

These log sets can be installed in vented or unvented applications. See installation details for the particular application that applies.

**INSTALLER: LEAVE THIS MANUAL WITH THE APPLIANCE.**  
**CONSUMER: RETAIN THIS MANUAL FOR FUTURE REFERENCE.**



# INSTALLATION AND OPERATING INSTRUCTIONS

CERTIFIED UNDER: ANSI Z21.11.2a-2008 GAS FIRED ROOM HEATER : VOLUME II, UNVENTED ROOM HEATERS  
ANSI Z21.60b-2004 / CSA 2.26b-2004 DECORATIVE GAS APPLIANCES FOR INSTALLATION IN SOLID-FUEL BURNING APPLIANCES

**GVFL18N, GVFL24N,  
GVFL30N**  
NATURAL GAS

**GVFL18P, GVFL24P,  
GVFL30P**  
PROPANE

CERTIFIED FOR THE UNITED STATES USING ANSI METHODS.

## SAFETY INFORMATION

### **WARNING**

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS:**
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the supplier.
- This is an unvented gas-fired heater that uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided.



GVFL18



GVFL24



GVFL30



APPLY SERIAL NUMBER LABEL FROM CARTON



Wolf Steel Ltd., 24 Napoleon Rd., Barrie, ON, L4M 4Y8 Canada /  
103 Miller Drive, Crittenden, Kentucky, USA, 41030

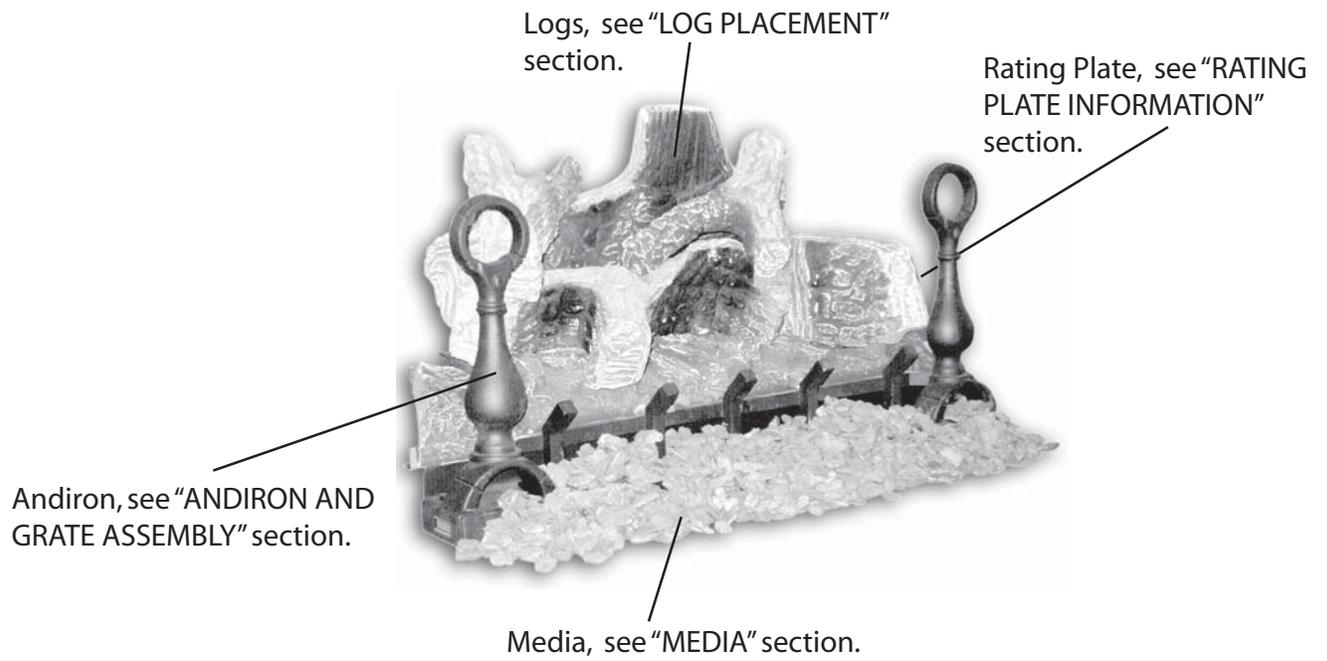
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**NOTE:** Changes, other than editorial, are denoted by a vertical line in the margin.

## 1.0 INSTALLATION OVERVIEW



# 4

## 2.0 INTRODUCTION

### WARNING

- **THIS APPLIANCE IS HOT WHEN OPERATED AND CAN CAUSE SEVERE BURNS IF CONTACTED.**
- **ANY CHANGES TO THIS APPLIANCE OR ITS CONTROLS CAN BE DANGEROUS AND IS PROHIBITED.**
- Under no circumstances should this appliance be modified.
- Do not operate appliance before reading and understanding operating instructions. Failure to operate appliance according to operating instructions could cause fire or injury.
- Risk of burns. The appliance should be turned off and cooled before servicing.
- Do not install damaged, incomplete or substitute components.
- Risk of cuts and abrasions. Wear protective gloves and safety glasses during installation. Sheet metal edges may be sharp.
- Provide adequate ventilation and combustion air. Provide adequate clearance for servicing and operating this appliance. Never obstruct the front opening of the appliance.
- If the appliance shuts off, do not re-light until you provide fresh air. If the appliance keeps shutting off, have it serviced. Keep burner and control compartment clean.
- Do not burn wood or other materials in this appliance.
- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to an appliance, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Ensure you have incorporated adequate safety measures to protect infants/toddlers from touching hot surfaces.
- Clothing or other flammable material should not be placed on or near the appliance.
- 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 or guard removed for servicing 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 are kept clean. The appliance 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 vapours and liquids.
- Furniture or other objects must be kept a minimum 4 feet away from the front of the 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 allow fans to blow directly into the appliance. Avoid any drafts that alter burner flame patterns.
- Do not use a blower insert, heat exchanger insert or any other accessory not approved for use with this appliance.
- 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.
- Keep the packaging material out of reach of children and dispose of the material in a safe manner. As with all plastic bags, these are not toys and should be kept away from children and infants.
- As with any combustion appliance, we recommend having your appliance regularly inspected and serviced as well as having a Carbon Monoxide Detector installed in the same area to defend you and your family against Carbon Monoxide.
- The gas log appliance must be secured to the appliance floor to ensure that the position is not changed while adjusting the controls.
- Sooting and an improper burn may result from shifting of the gas logs by moving the appliance. A gas leak could be caused by moving the appliance.
- If you are installing the appliance into a sunken application, you must raise the appliance floor to allow access to the gas log controls. Raising the floor ensures adequate air flow and guards against sooting. The appliance floor must be raised using noncombustible materials.
- This appliance is for installation only in a solid-fuel burning masonry or UL 127 factory-built appliance or in a listed ventless firebox enclosure. It has been design certified for these installations. Exception: DO NOT install this appliance in a factory-built appliance that includes instructions stating it has not been tested or should not be used with unvented gas logs.
- 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.
- A appliance screen must be in place when the appliance is operating and, unless other provisions for combustion air are provided, the screen shall have an opening for introduction of combustion air.
- State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.

## 2.1 GENERAL INSTRUCTIONS

 <b>WARNING</b>
<b>ALWAYS LIGHT THE PILOT WHETHER FOR THE FIRST TIME OR IF THE GAS SUPPLY HAS RAN OUT, WITH THE GLASS DOOR OPENED OR REMOVED.</b>
<b>PROVIDE ADEQUATE CLEARANCE FOR SERVICING AND OPERATING THE APPLIANCE.</b>
<b>PROVIDE ADEQUATE VENTILATION.</b>
<b>NEVER OBSTRUCT THE FRONT OPENING OF THE APPLIANCE.</b>
<b>OBJECTS PLACED IN FRONT OF THE APPLIANCE MUST BE KEPT A MINIMUM OF 48" FROM THE FRONT FACE OF THE UNIT.</b>
<b>SURFACES AROUND AND ESPECIALLY ABOVE THE APPLIANCE CAN BECOME HOT. AVOID CONTACT WHEN THE APPLIANCE IS OPERATING.</b>
<b>FIRE RISK. EXPLOSION HAZARD.</b>
<b>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.</b>
<b>USE ONLY WOLF STEEL APPROVED OPTIONAL ACCESSORIES AND REPLACEMENT PARTS WITH THIS APPLIANCE. USING NON-LISTED ACCESSORIES (BLOWERS, DOORS, LOUVRES, TRIMS, GAS COMPONENTS, VENTING COMPONENTS, ETC.) COULD RESULT IN A SAFETY HAZARD AND WILL VOID THE WARRANTY AND CERTIFICATION.</b>

Thoroughly clean the chimney, flue and existing appliance before installing the new appliance into it. Do not burn solid fuels in any appliance that is equipped with this gas log set.

The installation of this appliance must conform with local codes or in the absence of local codes with the National fuel gas code ANSI Z.223.1 / NFPA 54.

Do not operate appliance in the presence of gasoline or other flammable liquids and vapours. Keep area clear of other combustible materials. The appliance and its shut off must be disconnected from the gas supply piping system before any pressure testing of the system is done.

Installation practices vary from region to region and it is important to know the specifics that apply to your area, For example: in Massachusetts State:

- The appliance off valve must be a "T" handle gas cock.
- The flexible connector must not be longer than 36 inches.
- The appliance is not approved for installation in a bedroom or bathroom unless the appliance is a direct vent sealed combustion product.
- Unvented room appliance shall be installed in accordance with 527 CMR 30.00 and 248 CMR 3.00 through 7.00.
- Sellers of unvented propane or natural gas-fired space/room appliances shall provide to each purchaser a copy of 527 CMR 30.00 upon the sale of the appliance from [http://www.napoleonfireplaces.com/Webshare/installation\\_manuals/mass\\_requirements.pdf](http://www.napoleonfireplaces.com/Webshare/installation_manuals/mass_requirements.pdf)
- A carbon monoxide detector is required in all rooms containing gas fired appliances.

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

## 2.2 GENERAL INFORMATION

**! WARNING**

**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.**

**THIS APPLIANCE MUST NOT BE INSTALLED IN A BEDROOM OR BATHROOM.**

**THE 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.**

**For your satisfaction, this appliance has been test-fired to assure its operation and quality!**

	GVFL18		GVFL24		GVFL30	
	NG	LP	NG	LP	NG	LP
Altitude (FT)	0-4,500	0-4,500	0-4,500	0-4,500	0-4,500	0-4,500
Max input (BTU/HR)	40,000	40,000	40,000	40,000	40,000	40,000
Min Inlet Gas Supply Pressure	4.5" Water Column	11" Water Column	4.5" Water Column	11" Water Column	4.5" Water Column	11" Water Column
Max Inlet Gas Supply Pressure	7" Water Column	13" Water Column	7" Water Column	13" Water Column	7" Water Column	13" Water Column
Manifold Pressure (Under Flow Conditions)	3.5" Water Column	10" Water Column	3.5" Water Column	10" Water Column	3.5" Water Column	10" Water Column

This appliance is for installation in a solid fuel burning fireplace or listed ventless firebox enclosures only.

No external electricity (110 volts or 24 volts) is required for the gas system operation.

This appliance is equipped with a pilot light safety system referred to as an oxygen depletion sensor (ODS) and is designed to turn off the appliance if not enough fresh air is available.

Napoleon's two vent free firebox enclosures the ZCVF 36/42 can be used to house all 3 of Napoleon's vent free log sets, the GVFL 18, 24 and 30.

**NATIONAL  
FIREPLACE  
INSTITUTE**



**CERTIFIED**  
www.nficertified.org

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

## 2.3 MINIMUM APPLIANCE SIZE

LOG SET	HEIGHT	WIDTH	DEPTH
GVFL18	18"	22"	14"
GVFL24	20"	28"	14"
GVFL30	22"	34"	14"

Each gas log set must be installed into a appliance cavity with a minimum size.

Refer to the table to determine the appropriate minimum appliance size.



## 3.0 INSTALLATION

### 3.1 INSTALLING IN AN UNVENTED APPLICATION

#### WARNING

**BARRIERS SUCH AS THE BOTTOM OF A GLASS DOOR FRAME PLACED IN FRONT OF A GAS LOG SET CAN CHANGE THE AIR FLOW CHARACTERISTICS OF THE APPLIANCE WHICH IN TURN CAN CAUSE THE APPLIANCE TO CARBON OR OVERHEAT AND MALFUNCTION.**

During manufacturing, fabricating and shipping various components of this appliance are treated with certain oils, films or bonding agents.

These materials may produce smoke and smells as they are burned off during the initial operation of the appliance; possibly causing headaches or eye or lung irritation. This is a normal and temporary occurrence. Simply open a window to ventilate the room during the burn off period.

#### 3.1.1 COMBUSTION AND VENTILATION AIR PROVISIONS

This appliance shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air.

The National Fuel Gas Code, ANSI Z223.1 / NFPA 54 defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 Btu per hour (4.8 m<sup>3</sup> per kw) of the aggregate input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 Btu per hour (4.8 m<sup>3</sup> per kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors are considered a part of the unconfined space.

#### 17.1A

The GVFL 18/24/30 are all rated at 40,000 BTUs per hour and therefore requires a minimum unconfined space of 2,000 cubic feet.

#### 3.1.2 DETERMINING CONFINED OR UNCONFINED SPACE

This appliance shall not be installed in a room or space unless the required volume of indoor combustion air is provided by the method described in the National Fuel Gas Code, ANSI Z223.1 / NFPA 54, the International Fuel Gas Code, or applicable local codes.

To determine the volume of the room where the appliance is to be installed, multiply the width x the length x the ceiling height of that room measured in feet. If any adjoining rooms are connected by grilles or openings such as kitchen pass-throughs, etc., the volume of those rooms may be added to the total.

Multiply the room volume by 1000 and divide this amount by 50 to determine the maximum BTU/hr that the space can support with adequate combustion and ventilation air.

Add the Btu/hr of all fuel burning appliances located within the space such as gas furnace, gas water appliance, etc. Do not include direct vent gas appliances which draw their input and output air from and to the outdoors.

#### WARNING

**IF THE AREA IN WHICH THE APPLIANCE MAY BE OPERATED IS SMALLER THAN THAT DEFINED AS AN UNCONFINED SPACE OR IF THE BUILDING IS OF UNUSUALLY TIGHT CONSTRUCTION, PROVIDE ADEQUATE COMBUSTION AND VENTILATION AIR BY ONE OF THE METHODS DESCRIBED IN THE NATIONAL FUEL GAS CODE ANSI Z223.1/ NFPA 54 , AIR FOR COMBUSTION AND VENTILATION, OR THE APPLICABLE LOCAL CODE.**

**IF THE AREA IN WHICH THE APPLIANCE MAY BE OPERATED DOES NOT MEET THE REQUIRED VOLUME FOR INDOOR COMBUSTION AIR, COMBUSTION AND VENTILATION AIR SHALL BE PROVIDED BY ONE OF THE METHODS DESCRIBED IN THE ANSI Z223.1 / NFPA 54, THE INTERNATIONAL FUEL GAS CODE, OR APPLICABLE LOCAL CODES.**

Unusually tight construction is defined as construction where:

- A) Walls and ceilings exposed to the outside atmosphere have a continuous water vapour retarder with a rating of 1 perm ( $6 \times 10^{-11}$  kg per pa-sec-m<sup>2</sup>) or less with openings gasketed or sealed, and
- B) Weather stripping has been added on openable windows and doors, and
- C) Caulking or sealants are applied to areas such as joints around window and door frames, between sole plates and floors, between wall-ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at other openings.

An unvented room appliance is recommended for use as a secondary heat source rather than as a primary source. Gas combustion produces water vapour which could occur at the rate of approximately one ounce of water for every 1,000 BTU/hr of gas input. During the cold weather season, indoor humidity levels tend to be low. Consequently, this water vapour can enhance the living space. However if a problem should occur:

- A) Ensure sufficient combustion and circulation air
- B) Use a dehumidifier
- C) Do not use the unvented room appliance as a primary heat source

Without sufficient fresh air for proper operation, poor fuel combustion can result. Carbon Monoxide is a result of poor combustion.

If additional fresh air is required, use one of the methods described in the National Fuel Gas Code, ANSI Z223.1, Section 5.3 or the applicable local code.

Room Volume = Length x Width x Height

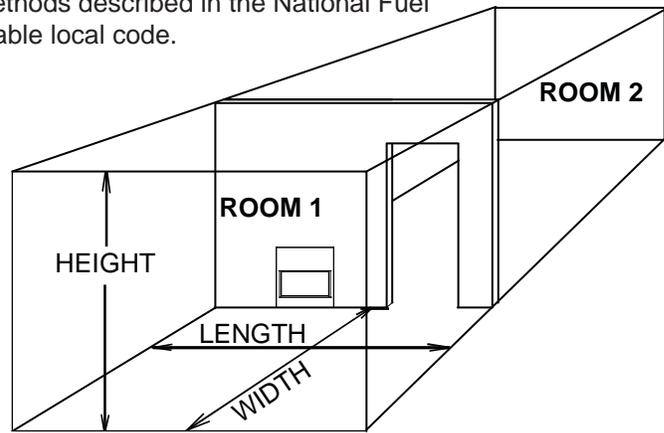
Max BTU/hr = Room Volume x 1000 / 50

**If for example:**

The length of the rooms is 10 feet,  
The width of Room 1 is 10 feet,  
The width of Room 2 is 15 feet,  
The height of the rooms is 8 feet.

The volume of Room 1:  $10 \times 10 \times 8 = 800$  cubic feet

The volume of Room 2:  $10 \times 15 \times 8 = 1200$  cubic feet



19.1A

**EXAMPLE 1:**

In this example, because there is no door to the adjoining room, the volume of the adjoining room may be added to the volume of the room with the heater to get a total unconfined space.

The total unconfined space:  $800 + 1200 = 2000$  cubic feet.

Maximum BTU/h:  $\frac{2000 \times 1000}{50} = 40,000$  BTU/h

19.2

If there are no more fuel burning appliances within this space then the 40,000 BTU/h input of the appliance is suitable to be installed. This also assumes that the construction of this space is not unusually tight.

**EXAMPLE 2:**

If in this example a solid door separates Room 1 from Room 2, the volume of Room 2 could not be used. In this case the maximum BTU/h would be:

Maximum BTU/h:  $\frac{800 \times 1000}{50} = 16,000$  BTU/h

19.3

This would be considered a confined space since it can not support the 40,000 BTU/h input of the appliance and it would be necessary to provide adequate combustion and ventilation air to Room 1.

### 3.2 INSTALLING IN A VENTED APPLICATION

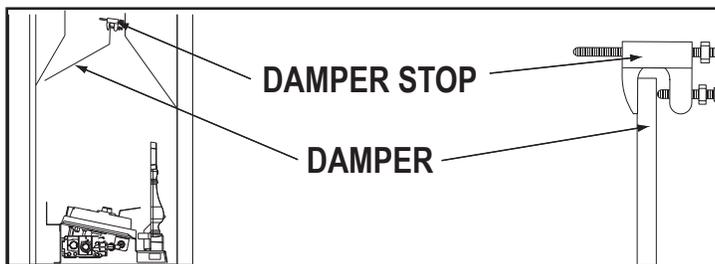
The appliance and gas logs function as a system. If the appliance is not drafting properly and spilling into the room (check with a match or a smoke stick), reposition the damper clamp until a positive draft is obtained by opening the damper. If negative pressure in home prevents having a positive draft, consult an air quality specialist.

#### 3.2.1 DAMPER STOP INSTALLATION

**! WARNING**

**BEFORE INSTALLING IN A SOLID FUEL BURNING FIREPLACE, THE CHIMNEY AND FIREBOX MUST BE CLEANED OF SOOT, CREOSOTE, ASHES, AND LOOSE PAINT BY A QUALIFIED CHIMNEY CLEANER.**

The damper must be permanently locked in position to prevent full closure and to provide a minimum flue opening. Various methods for locking the damper may be used but may be restricted from region to region and it is important to know the specifics that apply to your area. For your convenience a damper stop is provided with the appliance and may be used where not prohibited by state or local codes.



Use the 3" adjustable bolt to adjust the damper to the correct opening, based on the enclosed chart.

Should the damper stop not fit, or provide the required permanent opening from the Minimum Damper Opening table, have the damper cut to provide a minimum permanent opening or install an alternate stop.

Any outside air ducts and/or ash dumps in the appliance shall be permanently closed at time of appliance installation.

MINIMUM DAMPER OPENING (SQUARE INCHES)		
CHIMNEY HEIGHT	MASONRY APPLIANCE	FACTORY BUILT APPLIANCE
6	33.8"	
8	31.2"	
10	28.7"	22.1"
15	26.1"	17.3"
20	23.7"	14.5"
25	22.7"	12.6"
30	21.6"	11.3"
35		10.8"
40		10.2"

### 3.3 GAS PIPING

## ! WARNING

**DO NOT CONNECT EITHER THE WALL SWITCH, THERMOSTAT OR GAS VALVE TO ELECTRICITY (110 VOLTS).**

This appliance and its appliance main valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ PSI (3.5kPa)

This appliance must be isolated from the gas supply piping system by closing the individual manual shut off valve during any pressure testing of the gas supply piping system at test pressure equal to or less than ½ psi (3.5 kPa)

**3.3.1** Centre the appliance in the appliance opening, making sure the appliance has enough room behind it for the gas line to run behind the log set under the log support.

**3.3.2** Route the gas line and sizing using piping ½" diameter or greater to allow the full volume of gas to the appliance. The routing of the gas line has to be done to local and / or national codes.

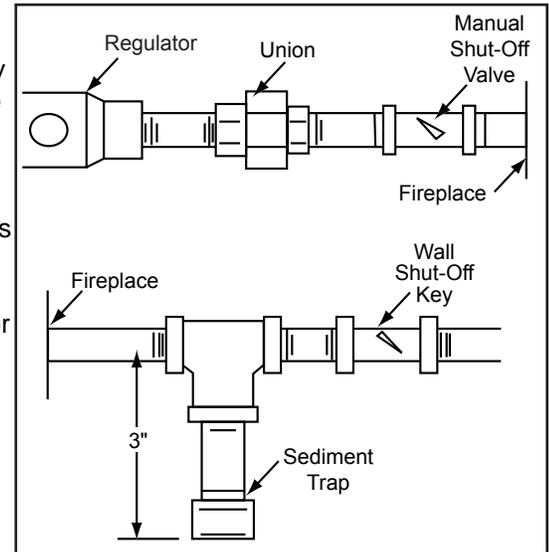
**3.3.3** When rigid pipe is used an ANSI approved manual shut off and a union must be installed upstream within the appliance cavity.

**3.3.4** To ensure the appliance operates reliably install a sediment trap upstream of the appliance within the structures of the piping system.

**3.3.5** When using propane, a regulator must be used between the tank and the outside wall of the house to ensure the line pressure does not exceed 14" w.c.

**3.3.6** Check gas connections with a gas detection device to test for leaks in the system. Soapy water mixture can also be used to check for leaks.

**3.3.7** Once all the gas connections are tested for leaks, start the appliance. Follow the lighting instructions to ensure the appliance is working properly before finishing.

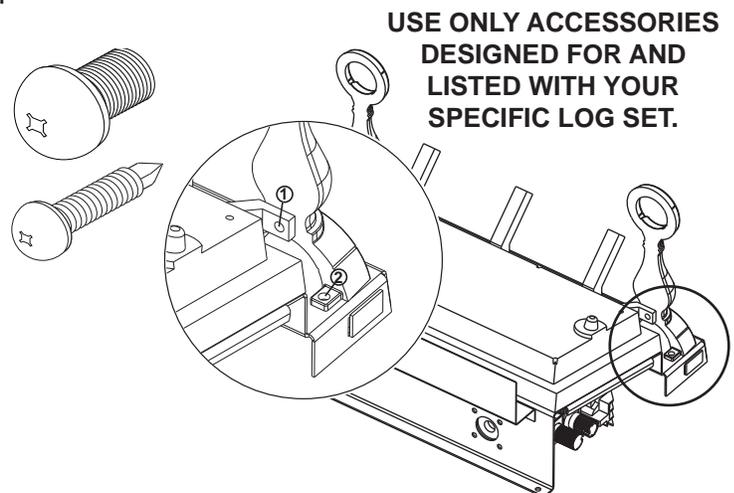


## 4.0 FINISHING

### 4.1 ANDIRON AND GRATE ASSEMBLY

**4.1.1** With the 2 andirons laying face down, secure the grate ovetop using 2x ¼-20 bolts (supplied in the manual baggie).

**4.1.2** Install the grate/andiron assembly to the burner base using 4x ¾" self tapping screws (supplied in the manual baggie).



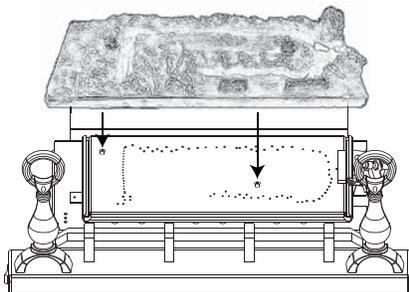
## 4.2 LOG PLACEMENT

**! WARNING**

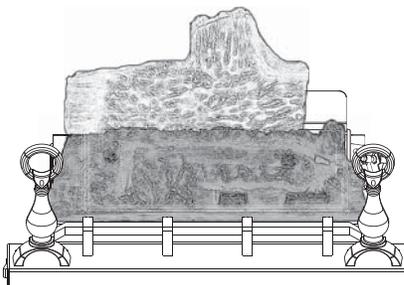
Failure to position these logs in accordance with these diagrams or failure to use parts specifically approved with this appliance may result in property damage or personal injury.

Do not place glowing embers, charcoal embers, vermiculite or charcoal lumps on this burner.

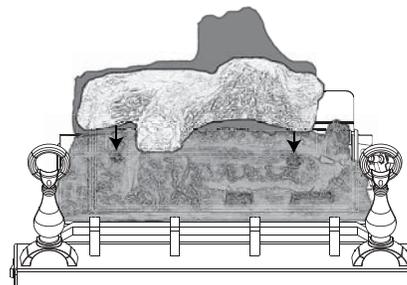
Phazer™ logs, exclusive to Napoleon Appliances, provide a unique and realistic glowing effect that is different in every installation. These logs are fuel specific. Do not interchange. Refer to the replacement parts list. Failure to follow these log placement instructions may cause sooting.



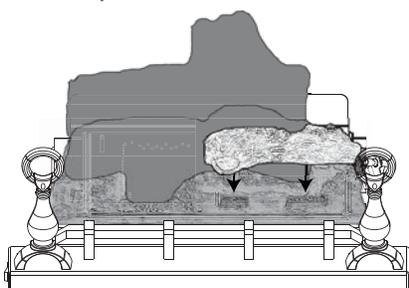
**4.2.1** Place the fibre burner cover onto the two locating studs screwed into the pan burner.



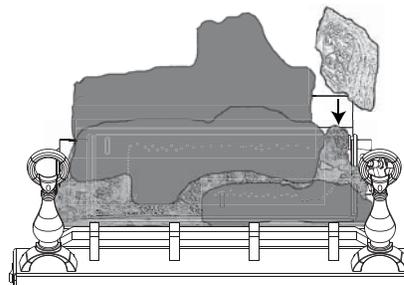
**4.2.2** Place the rear log #1 onto the locating studs on the rear log support.



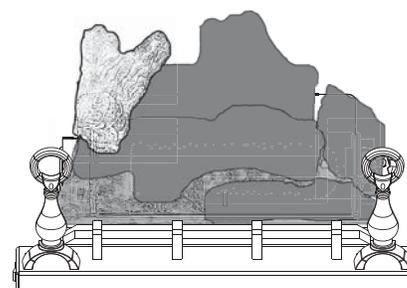
**4.2.3** Position the holes on the bottom of log #2 onto the fibre embosses shown.



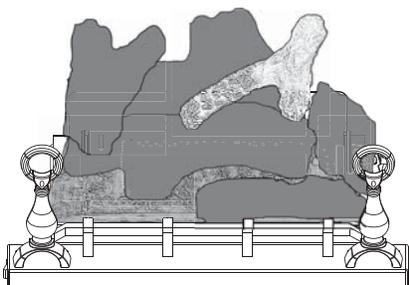
**4.2.4** Position the slotted cavities on the bottom of log #3 onto the slotted projections shown. The charred face should be facing in.



**4.2.5** Position the bottom cavity of log #4 onto the bridge (top right corner of fibre burner cover) as shown, with the charred face inward.



**4.2.6** Position the pins on the bottom of log #5 into the holes on the left end of log #1 and the left end of log #2.



**4.2.7** Place the end of log #6 on the right end of log #1. The fork in the log should straddle the knot on top of the log #2.

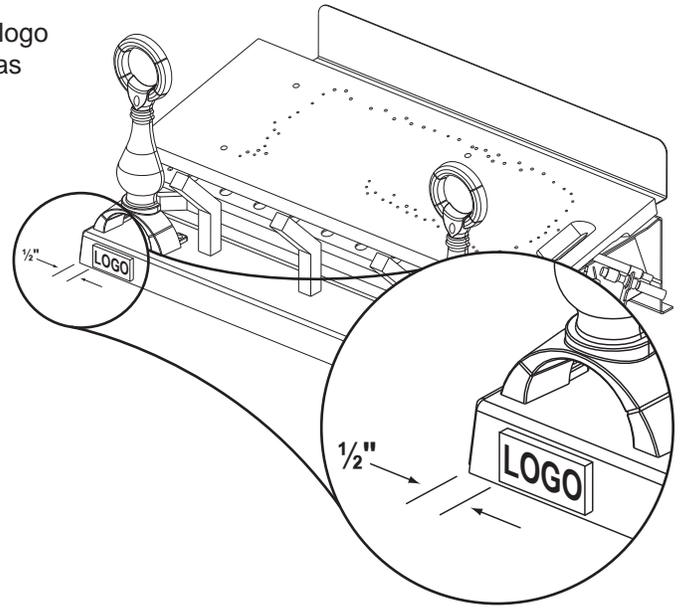
Log colours may vary. During the initial use of the appliance, the colours will become more uniform as colour pigments burn in during the heat activated curing process.

Positioning the logs improperly will cause flame impingement and carboning.

Blocked burner ports can cause an incorrect flame pattern, carbon deposits and delayed ignition. Phazer™ logs glow when exposed to direct flame. Use only certified Phazer™ logs available from your authorized dealer/distributor.

### 4.3 LOGO PLACEMENT

Remove the backing of the logo supplied. Centre the logo on the front of the appliance,  $\frac{1}{2}$ " in from the left side, as shown.



### 4.4 MEDIA

- 4.4.1 Place lava or ember rock around the base of the appliance, making sure not to block any burner ports or valve access. Retain a small amount of lava rock for step 3 and if applicable step 4.
- 4.4.2 Place formed charcoal lumps around the front and sides of the appliance.
- 4.4.3 Use remaining lava or ember rock to blend with the charcoal lumps.
- 4.4.4 **GVFL30 ONLY:** Sprinkle remaining lava rock onto the outer fibre ember beds to hide the seam.

**GVFL 18**



**GVFL 24**



**GVFL 30**

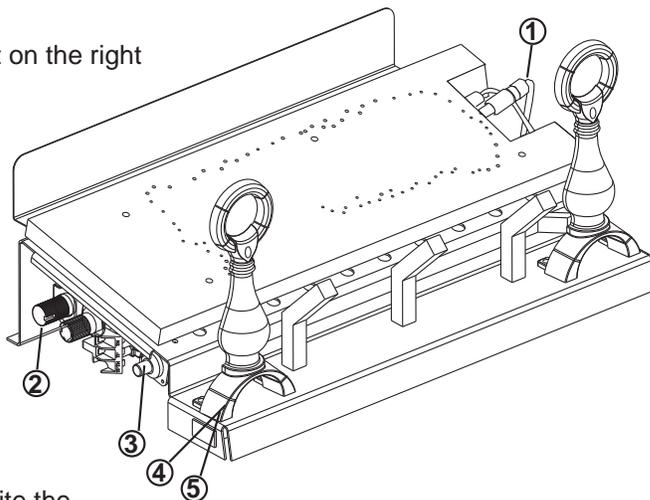


## 5.0 OPERATING INSTRUCTIONS

If the appliance is equipped with decorative glass doors, they must be fully opened when operating this gas log set.

### 5.1 LIGHTING INSTRUCTIONS

- 5.1.1** Locate the pilot burner at the rear of the log set on the right side.
- 5.1.2** Turn the gas control knob to the pilot setting (on the left side of the appliance closest to the back).
- 5.1.3** With the control knob depressed, push the piezo igniter continuously until the pilot lights. Hold the control knob in for 1 minute and release. If the pilot goes out, repeat steps 2 and 3.
- 5.1.4** Once the pilot stays burning, make certain that the on / off switch is in the off position. Turn the control knob counter-clockwise to the on position.
- 5.1.5** Turn the on / off switch to the on position to ignite the burner. This appliance must be isolated from the gas supply piping system by closing the individual manual shut off valve during any pressure testing of the gas supply piping system at test pressure equal to or less than ½ psi (3.5 kPa).



If appliance shuts off, do not relight until you provide fresh air. If appliance keeps shutting off, have it serviced. Keep burner and control compartment clean.

When lit for the first time, the appliance will emit a slight odour for a few hours. This is a normal temporary condition caused by the curing of the logs and the “burn-off” of internal paints and lubricants used in the manufacturing process and will not occur again. Open a window to ventilate the room during this burn off period.

### 5.2 MATCH LIGHTING INSTRUCTIONS

- 5.2.1** Remove any items necessary for easy access to the ODS (for example: logs, screens, etc.).
- 5.2.2** Follow appropriate lighting instructions found previously. Instead of pushing and releasing the piezo button, light a match and hold the flame to the end of the pilot and ignite the pilot.
- 5.2.3** After control knob has been released and pilot stays lit, reinstall any items that were removed for pilot access.
- 5.2.4** Call a qualified service technician for repair or replacement of the piezo ignitor.

After extended periods of non-operation such as following a vacation or a warm weather season, the appliance may emit a slight odour for a few hours. This is caused by dust particles burning off. In both cases, open a window to sufficiently ventilate the room.

Purge the gas line with the glass door open. Assure that a continuous gas flow is at the burner before closing the door.

## 6.0 OPERATION

### **! WARNING**

**IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.**

**IF APPLICABLE ALWAYS LIGHT THE PILOT WHETHER FOR THE FIRST TIME OR IF THE GAS SUPPLY HAS RUN OUT WITH THE GLASS DOOR OPENED OR REMOVED.**

**If appliance shuts off, do not relight until you provide fresh air. If appliance keeps shutting off, have it serviced. Keep burner and control compartment clean.**

When lit for the first time, the appliance will emit a slight odour for a few hours. This is a normal temporary condition caused by the curing of the logs and the “burn-in” of internal 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 a warm weather season, the appliance may emit a slight odour for a few hours. This is caused by dust particles burning off. In both cases, open a window to sufficiently ventilate the room.

#### FOR YOUR SAFETY READ BEFORE LIGHTING:

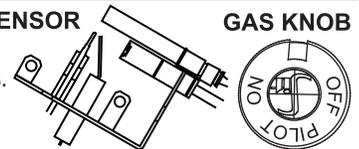
- This appliance is equipped with a pilot which must be lit by hand while following these instructions exactly.
- Before operating smell all around the appliance area for gas and next to the floor because some gas is heavier than air and will settle on the floor.
- Use only your hand to push in and turn the gas control knob. Never use tools. If the knob will not push in and turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- 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 under water.

#### WHAT TO DO IF YOU SMELL GAS:

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

**OXYGEN DEPLETION SENSOR**

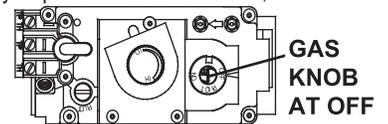
**GAS KNOB**



#### LIGHTING INSTRUCTIONS:

When lighting and re-lighting, the gas knob cannot be turned from pilot to off unless the knob is depressed.

- STOP! Read the above safety information on this label.
- Set the thermostat to lowest setting.
- Turn off all electric power to the appliance.
- Open the control door. Turn the gas knob clockwise to off.
- Wait five (5) minutes to clear out any gas. If you smell gas including near the floor, STOP! Follow “B” in the above safety information on this label. If you don't smell gas go to the next step.
- Find pilot located in front of the back log.
- Turn gas knob counter-clockwise to pilot.
- Depress and hold gas knob while lighting the pilot with the push button ignitor. Keep knob fully depressed for one minute, then release. If pilot does not continue to burn repeat steps 3 through 7.
- With pilot lit, turn gas knob counter-clockwise to on. When the pilot has been turned off, ignition of the main burner may be delayed from 1-2 minutes. When the pilot has been left burning, ignition of the main burner should occur almost immediately.
- If equipped with remote on-off switch, main burner may not come on when you turn the valve to on. Remote switch must be in the on position to ignite burner.
- Turn on all electric power to the appliance.



**GAS KNOB AT OFF**

#### TO TURN OFF GAS

- Turn off all electric power to the appliance if service is to be performed.
- Push in gas control knob slightly and turn clockwise to off. Do not force.

47.1

## 7.0 ADJUSTMENTS

### 7.1 AIR SHUTTER

**! WARNING**

**CARBON CAN BE DISTRIBUTED IN SURROUNDING LIVING AREAS IF THE AIR SHUTTER IS IMPROPERLY ADJUSTED.**

**FAILURE TO KEEP THE PRIMARY AIR OPENING(S) OF THE BURNER (S) CLEAN MAY RESULT IN SOOTING AND PROPERTY DAMAGE.**

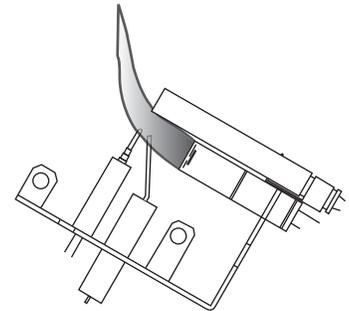
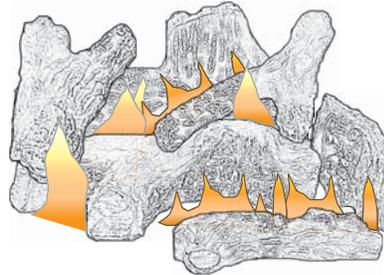
LOG SET		AIR SHUTTER	
FUEL	NG	LP	
GVFL18	9/32"	7/16"	
GVFL24	9/32"	7/16"	
GVFL30	9/32"	7/16"	

The air shutter settings are factory set for most installations. However, adjustment may be required depending on fuel type, vent performance and altitude.

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

### 7.2 FLAME CHARACTERISTICS

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



54.5

## 8.0 MAINTENANCE

**! WARNING**

**TURN OFF THE GAS AND ELECTRICAL POWER BEFORE SERVICING THE APPLIANCE.**

Visually inspect the appliance for carbon buildup.

Using a small whisk or brush, brush off the excess carbon and vacuum up or sweep into the garbage.

Check the appliance for broken logs and corrosion of the main burner base.

### 8.1 OXYGEN DEPLETION SENSOR (ODS) CLEANING

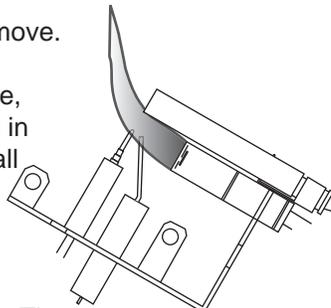
This procedure must be performed by a qualified service person!

Inspect the pilot for any visible contamination or debris (usually lint, pet hair, spider webs, carpet fibre, etc.) and remove.

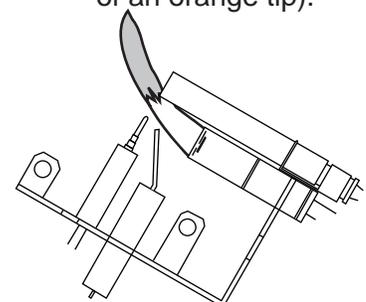
Disconnect the pilot from the pilot tubing line, using a 7/16" wrench. Blow out the housing in the same direction as the gas flow. Re-install the pilot tube, turn on the gas and check for leaks.

If this does not improve the performance, replace the ODS with an exact replacement. The device is tamper resistant with no field serviceable parts.

**CORRECT PILOT FLAME**  
(Clean, stable, pronounced blue flame).



**INCORRECT PILOT FLAME**  
(Flame lifts upwards, becomes unstable with more of an orange tip).



46.1

## 9.0 REPLACEMENTS

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

**FOR WARRANTY REPLACEMENT PARTS, A PHOTOCOPY OF THE ORIGINAL INVOICE WILL BE REQUIRED TO HONOUR THE CLAIM.**

When ordering replacement parts always give the following information:

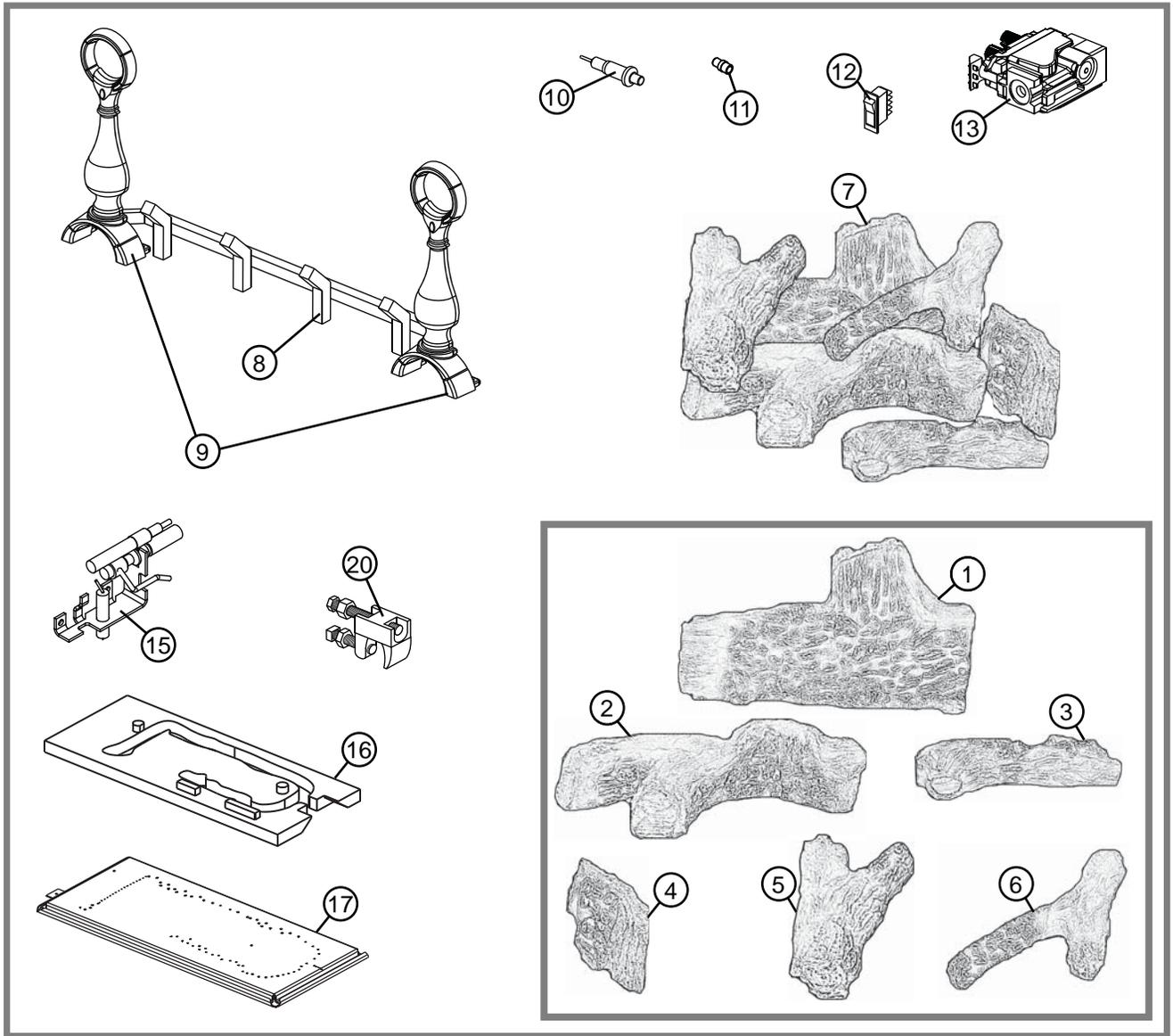
- Model & Serial Number of appliance
- Installation date of appliance
- Part number
- Description of part
- Finish

**\* IDENTIFIES ITEMS WHICH ARE NOT ILLUSTRATED. FOR FURTHER INFORMATION, CONTACT YOUR AUTHORIZED DEALER.**



41.1

COMPONENTS		
REF NO.	GAS LOGS	DESCRIPTION
1	W135-0412	#1 - REAR LOG
2	W135-0404	#2 - MIDDLE LOG
3	W135-0413	#3 - FRONT LOG
4	W135-0414	#4 - RIGHT LOG
5	W135-0415	#5 - LEFT CROSSOVER LOG
6	W135-0416	#6 - RIGHT CROSSOVER LOG
7	GL-671	LOG SET
8	W185-0024	GVFL18 GRATE
8	W185-0020	GVFL24 GRATE
8	W185-0023	GVFL30 GRATE
9	W715-0628	GVFL18 / 24 ANDIRONS
9	W715-0629	GVFL30 ANDIRONS
10	W357-0001	PIEZO IGNITOR AND NUT
11	W455-0078	#31 ORIFICE - NG
11	W455-0042	#49 ORIFICE - LP
12	W660-0023	ON / OFF SWITCH
13	W725-0030	VALVE - NG
13	W725-0031	VALVE - LP
14*	W385-0334	NAPOLEON LOGO
15	W662-0003	NATURAL GAS - OXYGEN DEPLETION SENSOR
15	W662-0004	PROPANE GAS - OXYGEN DEPLETION SENSOR
16	W135-0394	FIBRE BURNER COVER
17	W010-2120	WELDED BURNER ASSEMBLY
18*	W550-0006	LAVA ROCK
19*	W550-0002	CHARCOAL LUMPS
20	W010-1288	DAMPER STOP
21*	W750-0060	IGNITOR CABLE
22*	W720-0093	PILOT TUBE
23*	W135-0265	GVFL30 RIGHT EXTENSION LOG
24*	W135-0266	GVFL30 LEFT EXTENSION LOG
ACCESSORIES		
REF NO.	GAS LOGS	DESCRIPTION
25*	GD-660	REMOTE WALL SWITCH W/20" WIRE
26*	W690-0001	MILLIVOLT WALL THERMOSTAT
27*	W660-0011B	ADVANTAGE PLUS HAND HELD REMOTE
28*	W660-0026	PROGRAMMABLE TIMER
29*	W550-0006	ADDITIONAL LAVA ROCK / CINDERS



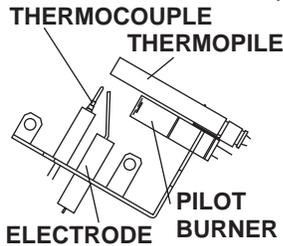
## 10.0 TROUBLE SHOOTING

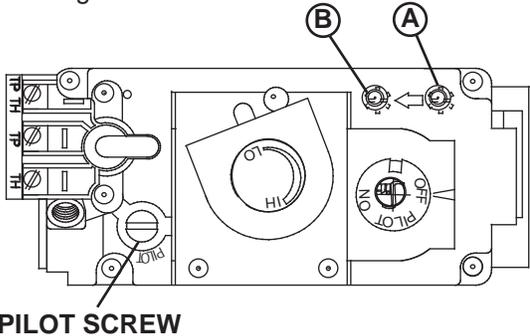
<b>! WARNING</b>
<b>ALWAYS LIGHT THE PILOT WHETHER FOR THE FIRST TIME OR IF THE GAS SUPPLY HAS RAN OUT, WITH THE GLASS DOOR OPEN OR REMOVED.</b>
<b>TURN OFF THE GAS AND ELECTRICAL POWER BEFORE SERVICING THE APPLIANCE.</b>
<b>APPLIANCE MAY BE HOT, DO NOT SERVICE UNTIL APPLIANCE HAS COOLED.</b>
<b>DO NOT USE ABRASIVE CLEANERS.</b>

SYMPTOM	PROBLEM	TEST SOLUTION
Main burner goes out; pilot stays on.	Pilot flame is not large enough or not engulfing the thermopile.	<ul style="list-style-type: none"> <li>- Ensure adequate supply pressure.</li> <li>- Replace pilot assembly.</li> </ul>
	Thermopile shorting / loose connection.	<ul style="list-style-type: none"> <li>- Clean thermopile connection to the valve. Reconnect.</li> <li>- Replace thermopile / valve.</li> </ul>
	Remote wall switch wire is too long; too much resistance in the system.	<ul style="list-style-type: none"> <li>- Shorten wire to connect length or wire gauge.</li> </ul>
	Faulty thermostat or switch.	<ul style="list-style-type: none"> <li>- Replace.</li> </ul>
Main burner goes out; pilot goes out.	Insufficient air supply.	<ul style="list-style-type: none"> <li>- Open window or door. (Use one of the methods described in ANSI Z223.1 Section 5.3 or the applicable local code.)</li> <li>- Have room checked for adequate air exchange.</li> <li>- See "COMBUSTION AND VENTILATION AIR PROVISIONS" section to ensure adequate air supply.</li> </ul>
	Out of propane gas.	<ul style="list-style-type: none"> <li>- Fill the tank.</li> </ul>
	Pilot flame is not large enough. (Supply pressure too low.)	<ul style="list-style-type: none"> <li>- Service or replace Oxygen Depletion Sensor System.</li> <li>- Correct piping and / or regulator to provide correct pressure.</li> <li>- Ensure adequate supply pressure.</li> </ul>
Pilot goes out when the gas knob is released. The gas valve has an interlock device which will not allow the pilot burner to be lit until the thermocouple has cooled. Allow approximately 60 seconds for the thermocouple to cool.	System is not correctly purged.	<ul style="list-style-type: none"> <li>- Purge the gas line.</li> </ul>
	Out of propane gas.	<ul style="list-style-type: none"> <li>- Fill the tank.</li> </ul>
	Pilot flame is not large enough. (Supply pressure too low.)	<ul style="list-style-type: none"> <li>- Service or replace Oxygen Depletion Sensor System.</li> </ul>
	Thermocouple shorting / faulty.	<ul style="list-style-type: none"> <li>- Loosen and tighten thermocouple.</li> <li>- Clean thermocouple and valve connection.</li> <li>- Replace Oxygen Depletion Sensor System.</li> <li>- Test and replace valve.</li> </ul>
	Faulty valve / high low knob does not depress smoothly.	<ul style="list-style-type: none"> <li>- Replace.</li> </ul>

42.4\_A

SYMPTOM	PROBLEM	TEST SOLUTION
Pilot burning; no gas to main burner; gas knob is on 'HI'; wall switch / thermostat is on.	Thermostat or switch is defective.	- Connect a jumper wire across the wall switch terminals; if main burner lights, replace switch / thermostat.
	Wall switch wiring is defective.	- Disconnect wires from valve. Connect a jumper wire across terminals 1 & 3; if the main burner lights, check the wires for defects and / or replace wires.
	Main burner orifice is plugged.	- Remove stoppage in orifice.
	Faulty valve.	- Replace.
Pilot will not light.	Out of propane gas.	- Fill the tank.
	No spark at pilot burner.	- Check if pilot can be lit by a match.
		- Check that the wire is connected to the push button ignitor.
		- Check if the push button ignitor needs tightening.
No gas at the pilot burner.	- Replace the wire if the wire insulation is broken or frayed.	
	- Replace the electrode if the ceramic insulator is cracked or broken.	
	- Replace the push button ignitor.	
Pilot goes out while standing; Main burner is in 'OFF' position.	Gas piping is undersized.	- Check that the manual valve is turned on.
		- Check the pilot orifice for blockage.
		- Replace the valve / Oxygen Depletion Sensor System.
Main burner will not light; or is slow to light, noisy pilot.	Pilot flame is not large enough.	- Call the gas distributor.
		- Turn on all gas appliances and see if pilot flame flutters, diminishes or extinguishes, especially when main burner ignites. Monitor appliance supply working pressure.
Carbon is being deposited on glass, logs, rocks, media or combustion chamber.	Air shutter has become blocked.	- Check if supply piping size is to code. Correct all undersized piping.
		- ODS Burner requires checking.
Carbon is being deposited on glass, logs, rocks, media or combustion chamber.	Flame is impinging on the glass, logs, rocks, media or combustion chamber.	- Adjust inlet pressure to ensure maximum 7.0" W.C. at gas valve for natural gas and 13.0" W.C. for propane.
		- Ensure air shutter opening is free of lint or other obstructions.
Carbon is being deposited on glass, logs, rocks, media or combustion chamber.	Flame is impinging on the glass, logs, rocks, media or combustion chamber.	- Check that the logs are correctly positioned.
		- Check for ceiling or oscillating fans that may be influencing the flame.
		- Open air shutter to increase the primary air. See "VENTURI ADJUSTMENT" section.
		- Check the input rate: check the manifold pressure and orifice size as specified by the rating plate.



SYMPTOM	PROBLEM	TEST SOLUTION
<p>Flames are consistently too large or too small. Carboning occurs.</p> 	<p>Unit is over-fired or under-fired.</p>	<ul style="list-style-type: none"> <li>- Check pressure readings:</li> <li>- Inlet pressure can be checked by turning screw (A) counter-clockwise 2 or 3 turns and then placing pressure gauge tubing over the test point. Check with burner operating on "HI". Gauge should read 7" (minimum 4.5") water column for natural gas or 13" (11" minimum) water column for propane.</li> <li>- Outlet pressure can be checked the same as above using screw (B). Check with burner operating on "HI". Gauge should read 3.5" water column for natural gas or 10" water column for propane.</li> <li>- <b>AFTER TAKING PRESSURE READINGS, BE SURE TO TURN SCREWS CLOCKWISE FIRMLY TO RESEAL. DO NOT OVER TORQUE.</b></li> <li>- Leak test with a soap and water solution.</li> </ul>
	<p>Air shutter improperly adjusted.</p>	<ul style="list-style-type: none"> <li>- Return air shutter to specified opening, see "VENTURI ADJUSTMENT" section.</li> </ul>
<p>Exhaust fumes smelled in room, headaches.</p>	<p>Not enough combustion air.</p>	<ul style="list-style-type: none"> <li>- Increase fresh air supply. (Use one of the methods described in ANSI Z223.1 Section 5.3 or the applicable local code.)</li> </ul>
	<p>Not enough ventilation air.</p>	<ul style="list-style-type: none"> <li>- Increase fresh air supply. (Use one of the methods described in ANSI Z223.1 Section 5.3 or the applicable local code.)</li> </ul>
	<p>Flame is impinging on the logs or combustion chamber.</p>	<ul style="list-style-type: none"> <li>- Check that the logs are correctly positioned.</li> <li>- Open air shutter to increase the primary air. See "VENTURI ADJUSTMENT" section.</li> <li>- Check the input rate: check the manifold pressure and orifice size as specified by the rating plate values.</li> </ul>
<p>Remote wall switch is in "off" position; main burner comes on when gas knob is turned to "ON" position.</p>	<p>Wall switch is mounted upside down.</p> <p>Remote wall switch is grounding.</p> <p>Remote wall switch wire is grounding.</p> <p>Faulty valve.</p>	<ul style="list-style-type: none"> <li>- Reverse.</li> <li>- Replace.</li> <li>- Check for ground (short); repair ground or replace wire.</li> <li>- Replace.</li> </ul>
<p>If optional catalytic door is used, White / grey film forms on the glass.</p>	<p>Sulphur from fuel is being deposited on the glass, logs, rocks, media or combustion surfaces.</p>	<ul style="list-style-type: none"> <li>- Clean glass with recommended gas appliance glass cleaner. <b>DO NOT CLEAN GLASS WHEN HOT!</b></li> <li>- If deposits are not cleaned off regularly, the glass may become permanently marked.</li> </ul>

## 11.0 WARRANTY

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

NAPOLEON® products are designed with superior components and materials assembled by trained craftsmen who take great pride in their work. Once assembled the complete log set is 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 LOG SET LIFETIME LIMITED WARRANTY

The Phazer™ logs in your new Napoleon® gas log set are warranted against defects for as long as you own the appliance.

Electrical (millivolt) components, burner and wearable parts such as the gas valve, thermal switch, switches, wiring, remote control, ignitor, gasketing, and pilot assembly are covered and Napoleon® will provide replacement parts free of charge during the first year of the lifetime limited warranty.

### 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 heater is subject to the following conditions and limitations: This factory warranty is non-transferable and may not be extended whatsoever by any of our representatives.

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.

In the first year only, this warranty extends to the repair or replacement of warranted parts which are defective in material or workmanship provided that the product has been operated in accordance with the operation instructions and under normal conditions.

After the first year, with respect to this President's Lifetime Limited Warranty, NAPOLEON® may, at its discretion, fully discharge all obligations with respect to this warranty by refunding to the original warranted purchaser the wholesale price of any warranted but defective part(s).

NAPOLEON® will not be responsible for installation, labour or any other expenses related to the reinstallation of a warranted part and such expenses are not covered by this warranty.

Notwithstanding any provisions contained in the President's Lifetime Limited Warranty, NAPOLEON'S responsibility under this warranty is defined as above and it shall not in any event extend to any incidental, consequential or indirect damages.

This warranty defines the obligations and liability of NAPOLEON® with respect to the NAPOLEON® gas logs 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.

Any damages to the burner or logs or other components due to water, weather damage, long periods of dampness, condensation, damaging chemicals or cleaners will not be the responsibility of NAPOLEON®.

ALL SPECIFICATIONS AND DESIGNS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE DUE TO ON-GOING PRODUCT IMPROVEMENTS. NAPOLEON® IS A REGISTERED TRADEMARK OF WOLF STEEL LTD. PATENTS U.S. 5.303.693.801 - CAN. 2.073.411, 2.082.915. © WOLF STEEL LTD.



