PROPANE GAS MODELS: GD82PT-PAE



INSTALLATION OPERATION MAI

SAFETY BARRIER

Park Avenue[™]

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FOR INDOOR USE ONLY

SAFETY INFORMATION

A WARNING

FIRE OR EXPLOSION HAZARD

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

- WHAT TO DO IF YOU SMELL GAS:

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

- Installation and service must be performed by a qualified installer, service agency, or the supplier.

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

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

> **INSTALLER:** Leave this manual with the appliance CONSUMER:

Retain this manual for future reference











CERTIFIED TO THE CANADIAN AND AMERICAN NATIONAL STANDARDS:

CSA 2.22 AND ANSI Z21.50 FOR VENTED DECORATIVE GAS APPLIANCES

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safety information

- This appliance is hot when operated and can cause severe burns if contacted.
- Any changes or alterations to this appliance or its controls can be dangerous and is prohibited.
- Do not operate appliance before reading and understanding operating instructions. Failure to operate appliance according to operating instructions could cause fire or injury.
- Ensure the glass door is opened or removed when lighting the pilot for the first time and when the gas supply has run out.
- Risk of fire or asphyxiation, do not operate appliance with fixed glass removed and never obstruct the front opening of the appliance.
- obstruct the front opening of the appliance.
 Do not connect 110 volts to the control valve, with the exception of models; GSST8 and GT8.



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

- Risk of burns. The appliance should be turned off and cooled before servicing.
- Do not install damaged, incomplete or substitute components.
- Risk of cuts and abrasions. Wear protective gloves, protective footwear, and safety glasses during installation. Sheet metal edges may be sharp.
- Do not burn wood or other materials in this appliance.
- Provide adequate ventilation and combustion air. Provide adequate accessibility clearance for servicing and operating the appliance.
- High pressure will damage valve. Disconnect gas supply piping before pressure testing gas line at test pressures above 1/2 psig. Close the manual shut-off valve before pressure testing gas line at test pressures equal to or less than 1/2 psig (35mb).
- The appliance must not be operated at temperatures below freezing (32°F / 0°C). Allow the appliance
 to warm to above freezing prior to operation, with the exception of models; GSS36, GSS42; these
 appliances are suitable for 0°F / -18°C.
- Children and adults should be alerted to hazards of high surface temperature and should stay
 away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to an appliance or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
- Clothing or other flammable material should not be placed on or near the appliance.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Furniture or other objects must be kept a minimum of 4 feet (1.22m) away from the front of the appliance.
- Ensure you have incorporated adequate safety measure to protect infants/toddlers from touching hot surfaces.
- Even after the appliance is off, it will remain hot for an extended period of time.
- Check with your local hearth specialty dealer for safety screens and hearth guards to protect children from hot surfaces. These screens and guards must be fastened to the floor.
- Any safety screen, guard or barrier removed for servicing the appliance, must be replaced prior to operating the appliance.
- It is imperative that the control compartments, burners and circulating blower and its passageway in the appliance and venting system are kept clean. The appliance and its venting system should be inspected before use and at least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- If the appliance shuts off, do not re-light until you provide fresh air. If appliance keeps shutting off, have it serviced. Keep burner and control compartment clean.
- Under no circumstances should this appliance be modified.
- Do not allow wind or fans to blow directly into the appliance. Avoid any drafts that alter burner flame patterns.

WARNING

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

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



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note:

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

standard checklist

Installer, please fill out the following information:

Customer: Address: Date of Installation: Location of Appliance: Installer: Dealer/Distributor contact number: Serial #:			
Model:			
Natural Gas: GD82NT-PAE	Propane:	GD82PT-PAE	

1.0 general information

When the appliance is installed at elevations above 4,500ft (1371m), 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 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. No external electricity (110 volts or 24 volts) is required for the gas system operation.

Expansion / contraction noises during heating up and cooling down cycles are normal and are to be expected. Change in flame appearance from "HI" to "LO" is more evident in natural gas than in propane.

note:

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

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



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

1.1 rates and efficiencies

	NG	Р
Altitude (FT)	0 - 4	,500
Max. Input (BTU/HR)	26,	000
Max. Output Steady State (BTU/HR)	16,	000
Min. Inlet Gas Supply Pressure	4.5" Water Column (11mb)	11" Water Column (27mb)
Max. Inlet Gas Supply Pressure	7" Water Column (17mb)	13" Water Column (32mb)
Manifold Pressure (Under Flow Conditions)	3.5" Water Column (9mb)	10" Water Column (25mb)

general information

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

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

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

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

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



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

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

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

1.2 rating plate information



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

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

1.3 mobile home installation

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

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

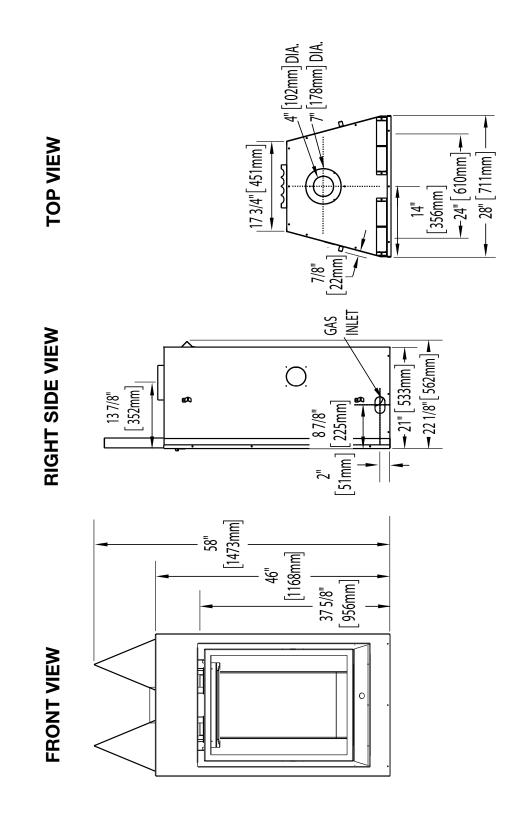
This appliance is certified to be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes.

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

Conversion Kits

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

general information 1.4 dimensions



WARNING

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

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

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

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

note:

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

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

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

A starter adaptor must be used with the following vent systems and may be purchased through Wolf Steel or from the corresponding supplier listed below:

Venting System	Manufacturer	Starter Adapter Part Number	Supplier	Website
SureSeal	Metal-Fab	4DNA	Wolf Steel	www.mtlfab.com
Direct Vent Pro	Simpson DuraVent	W175-0053	Wolf Steel	www.duravent.com
Pro-Form	BDM	DVR6-STA7	BDM	www.dalsinmfg.com
Direct Temp	Selkirk	4DT-AAN	Selkirk	www.selkirkcorp.com

Connections made by means of an adaptor at the appliance, as well as the connection at the vent terminal must be sealed. RTV 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.

For all rigid vent systems is strongly recommend for all installations but required when power venting the appliance, that the outer air intake joints are sealed using either high temperature silicone (RTV) or a suitable aluminum tape that covers each joint in the vent system entirely around its circumference. This will ensure the best performance in every application and avoids performance or condensation concerns that may occur in "tightly" constructed homes, particularly those in cold climates.

When using Wolf Steel venting components, use only approved Wolf Steel rigid / flexible components with the following termination kits: wall terminal kit **GD-222**, **GD-222R**, **ST47U** or 1/12 to 7/12 pitch roof terminal kit **GD-110**, 8/12 to 12/12 roof terminal kit **GD-111**, flat roof terminal kit **GD-112** or periscope kit **GD-201** (for wall penetration below grade). With flexible venting, in conjunction with the various terminations, use either the 5 foot (1.5m) vent kit **GD-220** or the 10 foot (3.1m) vent kit **GD-330**. For stoves only: wall terminal kit **GD-175** (venting included).

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.

venting

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

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

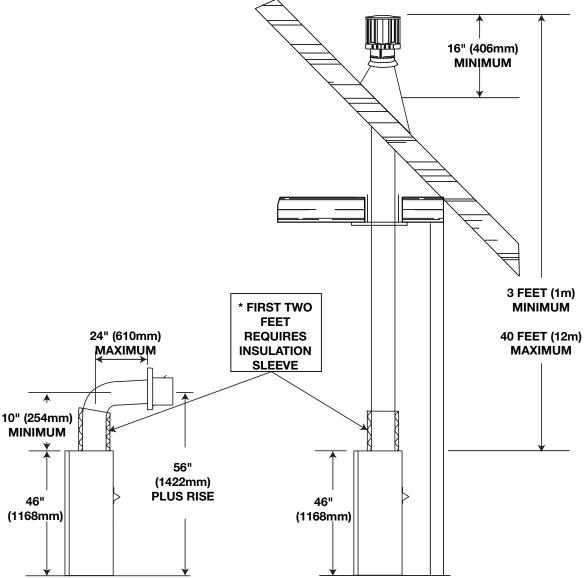
A terminal shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings. Local codes or regulations may require different clearances.

Do not allow the inside liner to bunch up on horizontal or vertical runs and elbows. Keep it pulled tight. A 1¼" (31.8mm) air gap all around between the inner liner and outer liner is required for safe operation.

2.1 typical vent installation

WARNING

• The first 2 feet of outer 7" (187mm) diameter vent pipe from the appliance must be wrapped in the 1" (25mm) thick insulation sleeve (supplied). Make sure the insulation is pulled down tight to the appliance when installed. Thereafter, a 2" (51mm) clearance all around the vent pipe from combustible materials on all horizontal vent sections is required.

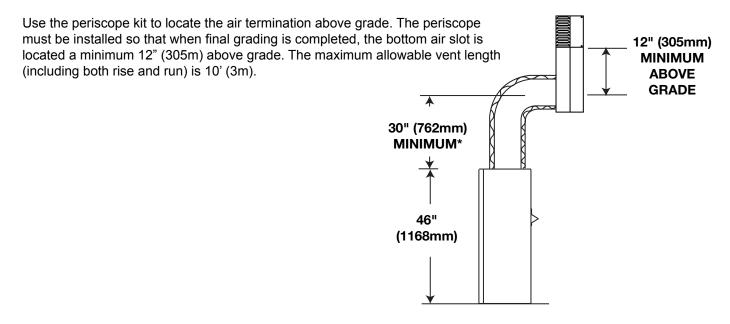


When venting, the horizontal run must be kept to a maximum of 20 feet (6m). If a 20 foot (6m) horizontal run is required, the appliance must have a minimum vertical rise immediately off the appliance of 57" (1448mm). When terminating vertically, the vertical rise is a minimum 3 feet (1m) and a maximum 40 feet (12m) above the appliance.

* First two feet (0.6m) requires insulation sleeve

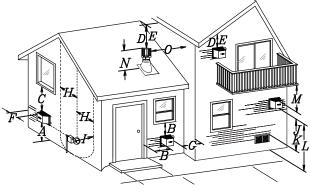
2.2 special vent installations

2.2.1 periscope installation

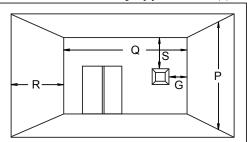


venting

2.3 minimum air terminal location clearances



Covered balcony applications ++*



			$\begin{array}{ c c c c c }\hline Q_{MIN} = 3 \text{ feet} \\ (0.9m) \end{array} \begin{array}{ c c c } R_{MAX} = 2 \times Q_{ACTUAL} \end{array} \begin{array}{ c } R_{MAX} \le 15 \text{ feet} \\ (4.6m) \end{array}$	
	INSTALLATIONS		note: Wall terminals are for illustration purposes only. Size and	
	CANADA	U.S.A.	shapes may vary.	
Α	12" (30.5cm)	12" (30.5cm)	Clearance above grade, veranda porch, deck or balcony.	
в	12" (30.5cm) [∆]	9" (229mm) [△]	Clearance to windows or doors that open.	
С	12" (30.5cm)*	12" (30.5cm)*	Clearance to permanently closed windows.	
D	18" (45.7cm)**	18" (45.7cm)**	Vertical clearance to ventilated soffits located above the terminal within a horizontal distance of 2' (0.6m) from the center line of the terminal.	
Е	12" (30.5cm)**	12" (30.5cm)**	Clearance to unventilated soffit.	
F	0" (0mm)	0" (0mm)	Clearance to an outside corner wall.	
•	0" (0mm)***	0" (0mm)***	Clearance to an inside non -combustible corner wall or protruding non -combustible obstructions (chimney, etc.).	
G	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).	
Ι	3' (0.9m)	3' (0.9m)****	Clearance to a service regulator vent outlet.	
J	12" (30.5cm)	9" (229mm)	Clearance to a non-mechanical air supply inlet to the building or a combustion air inlet to any other appliance.	
к	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" (30.5cm)††	12" (30.5cm)****	Clearance under a veranda, porch, deck or overhang.	
Ν	16" (40.6cm)	16" (40.6cm)	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.	

note:

Clearances are to be in accordance with local installation codes and the requirements of the gas

listed above and are based on national codes.

supplier. In their absence, clearances are to be as

12" (30.5cm) 12" (30.5cm) Clearance under a covered balcony

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

* Recommended to prevent condensation on windows and thermal breakage

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

- *** The periscope requires a minimum 18 inches clearance from an inside corner.
- **** This is a recommended distance. For additional requirements, check local codes.
- † 3 feet above if within 10 feet horizontally.

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

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

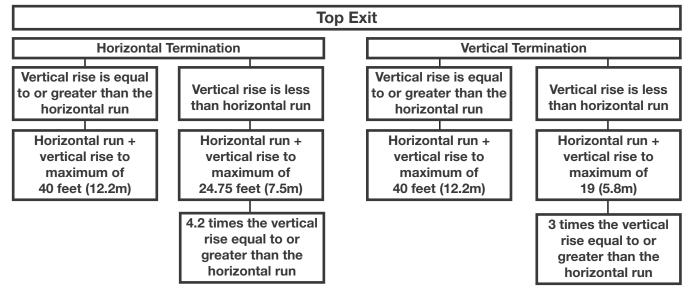
†* Recommended to prevent recirculation of exhaust products. For additional requirements, check local codes.

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

S

venting EN

2.4 venting application flow chart



2.5 definitions

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

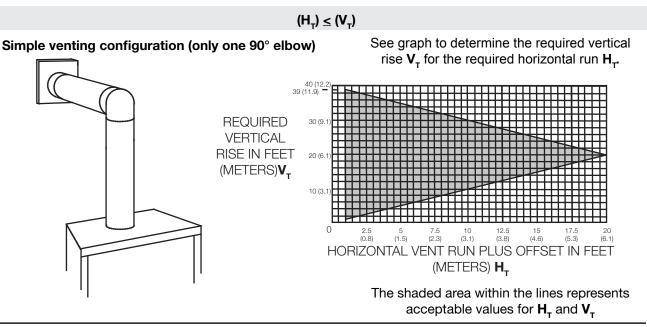
- > greater than
- \geq equal to or greater than
- < less than
- \leq equal to or less than
- $\mathrm{H_{\tau}}$ total of both horizontal vent lengths (Hr) and offsets (Ho) in feet
- H_{B}^{i} combined horizontal vent lengths in feet
- H_0^{-} offset factor: .03 (total degrees of offset 90°*) in feet
- H_{0}^{\sim} offset factor: .03 (total degrees of offset 135°*) in feet
- V_{τ} combined vertical vent lengths in feet

2.6 elbow vent length values

	Feet	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°

* The first 45° and° offset have a zero value and is shown in the formula as -45° and -90° respectively or -135° when combined (for 45° exit only).



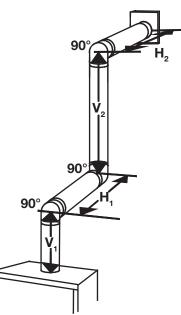
For vent configurations requiring more than one 90° elbow, the following formulas apply:

Formula 1: $H_{\tau} \le V_{\tau}$ Formula 2: $H_{\tau} + V_{\tau} \le 40$ feet (12.2m)

Example:

 $\begin{array}{l} \mathbf{V_1} = 3 \ \text{FT} \ (0.9\text{m}) \\ \mathbf{V_2} = 8 \ \text{FT} \ (2.4\text{m}) \\ \mathbf{V_T} = \mathbf{V_1} + \mathbf{V_2} = 3 \ \text{FT} \ (0.9\text{m} \) + 8 \ \text{FT} \ (2.4\text{m}) = 11 \ \text{FT} \ (3.4\text{m}) \\ \mathbf{H_1} = 2.5 \ \text{FT} \ (0.8\text{m}) \\ \mathbf{H_2} = 2 \ \text{FT} \ (0.8\text{m}) \\ \mathbf{H_3} = \mathbf{H_1} + \mathbf{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_6} = .03 \ (\text{three } 90^\circ \ \text{elbows} - 90^\circ) = .03 \ (270^\circ - 90^\circ) = 5.4 \ \text{FT} \ (1.7\text{m}) \\ \mathbf{H_T} = \mathbf{H_8} + \mathbf{H_6} = 4.5 \ \text{FT} \ (1.4\text{m}) + 5.4 \ \text{FT} \ (1.6\text{m}) = 9.9 \ \text{FT} \ (3\text{m}) \\ \mathbf{H_T} + \mathbf{V_T} = 9.9 \ \text{FT} \ (3\text{m}) + 11 \ \text{FT} \ (3.4\text{m}) = 20.9 \ \text{FT} \ (6.4\text{m}) \end{array}$

Formula 1:	H _τ ≤ V _τ 9.9 FT (3m) ≤ 11 FT (3.4m)
Formula 2:	H _T + V _T ≤ 40 FT (12.2m) 20.9 FT (6.4m) ≤ 40 FT (12.2m)



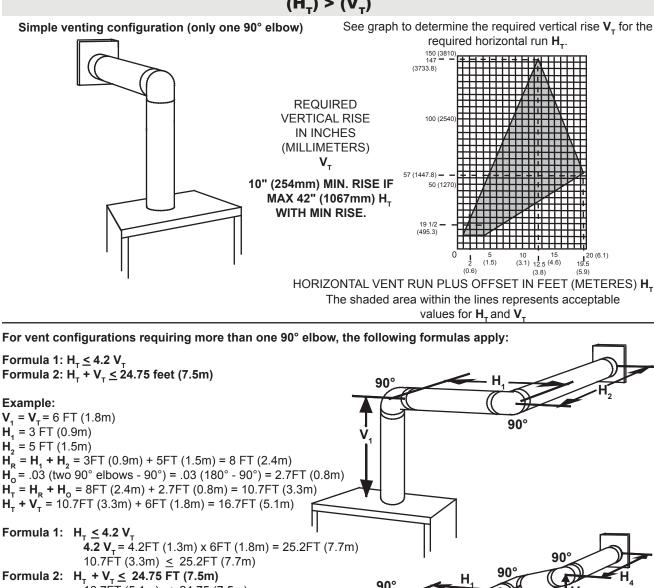
Since both formulas are met, this vent configuration is acceptable.

20 (6.1) 19.5

(5.9)

(3.8)

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



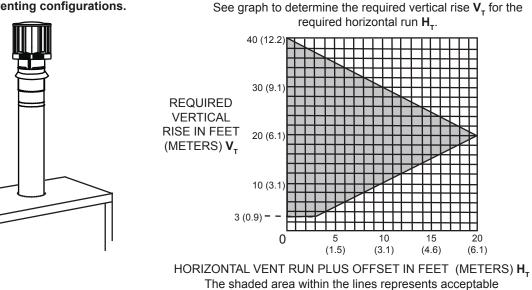
90° Formula 2: $H_{\tau} + V_{\tau} \le 24.75 \text{ FT} (7.5 \text{m})$ 90 16.7FT (5.1m) < 24.75 (7.5m) Since both formulas are met, this vent configuration is acceptable. Example: 90° V, = 4 FT (1.2m) $V_{2} = 1.5 \text{ FT} (0.5 \text{m})$ $V_{T} = V_{4} + V_{5} = 4FT (1.2m) + 1.5FT (0.5m) = 5.5 FT (1.7m)$ $H_{1} = 2 FT (0.6m)$ $H_{2} = 1 \text{ FT} (0.3 \text{m})$ **H**, = 1 FT (0.3m) $H_{1} = 1.5 \text{ FT} (0.5 \text{m})$ $H_{R}^{'} = H_{1} + H_{2} + H_{3} + H_{4} = 2FT (0.6m) + 1FT (0.3m) + 1FT (0.3m) + 1.5FT (0.5m) = 5.5 FT (1.7m)$ $H_0 = .03$ (four 90° elbows - 90°) = .03 (360° - 90°) = 8.1 FT (2.5m) $H_{T} = H_{R} + H_{0} = 5.5 \text{ FT} (1.7\text{m}) + 8.1 \text{ FT} (2.5\text{m}) = 13.6 \text{ FT} (4.2\text{m})$ $H_{T} + V_{T} = 13.6 \text{ FT} (4.2\text{m}) + 5.5 \text{ FT} (1.7\text{m}) = 19.1 \text{ FT} (5.8\text{m})$ Formula 1: $H_{-} \leq 4.2 V_{-}$

	4.2 V_{T} = 4.2 FT (1.3m) x 5.5 FT(1.7m) = 23.1 FT (7m)
	13.6 FT (4.2m) ≤ 23.1 FT (7m)
Formula 2:	H _⊤ + V _⊤ ≤ 24.75 FT (7.5m)
	19.1FT (5.8m) <u><</u> 24.75 FT (7.5m)
Since both formu	las are met, this vent configuration is acceptable.

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$(H_{\tau}) \leq (V_{\tau})$

Simple venting configurations.



values for H_T and V_T

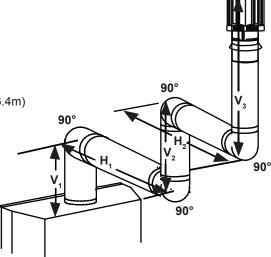
For vent configurations requiring one or more 90° elbows the following formulas apply:

Formula 1: $H_{T} \leq V_{T}$ Formula 2: $H_{\tau}^{+} + V_{\tau}^{+} \le 40$ feet (12.2m)

Example:

 $V_1 = 5 FT (1.5m)$ $V_2 = 6 FT (1.8m)$ $V_{3} = 10 \text{ FT} (3.1 \text{m})$ $V_{T} = V_{1} + V_{2} + V_{3} = 5FT (1.5m) + 6FT (1.8m) + 10FT (3.1m) = 21FT (6.4m)$ H₁ = 8 FT (2.4m) $H_2 = 2.5 \text{ FT} (0.8 \text{m})$ $H_{R}^{-} = H_{1} + H_{2} = 8FT (2.4m) + 2.5FT (0.8m) = 10.5 FT (3.2m)$ $H_0^{r} = .03$ (four 90° elbows - 90°) = .03 (360° - 90°) = 8.1 FT (2.5m) $H_{T} = H_{R} + H_{o} = 10.5FT (3.2m) + 8.1FT (2.5m) = 18.6FT (5.7m)$ $H_{T} + V_{T} = 18.6FT (5.7m) + 21FT (6.4m) = 39.6FT (12.1m)$

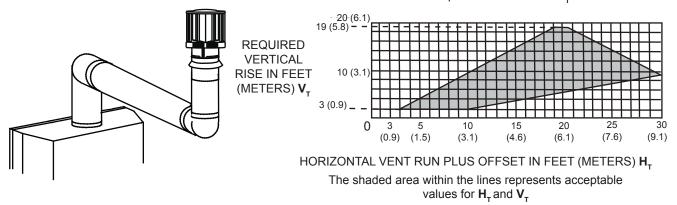
Formula 1:	$H_{T} \leq V_{T}$
	18.6FT (5.7m) < 21FT (6.4m)
Formula 2:	H _⊤ + V _⊤ ≤ 40 FT (12.19m)
	39.6FT (12.1m) ≤ 40FT (12.2m)
Since both form	ulas are met, this vent configuration is acceptable.



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

Simple venting configurations.

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



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

Formula 1: $H_{\tau} \le 3V_{\tau}$ Formula 2: $H_{\tau} + V_{\tau} \le 40$ feet (12.2m)

Example:

V, = 2 FT (0.6m) $V_{2} = 1 \text{ FT} (0.3 \text{m})$ **V**₃ = 1.5 FT (0.5m) $V_{T} = V_{1} + V_{2} + V_{3} = 2FT (0.6m) + 1FT (0.3m) + 1.5FT (0.5m) = 4.5FT (1.4m)$ 90° $H_{1} = 6 FT (1.8m)$ 90° $H_2 = 2 FT (0.6m)$ H, $\mathbf{H}_{R}^{-} = \mathbf{H}_{1} + \mathbf{H}_{2} = 6FT (1.8m) + 2FT (0.6m) = 8 FT (2.4m)$ $H_0 = .03$ (four 90° elbows - 90°) H₁ = .03 (360° - 90°) = 8.1 FT (2.5m) 90° $H_{T} = H_{R} + H_{o} = 8FT (2.4m) + 8.1FT (2.5m) = 16.1FT (4.9m)$ $H_{T} + V_{T} = 16.1FT (4.9m) + 4.5FT (1.4m) = 20.6 FT (6.3m)$ 90° Formula 1: $H_{\tau} \leq 3V_{\tau}$ 3V, = 3FT (0.9m) x 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>unacceptable</u>.

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

 $20.6FT(6.3m) \le 40(12.2m)$

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.

■ 3.0 installation

WARNING

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

Horizontal runs may have a 0" (0mm) rise per foot in all cases using Wolf Steel, Metal-Fab, Simpson Dura-Vent, Selkirk Direct Temp or BDM rigid vent components and Wolf Steel flexible vent components. For optimum performance it is recommended that all horizontal runs have a minimum 1/4" (6.3mm) rise per foot using flexible or rigid venting. For safe and proper operation of the appliance, follow the venting instructions exactly.

installation EN

3.1 horizontal installation

WARNING

- The firestop assembly must be installed with the vent shield to the top.
- Terminals must not be recessed into a wall or siding more than the depth of the return flange of the mounting plate.
- The vent shield must be fixed in place by fastening the extended vent shield to the bend tabs using the supplied fasteners.

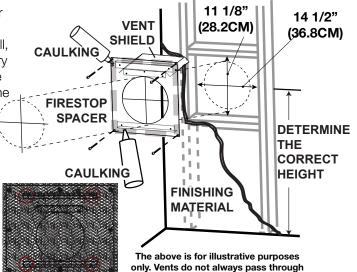
This application occurs when venting through an exterior wall. Having determined the correct height for the air terminal location, cut and frame a hole in the exterior wall, as illustrated, to accommodate the firestop assembly. Dry fit the firestop assembly before proceeding to ensure the brackets on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

The vent shield must be installed to the full depth of the combustible wall. The length of the vent shield may cut shorter for combustible walls that less than 8 1/2" (216mm) thick.

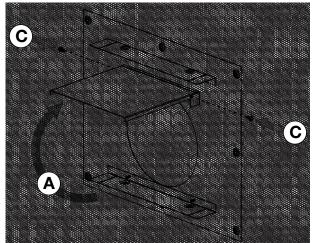
note:

Bend the tabs for reduced side clearances or move the shield for reduced top clearances (dependent on specific appliance clearances). Do not fill the air space between the firestop spacer and the exterior wall with any type of insulating material (i.e. spray foam).

- A. Fold the vent shield up so that it is perpendicular to the spacer plate.
- B. Bend the tabs located on either side of the vent shield so that they are just shy of 90° to the spacer plate.
- C. On both sides of the firestop, fasten the (W570-0018) screws through the clearance holes in the bend tabs and threaded into the holes in the vent shield.
- D. Apply a bead of caulking around the outer edge of the firestop assembly.
- E. Screw the firestop onto the wall/framing, using 4 screws.
- F. Once the vent pipe is installed in its final position, apply red RTV silicone (W573-0002) (not supplied) between the pipe and the firestop.







note:

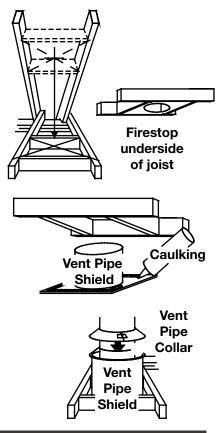
Where the venting passes horizontally through a wall, you **MUST** use a Wolf Steel firestop for all rigid and flex vent systems. The gap between the outside diameter of the vent and the firestop **MUST** be completely sealed with high temperature RTV. When using flex venting, use firestop assembly W010-3440 (not supplied). When using rigid venting, use firestop assembly 4DHFSN (not supplied).

installation

3.1.1 vertical installation

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

- 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.
- B. Apply a bead of caulking (not supplied) to the framework or to the Wolf Steel vent pipe shield plate or equivalent (in the case of a finished ceiling), and secure over the opening in the ceiling. A firestop must be placed on the bottom of each framed opening in a roof or ceiling that the venting system passes through. Apply a bead of caulking all around and place a firestop spacer over the vent shield to restrict cold air from being drawn into the room or around the fireplace. Ensure that both spacer and shield maintain the required clearance to combustibles. Once the vent pipe is installed in its final position, apply red RTV silicone (W573-0002) (not supplied) between the pipe and the firestop assembly.
- 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.



note:

Where the venting passes vertically through a wall you use **MUST** use a Wolf Steel firestop for all rigid and flex vent systems. The gap between the outside diameter of the vent and the firestop **MUST** be completely sealed with high temperature RTV.

For 4"/7" appliances:

When using flex venting, use firestop assembly W500-0292 (not supplied). When using rigid venting, use firestop assembly 4DFS (not supplied).

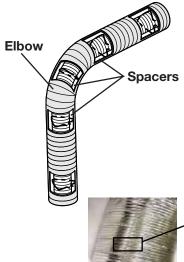
For 5"/8" appliances:

When using flex venting, use firestop assembly W500-0028 (not supplied). When using rigid venting, use firestop assembly 5DFS (not supplied).

3.2 using flexible or rigid venting components

A WARNING

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



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

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

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

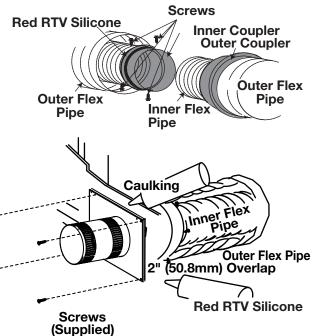
Use only approved flexible vent pipe kits marked:



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

3.3 horizontal air terminal installation

- A. Stretch the inner flex pipe to the required length taking into account the additional length needed for the finished wall surface. Apply a heavy bead of the red RTV silicone (W573-0002) (not supplied) to the inner sleeve of the air terminal. Slip the vent pipe a minimum of 2" (50.8mm) over the inner sleeve of the air terminal and secure with a minimum of 3 screws.
- B. Using the outer flex pipe, slide over the outer combustion air sleeve of the air terminal and secure with a minimum of 3 screws. Seal using red RTV silicone (W573-0002) (not supplied).
- 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).
- D. If more vent pipe needs to be used to reach the fireplace, couple them together, as illustrated. The vent system must be supported approximately every 3 feet (0.9m) for both vertical and horizontal runs. Use non-combustible strapping to maintain the minimum clearance to combustibles.



E. **Stove Appliances Only:** From inside the house, using Red RTV Silicone (W573-0002) (not supplied), seal between the vent pipe and the firestop. Then slide the black trim collar over the vent pipe up to the firestop.

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

installation ΕN

3.4 vertical air terminal installation

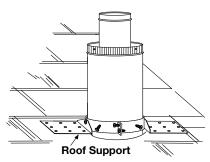
WARNING

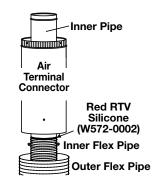
Maintain a minimum 2" (51mm) space between the air inlet base and the storm collar.

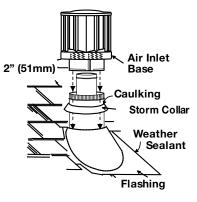
note:

Fastening hardware provided with appropriate roof terminal and liner kits.

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







In

3.5 appliance vent connection

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

3.6 horizontal air terminal installation

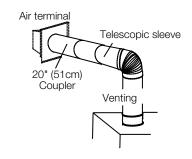
- **A.** Move the appliance into position. Measure the vent length required between terminal and appliance taking into account the additional length needed for the finished wall surface and any 2" (50.8mm) overlaps between venting components.
- **B.** Apply a heavy bead of Mill Pac sealant (W573-0007) (not supplied) to the outer edge of the inner collar of the appliance. Attach the first inner rigid pipe component and secure using a minimum of three screws. Repeat using the outer rigid pipe. Seal using Red RTV Silicone (W573-0002) (not supplied).
- **C.** Insert the vent pipes through the firestop maintaining the required clearance to combustibles. Apply a heavy bead of Red RTV Silicone (W573-0002) (not supplied) to both the inner sleeve and outer sleeve of the air terminal. Slide the terminal sleeves into the rigid pipes a minimum of 1 1/4". Holding the air terminal (lettering in an upright, readable position), secure to the exterior wall and make weather tight by sealing with caulking (not supplied).

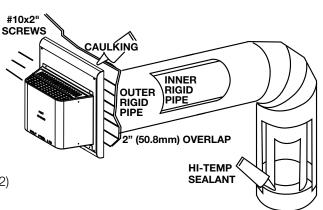
The air terminal mounting plate may be recessed into the exterior wall or siding no greater than the depth of the return flange.

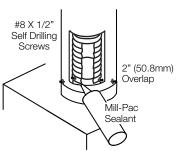
3.7 extended horizontal air terminal installation

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

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







WARNING

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

note:

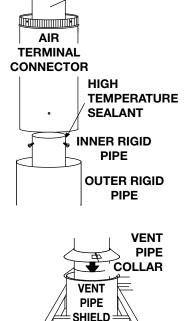
Fastening hardware provided with appropriate roof terminal and liner kits.

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

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

TOP AND REAR VENT APPLICATIONS:

- **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" (51mm) 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.
- **E.** Thread the air terminal connector / vent pipe assembly down through the roof support and attach, ensuring that a minimum 16" (40.6cm)of air terminal connector will penetrate the roof when fastened. If the attic space is tight, we recommend threading the Wolf Steel vent pipe collar or equivalent loosely onto the air terminal connector / vent pipe assembly as it is passed through the attic. The air terminal connector must be positioned vertically and plumb.
- **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" (10.1mm) more in all ensure to the root. **Do NOT noil through the**



INNER PIPE

(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" (51mm) above the flashing. Install the storm collar around the air terminal and slide down to the caulking. Tighten to ensure that a weather-tight seal between the air terminal connector and the collar is achieved.
- **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 elbow** for <u>rear vent applications</u> or the **inner collar for** <u>top vent applications</u>. Pull the telescopic sleeve a minimum of 2" (51mm) onto the elbow. Secure with three screws. Repeat with the outer telescopic sleeve.

TOP VENT APPLICATIONS ONLY:

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

WARNING

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

Installation and servicing to be done by a qualified installer.

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

IN 5.0 framing

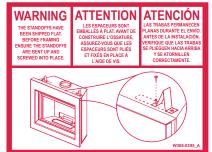
note:

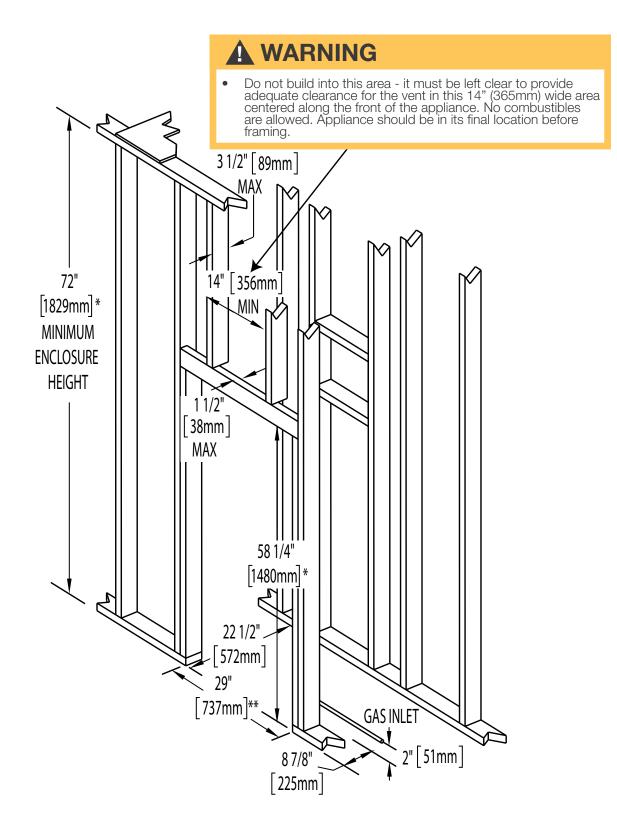
When using optional finishing accessories, the framing dimensions and finishing materials may differ from what is outlined in the section below; refer to the leaflet instructions supplied in the accessory kit for specific framing and finishing specifications.

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

It is best to frame your appliance after it is positioned and the vent system is installed. Use 2x4's and frame to local building codes.

For convenience, the standoffs have been shipped flat. Before framing, ensure the standoffs are opened and screwed in place. It is not necessary to install a hearth extension, but the appliance should be raised to be flush with either the hearth or the finished floor.





* Allow for finished floor and hearth thickness when setting these dimensions

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

In Framing

5.1 minimum clearance to combustibles

Maintain these minimum clearances to combustibles from appliance and vent surfaces Non-combustible appliance finishing:

- 4" (102mm) from the sides of the appliance opening
- 22 3/8" (568mm) to the top of the appliance opening

Combustible appliance finishing:

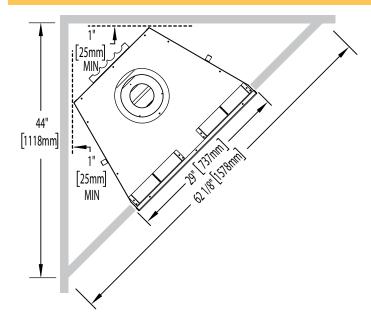
- 0" (0mm) to rear
- 2" (51mm) all around the vent pipe*
- 22 1/2" (572mm) recessed depth
- 64" (1626mm) from the bottom of the appliance to the ceiling
- 72" (1829mm) from bottom of appliance to the enclosure top

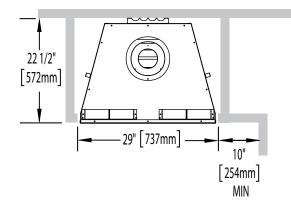
*HORIZONTAL VENT SECTIONS: A minimum clearance of 2" (51mm) all around the vent pipe on all horizontal runs to combustibles is required.

*VERTICAL VENT SECTIONS: A minimum of 1" (25mm) all around the vent pipe on all vertical runs to combustibles is required except for clearances in appliance enclosures.

WARNING

- Minimum clearance to combustibles must be maintained or a serious fire hazard could result.
- When constructing the enclosure, allow for finishing thickness to maintain clearances. Framing or finishing material closer than the minimums listed must be constructed entirely of non-combustible materials. Materials consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof are suitable. Materials that are reported as passing ASTM E136, standard test method for behaviour of materials in a vertical tube furnace at 750°C and UL763 shall be considered non-combustible materials. Never obstruct the front opening of the appliance.



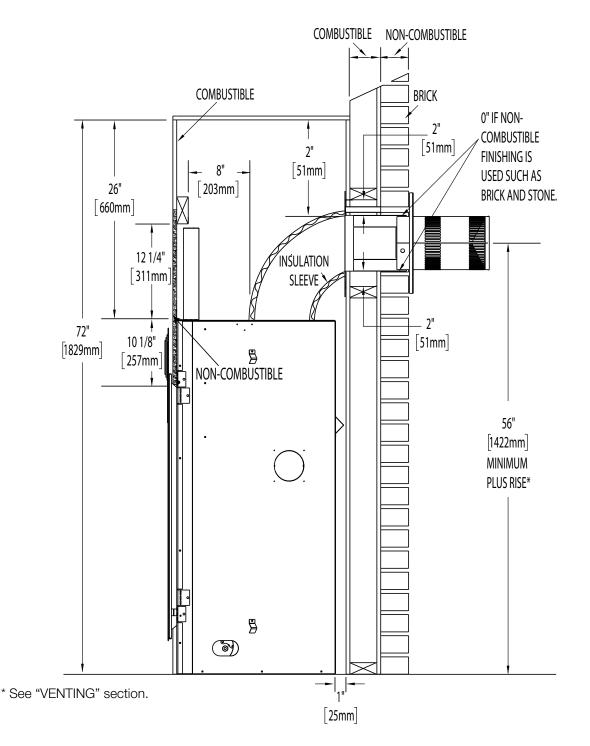


5.2 minimum clearance to combustible enclosures

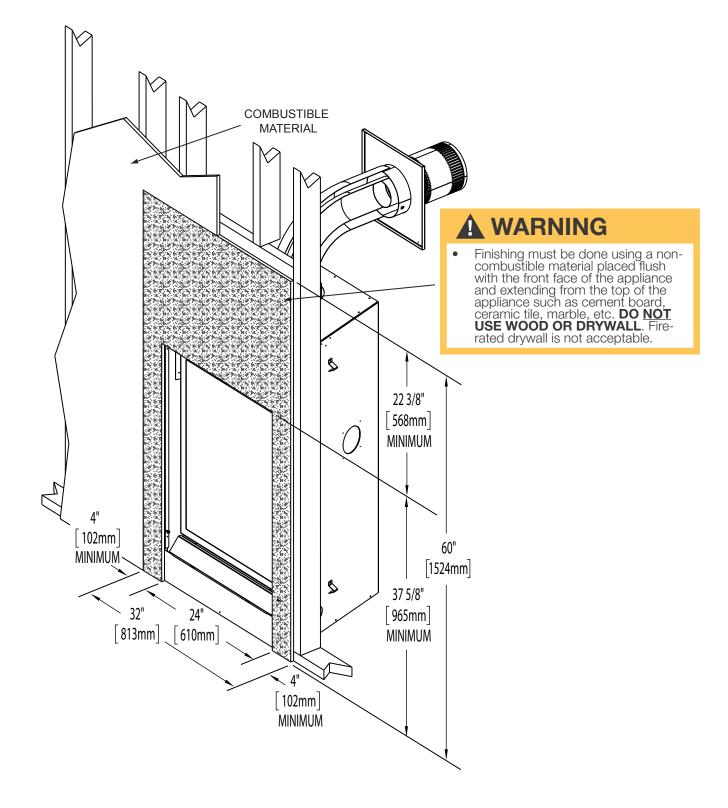
A WARNING

- Risk of fire!
- The front of the appliance must be finished with any non-combustible materials such as brick, marble, granite, etc. as long as the finishing materials does not go below the specified dimension as illustrated. As an alternative, you can finish the appliance with drywall. See diagram below for details. Facing and/or finishing material must never overhang into the appliance opening. The appliance requires a minimum enclosure height measured from the appliance base. .
- •

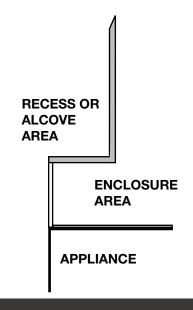
IMPORTANT: The GD82 requires a minimum inside enclosure height of 72" (1829mm), measured from the bottom of the appliance. For temperature requirements, this area must be left unobstructed.







5.3 alcove clearances



note:

Recesses or alcoves above the appliance **must** be made with non-combustible material and regular minimum clearances, as defined for combustible materials, must still be applied.

The recesses or alcoves can be made as deep as desired provided the minimum clearances to combustibles are maintained.

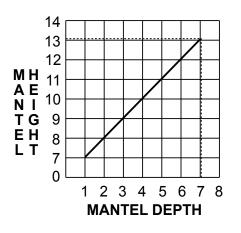
The minimum enclosure volume must be increased by no less than the volume of the recess. This adjustment can be made by increasing any or all of the height, width and depth of the enclosure.

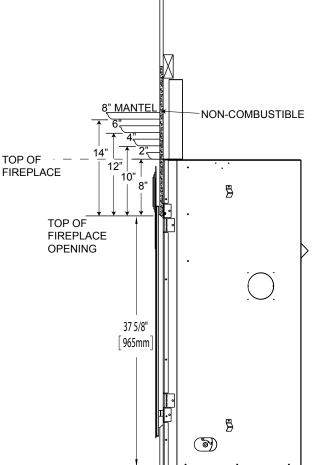
FN framing

5.4 minimum mantel clearances

- 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.





- 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. Do not operate appliance with glass removed, cracked, or scratched.
- Facing and/or finishing material must never overhang into the appliance opening.
- The glass door assembly is a safety device designed to pivot forward when relieving excess pressure that might occur. Finishing or other materials must not be located in the opening surrounding the door as this will interfere with the doors ability to relieve pressure.
- If applicable, 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.

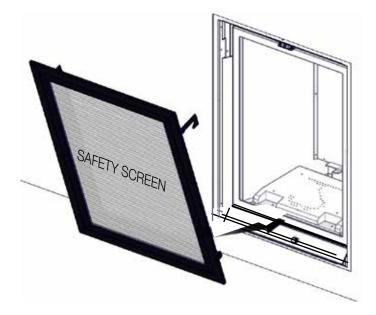
6.1 safety screen removal / installation

WARNING

- Glass may be hot. Do not touch glass until cooled.
- If equipped with door latches that are part of a safety system, they 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, louvre openings, operation of louvres, or doors/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 must be installed.

Lift the safety screen front off the shoulder screws, tilt the top forward and remove from the appliance.

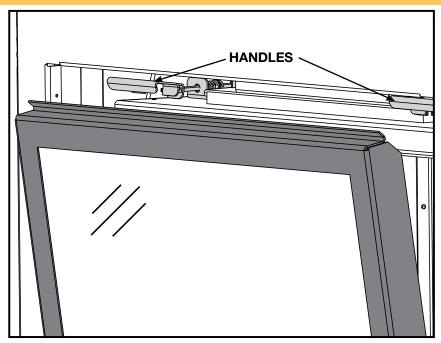


finishing6.2 door removal / installation

- Glass may be hot. Do not touch glass until cooled.
- If equipped with door latches that are part of a safety system, they 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, louvre openings, operation of louvres, or doors/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.

Before the glass door can be removed, the safety screen must be removed, refer to "SAFETY SCREEN REMOVAL / INSTALLATION" section.

The glass door is secured to the top front edge of the firebox with two handles. Pull the handles of the latches forward, then lift the handles 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.



finishing EN

6.3 log shipping bracket

Before installing the logs, you must first remove the log shipping brackets. Lift up to remove.

6.4 decorative brick panel installation

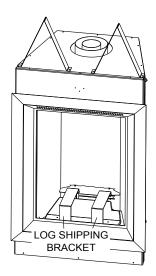
Decorative panels may discolor after time.

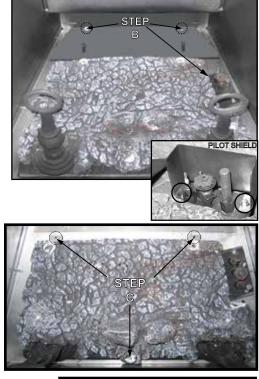
- A. Carefully remove the glass door and all logs see "FINISHING" section.
- **B.** Remove the two screws holding the front portion of the rear air deflector. Remove the pilot shield by removing the two screws as illustrated.
- **C.** Remove the 3 screws securing the burner down and carefully remove the burner. Do not remove the screws and washers securing the fibre burner cover.
- **D.** Install the right brick panel by sliding the bottom edge of the panel down the right firebox side then pivot the top edge of the panel into place against the firebox wall. Hold in place with the brick retainers.
- **E.** Rest the bottom edge of the rear panel on top of the rear portion of the air deflector at the back of the firebox and push into place. The rear panel is held in place when both side panels are in position.
- **F.** Install the left brick panel using the same method described in step 4.
- **G.** Replace the burner, air deflector, logs and glass door.

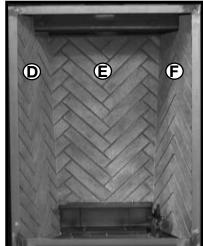
note:

Due to the brittle material of the bricks, care must be taken not to bend or force them into place. Refractory panels require a 24-hour curing period on a low flame.









HERRINGBONE PATTERN ILLUSTRATED

finishing6.5 log placement

- Failure to position the logs in accordance with these diagrams or failure to use only logs specifically approved with this appliance may result in property damage or personal injury.
- Logs must be placed in their exact location in the appliance. Do not modify the proper log positions, since appliance may not function properly and delayed ignition may occur.
- The logs are fragile and should be bandled with care
- The logs are fragile and should be handled with care.

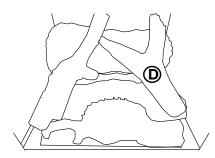
The individual logs can be easily identified by the numbers cast on the underside of each log. **Phazer™** logs and glowing embers exclusive to Wolf Steel Ltd., provide a unique and realistic glowing effect that is different in every installation. Take time to carefully position the glowing embers for a maximum glowing effect. During the initial use of the appliance, log colours may vary. During the initial use of the appliance the colours will become more uniform as colour pigments burn in during the heat activated curing process.



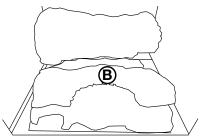
Decorative brick panels must be installed before the logs. See installation instructions supplied with the panel kit.



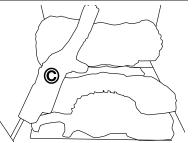
A. Place the rear log #1 onto the locating studs along the back edge of the PHAZERAMIC[™] burner.



D. Place log #4 with the charred branch facing inward. Position the pin in log #4 into the hole on the right of log #2.

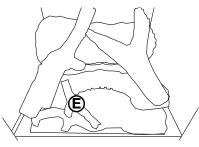


B. Position log #2 in the 2 locating holes behind the andirons.



Place log #3, with the charred branch facing inward. Position the pin in log #3 into the hole on the left of the log #2.

C.



E. Place log #5 so the locating hole on the bottom of the log sits on the screw and spacer.

F. Finally, align the

Finally, align the rectangular peg on log #6 with the notch on the front right portion of the burner.

6.6 glowing embers

Glowing embers are NOT recommended. The burner has been designed to achieve maximum glow without embers.

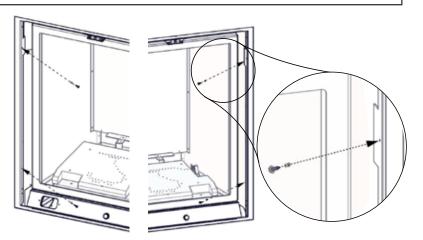
finishing EN

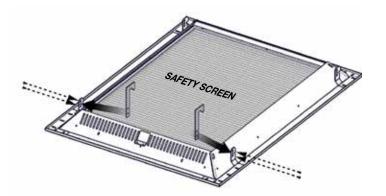
6.7 AFK82/RFK82 facing kit installation

- A. Attach screw and spacer as illustrated to the top of both sides of the front housing.
- **B.** Attach the two hooks as illustrated using the screws supplied. (The hooks must be installed on the inside of the bracket). These hooks will catch the front in the event the latch disengages.
- **C.** Lift and hook the faceplate over the spacers, starting with the bottom then pivoting the top into place. Push the top of the faceplate so the male catch engages the female catch.
- **D.** The tension of the catch is easily adjusted by using a slotted screwdriver on the set screw of the female catch.

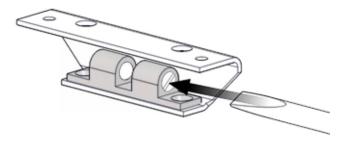
note:

A 1/4" gap must be maintained between the front and all finishing material due to regular removal.



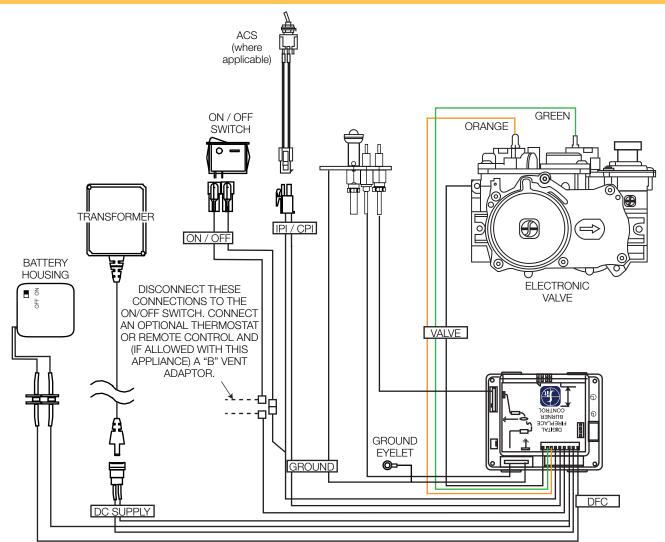






7.0 wiring diagram / electrical information WARNING

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



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

note:

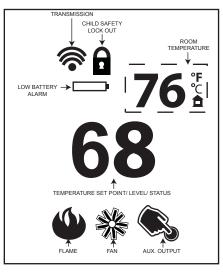
This appliance comes equipped with a battery back-up. If this backup is used, install 4 'AA' batteries (not supplied) into the holder and connect to the wire harness. Connect the battery holder to the wire harness before using the appliance. Place near the DFC board. If the backup is used, it must be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

	Legend			
DFC	Digital Fireplace Control			
DC	Direct Current			
IPI	IPI Intermittent Pilot Ignition			
CPI	Continuous Pilot Ignition (with 7-day timer)			
ACS	Anti-Condensation Switch (IPI / CPI)			

8.0 operation

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

8.1 general transmitter layout



8.2 appliance operation

A. Install 4 AA batteries into the receiver battery bay as indicated on the battery cover (+/-). (Only required as back up to household electricity).

note:

Do <u>NOT</u> connect this appliance to a 9V battery, the connection provided with this appliance should only be used to connect the 6V battery pack, supplied.

- B. Place the 3 position slider switch of the receiver in the "Remote" position.
- C. To synchronize the receiver to the transmitter, insert the end of a paper clip, or other similar object into the hole marked "PRG" on the receiver front cover. The receiver will "beep" three (3) times to indicate that it is ready to synchronize with the transmitter.
- D. Install the 3 AAA batteries in the transmitter battery bay, located on the base of the transmitter. With the batteries installed in the transmitter, push the "ON" button. The receiver will "beep" four (4) times to indicate the transmitter's command is accepted and set to the particular code of that transmitter. The system is now initialized.

EN operation

8.3 hand held remote operations

A. Press the **on / off** key on the transmitter. The transmitter display will show all active icons on the screen. A single "beep" from the receiver will confirm reception of the command.



Blue LCD Display On / Off Key Temperature Key Up / Down Arrow Key

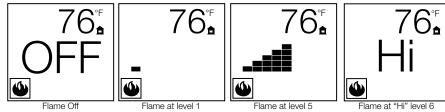
8.4 temperature display

- A. With the system in the **off** position, press the **temperature key** and the **mode key** at the same time to change from degrees °F to °C.
- B. Look at the LCD screen on the transmitter to verify that a °C or °F is visible to the right of the room temperature display.



The remote control has six (6) flame levels. With the system on and the flame level at the maximum, press the **down arrow key** once and it will reduce the flame height by one step until the flame is turned off.

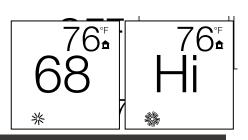
The **up arrow key** will increase the flame height each time it is pressed. If the **up arrow key** pressed while the system is on but the flame is off, the flame will come on at the high position A single "beep" will confirm reception of the command.



8.6 flame speed

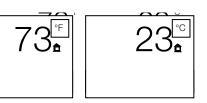
If the appliance is equipped with a hot air circulating fan, the speed of the fan can be controlled by the remote system. The fan speed can be adjusted through six (6) speeds.

- A. Use the **mode key** to guide you to the fan control icon.
- B. Use the **up/down arrow keys** to turn **on/off** or adjust the fan speed. A single "beep" will confirm reception of the command.



note:

When the desired blower speed is selected, the blower will automatically come on 5 minutes after the main burner has been turned on and remain on twelve minutes after it has been turned off.



Mode Key

8.7 child proof function

This function will lock the keys to avoid unsupervised operation.

- A. Press the mode and up keys at the same time.
- B. To de-activate this function, press the **mode and up keys** at the same time.

8.8 remote auxiliary outlet

The auxiliary function controls the **AUX** power outlet on the control module which controls the **Night Light™**.

- A. Use the **mode key** to guide you to the **AUX** icon.
- B. Pressing the **up arrow key** will activate the **Night Light™**.
- C. Pressing the **down arrow key** will turn the **Night Light™** off. A single "beep" will confirm the reception of the command.

8.9 battery back-up / manual by-pass

The life span of the remote batteries depends on various factors: quality of the batteries, the number of ignitions, etc.

When the transmitter batteries are low, a battery icon will appear on the LCD display before all battery power is lost. When the batteries are replaced, this icon will disappear.

When the receiver batteries are low, no "beep" will be emitted from the receiver when it receives an **on/off** command. This in an alert for the receiver that there's low battery.

When the batteries are replaced the "beep" will be emitted from the receiver when the on/off key is pressed.

If the batteries of the receiver or transmitter are low, the appliance can be turned on manually by sliding the three position slider switch on the receiver to the **on** position. This will bypass the remote control feature and the appliance main burner will come on if the gas valve is in the **on** position.

8.10 in the event of a power failure

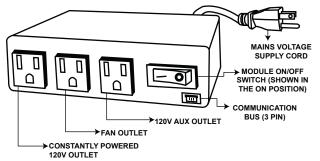
If the receiver is equipped with batteries they will enable flame height control or **on/off** function to control the appliance during a power failure. Blower and **Night Light™** operation is not possible. Refer to **"appliance operation"** section when communications between receiver and transmitter have been lost. The receiver will emit a "beep" sound to confirm programming has been successful once power is restored. During a power failure, if the appliance was on, the flame height will stay at the setting prior to the failure. If off when the failure occurs and then turned on, the flame height will come on at **"Hi"**. The flame height can then be controlled by the remote.

8.11 fan control module

Control module offers the added ability to control the fan speed through six (6) speeds, a remotely actuated 120V AUX outlet for the NIGHT LIGHT[™] and a constantly powered 120V outlet.

note:

Control module ON/OFF switch should always be in the "ON" position. If for any reason the module is turned "OFF", the components plugged into the module won't have power.



8.12 timed blower

Your remote system may have a built in timer (in thermostat mode) that enables the blower (if equipped) to cycle on and off automatically when the burner turns on and off. With the remote control fan speed preset at the preferred speed, the blower will come on approximately 5 minutes after the main burner comes on and will shut off approximately 12 minutes after the burner shuts off.

This time delay is designed to maximize the blower distribution of heated air.

If at any time the burner re-ignites before the twelve minutes are over, the fan will continue to run.

note:

At any time in the sequence, the blower (if equipped) can be manually turned on/off using the remote control.



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9.0 operating instructions ΕN

WARNING

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

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

FOR YOUR SAFETY READ BEFORE LIGHTING

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

WHAT TO DO IF YOU SMELL GAS

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

LIGHTING INSTRUCTIONS

note:

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

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

TO TURN OFF GAS

- **A.** Set thermostat to lowest setting, if equipped.
- **B.** Turn off the remote wall switch to the appliance.
- **C.** Turn off all electric power to the appliance if service is to be performed.
- **D.** Turn manual shutoff valve clockwise to the "OFF" positon. Do not force.



operating instructions

9.1 pilot on demand

This appliance is equipped with an "On Demand" intermittent pilot ignition system (IPI) which <u>also includes</u> a continuous pilot ignition (CPI) mode with an integrated seven day timer. This system minimizes your appliance's carbon footprint as well as reducing its annual fuel consumption and operating costs.

In IPI mode, the pilot will ignite prior to the main burner, when the appliance is turned on using a switch, remote or from a call for heat with the thermostat (if equipped). Once the appliance is turned off (or the call for heat is satisfied), the main burner <u>and</u> pilot flame will shut down.

The continuous (CPI) mode is intended to enhance the performance of the appliance during the startup phase in colder climates and extreme weather by keeping the system warm when the main burner is not in use. However, the timer feature provides the convenience that the appliance automatically switches off the pilot when the appliance has not been used for seven days to save unnecessary fuel consumption.

When the CPI function is turned on, the pilot will <u>remain on</u> after the main burner is turned off. A timer will then begin the countdown for approximately seven days before shutting off the pilot if the appliance is not used. This countdown will reset anytime the appliance main burner is used. Therefore, if the appliance is regularly used day to day, the pilot will remain on. However, this system does not require the user to remember to turn the pilot off as summer approaches and avoids unnecessary fuel consumption while still readily turned back on when the cold weather returns.

Your appliance may be equipped with an ACS or remote control device which enables you to select IPI or CPI modes.

If your appliance is equipped with an ACS switch, it has the option to change modes. If installed with the blue wire facing up, flipping the switch UP turns on the continuous pilot with timer and flipping the switch DOWN turns on the intermittent pilot ignition. If installed with the white wire facing up, the opposite is true.



If your appliance is equipped with a remote control device capable of selecting IPI / CPI modes, refer to remote operating instructions.

In order to start your pilot, turning the main burner on with the switch, remote or thermostat and then turning it off will reactivate the continuous pilot mode and reset the seven day timer.

For further information, refer to www.napoleon.com/pilotondemand.

10.0 adjustments

10.1 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 the "**replacement parts**" section of the owner's manual 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.

10.2 pilot burner adjustment

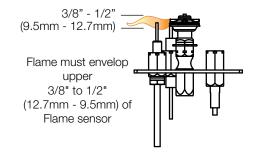
Adjust the pilot screw to provide properly sized flame. Turn in a clockwise direction to reduce the gas flow.

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 pressure with main burner operating on "HI".

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

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

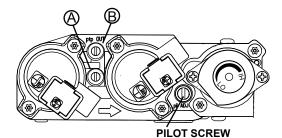


Leak test with a soap and water solution.

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

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

*Maximum inlet pressure not to exceed 13"



adjustments EN

10.3 venturi adjustment

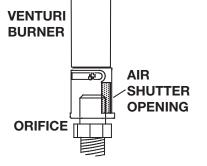
note:

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

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

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

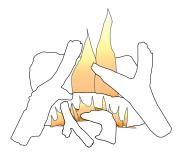
It is important that the orifice is securely inserted into the venturi.

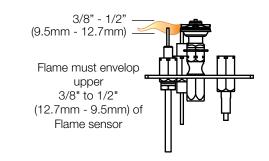


AIR SH	IUTTER OPENING
Р	1/2" (13mm)
NG	1/16" (1.6mm)

10.4 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.





11.0 maintenance

WARNING

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

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

note:

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

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

maintenance EN

11.1 burner and valve replacement

A. Remove safety screen, refer to "SAFETY SCREEN REMOVAL / INSTALLATION" section.

B. Optional Front Removal.

Pull on the top of the optional front away from the appliance until the male portion of the latch disengages. Tilt forward slightly and lift from the 4 shoulder screws (if installed).

C. Control Panel Removal

Tilt control panel away from the door and lift from slots.

- **D.** Turn Power and Gas off to the appliance.
- E. Door Removal. See "DOOR REMOVAL" section.

F. Burner Removal

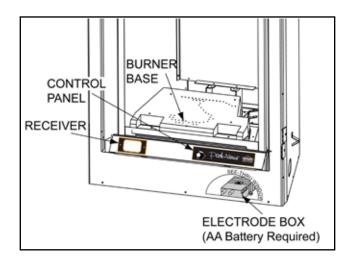
Start by removing the logs being careful since the logs may still be warm. Remove the 2 screws holding the air deflector then remove the 3 screws holding the burner. Lift burner from firebox.



G. Remove the 5 screws securing the burner base. Once the gas has been disconnected, the valve train assembly will lift out. Service components as required.

11.2 spark module battery installation

- A. Remove optional front, see "AFK82/RFK82 FACING KIT INSTALLATION" section.
- **B.** Tilt the control panel forward and remove allowing access to the electrode box which is screwed to the base of the firebox.
- **C.** Pull back on the battery compartment door latch and remove.
- D. Install battery.
- E. Reinstall battery compartment and control doors.



maintenance ΕN

blower replacement 11.3

WARNING

Be careful not to tear the burner train gasket. A replacement gasket can be ordered from your local authorized dealer.

RAII

Your appliance comes equipped with a heat circulating blower. The blower is pre-wired and is controlled by the remote control supplied with the appliance.

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.

- Α. Turn off the power to the appliance.
- В. Turn off the gas valve.
- С. Remove the glass door, logs, rear log supports, brick panels, air deflector, burner assembly, panel support, panel support bracket.
- D. The blower mounting plate can now be removed. Remove the four screws that secure the plate to the firebox base.
- Ε. The blower is secured to the firebox. Disconnect the wire connectors before attempting to remove the blower from the firebox.
- **F**. Remove the two screws securing the blower and lift through blower access opening.

note:

When re-installing the replacement blower, it will be necessary to replace the gasket (W290-0104) on the blower mounting plate.

11.4 night light[™] replacement

This appliance comes equipped with our "Night Light".

If in the event the lamp or lens needs to be replaced, follow these instructions. Disconnect the two wire leads at the wire nut. Remove the four screws securing the accent light assembly from the relief door. Disassemble the light and the lamp now can be accessed.

note:

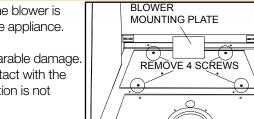
Do not handle the lamp (bulb) with bare fingers. Protect them with a clean, dry cloth.

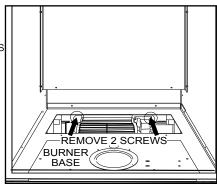
The lamp will pull straight out of the socket. Replace with Wolf Steel parts only, as lamp and lens are special "high temperature" products. When re-installing, ensure integrity of gasket seal.

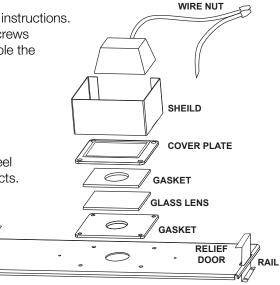
THE FIREBOX MUST BE SEALED.

When re-assembling the light assembly, care must be taken with all gaskets.

"Light Leakage" from above the cast doors may be noticed. The holes in the lamp housing are necessary for ventilation and must not be covered.







11.5 glass / door replacement

WARNING

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

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

11.6 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 an ammonia-free glass cleaner.

note:

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

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

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

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

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

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

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

11.7 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 an ammonia-free or vinegar-based cleaner and a 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 (i.e. using a hair dryer or similar heat source).

12.0 replacement parts

WARNING

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

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

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

When ordering replacement parts always give the following information:

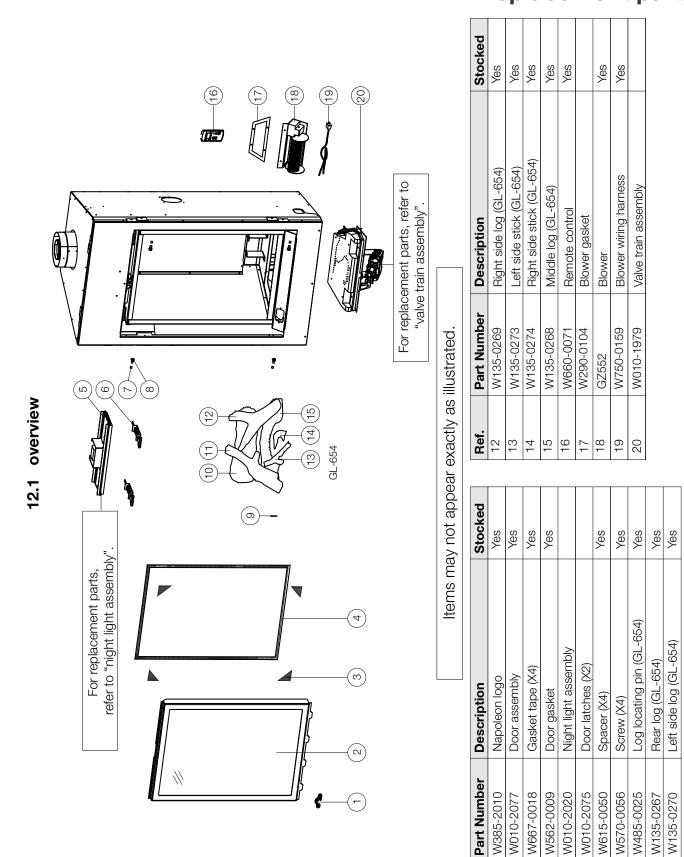
- Model & Serial Number of appliance
- Installation date of appliance
- Part number
- Description of part
- Finish

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

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

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

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



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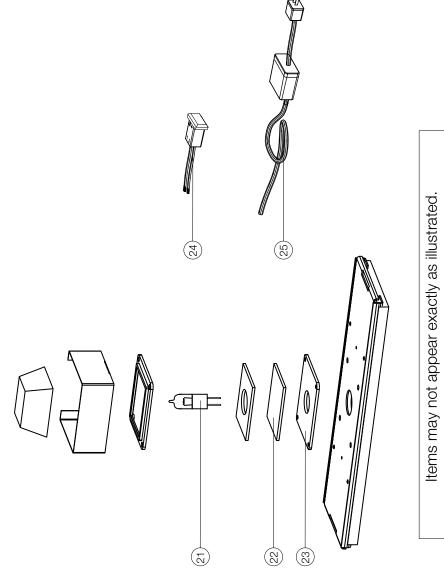
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replacement parts

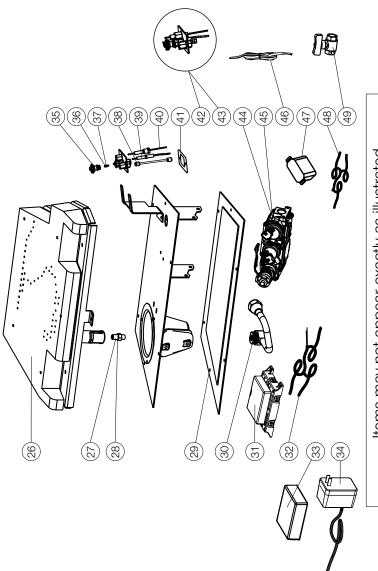




Ref.	Part Number	Description	Stocked
21	W387-0006	Halogen light bulb (10W)	Yes
22	W300-0067	Glass lense	
23	W290-0080	Glass lense gasket	Yes
24	W750-0178	Wiring harness	Yes
25	W707-0019	Transformer (12VAC)	Yes
			-

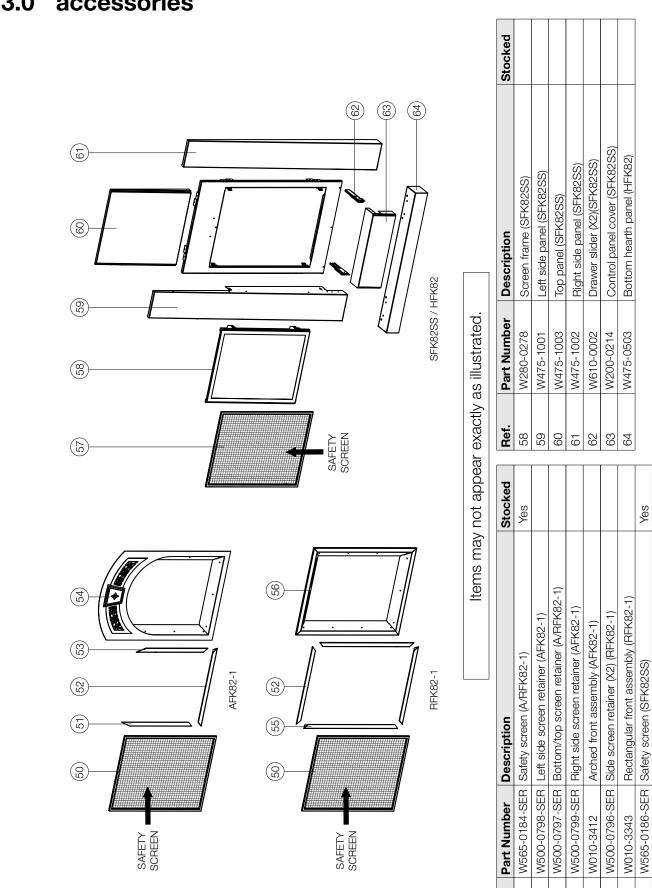
		-	-				
		Item	Items may not appear exactly as illustrated.	ear exactly	as illustrated.		
Ref.	Part Number	Description	Stocked	Ref.	Part Number	Description	Stocked
26	W010-1350	Burner assembly	Yes	38	W720-0062	Pilot tuve (w/ fittings)	Yes
27	W456-0043	Burner orifice #43 (NG)	Yes	39	W240-0006-SER	Ignitor (w/ wire)	Yes
28	W456-0054	Burner orifice #54 (P)	Yes	40	W245-0025	Thermosensor	Yes
29	W290-0103	Valve train gasket		41	W290-0029	Pilot gasket	Yes
30	W432-0077	Manifold flex pipe	Yes	42	W010-2763	Pilot assembly (NG)	
31	W190-0175	Control board	Yes	43	W010-2808	Pilot assembly (P)	Yes
32	W750-0221	Wire harness	Yes	44	W010-1986	Wire assembly	Yes
33	W350-0342	Battery back-up	Yes	45	W725-0056	Valve (NG)	Yes
34	W707-0010	Transformer	Yes	46	W725-0057	Valve (P)	Yes
35	W335-0039	Pilot hood	Yes	47	W660-0104	Receiver	Yes
36	W455-0070	Pilot orifice #62 (NG)	Yes	48	W750-0203	Wire harness	Yes
37	W455-0068	Pilot orifice #35 (P)	Yes	49	W725-0046	Shut off valve	



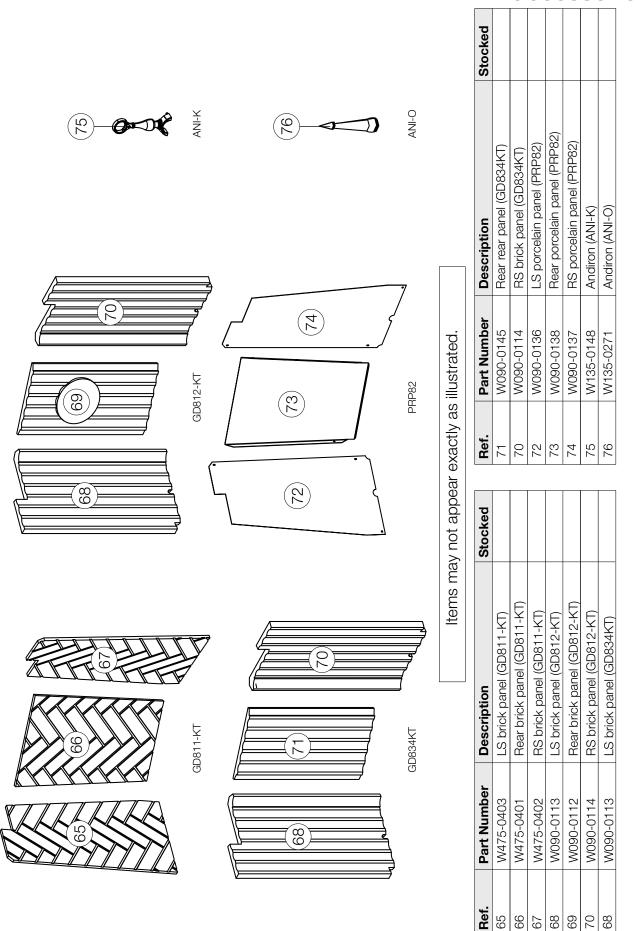


replacement parts

W415-2358/A/12.10.20 53



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accessories EN

W415-2358 / A / 12.10.20

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14.0 troubleshooting

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

symptom	probl	em		test	solution			
Main burner flame is a blue, lazy, transparent flame. (This is not applicable in outdoor appliances)	Blockage in vent.		on the from re (attics,	ve blockage. In really co terminal and should be eoccuring, the vent leng garages, crawl spaces sleeve).	e removed as required the removed as required by the removed as the required by the removed as the removed as the removed as the removed as required by the removed by the rem	uired. (To minimize this ough unheated spaces		
	Incorrect installation	on.	- Refer t	o "venting" section to e	ensure correct ins	tallation.		
Flames are consistently too large or too small. Carboning occurs. 3/8" - 1/2" (9.5mm - 12.7mm) Flame must envelop	Appliance is over- fired.	fired or under	Inlet p wise 2 test pc Check check descril on 'HI' clock	 Check pressure readings: Inlet pressure can be checked by turning screw (A) counter-cl wise 2 or 3 turns and then placing pressure gauge tubing over test point. Gauge should read as described on the chart below Check that main burner is operating on 'HI'. Outlet pressure of checked the same as above using screw (B). Gauge should re described on the chart below. Check that main burner is oper on 'HI'. After taking pressure readings, be sure to turn s clockwise firmly to reseal. DO NOT OVER TORQUE. Leak test with a soap and water solution. 				
upper 3/8" to 1/2"		Pressure	Natural Gas (inches)	Natural Gas (millibars)	Propane (inches)	Propane (millibars)		
(12.7mm - 9.5mm) of Flame sensor		Inlet	*7" (minimum 4.5")	17.4mb (minimum 11.2mb)	13" (minimum 11")	32.4mb (minimum 27.4mb)		
Ц		Outlet	3.5"	8.7mb	10"	24.9mb		

*Maximum inlet pressure not to exceed 13" w.c.

	Air shutter improperly adjusted.	-	Return air shutter to specified opening, see " venturi adjustments " section in the installation manual.
Carbon is being	Air shutter is blocked.	-	Ensure air shutter opening is free of lint or other obstructions.
deposited on glass, logs, rocks, media, or combustion chamber surfaces.	ia, or Flame is impinging on the glass, - Ensure the second secon	Ensure the media is positioned correctly in the appliance. Open air shutter to increase the primary air. Check the input rate: check the manifold pressure and orifice size as specified by the rating plate. Ensure door gaskets are not broken or missing and the seal is tight. Ensure vent liners are free of holes and well sealed at all joints. Check that minimum rise per foot (meters) has been adhered to for any horizontal venting.	
White / grey film forms.	Sulphur from fuel is being depos- ited on glass, logs, or combus- tion chamber surfaces.	-	Clean the glass with a recommended gas fireplace glass cleaner. DO NOT CLEAN GLASS WHEN HOT. If deposits are not cleaned off regularly, the glass may become permanently marked.
Exhaust fumes smelled in room, headaches.	Appliance is spilling. (This is not applicable in outdoor appliances).	- - -	Check door seal. Check for exhaust damage. Check that venting is installed correctly. Room is in negative pressure; increase fresh air supply.

symptom	problem	test solution
Pilot will not light. Makes noise with no spark at pilot burner.	Wiring: short, loose, or damaged connections (poor flame rectification).	 Verify the thermocouple/sensor is clean and the wiring is undamaged. Verify the interrupter block is not damaged or too tight. Verify connections from pilot assembly are tight; also verify the connections are not grounding out to any metal. (Remember, the flame carries the rectification current, not the gas. If flame lifts from pilot hood, the circuit is broken. A wrong orifice or too high of an inlet pressure can cause the pilot flame to lift)*. The sensor rod may need cleaning.
	No signal from remote with no pilot ignition.	Reprogram receiver code.Replace receiver.
	Poor grounding.	- Verify the valve / pilot assembly are properly grounded
	Improper switch wiring.	- Troubleshoot the system with the simplest on/off switch.
	Dirty, painted, or damaged pilot and/or dirty sensor rod.	 Clean sensor rod with a green Scotch-Brite[™] pad to remove any contamination that may have accumulated. Verify continuity with multimeter with ohms set at the lowest range.
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 13" W.C. (32.4mb).
	Out of propane gas.	- Fill the tank.
	Pilot supply line may contain air.	 Repeat ignition process several times or purge the pilot supply line.
	Incorrect wiring / grounding.	 Ensure correct polarity of wiring of thermocouple (if equipped). Verify pilot assembly / valve are properly grounded.
	Receiver (if equipped).	 Reset program: hold reset button on receiver and wait for 2 beeps. Release after second beep. Press small flame button on remote within 20 seconds, you will hear an additional beep (this signals a successful reset). Replace receiver.
	Valve.	 Check valve and replace if necessary (Do not to overtighten thermocouple).
Burner continues to spark and pilot lights but main burner does not light.	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.
	Dirty, painted, or damaged pilot assembly components.	 Clean using a green Scotch-Brite[™] pad to remove any contamination that may have accumulated on the sensor rod, pilot hood, ignitor, or flame sensor. Verify continuity with multimeter with ohms set at the lowest range.
Remote wall switch is in " off " position; burner comes on.	Wall switch mounted upside down.	- Reverse.
	Remote wall switch and/or wire is grounding.	 Replace. Check for ground (short); repair ground or replace wire.
	Faulty wire	- Replace.
Remote and / or	Remote controls lights but	- Reset by turning power source off then on.
receiver is not functioning properly.	no spark or flame. (Remote is locked out).	note: If back up batteries are installed, they must also be removed to re-program
	Receiver or remote has low battery.	- Replace batteries.
	Appliance functions but does not respond to receiver / remote	 Ensure appliance is being operated by the same device that turned it on. Remote controls function if appliance was turned on by remote. Receiver controls function if appliance was turned on by receiver.
	Error with synchronizing.	- Reset receiver and remote.
	Remote too far away from receiver.	- Refer to "wiring diagram" section.
	Wire connector pins are bent.	- Straighten pins.
	Valve wiring is damaged.	- Replace valve.

troubleshooting

symptom	problem		test solution
Lights or blower won't function (if	Control module switch in wrong position.	-	Verify ON/OFF switch is in the "I" position which denotes on.
equipped).	COM switch is unplugged.	-	Verify "COM" switch is plugged into the front of the control module.
Flames are very aggressive.	Door is ajar.	-	Ensure door is secured properly.
	Venting action is too great.	-	Check to ensure venting is properly sealed or restrict vent exit with restrictor plate. (Not available in all appliances).
Appliance won't per- form any functions.	No power to the system.	-	Check breaker to verify it's in the " on " position.
	Receiver switch in wrong position (if equipped).	-	Verify that the 3 position switch on the receiver is in the remote position (middle).
	Transmitter isn't operational.	-	Check battery power and battery orientation.

symptom problem test solution	symptom	problem	test solution
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The following applies specifically to the <u>SIT system</u> only:

Pilot will not light. Makes no noise with no spark at pilot burner. (Lights and blower operate, if equipped).	Ignition box has been locked out.	1. 2.	To reset ignition box when locked out. Turn off power supply and remove batteries (if used) from the back up battery pack. To reset the DFC Board when the board goes into a lock out condition and the LED is blinking 3 times using the transmitter on/off button: Step 1: Turn the system off by pressing the on/off button to turn the system off. Step 2: After approximately 2 seconds press the on/ off button on the transmitter again. The DFC Board will reset and the ignition sequence will start again. To reset the DFC Board when the board goes into a lock out
			 condition and the LED is blinking 3 times by cycling flame: Step 1: In the manual flame control mode, use the down arrow button to reduce the flame to off, indicated by the word OFF displayed on the transmitter LCD screen. Step 2: Wait approximately 2 seconds and press the up arrow button, the ignition sequence will start.

note:

Starting from **off**, press the **on** button on the transmitter. After approximately 4 seconds **on/off** button is pressed, the ignition board will start the spark. The atempt for ignition will last approximately 60 seconds. If there is no flame ignition (rectification), the board will stop sparking and the board will go into lock out.

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

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

Napoleon Gas Appliance President's Lifetime Limited Warranty

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

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

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

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

Conditions and Limitations

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

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

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

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

NAPOLEON CELEBRATING OVER 40 YEARS OF HOME COMFORT PRODUCTS





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