

INSTALLATION AND OPERATING INSTRUCTIONS

CONFORMS TO AMERICAN NATIONAL STANDARDS: ANSI Z21.50, CERTIFIED TO CANADIAN CSA 2.22 FOR VENTED GAS FIREPLACES.

CERTIFIED FOR CANADA AND UNITED STATES USING ANSI/CSA METHODS.

SAFETY INFORMATION

AWARNING

If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- 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.

Decorative Product: Not for use as a heating appliance.

APPLY SERIAL NUMBER LABEL FROM CARTON Serial No. XXXXXX00000 MODEL NO.







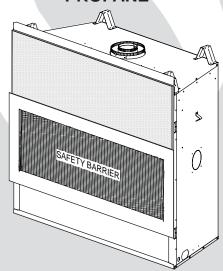




LHD45N NATURAL GAS

LHD45P

PROPANE



WARNING

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 the appliance and shall be installed.

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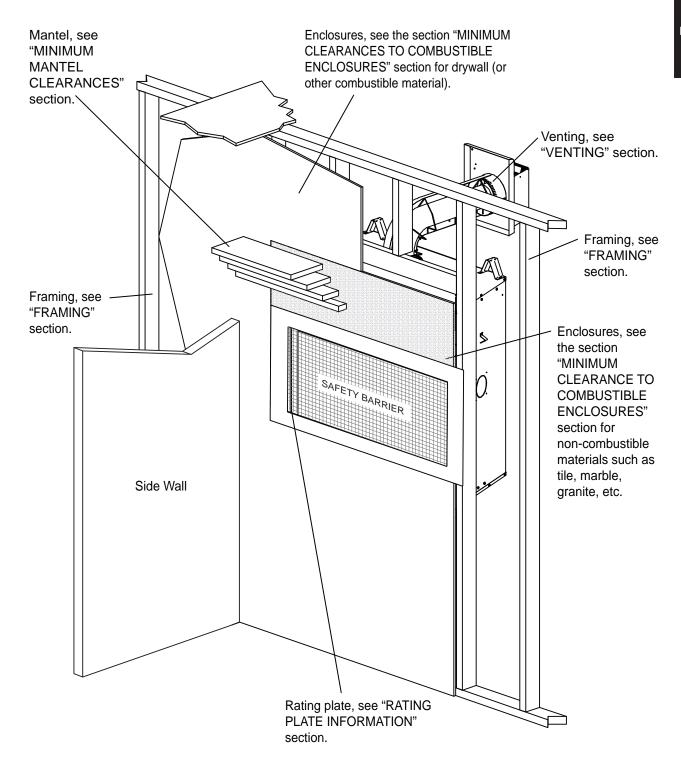


NOTE: The camera icon indicates video tutorials are available as additional reference, visit http://www.napoleonfireplaces.com/category/product-support/support-centre/

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NOTE: Changes, other than editorial, are denoted by a vertical line in the margin.

1.0 INSTALLATION OVERVIEW





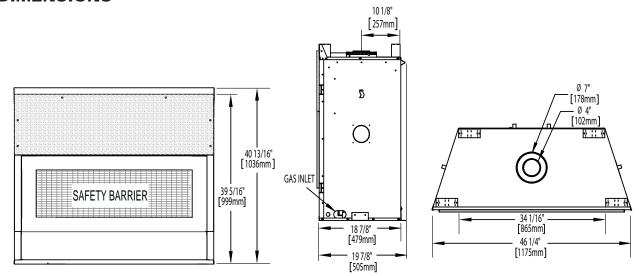
Batteries must be disposed of according to the local laws and regulations. Some batteries may be recycled, and may be accepted for disposal at your local recycling center. Check with your municipality for recycling instructions.

2.0 INTRODUCTION

AWARNING

- 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.
- Risk of fire or asphyxiation do not operate appliance with fixed glass removed.
- Do not connect 110 volts to the control valve.
- 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 and safety glasses during installation. Sheet metal edges may be sharp.
- Do not burn wood or other materials in this appliance.
- Children and adults should be alerted to the 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, 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.
- Ensure you have incorporated adequate safety measure to protect infants/toddlers from touching hot surfaces.
- Even after the appliance is out, the glass and/or screen 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 quards 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.
- · The appliance is a vented gas-fired appliance. Do not burn wood or other materials in 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.
- Under no circumstances should this appliance be modified.
- 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.
- Do not strike or slam shut the appliance glass door.
- 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.
- 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.
- 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.
- 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 of decorations, a T.V. or other electronic components.
- A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.
- 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. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

2.1 DIMENSIONS



2.2 GENERAL INSTRUCTIONS

▲ 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" (1219mm) FROM THE FRONT FACE OF THE APPLIANCE.

SURFACES AROUND AND ESPECIALLY ABOVE THE APPLIANCE CAN BECOME HOT. AVOID CONTACT WHEN THE APPLIANCE IS OPERATING.

FIRE RISK. EXPLOSION HAZARD.

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 (35 mb).

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 SHOULD 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 Massachusetts State:

- 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 (914mm).
- 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.

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



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

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.

Some appliances have optional fans or blowers. If an optional fan or blower is installed, the junction box must be electrically connected and grounded in accordance with local codes, use the current CSA C22.1 Canadian Electrical Code in Canada or the ANSI/NFPA 70 National Electrical code in the United States.

2.3 GENERAL INFORMATION

FOR YOUR SATISFACTION, THIS APPLIANCE HAS BEEN TEST-FIRED TO ASSURE ITS OPERATION AND QUALITY!

RATES AND EFFICIENCIES					
	NG	LP			
Altitude (FT)	0-4,500	0-4500			
Max. Input (BTU/HR)	24,000	24,000			
Max. Output Steady State (BTU/HR)	17,280	17,280			
Efficiency (w/the fan on)	72%	72%			
Min. Inlet Gas Supply Pressure	4.5" WC (11mb)	11" WC (27mb)			
Max. Inlet Gas Supply Pressure	7" WC (17mb)	13" WC (32mb)			
Manifold Pressure (Under Flow Conditions)	3.5" WC (9mb)	10" WC (25mb)			

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).

This appliance is approved for bathroom, bedroom and bed-sitting room installations and is certified for mobile home installation.

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.

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

<u>NOTE:</u> 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.

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

2.4 RATING PLATE INFORMATION



<u>INSTALLER:</u> It is your responsibility to check off the appropriate box on the rating plate according to the model, venting and gas type of the appliance.

For rating plate location, see "INSTALLATION OVERVIEW" section.

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.

3.0 VENTING

AWARNING

RISK OF FIRE, MAINTAIN SPECIFIED AIR SPACE CLEARANCES TO VENT PIPE AND APPLIANCE.

IF VENTING IS INCLUDED WITH SPACERS THE VENT SYSTEM MUST BE SUPPORTED EVERY 3FT (0.9m) FOR BOTH VERTICAL AND HORIZONTAL RUNS. USE SUPPORTS OR EQUIVALENT NON-COMBUSTIBLE STRAPPING TO MAINTAIN THE REQUIRED CLEARANCE FROM COMBUSTIBLES. USE WOLF STEEL LTD. SUPPORT RING ASSEMBLY W010-0370 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 SPACERS 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 instruction 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. NOTE: If for any reason the vent air intake system is disassembled; reinstall per the instructions

provided for the initial installation.

3.1 VENTING LENGTHS AND COMPONENTS FOR DIRECT VENT INSTALLATIONS

NOTE: There MUST be a 25% reduction in total horizontal length (H₋) when using flex vent.

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, and air terminal locations for either system are set out in this manual 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.

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

PART	4"/7"	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
SuperSeal	4DNA	Metal-Fab	www.mtlfab.com

For Simpson Dura-Vent, Selkirk Direct Temp, American Metal Amerivent and Metal-Fab follow the installation procedure found on the website for your venting supplier.

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 **GD222**, **GD222R**, or 1/12 to 7/12 pitch roof terminal kit **GD110**, 8/12 to 12/12 roof terminal kit **GD111**, flat roof terminal kit **GD112** or periscope kit **GD201** (for wall penetration below grade). With flexible venting, in conjunction with the various terminations, use either the 5 foot (1.5m) vent kit **GD220** or the 10 foot (3.1m) vent kit **GD330**.

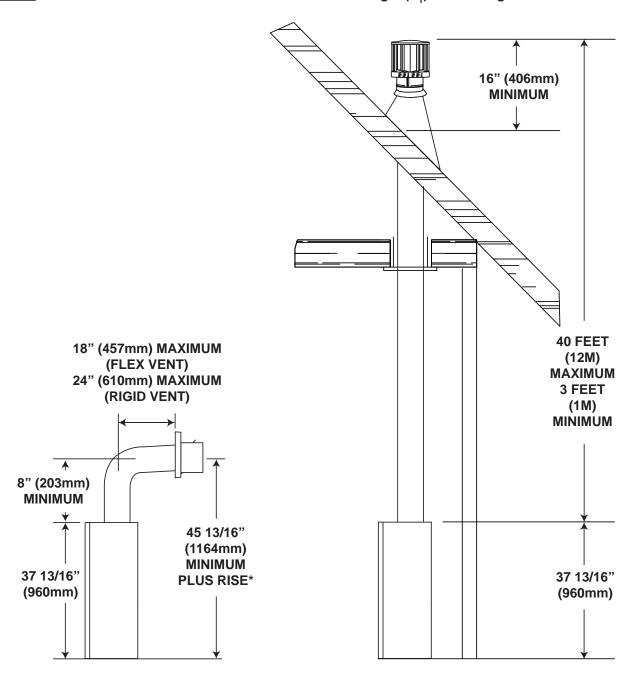
For optimum flame appearance and appliance performance, keep the vent length and number of elbows to a minimum. The air terminal must remain unobstructed at all times. Examine the air terminal at least once a year to verify that it is unobstructed and undamaged.

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.

3.2 TYPICAL VENT INSTALLATIONS

NOTE: There MUST be a 25% reduction in total horizontal length (H_T) when using flex vent.



^{*} See "VENTING" section.

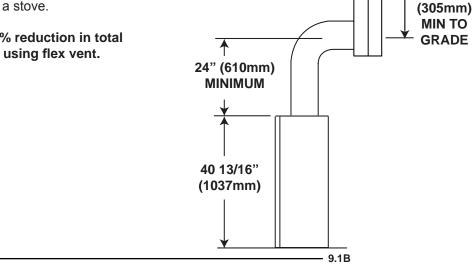
12"

3.3 SPECIAL VENT INSTALLATIONS

3.3.1 PERISCOPE TERMINATION

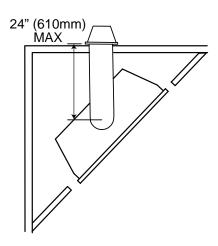
Use the periscope kit to locate the air termination above grade. The periscope must be installed so that when final grading is completed, the bottom air slot is located a minimum 12" (305m) above grade. The maximum allowable vent length is 10' (3m) for a fireplace and 8' (2m) for a stove.

NOTE: There MUST be a 25% reduction in total horizontal length (H_T) when using flex vent.

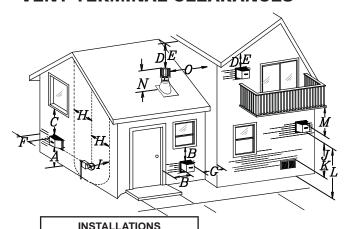


3.3.2 CORNER TERMINATION

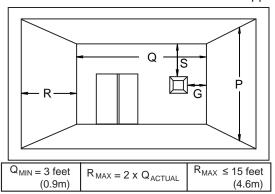
The maximum vent length for a corner installation is 24" (609.6mm) of horizontal run with a minimum 8" (203.2mm) rise.



3.4 VENT TERMINAL CLEARANCES



COVERED BALCONY APPLICATIONS ††*

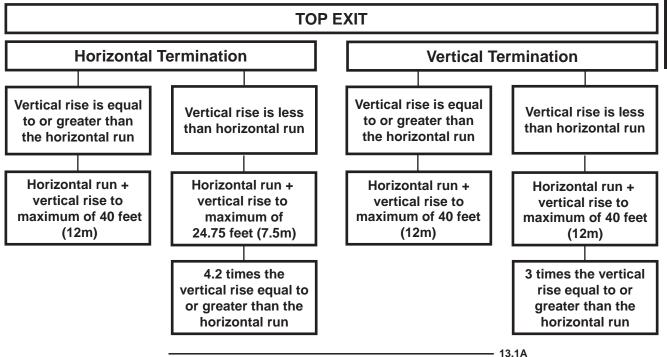


	INSTALLATIONS			
	CANADA	U.S.A.		
Α	12" (305mm)	12" (305mm)	Clearance above grade, veranda porch, deck or balcony.	
В	12" (305mm) [∆]	9" (229mm)∆	Clearance to windows or doors that open.	
С	12" (305mm)*	12" (305mm) *	Clearance to permanently closed windows.	
D	18" (457mm)**	18" (457mm)**	Vertical clearance to ventilated soffits located above the terminal within a horizontal distance of 2' (0.6m) from the center line of the terminal.	
Е	12" (305mm)**	12" (305mm)**	Clearance to unventilated soffit.	
F	0" (0mm)	0" (0mm)	Clearance to an outside corner wall.	
G	0" (0mm)***	0" (0mm)***	Clearance to an inside non -combustible corner wall or protruding non -combustible obstructions (chimney, etc.).	
	2" (51mm)***	2" (51mm)***	Clearance to an inside combustible corner wall or protruding combustible obstructions (vent chase, etc.).	
н	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).	
I	3' (0.9m)	3' (0.9m)****	Clearance to a service regulator vent outlet.	
J	12" (305mm)	9" (229mm)	Clearance to a non-mechanical air supply inlet to the building or a combustion air inlet to any other appliance.	
K	6' (1.8m)	3' (0.9m) †	Clearance to a mechanical air supply inlet.	
L	7' (2.1m) ‡	7' (2.1m) ****	Clearance above a paved sidewalk or paved driveway located on public property.	
М	12" (305mm)††	12" (305mm)****	Clearance under a veranda, porch or deck.	
N	16" (406mm)	16" (406mm)	Clearance above the roof.	
0	2' (0.6m)†*	2' (0.6m) †*	Clearance from an adjacent wall including neighbouring buildings.	
Р	8' (2.4m)	8'(2.4m)	Roof must be non -combustible without openings.	
Q	3' (0.9m)	3' (0.9m)	See chart for wider wall dimensions.	
R	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.	
S	12" (305mm)	12" (305mm)	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.
- $\dagger \dagger^{\star}$ Permitted only if the balcony is fully open on a minimum of one side.

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

3.5 VENT APPLICATION FLOW CHART



3.6 DEFINITIONS

For the following symbols used in the venting calculations and examples are:

- > greater than
- > equal to or greater than
- < less than
- ≤ equal to or less than
- H_{T} total of both horizontal vent lengths (Hr) and offsets (Ho) in feet
- H_R combined horizontal vent lengths in feet
- H_o offset factor: .03 (total degrees of offset 90°*) in feet
- V_{τ} combined vertical vent lengths in feet

_______1

3.7 ELBOW VENT LENGTH VALUES

	<u>FEET</u>	INCHES	MILLIMETERS
1°	0.03	0.5	12.7
15°	0.45	6.0	152.4
30°	0.9	11.0	279.4
45°	1.35	16.0	406.4
90°*	2.7	32.0	812.8

^{*} The first 90° offset has a zero value and is shown in the formula as - 90°

______ 15.1.

<u>NOTE:</u> There MUST be a 25% reduction in total horizontal length (H_{τ}) when using flex vent.

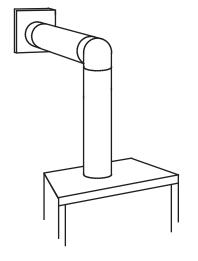
3.8 HORIZONTAL TERMINATION

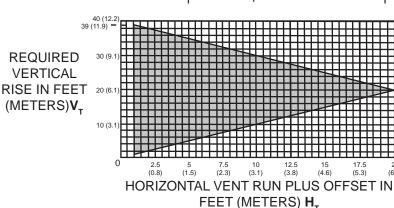
NOTE: There MUST be a 25% reduction in total horizontal length (H_T) when using flex vent.

 $(H_T) \leq (V_T)$

Simple venting configuration (only one 90° elbow)

See graph to determine the required vertical rise V_{τ} for the required horizontal run H_{τ}





The shaded area within the lines represents acceptable values for $\mathbf{H}_{\!\scriptscriptstyle T}$ and $\mathbf{V}_{\!\scriptscriptstyle T}$

For vent configurations requiring more than one 90° elbow, the following formulas apply:

Formula 1: $H_{\tau} \leq V_{\tau}$

Formula 2: $H_T + V_T \le 40$ feet (12.2m)

Example:

 $V_1 = 3 FT (0.9m)$

 $V_2 = 8 FT (2.4m)$

 $V_T = V_1 + V_2 = 3 FT (0.9m) + 8 FT (2.4m) = 11 FT (3.4m)$

 $H_1 = 2.5 \text{ FT } (0.8 \text{m})$

 $H_2 = 2 FT (0.6m)$

 $H_R = H_1 + H_2 = 2.5 \text{ FT } (0.8\text{m}) + 2 \text{ FT } (0.6\text{m}) = 4.5 \text{ FT } (1.4\text{m})$

 $\mathbf{H}_{o} = .03 \text{ (three } 90^{\circ} \text{ elbows - } 90^{\circ}) = .03 (270^{\circ} - 90^{\circ}) = 5.4 \text{ FT (1.7m)}$

 $H_T = H_R + H_O = 4.5 \text{ FT (1.4m)} + 5.4 \text{ FT (1.6m)} = 9.9 \text{ FT (3m)}$

 $H_{T} + V_{T} = 9.9 \text{ FT (3m)} + 11 \text{ FT (3.4m)} = 20.9 \text{ FT (6.4m)}$

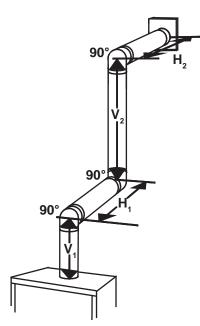
Formula 1: $H_{\tau} \leq V_{\tau}$

 $9.9 \text{ FT } (3\text{m}) \leq 11 \text{ FT } (3.4\text{m})$

Formula 2: $H_{\tau} + V_{\tau} \leq 40 \text{ FT (12.2m)}$

 $20.9 \text{ FT } (6.4\text{m}) \le 40 \text{ FT } (12.2\text{m})$

Since both formulas are met, this vent configuration is acceptable.



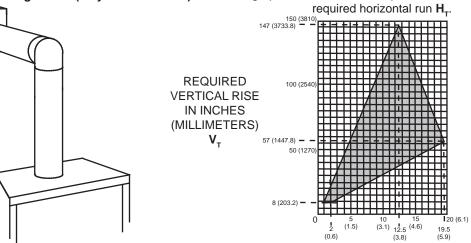
- 16.1B

NOTE: There MUST be a 25% reduction in total horizontal length (H₋) when using flex vent.

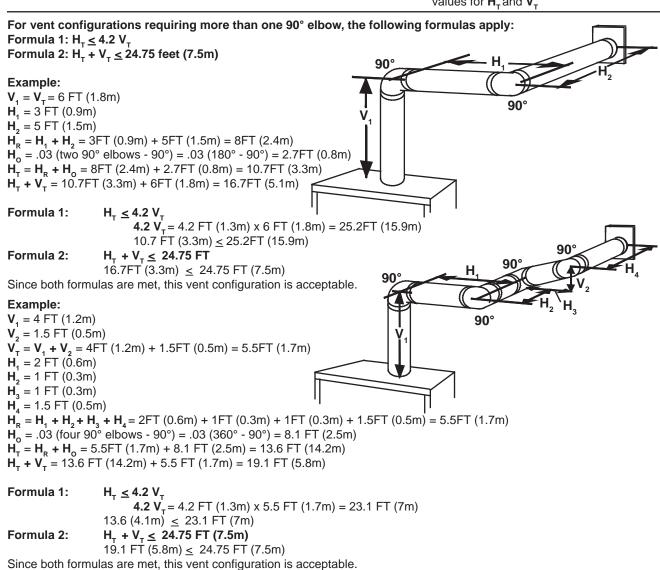
$(H_T) > (V_T)$

Simple venting configuration (only one 90° elbow)

See graph to determine the required vertical rise V_T for the



HORIZONTAL VENT RUN PLUS OFFSET IN FEET (METERS) \mathbf{H}_{τ} The shaded area within the lines represents acceptable values for \mathbf{H}_{τ} and \mathbf{V}_{τ}



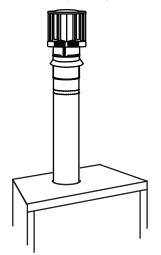
16.8 A

3.9 VERTICAL TERMINATION

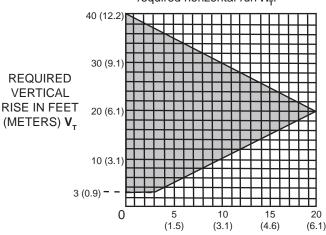
NOTE: There MUST be a 25% reduction in total horizontal length (H_T) when using flex vent.

$(H_T) \leq (V_T)$

Simple venting configurations.



See graph to determine the required vertical rise \mathbf{V}_{T} for the required horizontal run \mathbf{H}_{T} .



HORIZONTAL VENT RUN PLUS OFFSET IN FEET (METERS) $\mathbf{H}_{\!\scriptscriptstyle T}$ The shaded area within the lines represents acceptable values for $\mathbf{H}_{\!\scriptscriptstyle T}$ and $\mathbf{V}_{\!\scriptscriptstyle T}$

For vent configurations requiring one or more 90° elbows the following formulas apply:

Formula 1: $H_{\tau} \leq V_{\tau}$

Formula 2: $H_T + V_T \le 40$ feet (12.2m)

Example:

 $V_1 = 5 \text{ FT } (1.5 \text{m})$

 $V_2 = 6 \text{ FT (1.8m)}$

 $V_3^2 = 10 \text{ FT } (3.1 \text{ m})$

 $V_T = V_1 + V_2 + V_3 = 5FT (1.5m) + 6FT (1.8m) + 10FT (3.1m) = 21FT (6.4m)$

 $H_1 = 8 \text{ FT } (2.4 \text{m})$

 $H_2 = 2.5 \text{ FT } (0.8 \text{m})$

 $\mathbf{H}_{R}^{-} = \mathbf{H}_{1} + \mathbf{H}_{2} = 8FT (2.4m) + 2.5FT (0.8m) = 10.5 FT (3.2m)$

 $H_o = .03$ (four 90° elbows - 90°)

 $= .03 (360^{\circ} - 90^{\circ}) = 8.1 \text{ FT } (2.5\text{m})$

 $\mathbf{H}_{T} = \mathbf{H}_{R} + \mathbf{H}_{O} = 10.5FT (3.2m) + 8.1FT (2.5m) = 18.6FT (5.7m)$

 $\mathbf{H}_{T} + \mathbf{V}_{T} = 18.6FT (5.7m) + 21FT (6.4m) = 39.6FT (12.1m)$

Formula 1: $H_T \leq V_T$

 $18.6FT(5.7m) \le 21FT(6.4m)$

Formula 2: $H_{T} + V_{T} \le 40 \text{ FT (12.19m)}$

 $39.6FT (12.1m) \le 40FT (12.2m)$

Since both formulas are met, this vent configuration is acceptable.

90° V₃ 90° V₃ 90°

18.1A

NOTE: There MUST be a 25% reduction in total horizontal length (H₊) when using flex vent.

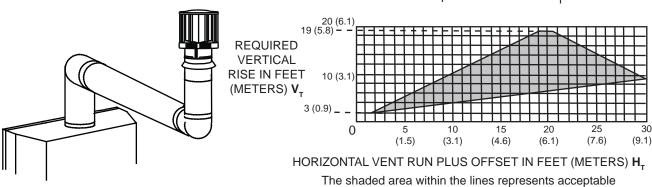
$(H_{-}) > (V_{-})$

Simple venting configurations.

values for H_T and V_T

90

90°



For vent configurations requiring more than two 90° elbows the following formulas apply:

Formula 1: $H_T \le 3V_T$

Formula 2: $H_T + V_T \le 40$ feet (12.2m)

Example:

 $V_1 = 2 \text{ FT } (0.6\text{m})$ $V_2 = 1 \text{ FT } (0.3\text{m})$ $V_3 = 1.5 \text{ FT } (0.5\text{m})$ $V_T = V_1 + V_2 + V_3 = 2\text{FT } (0.6\text{m}) + 1\text{FT } (0.3\text{m}) + 1.5\text{FT } (0.5\text{m}) = 4.5\text{FT } (1.4\text{m})$ $H_1 = 6 \text{ FT } (1.8\text{m})$ $H_2 = 2 \text{ FT } (0.6\text{m})$ $H_R = H_1 + H_2 = 6\text{FT } (1.8\text{m}) + 2\text{FT } (0.6\text{m}) = 8 \text{ FT } (2.4\text{m})$ $H_0 = .03 \text{ (four } 90^\circ \text{ elbows } - 90^\circ)$

= .03 (360° - 90°) = 8.1 FT (2.5m) $\mathbf{H}_{\mathsf{T}} = \mathbf{H}_{\mathsf{R}} + \mathbf{H}_{\mathsf{O}} = 8\mathsf{FT} (2.4\mathsf{m}) + 8.1\mathsf{FT} (2.5\mathsf{m}) = 16.1\mathsf{FT} (4.9\mathsf{m})$

 $\mathbf{H}_{\mathsf{T}} = \mathbf{H}_{\mathsf{R}} + \mathbf{H}_{\mathsf{O}} = 6 \, \mathsf{FT} \, (2.411) + 8.1 \, \mathsf{FT} \, (2.311) = 16.1 \, \mathsf{FT} \, (4.911) + 16.1 \,$

Formula 1: $H_{\tau} \leq 3V_{\tau}$

 $3\dot{V}_{T} = 3FT (0.9m) \times 4.5FT (1.4m) = 13.5FT (4.1m)$

16.1FT (4.9m) > 13.5FT (4.1m)

Since this formula is not met, this vent configuration is <u>un</u>acceptable.

Formula 2: $H_{\tau} + V_{\tau} \le 40$ feet (12.2m) 20.6FT (6.3m) ≤ 40 (12.2m)

Since only formula 2 is met, this vent configuration is unacceptable and a new appliance location or vent configuration will need to be established to satisfy both formulas.

NOTE: All vent parameters are stated for rigid venting. If using approved Wolf Steel Ltd. flexible venting then maximum horizontal requirements are reduced by 25%.

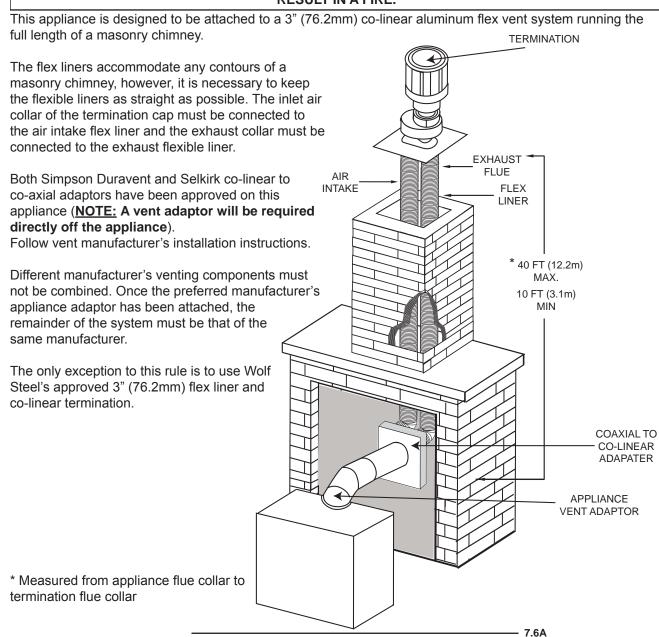
90°

3.10 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.

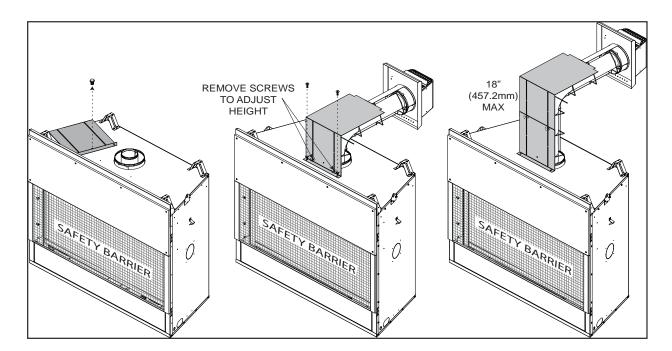


3.11 VENT HEAT SHIELD INSTALLATION

For shipping purposes, the heat shield has been attached on top of the appliance.

If venting with a 90 degree elbow directly off of the top of the appliance, the elbow heat shield must be repositioned and secured with the two screws (supplied) as illustrated.

The heat shield can be adjusted up to a maximum of 18" (457mm). Remove the two screws as illustrated to adjust the shield. If the elbow height exceeds this height, the use of the shield is no longer required.



4.0 INSTALLATION

▲ WARNING

ENSURE TO UNPACK ALL LOOSE MATERIALS FROM INSIDE THE FIREBOX PRIOR TO HOOKING UP THE GAS AND ELECTRICAL SUPPLY.

IF YOUR APPLIANCE IS SUPPLIED WITH A REMOTE ENSURE THE REMOTE RECEIVER IS IN THE "OFF" POSITION PRIOR TO HOOKING UP THE GAS AND ELECTRICAL SUPPLY TO THE APPLIANCE.

FOR SAFE AND PROPER OPERATION OF THE APPLIANCE, FOLLOW THE VENTING INSTRUCTIONS EXACTLY.

ALL INNER EXHAUST AND OUTER INTAKE VENT PIPE JOINTS MAY BE SEALED USING EITHER RED RTV HIGH TEMP SILICONE SEALANT W573-0002 (NOT SUPPLIED) OR BLACK HIGH TEMP MILL PAC W573-0007 (NOT SUPPLIED) WITH THE EXCEPTION OF THE APPLIANCE EXHAUST FLUE COLLAR WHICH MUST BE SEALED USING MILL PAC.

IF USING PIPE CLAMPS TO CONNECT VENT COMPONENTS, 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.

68.2B

4.1 WALL AND CEILING PROTECTION

AWARNING

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.

70.1

For optimum performance it is recommended that all horizontal runs have a minimum of 1/4" (6.4mm) rise per 1ft (0.3m). For safe and proper operation of the appliance, follow the venting instructions exactly.

4.1.1 HORIZONTAL INSTALLATION

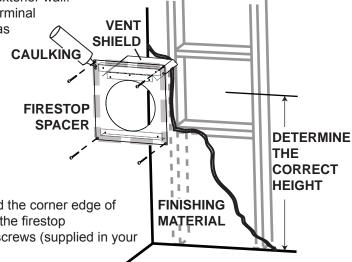
AWARNING

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.



20.2A

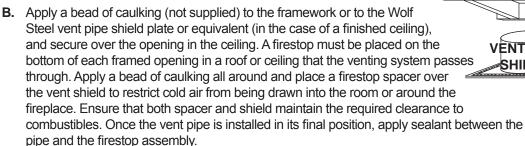
A. Apply a bead of caulking (not supplied) around the corner edge of the inside surface of the firestop assembly, fit the firestop assembly to the hole and secure using the 4 screws (supplied in your manual baggie).

B. Once the vent pipe is installed in its final position, apply high temperature sealant W573-0007 (not supplied) between the pipe and the firestop.

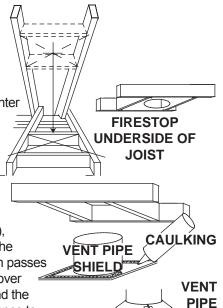
4.1.2 VERTICAL INSTALLATION

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

A. 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.



C. 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.



COLLAR

VENT PIPE SHIELD

4.2 USING RIGID VENT COMPONENTS

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 exhaust and outer intake vent pipe joints may be sealed using either red high temperature silicone sealant W573-0002 (not supplied) or black high temperature sealant W573-0007 Mill Pac (not supplied) with the exception of the appliance exhaust flue collar which must be sealed using Mill Pac.

#10x2"

SCREWS

CAULKING

OUTER

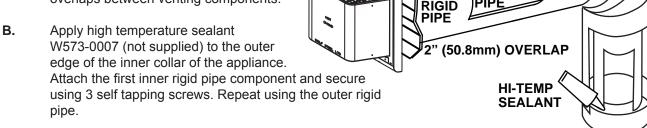
25.1A

INNER

4.3 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 1¼" (31.8mm) overlaps between venting components.

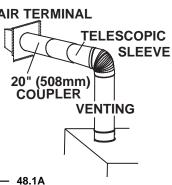


C. Insert the vent pipes through the firestop maintaining the required clearance to combustibles. Holding the air terminal (lettering in an upright, readable position), secure to the exterior wall and make weather tight by sealing with caulking (not supplied).

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

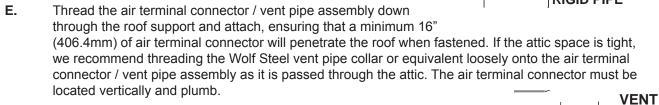
4.4 EXTENDED HORIZONTAL AND CORNER TERMINAL INSTALLATION

- A. Follow the instructions for "HORIZONTAL AIR TERMINAL INSTALLATIONS" section. AIR TERMINAL
- 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.

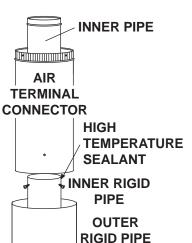


4.5 VERTICAL AIR TERMINAL INSTALLATION

- **A.** Move the appliance into position.
- **B.** 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.
- **C.** 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" (50.8mm)over the sleeve and secure using 3 screws.
- D. 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.



- F. 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.
- G. Apply a heavy bead of waterproof caulking 2" (50.8mm) 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.
- **H.** 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.
- I. Run a bead of high temperature sealant W573-0007 (not supplied) around the outside of the inner collar on the appliance. Pull the telescopic sleeve a minimum of 2" (50.8mm) onto the collar. Secure with 3 screws. Repeat with the outer telescopic sleeve.
- J. 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" (25.4mm) air space around the pipe.



PIPE

COLLAR

VENT

PIPE

SHIELD

4.6 USING FLEXIBLE VENTING

NOTE: All vent parameters are stated for rigid venting. If using approved Wolf Steel Ltd. flexible venting then total horizontal lengths (H₊) are reduced by 25%.

4.7 MOBILE HOME INSTALLATION

This appliance is also certified to be installed as an OEM (Original Equipment Manufacturer) installation in a manufactured home (U.S. only) or mobile home and must be installed in accordance with the manufacturer's instructions and the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, in the United States or the 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 unit. Built in appliances are equipped with 1/4" (6.4mm) diameter holes located in the front left and right corners of the base. Use #10 hex head screws, 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.

A conversion kit is supplied with the mobile home appliance.

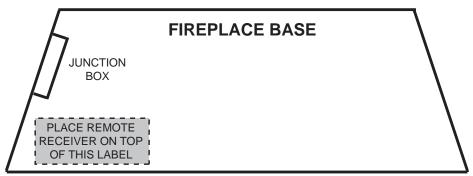
Conversion Kits

This appliance is field convertible between Natural Gas (NG) and Propane (LP).

To convert from one gas to another consult your Authorized dealer/distributor.

- 29.1A

4.8 REMOTE RECEIVER PLACEMENT



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

- 35.25

4.9 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. ASSURE THAT A CONTINUOUS GAS FLOW IS AT THE BURNER BEFORE CLOSING THE DOOR. ENSURE ADEQUATE VENTILATION. FOR GAS AND ELECTRICAL LOCATIONS, SEE "DIMENSION" SECTION.

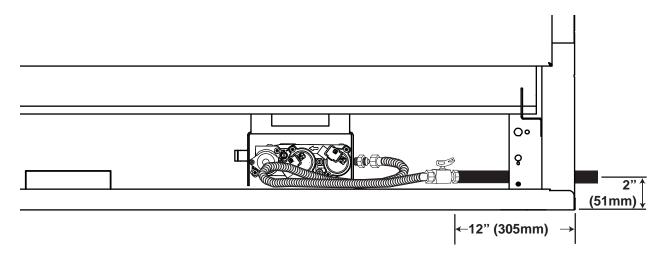
ALL GAS CONNECTIONS MUST BE CONTAINED WITHIN THE APPLIANCE WHEN COMPLETE.

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. **Do not use open flame.**

- 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.
- Check for gas leaks by brushing on a soap and water solution.



<u>NOTE:</u> Connect the gas supply to the 1/2" (12.7mm) shut off and flex connector (supplied). Ensure gas supply is secured and that there is sufficient movement of the connector to permit lifting the burner base assembly for component servicing.

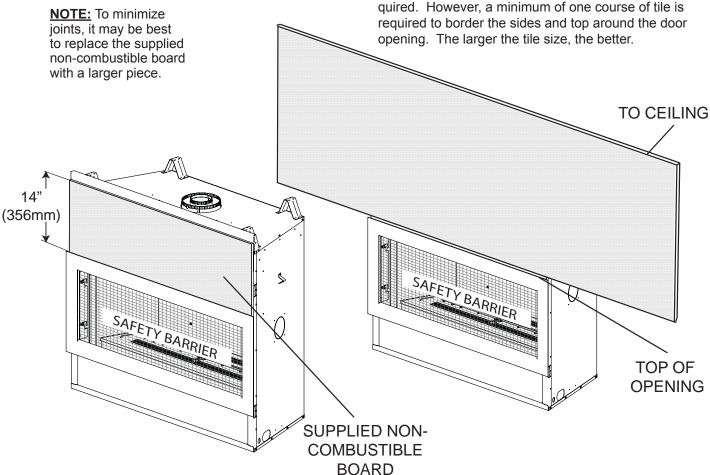
4.10 INSTALLING NON-COMBUSTIBLE BOARD

WARNING

A NON-COMBUSTIBLE FINISHING MATERIAL BORDER, SUCH AS BRICK, MARBLE, GRANITE, ETC. IS REQUIRED. FINISHING WITH JUST NON-COMBUSTIBLE BOARD TO THE SIDES AND TOP OF THE APPLIANCE IS NOT ALLOWED.

THE SURFACE ABOVE THE APPLIANCE GETS VERY HOT. IF PROPER FINISHING MATERIALS ARE NOT USED, CRACKING CAN OCCUR.

The 14" (355.8mm) above the appliance opening must not be finished with any combustible materials. It is not required to cover the entire surface with a non-combustible decorative finishing material if using a full sheet of non-combustible board where reguired. However, a minimum of one course of tile is



Joint Compound where required

Joint compounds such as Durabond 90 and tapes that are resilient to heat and cracking should be used when taping and mudding seams.

Setting tiles and grouting

If using tiles, we recommend you use tiles with a dry butt joint to be installed using a two-part mortar with an acrylic latex additive, such as Mapei Kerabond/Kerlastic, to allow for slight movement in the normal operation of the appliance.

If grout is used between the tiles, a polymer-based grout, such as Mapei Ultracolour plus, is recommended.

Primer/Paint

For a painted surface, use a 100% acrylic latex primer and finish coat. Light coloured paints may discolour.

5.0 FRAMING

AWARNING

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" (IE: 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 E 136, STANDARD TEST METHOD FOR BEHAVIOUR OF MATERIALS IN A VERTICAL TUBE FURNACE AT 750°C/1382°F 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, THEY MUST BE INSTALLED.

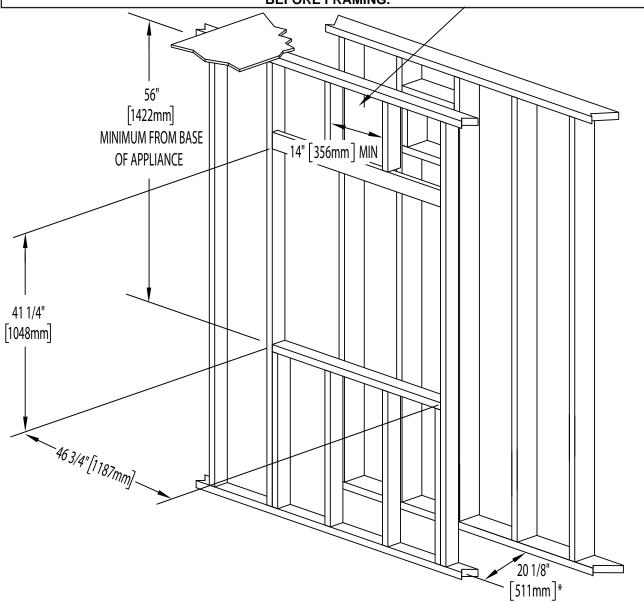
71.1

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

It is not necessary to install a hearth extension with this appliance. When roughing in the appliance, raise the appliance to accommodate for the thickness of the finished floor materials, i.e. tile, carpeting, hard wood.

AWARNING

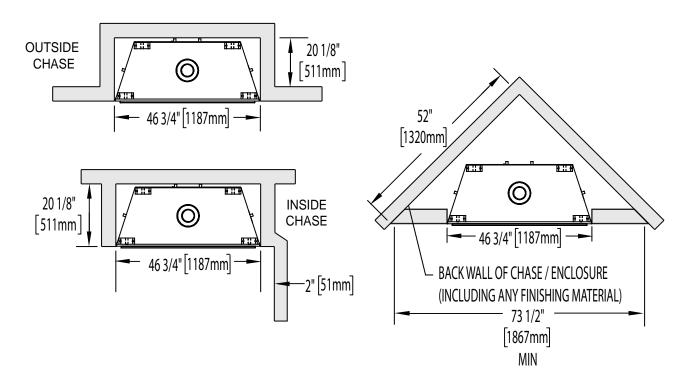
DO NOT BUILD INTO THIS AREA - IT MUST BE LEFT CLEAR TO PROVIDE ADEQUATE CLEARANCE FOR THE VENT IN THIS 14" (356mm) WIDE AREA CENTERED ALONG THE FRONT OF THE FIREPLACE. NO COMBUSTIBLES ARE ALLOWED. FIREPLACE SHOULD BE IN ITS FINAL LOCATION BEFORE FRAMING.



	FRAMING		MAINTAIN THESE MINIMUM CLEARANCES TO COMBUSTIBLES FROM APPLIANCE AND VENT SURFACES:						
RC	UGH OPENIN	IG							
HEIGHT	WIDTH	DEPTH	TO CEILING FROM BASE OF APPLIANCE	TO CEILING FROM TOP OF APPLIANCE OPENING	SIDE WALL	TO COMBUSTIBLE FINISHING ABOVE APPLIANCE	TOP OF VENT PIPE	SIDES AND BOTTOM OF VENT PIPE	REAR & SIDE STAND- OFFS
41 ¼" (1048mm)	46 ¾" (1188mm)	20 ¹ / ₈ " (511mm)*	56" (1422mm)	30 ¹¹ / ₁₆ " (780mm)	2" (51mm)	14" (356mm)	2" (51mm)**	1" (25mm)**	0" (0mm)

^{*} When constructing the enclosure allow for finishing material thickness to maintain clearances.

** <u>VERTICAL VENT SECTIONS:</u> A minimum of 1" (25mm) all around the vent pipe on all vertical runs to combustibles is required except for clearances in appliance enclosures. Vertical vent sections within enclosures require a minimum clearance of 2" (51mm) around the vent pipe. Use firestop spacer W500-0096 (not supplied).

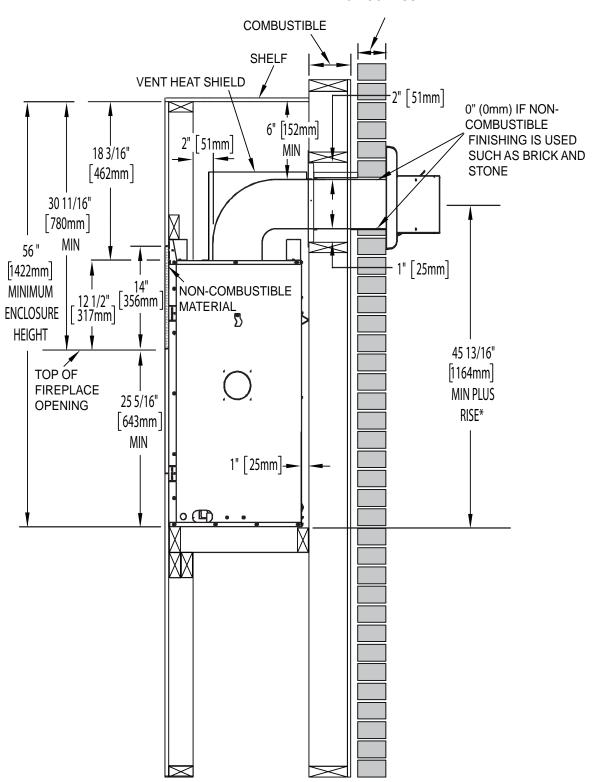


^{**} HORIZONTAL VENT SECTIONS: A minimum clearance of 2" (51mm) to the top and 1" (25mm) to the sides and bottom of the vent pipe on all horizontal runs to combustibles is required. Horizontal vent sections within enclosures require a minimum clearance of 6" (152mm) at the top of the vent pipe, see "MINIMUM CLEARANCE TO COMBUSTIBLE ENCLOSURES" section. Use firestop spacer W010-1777 (supplied).

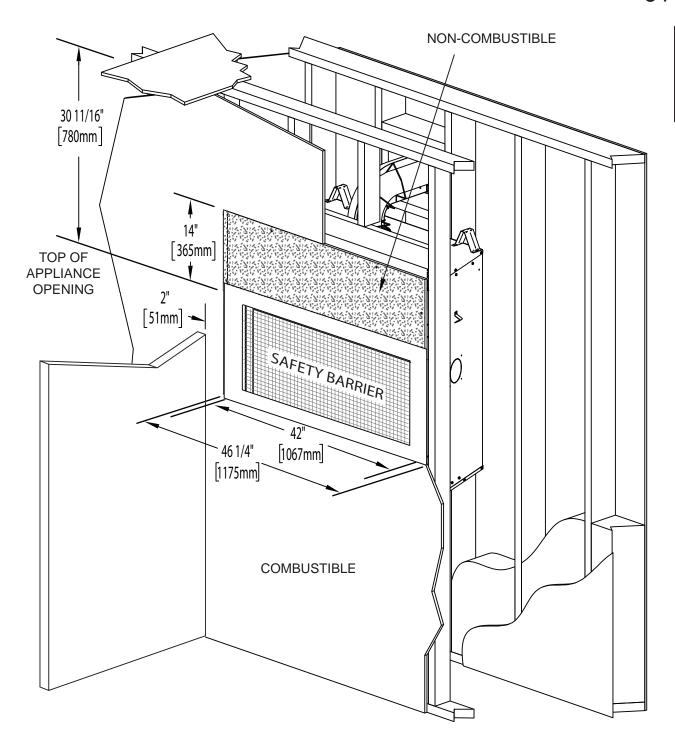
5.1 MINIMUM CLEARANCE TO COMBUSTIBLE ENCLOSURES

IMPORTANT: The LHD45 requires a minimum inside enclosure height of 56" (1422mm), measured from the bottom of the appliance. For temperature requirements, this area must be left unobstructed. It is recommended that the enclosure be ventilated at the top and bottom to circulate the hot air.

NON-COMBUSTIBLE

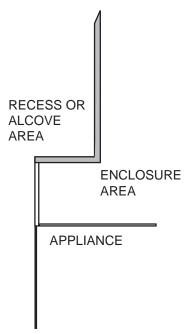


^{*} See "VENTING" section.



Finishing material may be secured directly to the appliance body where practical.

5.2 ALCOVE ENCLOSURE



NOTE: Recesses or alcoves above the appliance can be made as deep as desired provided the minimum clearances to combustibles are maintained.

Non-combustible material can be used, provided the minimum clearances to combustible materials are applied.

The minimum enclosure volume must be increased by no less than the volume of the recess. This adjustment can be made by increasing any or all of the height, width and depth of the enclosure.

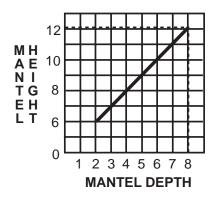
5.3 MINIMUM COMBUSTIBLE MANTEL CLEARANCES

▲WARNING

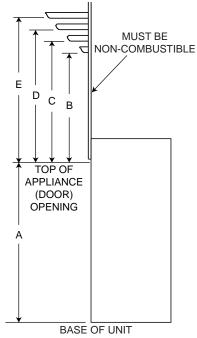
RISK OF FIRE, MAINTAIN ALL SPECIFIED AIR SPACE CLEARANCES TO COMBUSTIBLES. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY CAUSE A FIRE OR CAUSE THE APPLIANCE TO OVERHEAT. ENSURE ALL CLEARANCES (I.E. BACK, SIDE, TOP, VENT, MANTEL, FRONT, ETC.) ARE CLEARLY MAINTAINED.

WHEN USING PAINT OR LACQUER TO FINISH THE MANTEL, THE PAINT OR LACQUER MUST BE HEAT RESISTANT TO PREVENT DISCOLOURATION.

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



MANTEL DIMENSIONS				
Ref	Height	Depth		
Α	25 5/16" (643mm)			
В	6" (152mm)	2" (51mm)		
С	8" (203mm)	4" (102mm)		
D	10" (254mm)	6" (152mm)		
Е	12" (305mm)	8" (203mm)		

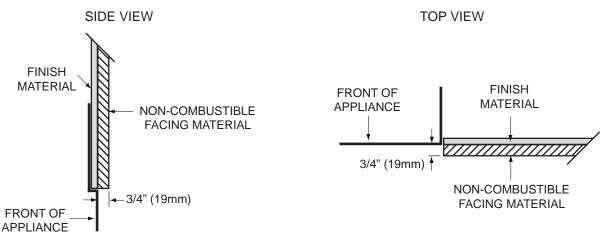


5.4 MINIMUM NON-COMBUSTIBLE PROTRUSION

NOTE: Projection must be non-combustible.

FROM TOP OF APPLIANCE OPENING				
Ref Height		Depth		
Α	25 5/16" (643mm)			
В	0	2" (51mm)		
С	2" (51mm)	6" (152mm)		
D	4" (102mm)	10" (254mm)		

5.5 NON-COMBUSTIBLE FACING MATERIAL



<u>WARNING</u>: Non-combustible facing material must not protrude more than 3/4" (19mm) from the top, and/or sides of the appliance. If it does, it is considered a non-combustible mantel and must meet the non-combustible mantel clearance requirements.

71.3A

6.0 FINISHING

▲WARNING

RISK OF FIRE!

NEVER OBSTRUCT THE FRONT OPENING OF THE APPLIANCE.

THE FRONT OF THE APPLIANCE MUST BE FINISHED WITH ANY NON-COMBUSTIBLE MATERIALS SUCH AS BRICK, MARBLE, GRANITE, ETC., PROVIDED THAT THESE MATERIALS DO NOT GO BELOW THE SPECIFIED DIMENSION AS ILLUSTRATED.

DO NOT STRIKE, SLAM OR SCRATCH GLASS. DO NOT OPERATE APPLIANCE WITH GLASS REMOVED, CRACKED, BROKEN OR SCRATCHED.

FACING AND/OR FINISHING MATERIAL MUST NEVER OVERHANG INTO THE APPLIANCE OPENING.

72.1A

6.1 SAFETY BARRIER AND DOOR REMOVAL / INSTALLATION

AWARNING

GLASS MAY BE HOT, DO NOT TOUCH GLASS UNTIL COOLED.

THE DOOR LATCHES ARE PART OF A SAFETY SYSTEM AND MUST BE PROPERLY ENGAGED. DO NOT OPERATE THE APPLIANCE WITH LATCHES DISENGAGED.

FACING AND/OR FINISHING MATERIALS MUST NOT INTERFERE WITH AIR FLOW THROUGH AIR OPENINGS, LOUVRES OPENINGS, OPERATION OF LOUVRES OR DOORS OR ACCESS FOR SERVICE. OBSERVE ALL CLEARANCES WHEN APPLYING COMBUSTIBLE MATERIALS.

BEFORE DOOR IS REMOVED TURN THE APPLIANCE OFF AND WAIT UNTIL APPLIANCE IS COOL TO THE TOUCH. DOORS ARE HEAVY AND FRAGILE SO HANDLE WITH CARE.

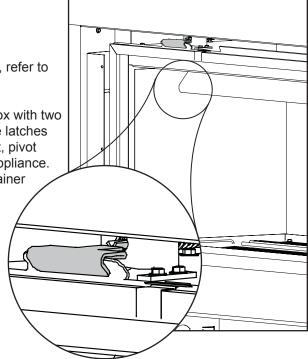
A barrier designed to reduce the risk of burns from the hot viewing glass is provided with the appliance and shall be installed.

Remove the optional front trim equipped with safety barrier, refer to leaflet for removal instructions.

The glass door is secured to the top front edge of the firebox with two latches. Pull the handles of the latches forward, then lift the latches out from the door frame to release the top of the door. Next, pivot the door forward until the top edge clears the front of the appliance. Carefully grip the sides of the door lifting it out from the retainer along the bottom of the door.

Reverse these steps to re-install the door.

NOTE: For ease of door removal, it is necessary to remove the trim.



75.1

WARNING

ENSURE THE GAS AND ELECTRICAL POWER IS TURNED OFF TO THE APPLIANCE.

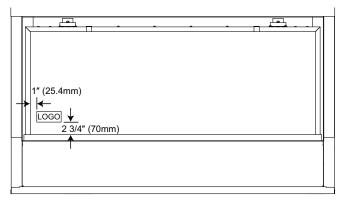
APPLIANCE MAY BE HOT. DO NOT SERVICE UNTIL THE APPLIANCE HAS COOLED.

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

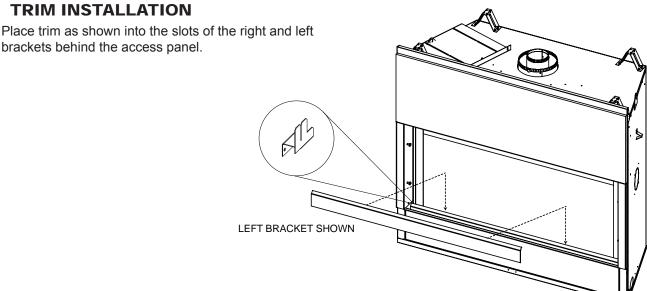
- Α. Turn the gas and electrical power off to the appliance, before beginning installation.
- B. Locate the battery housing supplied in the manual baggie.
- C. Install four "AA" batteries (not supplied) into the battery housing, ensure the positive and negative ends correspond with those identified on the holder. (To open the battery housing, slide the back piece upwards and off of the battery housing).
- Remove the surround equipped with the safety screen then remove the trim to easily access the D. control compartment.
- E. Attach the wire labelled "BATTERY" from the wiring harness, located in the control compartment of the appliance, to the battery housing.
- F. Place the battery housing into the control compartment, ensure that the battery housing is placed in a clean and easily accessible location.
- G. Reinstall the trim then the surround equipped with the safety screen. The surround must be installed at all times during the appliance operation.
- H. Turn the gas and electrical power back on to begin operating the appliance.

NOTE: Once the power has been restored remove the batteries from the holder. The system will drain the batteries if they are left in the battery holder.

6.3 LOGO PLACEMENT



6.4



6.5 GLASS EMBERS

AWARNING

CLEAN THE GLASS MEDIA PRIOR TO INSTALLATION. BEFORE APPLYING THE CLEANED GLASS, ENSURE THAT IT IS DRY.

DO NOT CHANGE OR SUBSTITUTE THE GLASS MEDIA MATERIAL PROVIDED WITH THIS APPLIANCE. IF REPLACING, USE ONLY THE REPLACEMENT GLASS MEDIA AVAILABLE FROM YOUR AUTHORIZED DEALER / DISTRIBUTOR.

DO NOT PLACE ANY MEDIA (GLASS OR VERMICULITE) IN OR AROUND THE PILOT OPENING. THIS WILL INTERFERE WITH THE PILOT OPERATION

Evenly spread the glass media onto the media tray, ensuring no glass media falls into the pilot opening. If this happens, insert a clean bag into your vacuum cleaner and vacuum out the glass media. Replacement glass can be purchased from your local authorized dealer / distributor.

CLEANING GLASS MEDIA

Glass media may have a fine oil residue that needs to be cleaned prior to installation. Clean the glass with mild dish soap, drain, rinse thoroughly and dry before placing around the burner.

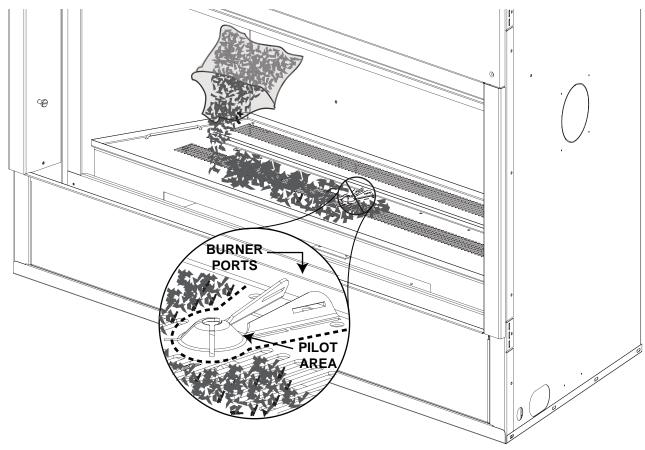
74.2B

WARNING: DO NOT PLACE MEDIA ON OR AROUND THE PILOT, THIS WILL INTERFERE WITH PILOT OPERATION. USE ONLY MEDIA APPROVED FOR USE WITH THIS APPLIANCE. DO NOT OVERFILL MEDIA, USE ONLY THE AMOUNT SUPPLIED WITH THE APPLIANCE.

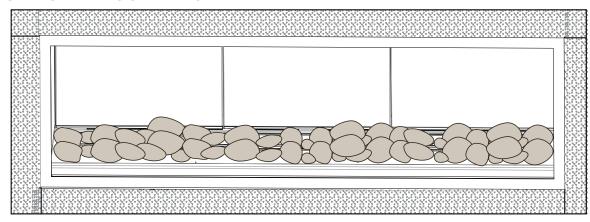
<u>NOTE:</u> Care must be taken to ensure glass embers are kept .250" (6.35mm) clear of the pilot area on the media tray and aren't interfering with the pilot operation.

Glass embers must not cover burner ports.

When the flames impinge on the glass, the glass may discolour slightly and the edges may soften.



6.6 OPTIONAL ROCK PLACEMENT



Randomly place the refractory rocks onto the media tray, around, but not on the burner ports or pilot mesh. Follow the instructions provided with RK62.

7.0 OPTIONAL BLOWER INSTALLATION

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, PREVENTING IT FROM MAKING CONTACT WITH MOVING OR HOT OBJECTS.

51.5

<u>HELPFUL HINT:</u> Prior to finishing in the appliance, we recommend installing the blower through the pre-finishing access panel.

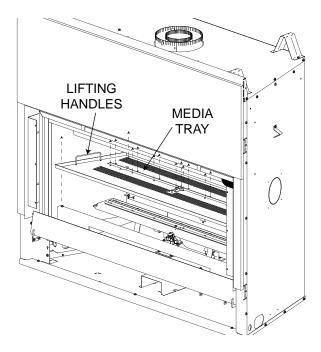
7.1 ACCESSING THE BLOWER

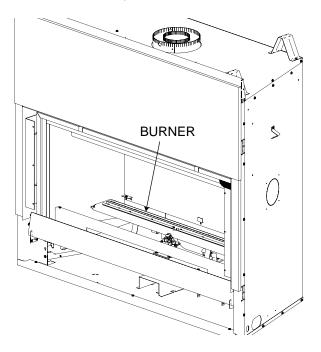
AWARNING

BE CAREFUL NOT TO TEAR THE BURNER TRAIN GASKET. A REPLACEMENT GASKET CAN BE ORDERED FROM YOUR LOCAL AUTHORIZED DEALER / DISTRIBUTOR.

7.1.1 BURNER REMOVAL

- A. Remove the door, see "DOOR REMOVAL / INSTALLATION" section.
- **B.** Remove the 20 screws (8 per side and each corner) that secure the media tray in place. Using the lifting handles lift the tray up and out.
- **C.** Remove the 4 screws that secure the burner in place. Lift the burner up and out.

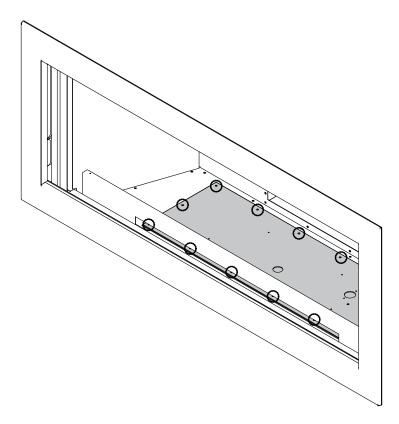




7.1.2 VALVE TRAIN ASSEMBLY

- A. Remove the door, see "SAFETY SCREEN AND DOOR REMOVAL / INSTALLATION" section.
- **B.** Remove the media tray and burner, see "BURNER REMOVAL" section.
- **C.** Remove the fourteen screws from the valve train assembly. Carefully lift the valve train assembly and turn off the manual shut-off valve, see "GAS INSTALLATION" section.

<u>NOTE:</u> A new gasket may be required, when re-installing the valve train assembly, contact your local Authorized dealer / distributor.



7.2 INSTALLING THE BLOWER

INSTALLATION TO BE DONE BY A QUALIFIED INSTALLER and 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 Electrical Code in the United States

The three slots on the blower mounting bracket allow ease of adjustment when attaching the blower. For a quiet running blower, do not allow the assembly to sit on the firebox base. Slide the vibration reducing pad (A) into the clip (C) and up against the threaded stud (B) at the other end. The blower must be able to be positioned entirely onto the pad.

Tilt the blower onto its side. Slide it past the controls and into the clip **(C)**. Secure to the threaded stud using the lock washer and wing nut provided.

Ensure that the blower does not touch the appliance base or the firebox.

Attach the connectors from the black and white wires to the thermal switch. Ensure that the thermal switch makes contact the with the burner base.

Attach the connectors from the black and red wires to the blower. Ensure that the wires are routed safely away from hot objects and retained from the blower impellers.

Attach and secure the variable speed switch to the corner post. However this is difficult to access when the appliance is operating. For frequent useage consider an alternative position beside your appliance wall switch. If the wire does not reach, then it must be cut and a splice added.

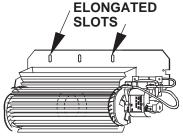
These connections must conform with local codes or, in the absence of local codes, use the current CSA C22.1 Canadian Electrical Code in Canada or the ANSI/NFPA 70 National Electrical Code in the United States.

Plug the blower cord into the receptacle.

Drywall dust will penetrate into the blower bearings, causing irreparable damage. Care must be taken to prevent drywall dust from coming into contact with

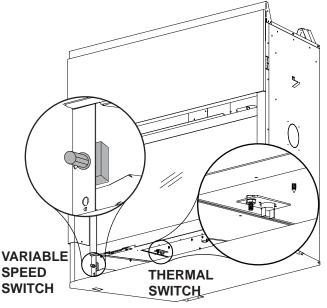
the blower or its compartment. Any damage resulting from this condition is not covered by the warranty policy.

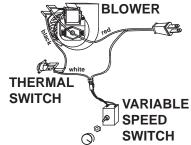
Because the blower is thermally activated, when turned on, it will automatically start approximately 10-30 minutes after lighting the appliance and will run for approximately 30-40 minutes after the appliance has been turned off. Use of the fan increases the heat output of the appliance.











8.0 ELECTRICAL CONNECTION

▲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.

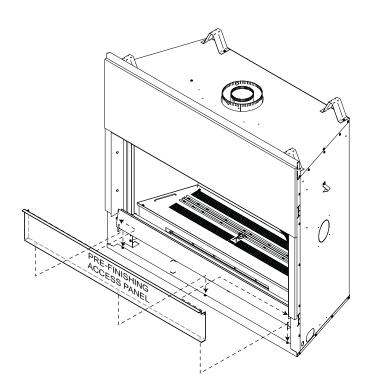
RISK OF ELECTRICAL SHOCK OR EXPLOSION. DO NOT WIRE 110V TO THE VALVE OR TO THE APPLIANCE WALL SWITCH. INCORRECT WIRING WILL DAMAGE CONTROLS.

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 RAN OUT, WITH THE GLASS DOOR OPENED OR REMOVED.

69.2

If access to the control area is necessary <u>BEFORE INSTALLATION</u>, remove the pre-finishing access panel. The access panel must be re-installed before operating the appliance.

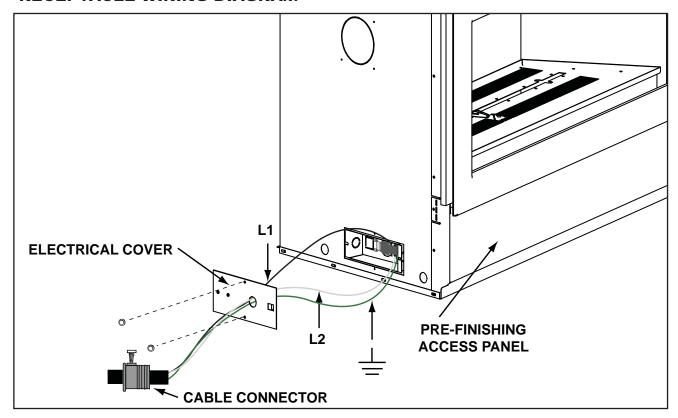


8.1 HARD WIRING CONNECTION

It is necessary to hard wire this appliance.

Permanently framing the appliance with an enclosure, requires the appliance junction box to be hard wired. 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.

8.2 RECEPTACLE WIRING DIAGRAM



- **A.** Remove the two screws that secure the junction box assembly to the outer shell on the left side of the appliance and remove the junction box assembly.
- **B.** Remove the one screw that secures the junction box to the junction box plate and slide off the clip.
- C. Route the supply wire through the 7/8" (22.2mm) hole of the junction box plate with a box connector (not supplied).
- **D.** Connect the 120 volt supply wire to the receptacle as per the CSA C22.1 Canadian Electrical Code in Canada or the ANSI/NFPA 70-1996 National Electrical Code in the United States.
- **E.** Once the wiring is complete, re-install the junction box to the junction box plate and re-secure the screw that was previously removed.
- **F.** Re-install the junction box assembly by reversing step A.

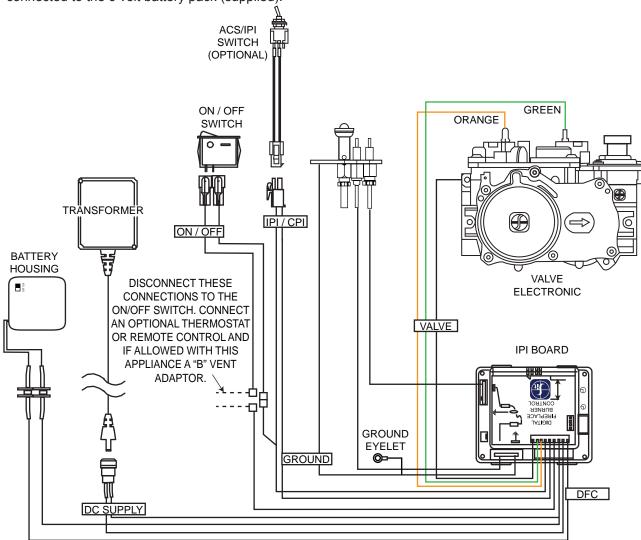
<u>NOTE:</u> If the appliance is already installed inside the enclosure, you can access the junction box from inside the appliance by removing the burner base assembly, see "BURNER REMOVAL" section and "VALVE TRAIN REMOVAL" section.

8.3 WIRING DIAGRAM

▲WARNING

DO NOT WIRE 110 VOLTS TO THE VALVE OR WALL SWITCH.

This appliance comes equipped with a battery back-up. If this backup is used, install 4 AA batteries (not supplied) into the holder and connect to the wire harness. Place near the IPI board. Connect the battery holder to the wire harness before using the appliance. Place near the IPI board. If backup is used, it must be connected to the 6 volt battery pack (supplied).



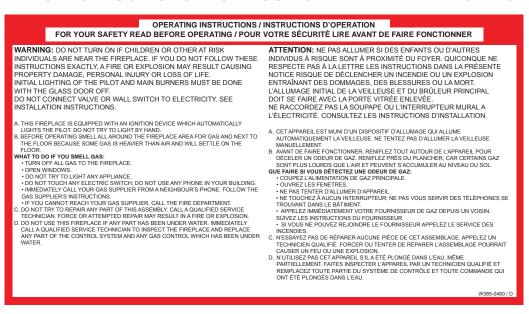
WITH "B" VENT ADAPTORS THE SPILL SWITCH MUST BE WIRED IN SERIES WITH EITHER THE EXISTING SWITCH OR OPTIONAL WALL SWITCH, THERMOSTAT OR REMOTE.

——— 69.5A

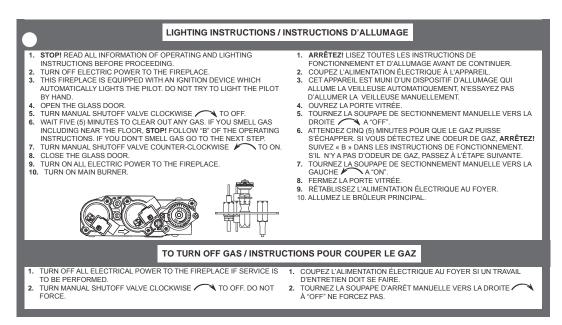
9.0 OPERATING INSTRUCTIONS

When lit for the first time, the appliance will emit a slight odour for a few hours. This is a normal temporary condition caused by the "burn-in" of internal paints and lubricants used in the manufacturing process and will not occur again. Simply open a window to sufficiently ventilate the room. After extended periods of non-operation such as following a vacation or a warm weather season, the appliance may emit a slight odour for a few hours. This is caused by dust particles in the heat exchanger burning off. Open a window to sufficiently ventilate the room.

9.1 OPERATING INSTRUCTIONS - FOR YOUR SAFETY READ BEFORE OPERATING

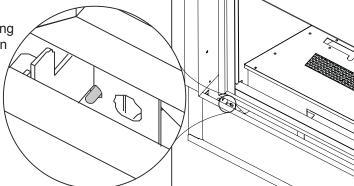


9.2 LIGHTING INSTRUCTIONS



9.3 ANTI CONDENSATION SWITCH (OPTIONAL)

This appliance has the option to switch from an electronic intermittent pilot ignition (IPI) to a standing pilot (ACS) for cold climates. The anti condensation switch (standing pilot) is located in the center of the control panel. Using your finger, flip the switch up for standing pilot, or down for intermittent pilot ignition.



10.0 ADJUSTMENT

10.1 PILOT BURNER ADJUSTMENT

Adjust the pilot screw to provide properly sized flame. Turn in a clockwise direction to reduce the gas flow.

Check Pressure Readings:

Inlet pressure can be checked by turning screw (A) counterclockwise 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".

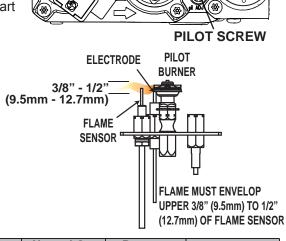
Outlet pressure can be checked the same as above using screw (B). Gauge should read as described on the chart below. Check that main burner is operating on "HI".

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 sandpaper can be used to remove the paint from the pilot hood, electrode and flame sensor.



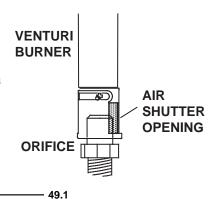
Pressure	Natural Gas (inches)	Natural Gas (millibars)	Propane (inches)	Propane (millibars)
Inlet	7" (MIN. 4.5")	17.4mb (MIN. 11.2mb)	13" (MIN. 11")	32.4mb (MIN. 27.4mb)
Outlet	3.5"	8.7mb	10"	24.9mb

- 39.1C

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 carboning. 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.

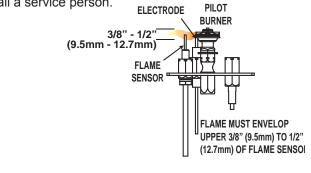


AIR SHUTTER ADJUSTMENT MUST ONLY BE DONE BY A QUALIFIED INSTALLER!

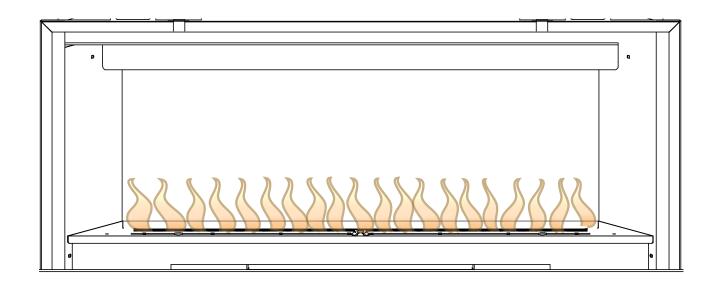
VENTURI	ADJUSTMENT CHART
FUEL	LHD45
NG	1/32" (0.8mm)
LP	1/8" (3.2mm)

10.2 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.



_____ 54.1B



11.0 MAINTENANCE

AWARNING

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.

DO NOT PAINT THE PILOT ASSEMBLY.

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing. This appliance and its venting system should be inspected before use and at least annually by a qualified service person. 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.

- **A.** In order to properly clean the burner and pilot assembly, remove the logs, rocks and/or glass to expose both assemblies.
- **B.** Keep the control compartment, media, burner, air shutter opening and the area surrounding the logs clean by vacuuming or brushing, at least once a year.
- **C.** 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.
- **D.** Check to see that the pilot flame is large enough to engulf the flame sensor and/or thermocouple / thermopile as well as reaches the burner.
- **E.** 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.
- F. Check to see that the main burner ignites completely on all openings when turned on. A 5 to 10 second total light-up period is satisfactory. If ignition takes longer, consult your local authorized dealer / distributor.
- **G.** Check that the gasketing on the sides, top and bottom of the door is not broken or missing. Replace if necessary.
- **H.** If for any reason the vent air intake system is disassembled, re-install and re-seal per the instructions provided for the initial installation.
- **I.** Cleaning the safety barrier may be necessary due to excessive lint / dust from carpeting, pets, etc. simply vacuum using the brush attachment.

_____ 40.1C

11.2 ANNUAL MAINTENANCE

AWARNING

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 a 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.
- Also gently remove any build-up on the pilot assembly including, if equipped; thermopile, thermocouple, flame sensor and igniter. NOTE: The flame sensor may require to be cleaned using a fine steel wool or Scotch-Brite™ scrubbing pad 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.
- Access the blower, if equipped 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.

— 37.1B

11.1 GLASS / DOOR REPLACEMENT

AWARNING

DO NOT USE SUBSTITUTE MATERIALS.

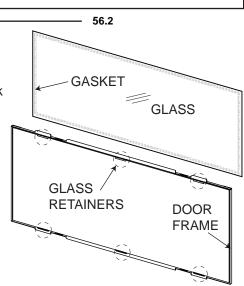
GLASS MAY BE HOT, DO NOT TOUCH GLASS UNTIL COOLED.

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 THE APPLIANCE BEFORE OPERATION.

DO NOT STRIKE, SLAM OR SCRATCH GLASS. DO NOT OPERATE APPLIANCE WITH GLASS REMOVED, CRACKED, BROKEN OR SCRATCHED.

- **A.** Place the door frame face down careful not to scratch the paint.
- **B.** Center the gasketed glass inside the door frame with the thick side of the gasket facing up.
- **C.** Bend the glass retainers located along the edge of the door frame over the gasket holding the glass in place. Be careful not to break the glass.

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



11.6 CARE OF GLASS

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 a recommended fireplace glass cleaner. NOTE: Vinegar-based or ammonia-free glass cleaners have generally 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.

Do not contact the inside surface of the glass with razor blades, steel wool or other metallic objects as a thin layer of metal removed from the object may be deposited onto the coating which results in a discoloured stain or scratch like mark. Such marks are not removed using the normal cleaning procedures given but require specialized techniques.

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

5.4

This appliance is factory equipped with 5mm ceramic glass. Use only replacement glass available from your Napoleon® dealer. DO NOT SUBSTITUTE MATERIALS.

11.3 CARE OF PLATED PARTS

If the appliance is equipped with plated parts, you must clean fingerprints or other marks from the plated surfaces before operating the appliance for the first time. Use a glass cleaner or vinegar and towel to clean. If not cleaned properly before operating for the first time, the marks can cause permanent blemishes on the plating. After the plating is cured, the fingerprints and oils will not affect the finish and little maintenance is required, just wipe clean as needed. Prolonged high temperature burning with the door ajar may cause discolouration on plated parts.

NOTE: 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.

6.1

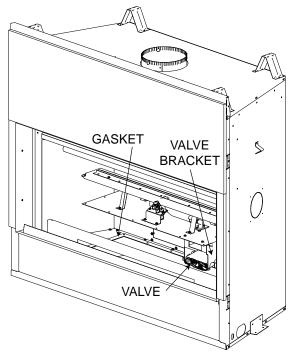
11.4 VALVE REMOVAL

A. Carefully lift the valve train assembly and turn off the manual shut-off valve, see "VALVE TRAIN ASSEMBLY" and "GAS INSTALLATION" section.

NOTE: A new gasket may be required, when re-installing the valve train assembly, contact your local Authorized dealer / distributor.

Disconnect the flex connector from the valve. Remove the valve wire connections, labeling each one to aid with re-connection.

- **B.** Remove the four screws from the valve bracket and remove the valve.
- **C.** Replace all components before returning the appliance to service.
- **D.** Check for gas leaks by brushing on a soap and water solution.



11.5 RESTRICTING VERTICAL VENTS

Vertical installations may display a very active flame. If this appearance is not desirable, the vent exit must be restricted using a restrictor vent kit. Refer to "ACCESORIES" in the "REPLACEMENTS" section for the appropriate kit. This will reduce the velocity of the exhaust gases, slowing down the flame pattern and creating a more traditional gentle flame appearance. Specific instructions are included with the kit.

12.0 REPLACEMENTS

Contact your dealer or the factory 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.

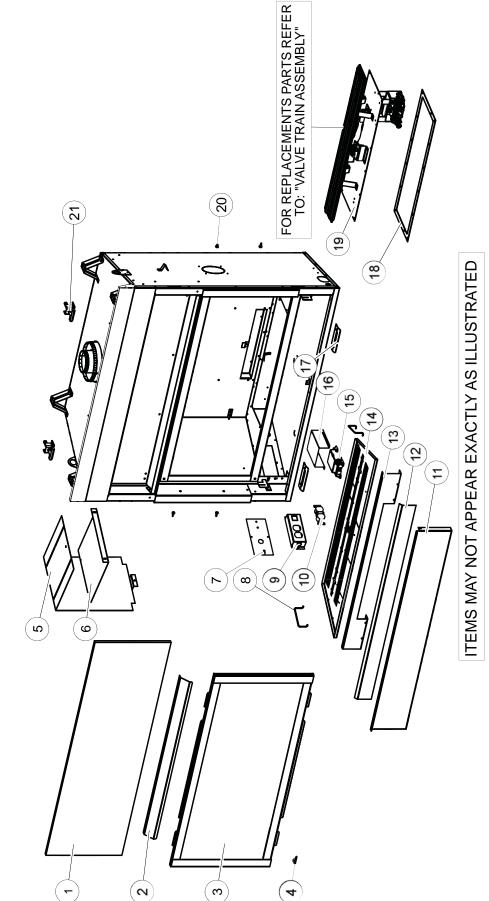
When ordering replacement parts always give the following information:

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

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.

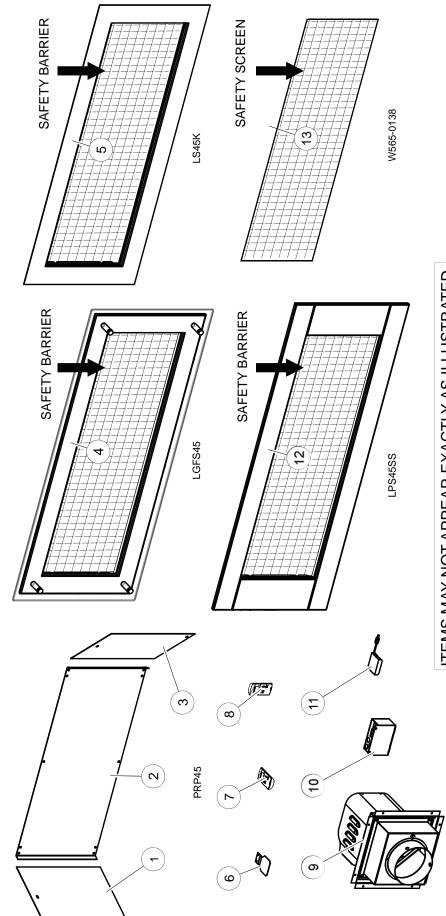
13.0 OVERVIEW



	REF. NO.	REF. NO. PART NUMBER DESCRIPTION	DESCRIPTION
	12	W715-0890	FRONT LOUVRE COVER
	13	W655-0341	MEDIA TRAY SUPPORT
	14	W710-0053	MEDIA TRAY
	15	W190-0029	CONTROL BOARD
	16	W585-0331	CONTROL BOARD SHIELD
	17	W500-0515	DOOR RETAINER (X2)
	18	W290-0152	VALVE TRAIN GASKET
	19	W010-2218	VALVE TRAIN ASSEMBLY (NG)
	20	W065-0034	SHOULDER SCREWS (X4)
	21	W010-2109	DOOR LATCHES (X2)

REF. NO.	PART NUMBER	DESCRIPTION
1	W475-0680	CEMENT BOARD
2	W215-0143	HOT AIR DEFLECTOR
က	W010-2221	DOOR ASSEMBLY
4	W385-0334	NAPOLEON LOGO
5	W585-0329	VENTING SHIELD, TOP
9	W585-0330	VENTING SHIELD, BOTTOM
7	W500-0443	JUNCTION BOX PLATE
8	W325-0057	MEDIA TRAY HANDLE (X2)
6	W350-0464	ELECTRICAL HOUSING
10	W460-0006	RECEPTACLE
11	W200-0317	CONTROL ACCESS COVER

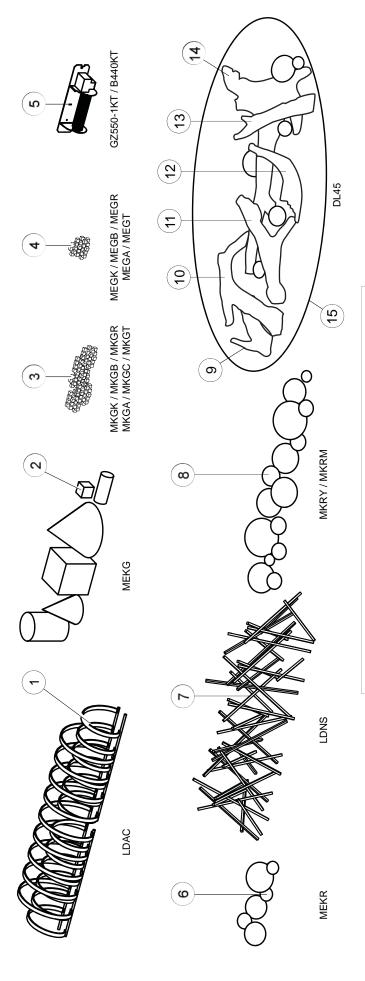
14.0 ACCESSORIES



ITEMS MAY NOT APPEAR EXACTLY AS ILLUSTRATED

REF. NO.	PART NUMBER	DESCRIPTION
1	W475-0684	LS PORCELAIN PANEL (PRP45)
2	W475-0682	REAR PORCELAIN PANEL (PRP45)
3	W475-0683	RS PROCELAIN PANEL (PRP45)
4	LGF45	LINEAR STYLO SURROUND
5	LS45K	BASIC SURROUND C/W SAFETY SCREEN
9	W500-0673	RESTRICTOR PLATE (RP4)
7	F45 / F60	HAND HELD REMOTE CONTROL

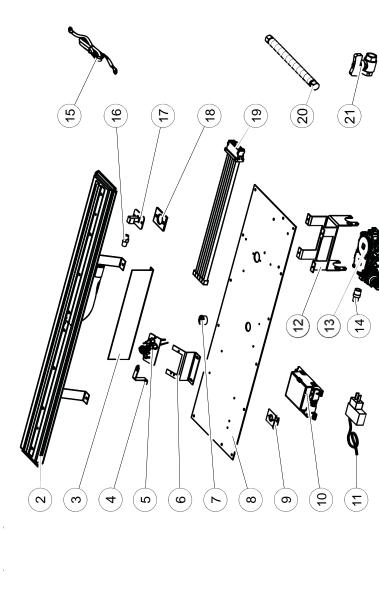
REF. NO.	PART NUMBER	DESCRIPTION
8	W660-0081	WALL MOUNTED THERMOSTAT
6	GPV	POWER VENT TERMINAL
10	PVAL45	POWER VENT ADAPTOR KIT
11	W350-0702	BATTERY HOUSING
12	LPS45SS	PREMIUM SURROUND C/W SAFETY SCREEN
13	LDS45	DELUXE SURROUND C/W SAFETY SCREEN
14	W565-0138	SAFETY SCREEN



ITEMS MAY NOT APPEAR EXACTLY AS ILLUSTRATED

REF. NO.	REF. NO. PART NUMBER	DESCRIPTION	REF. NO.	REF. NO. PART NUMBER DESCRIPTION	DESCRIPTION
_	LDAC	DECORATIVE COIL ART	6	W135-0459	DRIFTWOOD LOG #8 (DL45)
2	MEKG	DECORATIVE GEO SHAPES	10	W135-0456	DRIFTWOOD LOG #5 (DL45)
3	GLASS MEDIA	MEDIA KIT (VARIOUS COLOURS)	11	W135-0455	DRIFTWOOD LOG #4 (DL45)
4	GLASS MEDIA	MEDIA ENHANCEMENT KIT (VARIOUS COLOURS) 12	12	W135-0454	DRIFTWOOD LOG #3 (DL45)
5	GZ550-1KT/B440KT BLOWER KIT		13	W135-0453	DRIFTWOOD LOG #2 (DL45)
9	MEKR	ROCK MEDIA ENHANCEMENT KIT	14	W135-0452	DRIFTWOOD LOG #1 (DL45)
7	RDNS	DECORATIVE NICKEL STIX ART	15	DL45	DRIFTWOOD LOG SET
8	MKRY / MKRM	RIVER ROCKS MEDIA KIT			

15.0 VALVE TRAIN ASSEMBLY



W175-0326

ITEMS MAY NOT APPEAR EXACTLY AS ILLUSTRATED

_	PART NUMBER	REF. NO. PART NUMBER DESCRIPTION
•	W175-0326	LP CONVERSION KIT
2	W100-0119	BURNER ASSEMBLY
3	W215-0145	BOTTOM AIR DEFLECTOR
4	W080-1305	PILOT GROUND BRACKET
5	W010-2763	PILOT ASSEMBLY
9	W080-1062	PILOT BRACKET
7	W105-0001	7/8" BUSHING
8	W035-0263	BURNER BASE
6	W010-2821	THERMAL DISC. ASSEMBLY
10	W190-0029	CONTROL BOARD
11	W707-0010	TRANSFORMER

REF. NO.	PART NUMBER	DESCRIPTION
12	W080-1066	VALVE BRACKET
13	W725-0065	VALVE
14	W445-0021	3/8" CONNECTOR
15	W750-0290	24" WIRE HARNESS
16	W456-0043	BURNER ORIFICE #43
17	W432-0103	MANIFOLD
18	W290-0157	MANIFOLD GASKET
19	W010-1986	WIRE HARNESS ASSEMBLY
20	W175-0227	FLEX CONNECTOR
21	W725-0046	GAS VALVE

16.0 TROUBLESHOOTING

AWARNING

ALWAYS LIGHT THE PILOT WHETHER FOR THE FIRST TIME OR IF THE GAS SUPPLY HAS RAN OUT, WITH THE GLASS DOOR OPEN OR REMOVED.

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.

SYMPTOM	PROBLEM		TEST SOLUTION
Pilot will not light. Makes noise with no spark at pilot burner.	Wiring.	-	Verify the wire for the sensor and the wire for the ignitor are connected to the correct terminals (not reversed) on the module. NOTE: Sensor has 3/16" (4.8mm) connection and ignitor has 1/8" (3.2mm) connection.
IGNITOR (SPARK)	Loose connection.	-	Verify no loose connections, electrical shorts in the wiring or ground out to any metal object.
SENSOR PILOT TUBE	Module.	-	Turn the ON/OFF switch to the "OFF" position. Remove the igniter wire from the module. Place the ON/OFF switch to the "ON" position. Hold a grounded wire about 3/16" (4.8mm) away from the ignitor (spark) terminal on the module. If no spark the ignitor terminal module must be replaced. If there is a spark the ignitor terminal is fine. Inspect pilot assembly for a shorted wire or cracked insulator around the electrode.
	Igniter Spark gap is incorrect.	-	Spark gap of the ignitor to the pilot should be 1/8" (3.2mm).
	Transformer.	-	Verify the transformer is installed and plugged into the module. Check voltage of the transformer under load at the spade connections on the module with the ON/OFF switch in the "ON" position. Acceptable readings of a good transformer are between 6.2 and 7.0 volts A.C.
	Battery backup (if power is off)	-	Check batteries.
	A shorted or loose Connection.	-	Remove and reinstall the wiring harness that plugs into the module. Remove and verify continuity of each wire in wiring harness.
	Improper switch wiring.	-	Troubleshoot the system with the simplest ON/OFF switch.
	Module is not grounded.	-	Verify the valve and pilot assemblies are properly grounded to the metal chassis of the appliance or log set.
Pilot sparks but will not light.	Gas supply.	_	Verify that the incoming gas line ball valve is "Open". Verify that the inlet pressure reading is within acceptable limits, inlet pressures must not exceed 14" W.C. (34.9mb).
	Out of propane gas.	_	Fill the tank.
			42.7A

SYMPTOM	PROBLEM	TEST SOLUTION
Carbon is being deposited on	Air shutter has become blocked.	 Ensure air shutter opening is free of lint or other obstructions.
glass, logs, rocks, media or combustion chamber surfaces.	Flame is impinging on the glass, logs, rocks, media or combustion chamber.	 Check that the glass, logs, rocks or media are correctly positioned. 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 values. Check that the door gasketing is not broken or missing and that the seal is tight. Check that both vent liners are free of holes and well sealed at all joints. Check that minimum rise per foot has been adhered to for any horizontal venting.
Continues to spark and pilot lights, but main	Short or loose connection in sensor rod.	 Verify all connections. Verify the connections from the pilot assembly are tight; also verify these connections are not grounding out to any metal.
burner will not light.	Poor flame rectification or contaminated sensor rod.	Verify the flame is engulfing the sensor rod. This will increase the flame rectification. Verify correct pilot orifice is installed and inlet gas specifications to manual. (Remember, the flame carries the rectification current, not the gas. If the 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.
	Poor grounding between pilot assembly and gas valve.	 Verify that the wire harness is firmly connected to module Verify that the ceramic insulator around the sensor rod is not cracked, damaged, or loose. Verify the connection from the sensor rod to the sensor wire.
	Damaged pilot or dirty sensor rod.	 Clean sensor rod with a fine steel wool to remove any contamination that may have accumulated on the sensor rod. Verify continuity with multimeter with ohms set at the lowest range.
Pilot lights Stops sparking	Wiring / Connection.	 Inspect all wires, ensure good tight connections. Verify that all wiring is installed exactly as specified.
/ pilot remains lit but burner will not turn on.	Wiring harness.	 Inspect the wiring harness, and verify the harness is tightly connected to the module. Verify that all wires are connected in the right order. See "WIRING DIAGRAM" section.
Exhaust fumes smelled in room, headaches.	Appliance is spilling.	Check all seals.Check if exhaust is re-entering through an open door or window.

— 42.7_2

SYMPTOM	PROBLEM		TEST SOLUTION
White / grey film forms.	Sulphur from fuel is being deposited on glass, logs or combustion chamber surfaces.	- - -	Clean the glass, see "CARE OF GLASS" section DO NOT CLEAN GLASS WHEN HOT. If deposits are not cleaned off regularly, the glass may become permanently marked.
Flames are very	Door is ajar.	-	Tighten door clamps if applicable.
aggressive.	Venting action is too great.	-	Restrict vent exit with restrictor plate. See "RESTRICTING VENTS" section if applicable.
Main burner flame is a blue, lazy, transparent flame.	Blockage in vent.	-	Remove blockage. In really cold conditions, ice buildup may occur on the terminal and should be removed. To minimize this from happening again, it is recommended that the vent lengths that pass through unheated spaces (attics, garages, crawl spaces) be wrapped with an insulated mylar sleeve. Prevent sleeve from sagging. Contact your local authorized dealer for more information.
	Compromised venting.	-	Check venting system parameters (seal, length, rise, etc.).
Main burner goes out: pilot goes out.	Vent recirculation.	-	Check joint seals and installation.
			42.7_3B

17.0 WARRANTY

NAPOLEON® products are manufactured under the strict Standard of the world recognized ISO 9001 : 2008 Quality Assurance Certificate.

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, receives 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 such as blowers, gas valves, thermal switch, switches, wiring, remote controls, ignitor, gasketing, and pilot assembly are covered and NAPOLEON® will provide replacement parts free of charge during the first year of the limited warranty.*

Labour related to warranty repair is covered free of charge during the first year. 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. 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).

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®.

All parts replaced under the President's Limited Lifetime Warranty Policy are subject to a single claim.

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.

All parts replaced under the warranty will be covered for a period of 90 days from the date of their installation.

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 DESIGNS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE DUE TO ON-GOING PRODUCT IMPROVEMENTS. NAPOLEON® IS A REGISTERED TRADEMARK OF WOLF STEEL LTD.

AS REQUIRED BY THE DEPARTMENT OF ENERGY IN THE UNITED STATES, 10 CFR PART 430, THE WARRANTY IS VOID IF THIS PRODUCT IS USED WITH A THERMOSTAT. THIS APPLIES TO PRODUCT INSTALLED IN THE UNITED STATES, ONLY.

18.0 SERVICE HISTORY

	Th	Appliance Solis heater must be serviced	Appliance Service History This heater must be serviced annually depending on usage.	
Date	Dealer Name	Service Technician Name	Service Performed	Special Concerns



Fireplace Inserts • Charcoal Grills • Gas Fireplaces • Waterfalls • Wood Stoves Heating & Cooling • Electric Fireplaces • Outdoor Fireplaces • Gourmet Grills



24 Napoleon Road, Barrie, Ontario, Canada L4M 0G8 214 Bayview Drive, Barrie, Ontario, Canada L4N 4Y8 103 Miller Drive, Crittenden, Kentucky, USA 41030 7200 Trans Canada Highway, Montreal, Quebec, Canada H4T 1A3