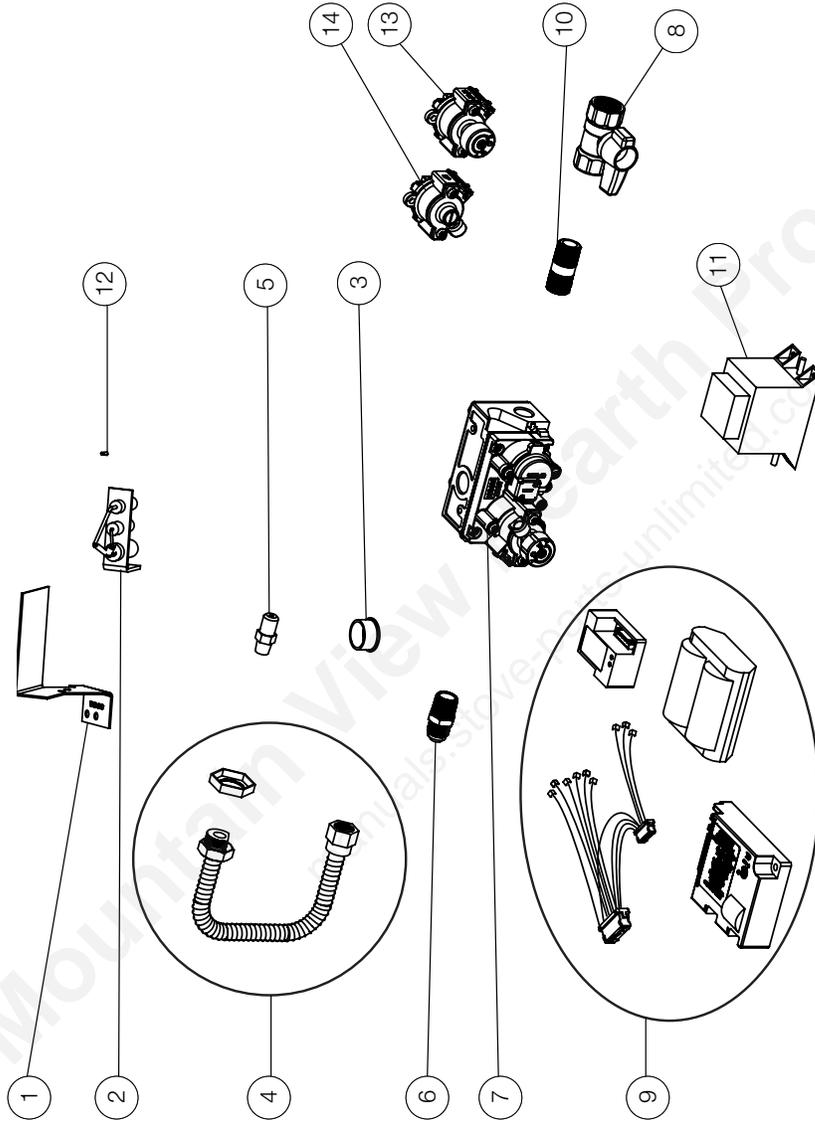
12.1 overview



Items may not appear exactly as illustrated

Ref. No.	Part Number	Description	Stocked
1	W565-0170-SER	Safety barrier service kit	Yes
2	W010-2166-SER	Door service kit	Yes
3	W018-0201-BK2GL	Porcelain baffle service kit	
4	W500-0192-SER	Brick retainer service kit	
5	W062-0077-SER1	Blower service kit	
6	W660-0019	Variable speed switch	
7	W380-0021	Valve control knob	Yes
8	W475-0528-SER	Control panel service kit	
9	W010-3687	Door latch	Yes
10	W500-0149	7" vent cover	
11	W290-0054	7" flange gasket	Yes
12	W290-0056	4" flange gasket	Yes
13	W500-0171	4" vent cover	
14	W010-4227	4" collar assembly	
15	W010-1688	7" collar assembly	
16	W500-0327	Heat shield knockout	
17	W585-0235	Light shield	Yes
18	W387-0011	High temp. light bulb	Yes
19	W500-0042	Junction box cover plate	
20	W010-0482-SER	Junction box service kit	Yes
21	B19N/PL-2	Logs and burner assembly	
22	B19N/PS-2	Rocks and burner assembly	
23	W705-0206-SER	Unit top service kit	
24	W750-0185	Night light wire harness	Yes
25	W660-0065	Thermal switch	Yes
26	W660-0009	On/off switch	Yes

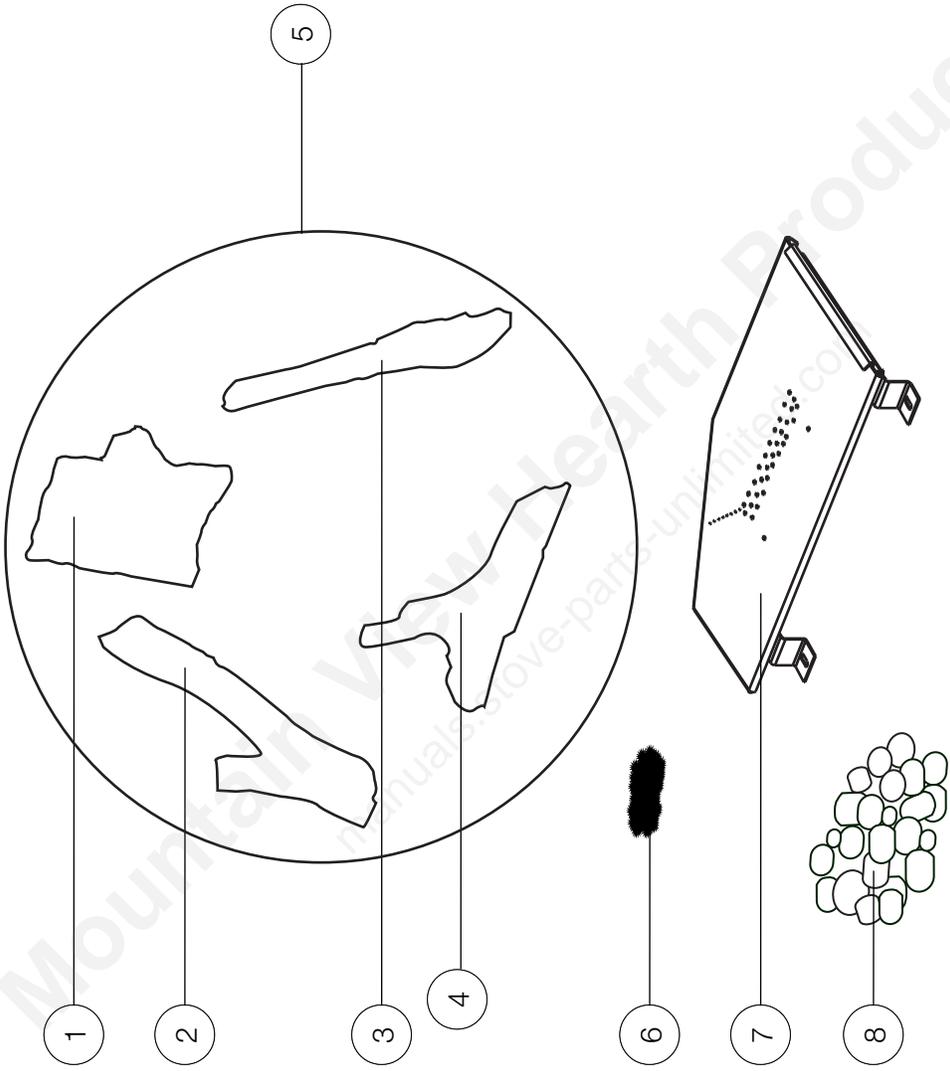
12.2 valve train assembly



Items may not appear exactly as illustrated.

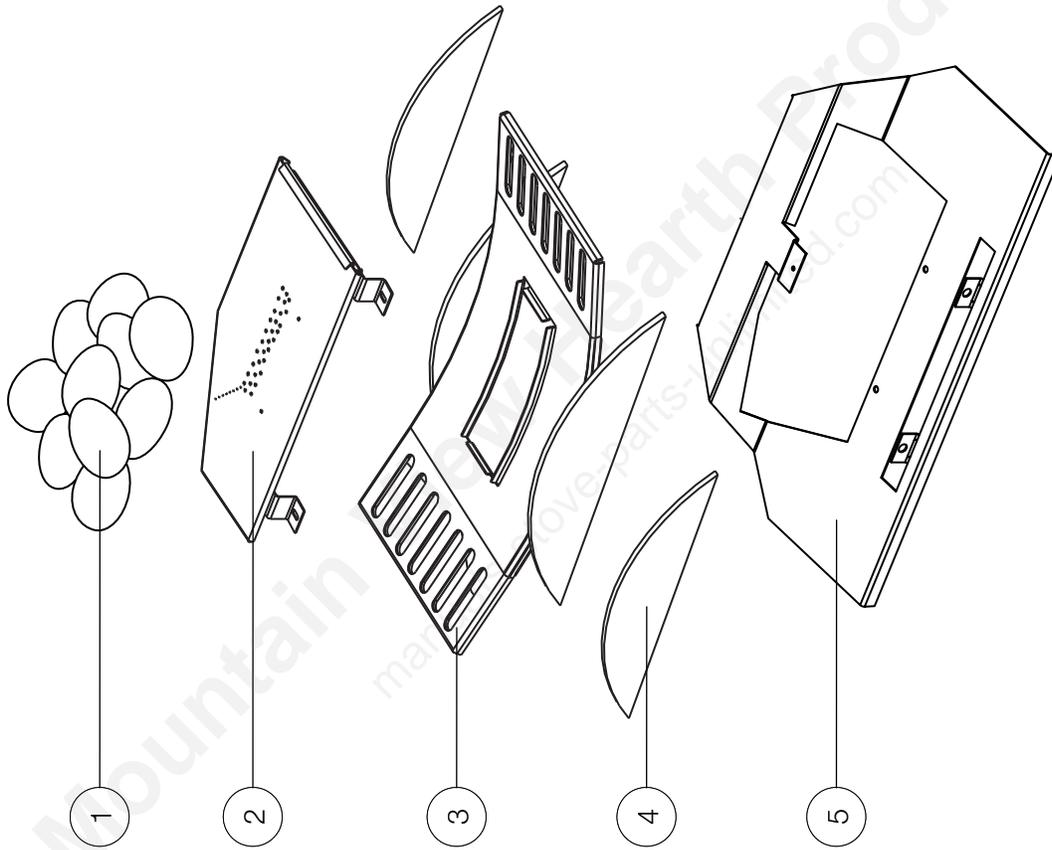
Ref. No.	Part Number	Description	Stocked
1	W080-1298	Pilot bracket	
2	W100-0069	Pilot assembly (NG)	
3	W105-0001	7/8" bushing	
4	W432-0078-SER	10" st. manifold service kit	Yes
5	W456-0052	Burner orifice #52 (NG)	Yes
5	W456-0062	Burner orifice #62 (P)	Yes
6	W445-0038	3/8" pipe connector	Yes
7	W725-0095	Valve (NG)	
Ref. No.	Part Number	Description	Stocked
8	W725-0041	Shut-off valve	Yes
9	W010-4400	Dexen EI assembly	
10	W445-0024	3/8" black nipple	
11	W707-0020	Transformer	Yes
12	W455-0071	Pilot injector (NG)	Yes
12	W455-0049	Pilot injector (P)	Yes
13	W530-0040	Valve regulator (NG)	
14	W530-0039	Valve regulator (P)	

12.3 B19N/PL-2 log burner

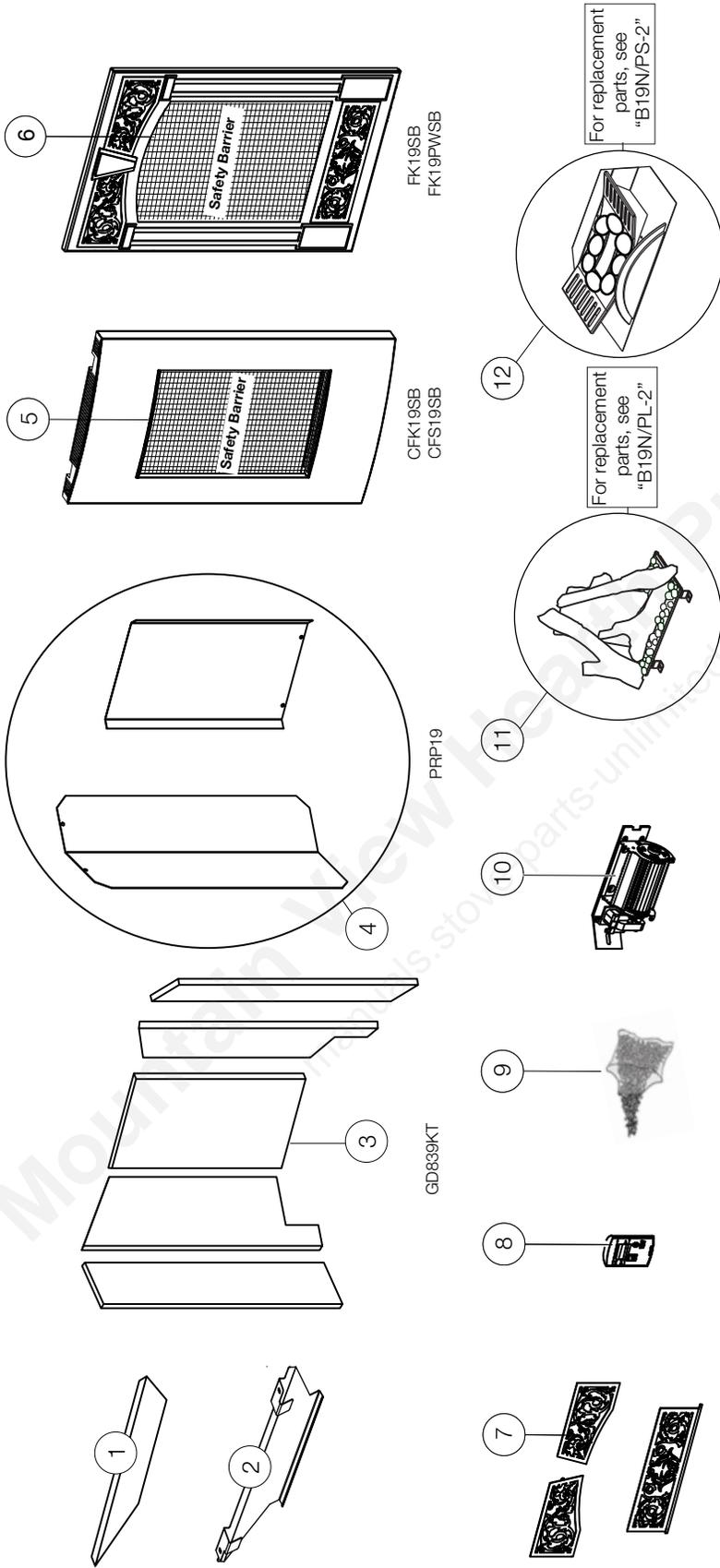


Ref. No.	Part Number	Description	Stocked
1	W135-0322	Rear log (GL-622)	Yes
2	W135-0323	Left log (GL-622)	Yes
3	W135-0324	Right log (GL-622)	Yes
4	W135-0325	Centre log (GL-622)	Yes
5	GL-622	Log set	
6	W550-0001	Charcoal embers	Yes
7	W010-1653	Pan burner assembly	Yes
8	W361-0016	Glowing embers	Yes

12.4 B19N/PS-2 stone burner



Ref. No.	Part Number	Description	Stocked
1	MRKXXS	Mineral Rock Kit	
2	W010-2493	Pan burner assembly	Yes
3	W010-2499	Rock bowl assembly	Yes
4	W010-2498	Front rock trim assembly (X2)	
5	W655-0912	Rock burner support	



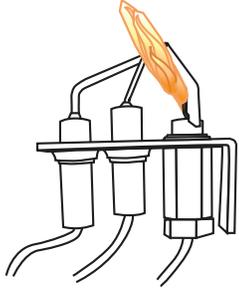
Items may not appear exactly as illustrated

Ref. No.	Part Number	Description	Stocked	Ref. No.	Part Number	Description	Stocked
1	W475-0556	Baffle panel (GD839KT)		6	FK19PWSB	Traditional hammertone pewter surround	
2	W018-0199	Brick retainer baffle		7	VOIK	Metallic black Victorian ornamental insets	
3	GD839KT	Decorative brick panels sandstone		7	VOISS	Brushed ss Victorian ornamental insets	
4	PRP19	Porcelain reflective radiant panels		8	W660-0081	Wall mounted thermostat	
5	CFK19SB	Contemporary black surround		9	W361-0239-BULK	Ambient-glow embers	
5	CFS19SB	Contemporary brushed stainless steel surround		10	GS66	Blower kit	
6	FK19SB	Traditional metallic black surround		11	B19N/PL-2	Assembly, log and burner	
				12	B19N/PS-2	Assembly, rock and burner	

# 14.0 troubleshooting

## ! WARNING

- Always light the pilot whether for the first time or if the gas supply has run out, with the glass door open or removed.
- Turn off gas and electrical power before servicing the appliance.
- Appliance may be hot. Do not service until appliance has cooled.
- Do not use abrasive cleaners

symptom	problem	test solution															
Main burner flame is a blue, lazy, transparent flame. (This is not applicable in outdoor appliances)	Blockage in vent.  Incorrect installation.	- Remove blockage. In really cold conditions, ice buildup may occur on the terminal and should be removed as required. (To minimize this from reoccurring, the vent lengths that pass through unheated spaces (attics, garages, crawl spaces) should be wrapped with an insulated mylar sleeve).  - Refer to "venting" section to ensure correct installation.															
Flames are consistently too large or too small. Carboning occurs.	Appliance is over-fired or under-fired.	- <b>Check pressure readings:</b> Inlet pressure can be checked by turning screw (A) counter-clockwise 2 or 3 turns and then placing pressure gauge tubing over the test point. Gauge should read as described on the chart below. Check that main burner is operating on 'HI'. Outlet pressure can be checked the same as above using screw (B). Gauge should read as described on the chart below. Check that main burner is operating on 'HI'. <b>After taking pressure readings, be sure to turn screws clockwise firmly to reseal. DO NOT OVER TORQUE.</b> Leak test with a soap and water solution.															
		<table border="1"> <thead> <tr> <th>Pressure</th> <th>Natural Gas (inches)</th> <th>Natural Gas (millibars)</th> <th>Propane (inches)</th> <th>Propane (millibars)</th> </tr> </thead> <tbody> <tr> <td><b>Inlet</b></td> <td>*7" (minimum 4.5")</td> <td>17.4mb (minimum 11.2mb)</td> <td>13" (minimum 11")</td> <td>32.4mb (minimum 27.4mb)</td> </tr> <tr> <td><b>Outlet</b></td> <td>3.5"</td> <td>8.7mb</td> <td>10"</td> <td>24.9mb</td> </tr> </tbody> </table> <p style="text-align: right;"><b>*Maximum inlet pressure not to exceed 13" w.c.</b></p>	Pressure	Natural Gas (inches)	Natural Gas (millibars)	Propane (inches)	Propane (millibars)	<b>Inlet</b>	*7" (minimum 4.5")	17.4mb (minimum 11.2mb)	13" (minimum 11")	32.4mb (minimum 27.4mb)	<b>Outlet</b>	3.5"	8.7mb	10"	24.9mb
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<b>Outlet</b>	3.5"	8.7mb	10"	24.9mb													
	Air shutter improperly adjusted.	- Return air shutter to specified opening, see " <b>venturi adjustments</b> " section in the installation manual.															
Carbon is being deposited on glass, logs, rocks, media, or combustion chamber surfaces.	Air shutter is blocked.  Flame is impinging on the glass, logs, rocks, media or combustion chamber.	- Ensure air shutter opening is free of lint or other obstructions.  - Ensure the media is positioned correctly in the appliance. - Open air shutter to increase the primary air. - Check the input rate: check the manifold pressure and orifice size as specified by the rating plate. - Ensure door gaskets are not broken or missing and the seal is tight. - Ensure vent liners are free of holes and well sealed at all joints. - Check that minimum rise per foot (meters) has been adhered to for any horizontal venting.															
White / grey film forms.	Sulphur from fuel is being deposited on glass, logs, or combustion chamber surfaces.	- Clean the glass with a recommended gas fireplace glass cleaner. <b>DO NOT CLEAN GLASS WHEN HOT.</b> - If deposits are not cleaned off regularly, the glass may become permanently marked.															
Exhaust fumes smelled in room, headaches.	Appliance is spilling. (This is not applicable in outdoor appliances).	- Check door seal. - Check for exhaust damage. - Check that venting is installed correctly. - Room is in negative pressure; increase fresh air supply.															

symptom	problem	test solution
Pilot will not light. Makes noise with no spark at pilot burner.	Wiring: short, loose, or damaged connections (poor flame rectification).	<ul style="list-style-type: none"> <li>- Verify the thermocouple/sensor is clean and the wiring is undamaged.</li> <li>- Verify the interrupter block is not damaged or too tight. Verify connections from pilot assembly are tight; also verify the connections are not grounding out to any metal. (Remember, the flame carries the rectification current, not the gas. If flame lifts from pilot hood, the circuit is broken. A wrong orifice or too high of an inlet pressure can cause the pilot flame to lift)*. The sensor rod may need cleaning.</li> </ul>
	No signal from remote with no pilot ignition.	<ul style="list-style-type: none"> <li>- Reprogram receiver code.</li> <li>- Replace receiver.</li> </ul>
	Poor grounding.	<ul style="list-style-type: none"> <li>- Verify the valve and pilot assembly is properly grounded</li> </ul>
	Improper switch wiring.	<ul style="list-style-type: none"> <li>- Troubleshoot the system with the simplest <b>on/off</b> switch.</li> </ul>
	Dirty, painted, or damaged pilot and/or dirty sensor rod.	<ul style="list-style-type: none"> <li>- Clean sensor rod with a green Scotch-Brite™ pad to remove any contamination that may have accumulated. Verify continuity with multimeter with ohms set at the lowest range.</li> </ul>
Pilot sparks but will not light.	Gas supply.	<ul style="list-style-type: none"> <li>- Verify that the incoming gas line ball valve is “open”.</li> <li>- Verify that the inlet pressure reading is within acceptable limits, inlet pressures must not exceed 13” W.C.</li> </ul>
	Out of propane gas.	<ul style="list-style-type: none"> <li>- Fill the tank.</li> </ul>
	Pilot supply line may contain air.	<ul style="list-style-type: none"> <li>- Repeat ignition process several times or purge the pilot supply line.</li> </ul>
	Incorrect wiring / grounding.	<ul style="list-style-type: none"> <li>- Ensure correct polarity of wiring of thermocouple (if equipped).</li> <li>- Verify pilot assembly/valve are properly grounded.</li> </ul>
	Receiver (if equipped).	<ul style="list-style-type: none"> <li>- Reset program: hold reset button on receiver and wait for 2 beeps. Release after second beep. Press small flame button on remote within 20 seconds, you will hear an additional beep (this signals a successful reset).</li> <li>- Replace receiver.</li> </ul>
	Valve.	<ul style="list-style-type: none"> <li>- Check valve and replace if necessary (Do not to overtighten thermocouple).</li> </ul>
Burner continues to spark and pilot lights but main burner does not light.	Short or loose connection in sensor rod.	<ul style="list-style-type: none"> <li>- Verify all connections. Verify the connections from the pilot assembly are tight. Also, verify these connections are not grounding out to any metal.</li> </ul>
	Dirty, painted, or damaged pilot assembly components.	<ul style="list-style-type: none"> <li>- Clean using a green Scotch-Brite™ pad to remove any contamination that may have accumulated on the sensor rod, pilot hood, ignitor, or flame sensor. Verify continuity with multimeter with ohms set at the lowest range.</li> </ul>
Remote and / or receiver is not functioning properly (if applicable).	Receiver or remote has low battery.	<ul style="list-style-type: none"> <li>- Replace batteries.</li> </ul>
	Appliance functions but does not respond to receiver / remote.	<ul style="list-style-type: none"> <li>- Ensure appliance is being operated by the same device that turned it on. Remote controls function if appliance has turned on by remote. Receiver controls function if appliance was burned on by receiver.</li> </ul>
	Error with synchronizing.	<ul style="list-style-type: none"> <li>- Reset receiver and remote.</li> </ul>
	Remote too far away from receiver.	<ul style="list-style-type: none"> <li>- Refer to “wiring diagram” section.</li> </ul>
	Wire connector pins are bent.	<ul style="list-style-type: none"> <li>- Straighten pins.</li> </ul>
	Valve wiring is damaged.	<ul style="list-style-type: none"> <li>- Replace valve harness.</li> </ul>

symptom	problem	test solution
Flames are very aggressive.	Door is ajar.	- Ensure door is secured properly.
	Venting action is too great.	- Check to ensure venting is properly sealed or restrict vent exit with restrictor plate (not available in all appliances).
Appliance won't perform any functions	No power to the system.	- Check breaker to verify it is in the "on" position. - Ensure module is wired to power correctly.
	Receiver switch in wrong position (if equipped).	- Verify that the 3-position switch on the receiver is in the remote position (middle).
	On/off switch in wrong position.	- Verify that the switch is in the "on" position.
	Transmitter isn't operational (if required).	- Check battery power and battery orientation.
Light won't function (if applicable).	Light bulb burnt out.	- Change the bulb.
	Light harness damaged.	- Replace the harness.
	Switch in wrong position.	- Ensure switch is in "on" position.
	No power to lights.	- Ensure power transformer is plugged into junction box and lights are wired correctly.
Blower won't function (if applicable).	Blower kit not wired correctly.	- Ensure blower is wired correctly (see "optional blower installation" section).
	Variable speed switch in wrong position.	- Turn switch away from "off" position.
	Thermal disc not hot enough to operate blower.	- Thermal disk must reach 32°C (90°F) before blower will operate. Ensure switch surface is tight to hot metal surface.

Napoleon products are manufactured under the strict Standard of the world recognized ISO 9001 : 2015 Quality Management System.

Napoleon products are designed with superior components and materials assembled by trained craftsmen who take great pride in their work. The burner and valve assembly are leak and test-fired at a quality test station. The complete appliance is again thoroughly inspected by a qualified technician before packaging to ensure that you, the customer, receive the quality product that you expect from Napoleon.

### Napoleon Gas Appliance President's Lifetime Limited Warranty

The following materials and workmanship in your new Napoleon gas appliance are warranted against defects for as long as you own the appliance. This covers: combustion chamber, heat exchanger, stainless / steel burner, Phazer™ logs and embers, rocks, ceramic glass (thermal breakage only), gold plated parts against tarnishing, porcelainized enameled components and aluminum extrusion trims.\*

Electrical (110V and millivolt) components and wearable parts are covered and Napoleon will provide replacement parts free of charge during the first year of the limited warranty. This covers: blowers, gas valves, thermal switches, switches, wiring, remote controls, ignitors, gaskets and pilot assemblies.\*

Labour related to warranty repair is covered free of charge during the first year (labour warranty is not applicable for the Gas Log Sets). Repair work, however, requires the prior approval of an authorized company official. Labour costs to the account of Napoleon are based on a predetermined rate schedule and any repair work must be done through an authorized Napoleon dealer.

\* Construction of models vary. Warranty applies only to components included with your specific appliance.

### Conditions and Limitations

Napoleon warrants its products against manufacturing defects to the original purchaser only. Registering your warranty is not necessary. Simply provide your proof of purchase along with the model and serial number to make a warranty claim. Napoleon reserves the right to have its representative inspect any product or part thereof prior to honouring any warranty claim. Provided that the purchase was made through an authorized Napoleon dealer your appliance is subject to the following conditions and limitations:

Warranty coverage begins on the date of original installation. This factory warranty is non-transferable and may not be extended whatsoever by any of our representatives. The gas appliance must be installed by a licensed, authorized service technician or contractor qualified and authorized installer, service agency or supplier. Installation must be done in accordance with the installation instructions included with the product and all local and national building and fire codes. This limited warranty does not cover damages caused by misuse, lack of maintenance, accident, alterations, abuse or neglect, and parts installed from other manufacturers will nullify this warranty. This limited warranty further does not cover any scratches, dents, corrosion or discoloring caused by excessive heat, abrasive and chemical cleaners nor chipping on porcelain enamel parts, mechanical breakage of Phazer™ logs and embers. This warranty extends to the repair or replacement of warranted parts which are defective in material or workmanship provided that the product has been operated in accordance with the operation instructions and under normal conditions. After the first year, with respect to this President's Lifetime Limited Warranty, Napoleon may, at its discretion, fully discharge all obligations with respect to this warranty by refunding to the original warranted purchaser the wholesale price of any warranted but defective part(s).

After the first year, Napoleon will not be responsible for installation, labour, or any other expenses related to the reinstallation of a warranted part and such expenses are not covered by this warranty. Notwithstanding any provisions contained in the President's Lifetime Limited Warranty, Napoleon's responsibility under this warranty is defined as above and it shall not in any event extend to any incidental, consequential or indirect damages. This warranty defines the obligations and liability of Napoleon with respect to the Napoleon gas appliance and any other warranties expressed or implied with respect to this product, its components or accessories are excluded. Napoleon neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this product. Napoleon will not be responsible for: over-firing, downdrafts, spillage caused by environmental conditions such as rooftops, buildings, nearby trees, hills, mountains, inadequate vents or ventilation, excessive venting configurations, insufficient makeup air, or negative air pressures which may or may not be caused by mechanical systems such as exhaust fans, furnaces, clothes dryers, etc. Any damages to the appliance, combustion chamber, heat exchanger, plated trim or other components due to water, weather damage, long periods of dampness, condensation, damaging chemicals or cleaners will not be the responsibility of Napoleon.

During the first 10 years Napoleon will replace or repair the defective parts covered by the lifetime warranty at our discretion free of charge. From 10 years to life, Napoleon will provide replacement parts at 50% of the current retail price. The manufacturer may require that defective parts or products be returned or that digital pictures be provided to support the claim. Returned products are to be shipped prepaid to the manufacturer for investigation. If a product is found to be defective, the manufacturer will repair or replace such defect. Before shipping your appliance or defective components, your dealer must obtain an authorization number. Any merchandise shipped without authorization will be refused and returned to sender. Shipping costs are not covered under this warranty. Additional service fees may apply if you are seeking warranty service from a dealer. Warranty labour allowance is only for the replacement of the warranted part. Travel, diagnostic tests, shipping and other related charges are not covered by this warranty.

All specifications and designed are subject to change without prior notice due to on-going product improvements. Napoleon is a registered trademark of Wolf Steel Ltd.

# NAPOLEON CELEBRATING OVER 40 YEARS OF HOME COMFORT PRODUCTS



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