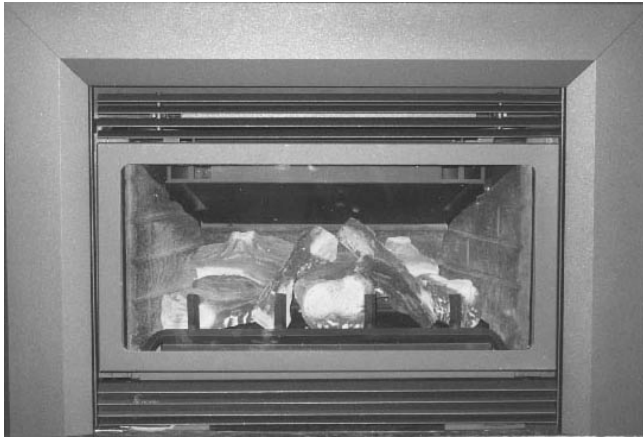




# OPTIMA 22 22-DVI24N-2

SERIAL NUMBERS 43195 AND HIGHER

FOR USE WITH NATURAL GAS OR PROPANE\*



## USERS' INSTALLATION OPERATION AND MAINTENANCE MANUAL

**WARNING:** If the information in this manual is not followed exactly, 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 neighbor's phone. Follow the gas supplier's instructions.
- \* If you cannot reach your gas supplier, call the fire department.

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



We recommend 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.

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.

\*Conversion kit required for Propane use

**Installer: Please leave this manual with the**



7116 Beatty Dr  
Mission, BC V2V 6B4  
Canada



200-1914

JUNE 2010



## INTRODUCTION

Congratulations on choosing an Archgard Gas Fireplace!

The Optima 22 Direct Vent Insert is one of the most advanced Direct Vent Insert heaters available today. It is solidly designed using the latest technology and manufactured to the highest quality. It is our aim to provide you with an appliance for many trouble-free years of reliable service.

Some of the many features of your Optima 22 Direct Vent Insert are:

- **Heater Classification.** The Optima 22 is classified as a heating appliance. Therefore, it uses Direct Vent safety technology and it is suitable for continuously operated zone heating.
- **High Efficiency.** The Optima 22 has one of the highest efficiencies of any Direct Vent gas insert, which means that it is less expensive to operate.
- **Adjustable Fan Speed.** Each Optima 22 insert comes complete with a heat-activated circulation fan with a fully adjustable speed control.
- **Adjustable Flame.** The flame aesthetics and heat output can be adjusted to suit the owner's liking and heating needs.
- **Solid Construction.** The Optima 22 is mainly constructed of 16 and 18 gauge galvanized and aluminized coated steel for long life and durability.
- **Optional Accessories.** Check with your Authorized Archgard Dealer for a full complement of decorative accessories to suit your home's décor and your tastes. Some of the accessories available are: 24K Gold Overlay (for the flat window), a variety of surrounds (faceplates) with gold, black or pewter trims and an overlay bay window that simply attaches to the front of your fireplace while leaving the flat glass door in place.
- **Millivolt Control System.** The Optima 22 uses a gas control valve that is ready for an optional wall thermostat, or a hand-held "wireless" remote control.

**We recommend you record the following information:**

Fireplace Model Number: 22-DVI24N-2 Serial Number: \_\_\_\_\_

Date of Installation: \_\_\_\_\_

Type of Gas Used by the Fireplace:  Natural Gas  Propane

Dealer's Name & Address: \_\_\_\_\_

\_\_\_\_\_

Dealer's Phone Number: \_\_\_\_\_

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**CAUTION**

**FOR YOUR SAFETY** - Do not install or operate your Archgard Optima 22 Direct Vent Gas Insert without reading and understanding this manual. Any installation or operational deviation from this instruction manual voids the Archgard Industries Warranty and may prove hazardous.

This appliance must be installed by a qualified gas installer and the installation must conform to the installation codes.

Provide adequate clearance around air openings of the appliance.

Never obstruct front openings.

Provide adequate clearances for proper operation and servicing of the appliance.

This appliance must be properly connected to an approved venting system and must not be connected to a chimney flue serving a separate solid fuel burning appliance.

**SAFETY**

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

Children and adults should be alerted to the hazards of high surface temperature and stay away to avoid burns or clothing ignition.

Young children should be carefully supervised when they are in the same room as the appliance.

Clothing or other flammable material should not be placed on or near the appliance.

Do not operate with cracked or broken glass. Be careful not to strike or slam the glass.

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating.

Installation and Repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that the control compartments, burners and circulating air passageways of the appliance are kept clean.

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.

## APPLIANCE CERTIFICATION

This appliance is tested and certified to the following USA and Canadian gas appliance standards.

- ANSI Z21.88b-2003/CSA 2.33b-2003 Vented Gas Fireplace Heaters
- CAN/CGA-2.17-M91, Gas-Fired Appliances for Use at High Altitudes

Please contact Archgard Industries Ltd., if you have any questions regarding the certification of this appliance.

## INSTALLATION CODES

This appliance must be installed by a qualified gas appliance installer. The installation must conform with the local codes or, in the absence of local codes, with the current National Fuel Gas Code ANSI Z223.1/ NFPA 54 in the US, or Installation Code CAN/CGA-B149.1 in Canada. Electrical connections and grounding must conform with local code, or current National Electrical code ANSI/NFPA No. 70-1987 in the US, and in Canada the current Canadian Electrical Code CSA C22.1.

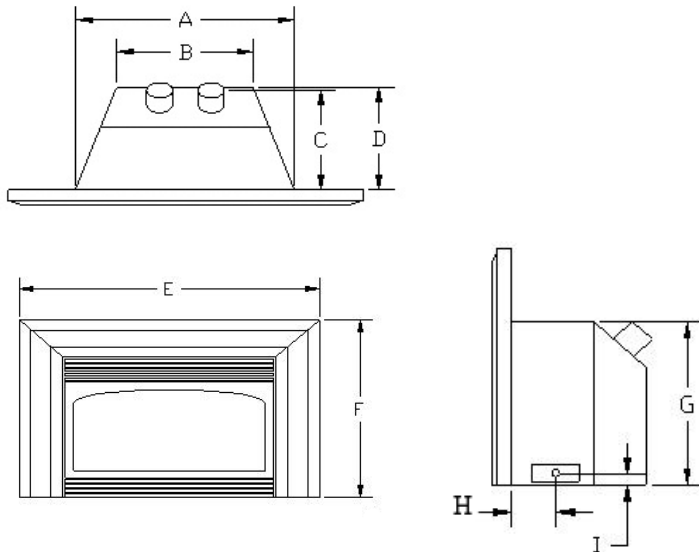
## SPECIFICATIONS

	Natural Gas (NG)	Propane (LP)
<b>Manifold Pressure</b>	1.7-3.5 in. W.C. (0.4-0.9 kPa)	6.3-10.0 in. W.C. (1.6-2.5 kPa)
<b>Min. Supply Pressure</b>	4.5 in. W.C. (1.2 kPa)	11.0 in. W.C. (2.8 kPa)
<b>Max Supply Pressure</b>	14.0 in. W.C. (3.5 kPa)	14.0 in. W.C. (3.5 kPa)
<b>Orifice Size</b>	#42 DMS (2.36 mm dia)	#54 DMS (1.40 mm dia)
<b>Nominal Input Rating</b>	16,000 - 24,000 BTU/hr (4.6 - 6.9kW)	17,000 - 23,000 BTU/hr (4.9 - 6.6kW)
<b>Electrical Rating</b>	120 VAC, 60Hz less than 2 A.	120 VAC, 60Hz less than 2 A.
<b>Gas Control</b>	ROBERTSHAW 7000 MVRB	ROBERTSHAW 7000 MVRB
<b>Altitude</b>	0 - 4,500 ft. (0 - 1372 M)	0 - 4,500 ft. (0 - 1372 M)
<b>Primary Air Opening</b>	1/4" (6 mm) OPEN	1/4" (6 mm) OPEN

## HIGH ALTITUDE INSTALLATION

When installing this appliance beyond 4500 ft. (1372 M) above sea level, the appliance must be properly de-rated and installed according to local codes, in the absence of local codes, with the current National Fuel Gas Code, ANSI Z223.1/ NFPA 54, in the US or Installation Code, CAN/CGA-B149.1 in Canada.

**APPLIANCE DIMENSIONS**



DIMENSIONS	
A	22 <sup>5</sup> / <sub>8</sub> " (575 mm)
B	13" (330 mm)
C	14" (356 mm)
D	14 <sup>1</sup> / <sub>8</sub> " (359 mm)
22-SKBAB or 22-SKCAB (STANDARD SURROUND)	
E	38 <sup>5</sup> / <sub>8</sub> " (981 mm)
F	25 <sup>5</sup> / <sub>8</sub> " (648 mm)
22-SKLB (LARGE FLAT SURROUND)	
E	41 <sup>3</sup> / <sub>8</sub> " (1050 mm)
F	28 <sup>3</sup> / <sub>4</sub> " (728 mm)
G	17 <sup>7</sup> / <sub>8</sub> " (454 mm)
H	3 <sup>3</sup> / <sub>4</sub> " (93 mm)
I	1 <sup>1</sup> / <sub>4</sub> " (32 mm)

**WARNING:** Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

The installer must mechanically attach the marking supplied with the gas fireplace insert to the inside of the firebox of the fireplace into which the gas fireplace insert is installed.

Cutting of any sheet-metal parts of the fireplace, in which the gas fireplace insert is to be installed, is prohibited.

If the factory-built fireplace has no gas access hole (s) provided, an access hole of 1 1/2" (37.5 mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship-like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

The fireplace flue damper can be fully blocked open or removed for installation of the gas fireplace insert.

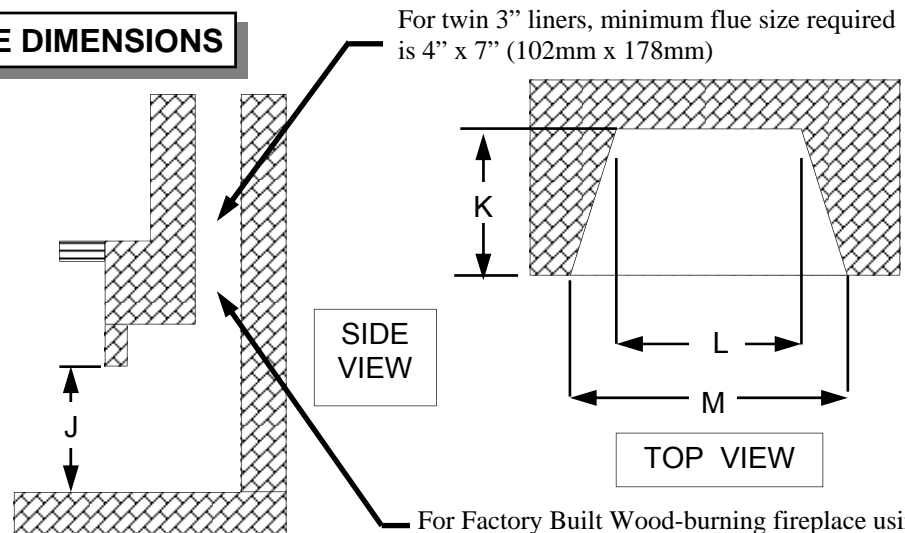
The fireplace and fireplace chimney must be clean and in good working order and constructed of non-combustible materials. The chimney cleanouts must fit properly.

Refractory, glass doors, screen rails, screen mesh and log grates can be removed from the fireplace before installing the gas fireplace insert.

Smoke shelves and baffles may be removed if attached by mechanical fasteners. Trim panels must not seal ventilation openings in the fireplace.

**MINIMUM FIREPLACE DIMENSIONS**

DIMENSIONS	
J	18" (457 mm)
K	15 <sup>3</sup> / <sub>4</sub> " (400 mm)
L	13 <sup>1</sup> / <sub>2</sub> " (342 mm)
M	23" (584 mm)



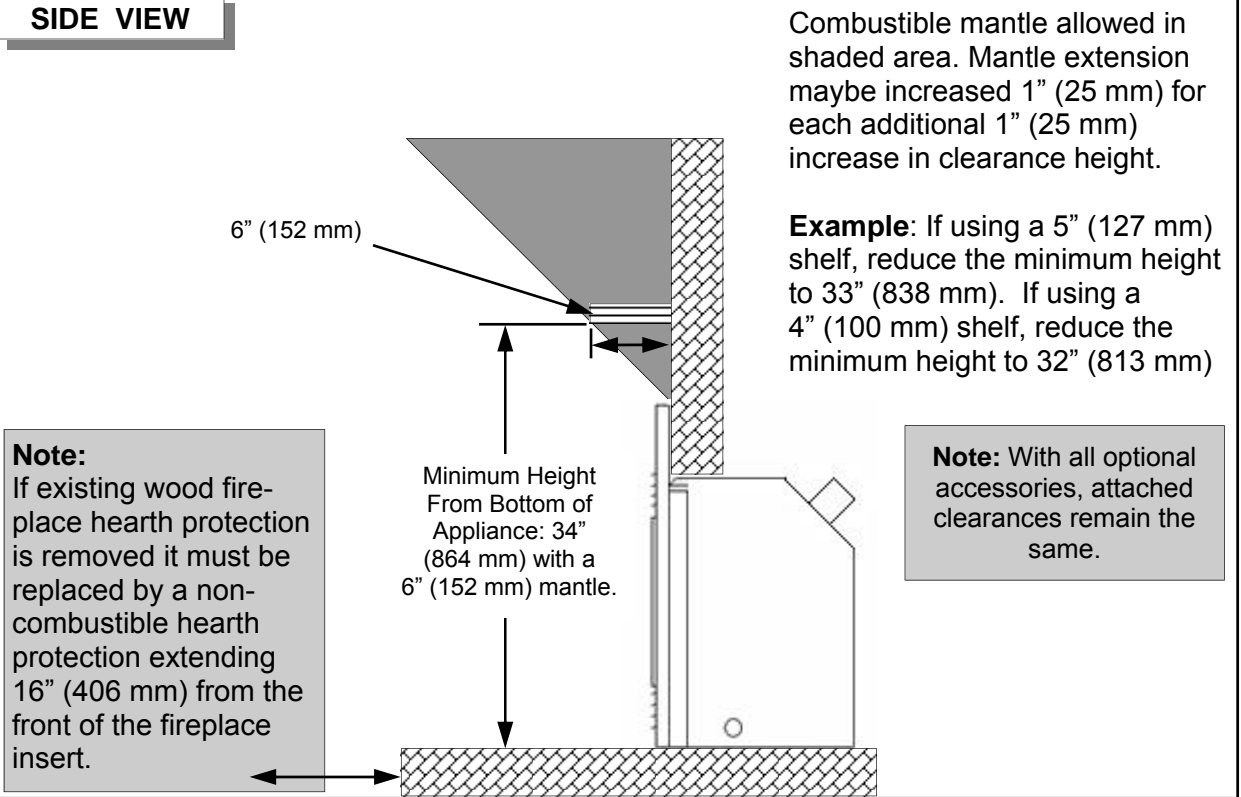
For Factory Built Wood-burning fireplace using a 6" Class A Chimney, use Archgard's 22-LKF2 Vent Kit.

**CLEARANCES TO COMBUSTIBLES**

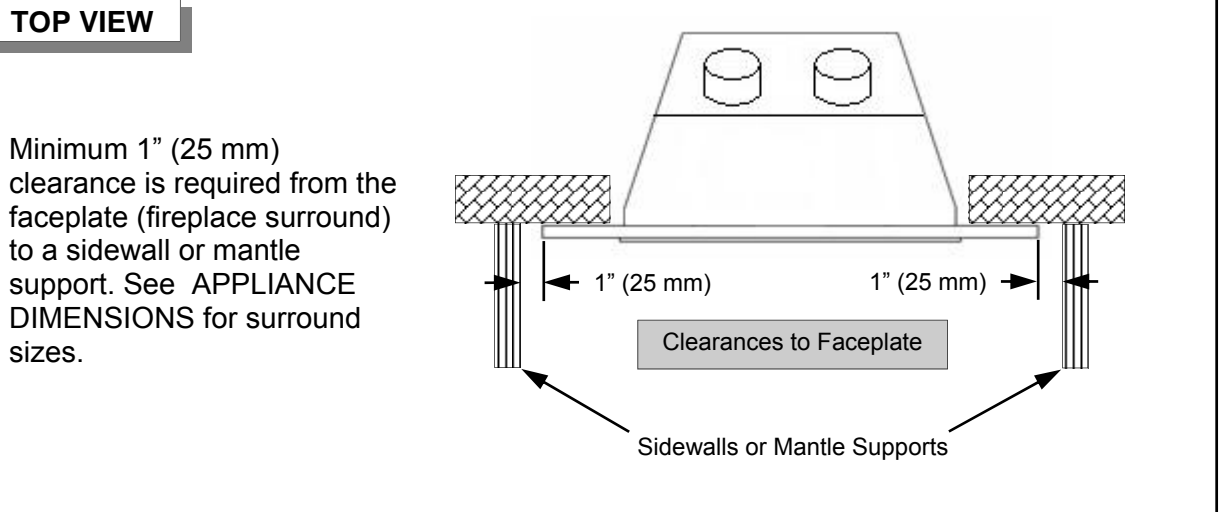
**WARNING:** Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury or loss of life.

**CAUTION:** This appliance is designed for use in any masonry or factory-built, wood-burning fireplace. It cannot be enclosed by combustible material and used as a built-in gas fireplace.

**SIDE VIEW**



**TOP VIEW**



## GAS CONNECTIONS

Before connecting the appliance to the gas supply line, double check that the appliance you have purchased is designed for the gas type you are using. The gas type markings are located on the certification label and also on the appliance's gas valve.

Adequate clearance for proper installation and checking of the gas connections must be provided. **All gas connections must be checked for gas leaks.**

Have your gas supplier or a qualified gas fitter run a gas supply line into the fireplace. The line must be properly sized and fitted according to the installation codes. Immediately upstream of the supply connection, the fitter shall provide an accessible manual shut-off valve and a 1/8" (3 mm) NPT plugged tapping accessible for connection to a test gauge. When connecting the supply line to the gas valve, the installer shall brace the gas valve to ensure that the gas valve is not moved from its bracket. If the valve is not braced when the supply line is connected, the valve may be moved and cause a "break" in the main burner supply line. Such damage is not covered by the manufacturer's warranty.

**CAUTION:** 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 (3.5 kPa). 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 (3.5 kPa). Failure to do so will damage the appliance's gas valve. Such damage is not covered by the manufacturer's warranty.

### **Natural Gas Pressure Settings:**

The inlet supply or line pressure must be a minimum of 4.5" W.C. (1.1 kPa) and a maximum of 14" W.C. (3.5 kPa). The orifice is a #42 DMS (2.36 mm) drill size.

ELEVATION	INPUT RATING
0-4500 ft (0-1372 M)	24,000 BTU/hr (6.9 kW)
4500 ft (1372 M) and above.	24,000 BTU/hr (6.9 kW) less 4% per 1000 ft. (305 M)

Please contact your local distributor for the appropriate orifice size you require.

### **Propane Pressure Settings:**

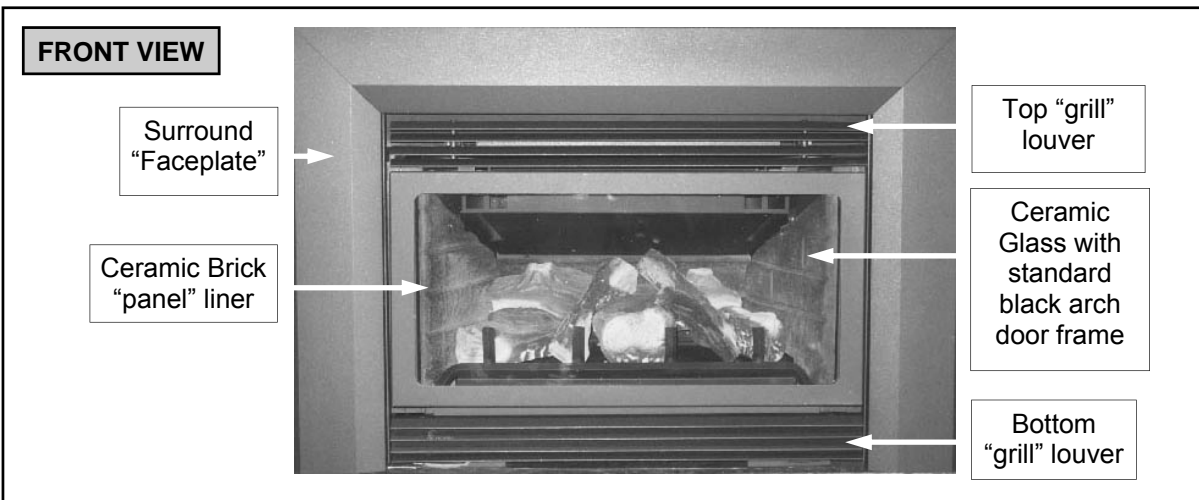
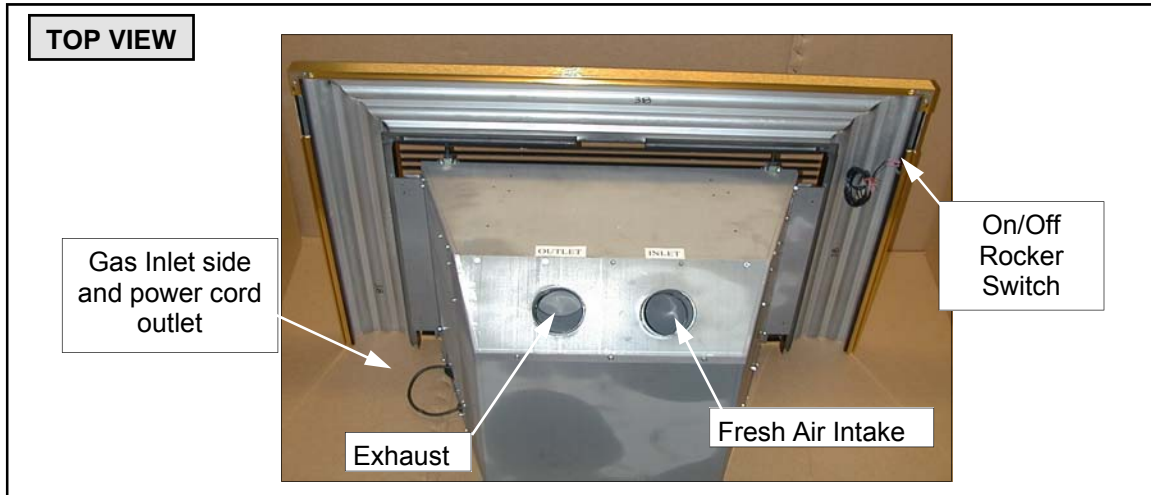
The inlet supply or line pressure must be a minimum of 11" W.C. (2.8 kPa) and a maximum of 14" W.C. (3.5 kPa). The orifice is a #54 DMS (1.40 mm) drill size.

ELEVATION	INPUT RATING
0-4500 ft. (0-1372 M)	23,000 BTU/hr (6.6 kW)
4500 ft. (1372 M) and above.	23,000 BTU/hr (6.6 kW) less 4% per 1000 ft. (305 M)

Please contact your local distributor for the appropriate orifice size you require.

**NOTE:** THE INPUT RATING SHOULD ALWAYS BE CHECKED WHEN FIRST RUNNING THIS APPLIANCE. To do this, reduce the background flow rate, time the meter, light the fireplace and take another reading after 15 minutes of operation. Check with your gas supplier for the gas BTU content at your elevation. Input is the rate of flow multiplied by the heating value of the gas (cubic feet/hour x BTU per cubic feet). Adjust the manifold pressure so that the unit does not operate above the rated input.

**APPLIANCE DESCRIPTION**



**LEVELING THE OPTIMA 22 DIRECT VENT INSERT**

Before placing the appliance into the fireplace, check the hearth of the fireplace to see if it is level with the front of the fireplace. If it is not, measure the depth of the hearth. Loosen the three screws of the leveling "L" bracket at the back of the appliance. Lower it to the measurement obtained and tighten the screws.

**ELECTRICAL CONNECTIONS**

The Optima 22 comes complete with a temperature-activated fan and rheostat installed and wired to a three-prong (grounding) plug for your protection against shock hazard and should be plugged in directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

**NOTE:** This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the **National Electrical Code, ANSI / NFPA 70**, or the **Canadian Electrical code, CSA C22.1**.

## VENTING INSTRUCTIONS

**WARNING:** Operation of this heater when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death. The appliance must not be connected to a chimney flue serving a separate solid fuel burning appliance.

**Caution:** Only two 3" (76 mm) "FLEX-MASTER" Model GA Gas Flex Vent Liners, optional Liner Kit 22-LKF2 (or approved equivalent) and \*Archgard-approved vent terminals may be used.

\*Archgard-approved vent terminals are:

- ❖ Archgard terminal. Part # 999-INS-TK.
- ❖ Simpsons Dura-Vent terminal. Part #980, 923GK (adaptor with flashing) or 991 (high wind cap)

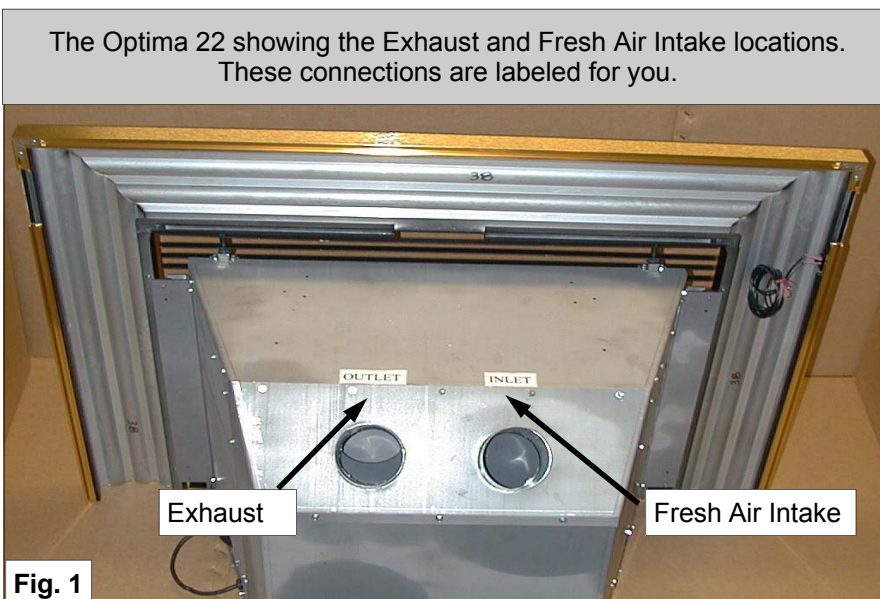
**NO OTHER VENTING SYSTEM OR COMPONENTS MAY BE USED.** If you are using "Dura-Vent" vertical termination cap, follow the instructions provided with the "Dura-Vent" cap.

This appliance is designed to attach to two 3" (76 mm) co-linear aluminum flex gas liners (or an 22-LKF2 Liner Kit) running the full length of the chimney. The flue length must be a minimum of 8' (2.44 M) and a maximum of 35' (10.6 M) **(The exhaust vent restrictor provided with this appliance must only be used by installing it in the exhaust collar, before attaching the flex liner, on Natural gas units with vent heights to 20' (6.1 M) restrictor #1 20' and above restrictor #2).** Also refer to the following page for details. The minimum flue size is 4" x 7" (100 mm X 178 mm). With a 22-LKF2 kit, minimum flue size is 6" round Class A wood-burning chimney. **DO NOT USE ANY VENT RESTRICTORS WITH THE 22-LKF2 KIT.** Masonry chimneys may take various contours which the flexible liner will accommodate, however, keep the flexible liner as straight as possible, avoiding unnecessary bending but at all times keep a minimum of 3" (76 mm) inside bend radius.

The Air Intake Flex Liner must be connected to the inlet air collars of the termination cap and the appliance. The Exhaust Flex Liner must be connected to the exhaust collars of the termination cap and the appliance. **(DO NOT MIX-UP THESE CONNECTIONS).**

The Air intake and Exhaust connections are marked on the gas appliance. See Fig. 1.

**CAUTION:** To ensure that the venting path is not accidentally obstructed or punctured, the damper of the host fireplace must be permanently disabled by either complete removal of the damper, or welding it in its "open" position. Temporarily disabling the damper with braces, wedges, brackets, etc., is not allowed.



**The Optima 22 requires two flexible gas flue liners:**

**Flue Collar (inlet) -**  
3" (76 mm) diameter

**Flue Collar (outlet) -**  
3" (76 mm) diameter

**Optional -**  
2" (50 mm) diameter

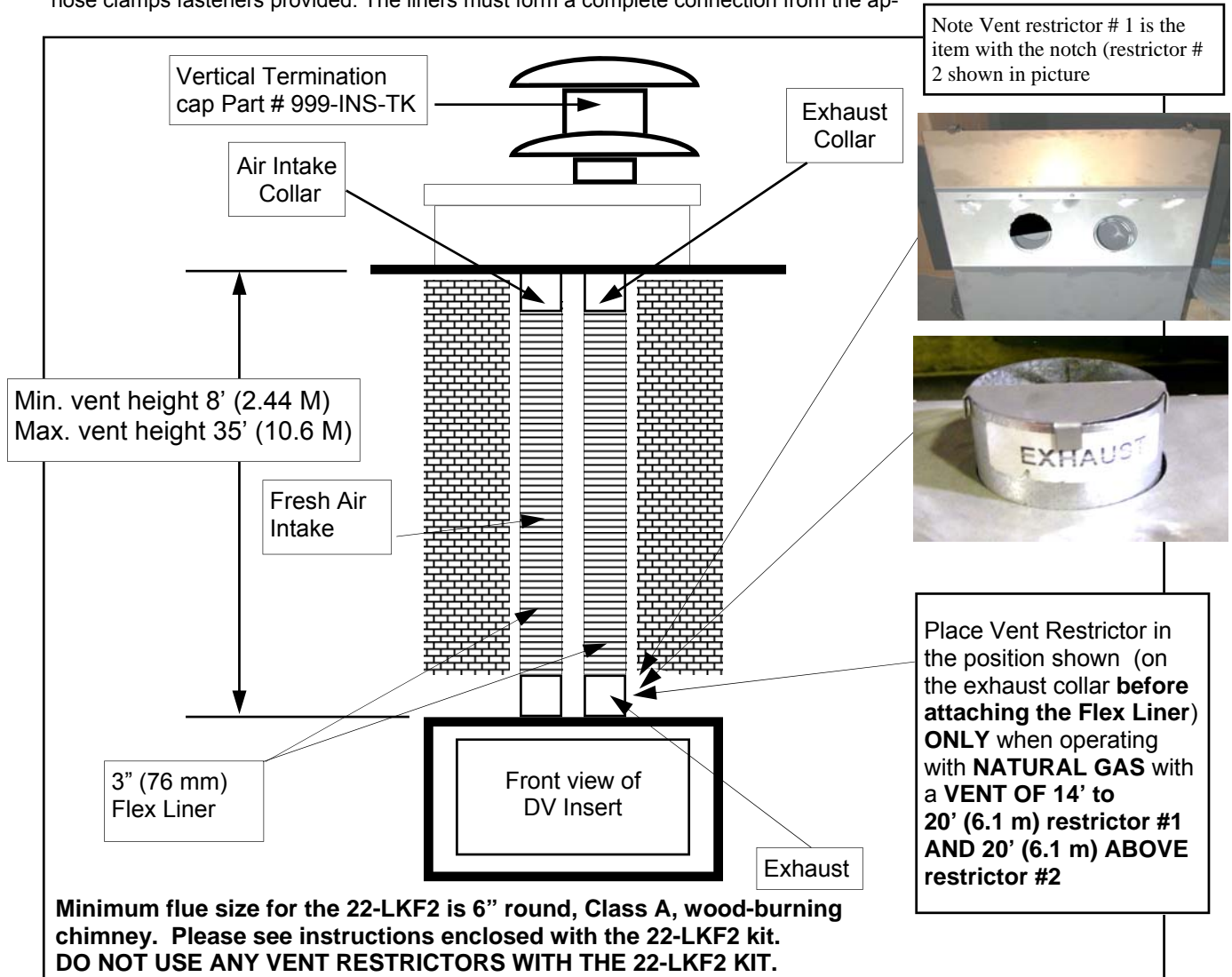
**VENTING INSTRUCTIONS 999-INS-TK**

Instructions for use with Archgard vertical termination cap - Part # 999-INS-TK.

Install the termination cap making sure to provide sufficient space (around and on top) so as not to impede the flow of air, both into and out of the cap. This cap is only to be used for non combustible installations. Do not recess into the top of the chimney.

1. Mark each end of one liner with "Air Intake".
2. Mark each end of the second liner with "Exhaust".
3. Pull the liner through the chimney.
4. Install the flashing.
5. Seal and attach the liner marked "Air Intake" to the vent terminal pipe marked "Air Intake" with the collar clamp provided.
6. Seal and attach the liner marked "Exhaust" to the vent terminal pipe marked "Exhaust" with the collar clamp provided.
7. Seal and attach the end of the flex marked "Air Intake" to the collar marked "Air Intake" on the appliance with the collar clamp provided with the unit.
8. **Install one of the exhaust vent restrictors provided with the unit on Natural Gas appliances only. For vent heights between 14' (4.25 Meters) and 20' (6.1 Meters) use restrictor #1, for vent height installations over 20' (6.1 Meters) use restrictor #2.** Seal and attach the end of the flex marked "Exhaust" to the collar marked "Exhaust" on the appliance with the collar clamp provided with the unit..
10. Caulk all joints as usual.

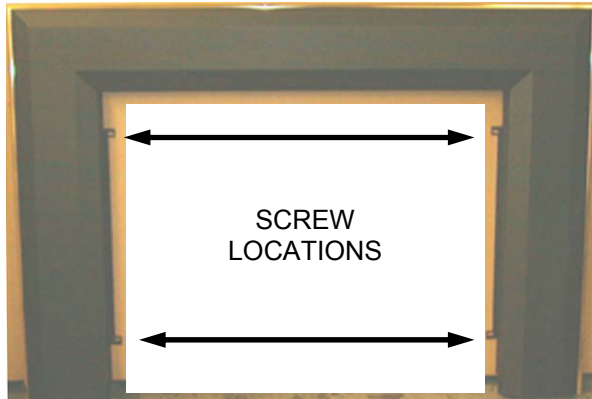
NOTE: The vertical termination cap must be sealed to the liner with suitable high temperature sealant and with the hose clamps fasteners provided. The liners must form a complete connection from the ap-



The minimum flue (chimney) size required to run the two 3" (76 mm) is 4" x 7" (100 mm X 178 mm)

**SURROUND INSTALLATION**

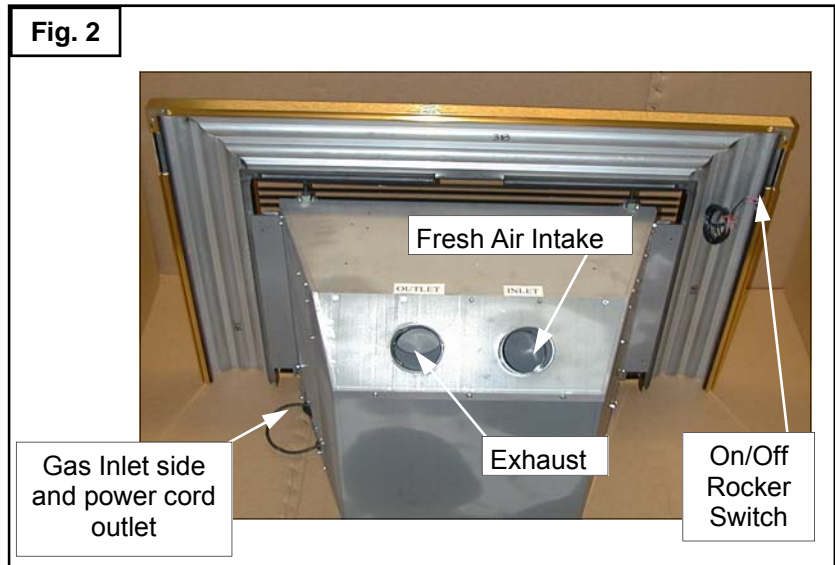
Make sure the gas and electrical lines are properly connected to the appliance. Slide the unit into the fireplace and slide the excess flue liner material back onto the chimney. Before the appliance is fully recessed into the fireplace, attach the surround onto the appliance. The return flange on the side of the surround fits on the inside of the mounting rails on the appliance. Attach the surround to the appliance at the locations shown with the four (4) screws provided. Then finish with the wiring connection to the on/off switch on the side of the trim. Now fully "seat" the unit into its final position.



**CAUTION:** Only Trim kit (s) supplied by the manufacturer should be used in the installation of this appliance.

**TRIM INSTRUCTIONS FOR THE SKBAB, SKCAB & SKLB SURROUNDS**

1. Using the trim clips provided, join the left side trim (which has a notch cut for rocker switch) to the top trim as shown in (Fig.1). Repeat with the right side trim.
2. Peel the backing from the sticky tape, then slip the assembled trim over the surround.
3. Locate the rocker (on/off) switch (with the ON side up) and push it in the notch located on the left side.
4. Remove the coiled wires from the left side of the firebox and connect it to the rocker switch tabs.
5. The switch wires have crimped connections that are factory installed. Simply connect the crimped connections to the on/off (rocker) switch located on the surround.



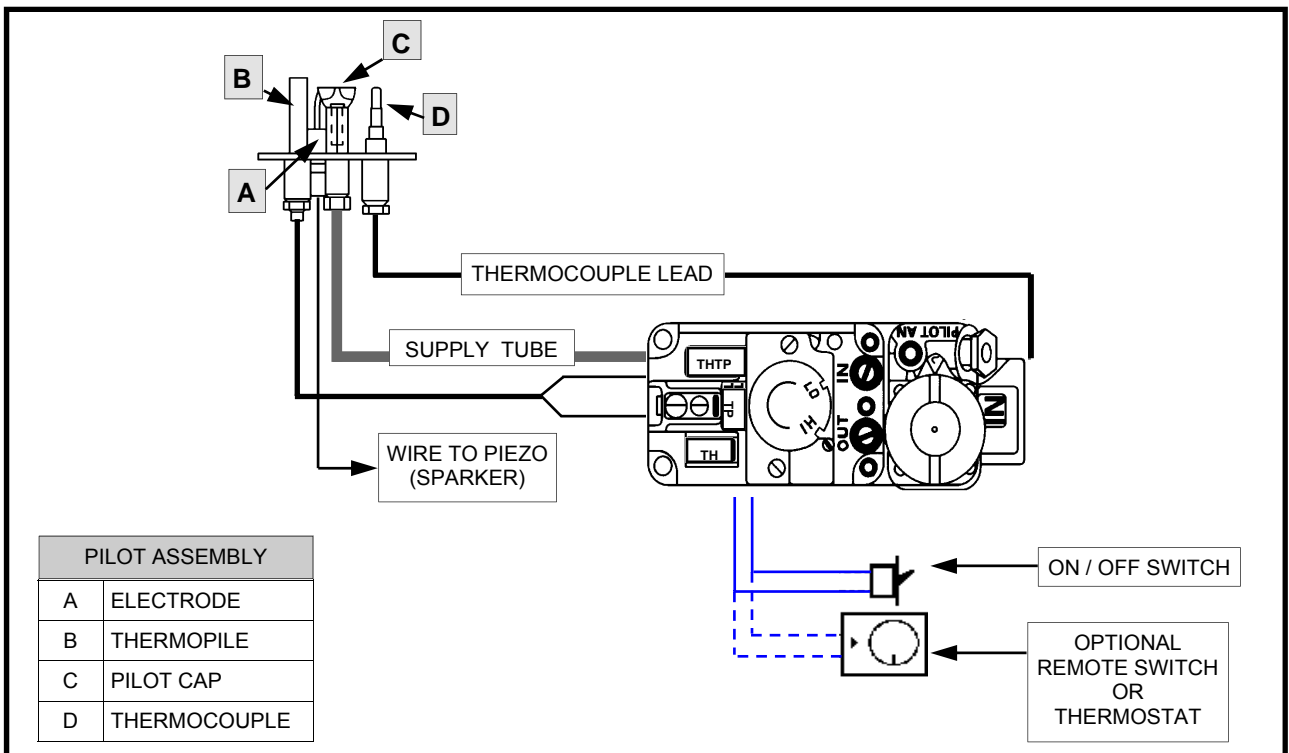
**OPTIONAL WALL SWITCH OR THERMOSTAT**

If a wall-mounted switch or a wall-mounted thermostat is desired, Archgard recommends that the device be wired as shown in Fig 1. This will allow the original on/off rocker switch to be used in case the device that is mounted to the wall becomes inoperable.

**Note:** Archgard Industries Ltd. does not manufacture or sell any wall switch or wall thermostat, and will not extend warranty to them.

Thermostat / wall switch wire table Recommended Maximum Lead Length for two wires.	
Wire Size	Max. Length
14 GA.	50 Ft. (15.24 M)
16 GA.	32 Ft. (9.75 M)
18 GA.	20 Ft. (6.9 M)
20 GA.	12 Ft. (3.65 M)
22 GA.	9 Ft. (2.74 M)

**VALVE CONNECTION FOR MILLIVOLT VALVE**



**LOG PLACEMENT**

The Archgard pan burner bed and fiber logs are designed to give a realistic fire package, and created to look the same as the day they were originally installed. Care must be given when first installing the logs, and if removed for servicing, as they can be damaged or broken if not handled properly.

After opening the log set package, inspect the logs to ensure that no damage has occurred inside the package. Please report any damage immediately to your Authorized Archgard Dealer.

Gas and vent connection must be made before installing the embers and logs on the pan burner.

**NOTE:** Improper placement of logs and embers may cause sooting on the internal parts and glass and will not be covered under warranty. Do not use broken or damaged logs.

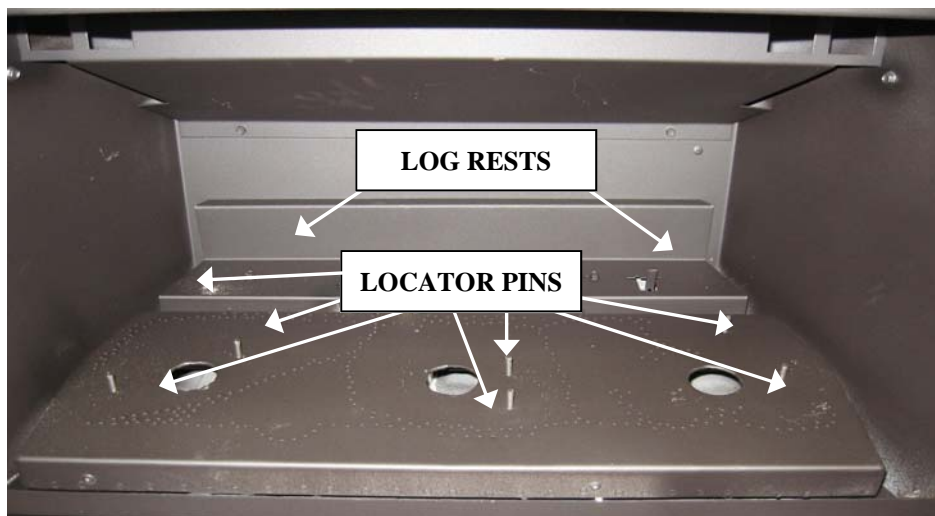
**WARNING:**

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

Locate the embers, logs and grate and place them on their prospective locations. Refer to the pictured instructions on the following pages that will show how to place all six (6) logs. The bottom of each log has a 3-digit code that can be used as a reference to help locate the correct log. Pins and holes must be aligned with logs and burner.

**IMPORTANT:** Embers should not be placed over the burner ports. Do not use more than one gram of embers. Separate the material and spread around the pan as shown below. Be sure to follow handling instructions on the bag.

**Locator Pins and Embers Shown**



**NOTE:** Installing the fiber logs in any other position other than shown will result in flame impingement causing sooting of the logs, brick liner and ceramic glass viewing area.

**LOG PLACEMENT... Continued**

**Step 1.** Locate right log and place it on the locator pins as shown. The back of the log should rest on the log rest to allow secondary air to flow under the log.



**Step 2.** Locate the back log so the left side of the log is on the locator pin and the right side sits on top of the notch on the back of the right log.



**LOG PLACEMENT... Continued**

**Step 3.** Locate the left log and place it on the two left locater pins so the detail is facing foward



**Step 4.** Locate the center log and place it on the two center locater pins so the burnt portion is facing foward



**LOG PLACEMENT... Continued**

**Step 5.** Locate the top right log so the top bottom burnt part of the log rests on the burner pan making sure it is not blocking any ports. The top of the log should rest on the rear log and the branch should rest on the center log.



**Step 6.** Locate the top left log and place it so the burnt portion faces to the right. The bottom of the log should rest on the burner so as not to block any of the burner ports and the top should rest on the rear log.



**LOG PLACEMENT... Continued**

**Step 7.** Locate the grate and place it as shown.



**Step 8.** Ember Placement - see page 15 for details.

**CERAMIC BRICK PANELS**

The Archgard brick and reflective glass panels offer a variety of looks to customize your fireplace and are purchased separately. Care must be given when first installing the bricks, and if removed for servicing, as they can be damaged or broken if not handled properly.

After opening the brick or reflective glass panels set package, inspect to ensure that no Damage has occurred inside the package. Please report any damage immediately to your Authorized Archgard Dealer.

Gas and vent connections must be made before installing the brick and reflective panels.

NOTE: Improper placement of panels may cause sooting on the internal parts and glass, and will not be covered under warranty. Do not use broken or damaged logs.

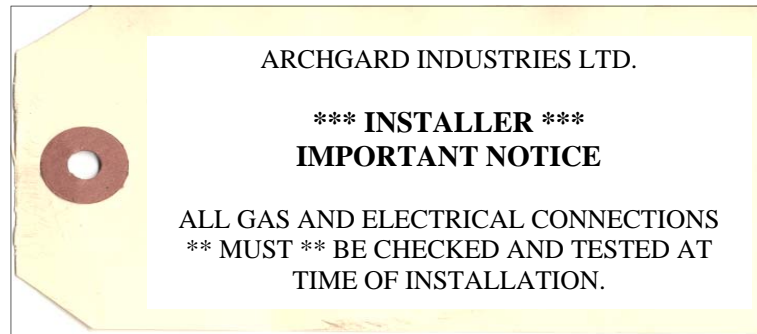
## FINAL INSTALLATION CHECK

Each Archgard Gas Fireplace is checked and tested at the factory prior to being packaged and shipped to our dealers and finally installed in your home. Archgard recommends that before leaving this unit with the customer, the installer must ensure that the appliance is firing correctly and that the electrical system is in working order. **This will include:**

1. Perform leak tests of supply line, gas control valve, supply line from gas control valve and pilot assembly.
2. Clocking the appliance to ensure the correct firing rate (see page 9 of this manual).
3. If required, adjusting the primary air to burner to ensure that the flame does not carbon or soot. (see page 28 of this manual for instructions on Adjusting Primary Air)
4. Check for proper operation including correct drafting.
5. The FAN system should be turned ON for a minimum of 10-15 minutes to ensure that the fan, rheostat and fan sensor are all working correctly. After the system has been checked and confirmed that the fan components are in working order, turn the fan system OFF and refer to the instructions for FIRST FIRE located in this manual.

As a reminder, a TAG is attached to all of our gas fireplaces. This TAG is located at the gas control valve. See Fig 1.

Fig 1.



**Any alteration to the product that causes carboning or sooting that results in any damage or requires cleaning is not the responsibility of the manufacturer.**

## INITIAL OPERATION

1. Check that the appliance is properly vented and connected to the gas supply.
2. Check that the logs and branches are properly placed.
3. Check that all external parts, such as grills, door and faceplate are properly attached and fastened.
4. Do not operate this appliance with broken, cracked glass doors or without the door (s) in its correct (and latched) position. Do not abuse the glass by either striking or slamming shut.
5. Check that there are no fingerprints left on gold surfaces or glass panels, as high temperature can bake these prints on permanently.

**FIRST FIRE**

When operated for the first few times, the appliance will emit some odor and fumes. This is due to the heat from the appliance evaporating the oils and solvents used in fabricating the appliance. Close off the room to the rest of the house and open all windows. Keep the room well ventilated, as smoke alarm may sound. Run the appliance for at least 6 hours at maximum setting with blower set to "OFF" to allow paint to cure (after the installer has checked to ensure the fan is operational). Smoke and fumes caused by the curing process may cause discomfort to some individuals.

**LIGHTING INSTRUCTIONS - CAUTION**

**WARNING :** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Do not operate the appliance with the glass front removed, cracked or broken. Replacement of broken glass should be done by a licensed or qualified service person.

This appliance has a pilot which must be ignited using the sparker located next to the appliance valve controls. When lighting the pilot, follow the start-up procedures **exactly**. See next page or rating plate for complete lighting instructions.

1. BEFORE LIGHTING, smell all around the appliance area for gas. Be sure to smell next to the floor, because some gases are heavier than air and will settle on the floor.
2. IF YOU SMELL GAS, follow the instructions on the front cover of this manual.
3. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair of gas control knob may result in a fire or explosion.
4. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

## LIGHTING INSTRUCTIONS ON RATING PLATE

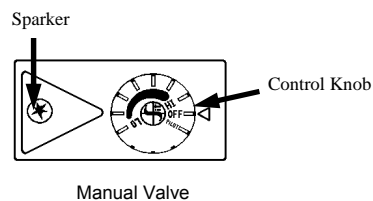
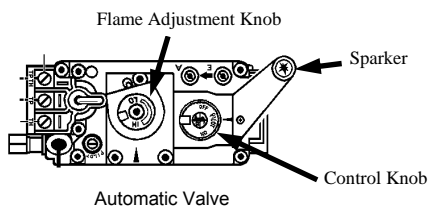
### FOR YOUR SAFETY READ BEFORE LIGHTING

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

- A. This appliance has a pilot which must be lighted by a spark ignitor. When lighting the pilot follow these instructions exactly.
- B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- WHAT TO DO IF YOU SMELL GAS
- Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand don't try to repair it, call a qualified service technician. Forced or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

### LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Set the remote switch to "OFF". Set the thermostat to the lowest setting. (Only if your appliance is equipped with these devices.)
3. Turn off all electric power to the appliance.
4. Open lower louvers or access door.
5. Press slightly and turn the control knob clockwise  $\curvearrowright$  to the "OFF" position.
6. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! and follow instruction "B" above.
7. Find pilot. It is located between the logs near the center behind the burner.
8. Press slightly and turn control knob counterclockwise  $\curvearrowleft$  to "PILOT". Depress knob and light pilot by repeatedly pressing the sparker. Once flame is established, hold knob depressed for approximately 30 seconds. Release knob. If pilot should go out, repeat steps 3 to 5.
  - If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
  - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
9. Turn on all electric power to the appliance.
10. Close louver or access door.



Pilot

### TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to the lowest setting and turn the remote switch to "OFF".
2. Turn off all electric power to the appliance if service is to be performed.
3. Open lower louvers or access door.
4. Press slightly and turn control knob clockwise  $\curvearrowright$  to "OFF". Do not force.
5. Close lower louvers or access door.

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## GLASS DOOR REMOVAL

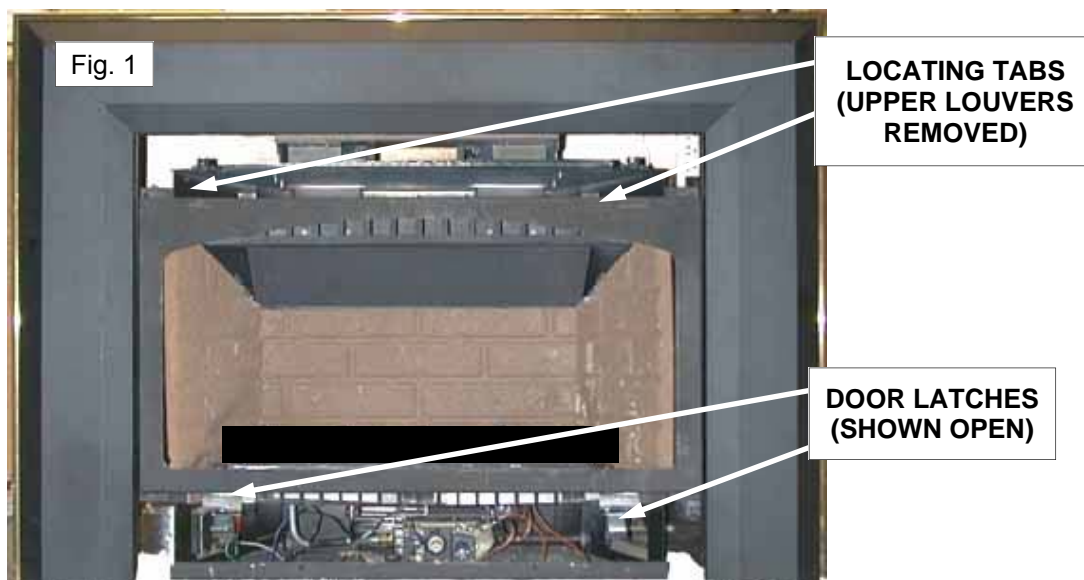
**WARNING:** Do not operate appliance with the glass front cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

**CAUTION:** Do not attempt to remove the glass door when the appliance is hot.

1. Remove the TOP louver by pulling the entire louver assembly towards you.
2. Open up the BOTTOM louver assembly to expose the control valve.
3. Locate the 2 buckle latches under the glass door frame (Fig.1) and pull down the lever on the back of the latches to release them.
4. Unhook the latches from the bottom of the door and swing the bottom of the door towards you - then lift up on the whole door to unhook the top of the door. Carefully remove the door and put it away at a safe location where it cannot be scratched or damaged.

### Replacing the Glass Door

The reverse procedure of Removing the Glass Door.



## IF YOUR GLASS BREAKS

In the event your glass cracks or breaks, Archgard recommends that a new door assembly be ordered to replace the original door.

- Remove door as per the instructions above.
- Replace with new door assembly.

**NOTE:** the NEW door will emit some odor when the appliance is re-lit and the odor will dissipate after the gasket material within the door has cured.

**Warning :** Do not use substitute glazing materials

**OPTIONAL BAY DOOR INSTALLATION**

**WARNING: THE OPTIONAL BAY DOOR (22-DBAY) IS A DECORATIVE OPTION ONLY AND IS MANUFACTURED WITH TEMPERED GLASS. THIS UNIT MUST NOT BE OPERATED WITHOUT THE FLAT CERAMIC GLASS DOOR SECURED IN PLACE, BEHIND IT.**

After opening the bay door package, inspect the door to ensure that no damage has occurred inside the package. Please report any damage immediately to your Authorized Archgard Dealer.

**Installation of the Bay Door Option does not change any clearances stated on the rating plate/ or Installation Operation and Maintenance Manual accompanying the appliance.**

**NOTE: Ensure that the Heater is turned off and cool.**

To install this Bay Door Accessory use the following instructions:

1. Remove the upper grilles by pulling the assembly forward.
2. Remove the lower grilles by removing the four hex head mounting screws that secure the brass hinges to the unit.
3. Discard the upper and lower grilles (they are not required for Bay door installation).
4. Move the Bay Door over the front of the insert, line up the slots in the upper area slightly above the corresponding tabs at the front top of the firebox, and push the assembly down. Align the hi/lo and on/off knobs (supplied) over the existing knobs by lining up the notches.
5. The lower louver (center) hinges down for control access.

**CAUTION:**

Only trim kit (s) supplied by the manufacturer may be used in the installation of this appliance.

## TROUBLESHOOTING

Please check to make sure the instructions are followed exactly before attempting troubleshooting of the appliance.

**WARNING:** Troubleshooting and servicing of gas and electrical devices of the appliance should only be conducted by a qualified service technician.

SYMPTOM	ACTION
Pilot will not light after pressing the sparker many times.	<ol style="list-style-type: none"> <li>1. When lighting the appliance for the first time after installation or after servicing, there is air in the gas line. It takes a while for all of the air to purge out of the pilot before gas can reach the pilot and ignite. Remove the glass door and try lighting the pilot many times to purge the air.</li> <li>2. Check to make sure the gas supply to the appliance is turned on and there is adequate gas supply pressure to the appliance.</li> <li>3. Check for sparks between the spark electrode and the pilot head when the sparker is pressed. If there are no sparks:               <ol style="list-style-type: none"> <li>a. Check for broken or poor connection from the sparker to the electrode.</li> <li>b. Check for the spark shorting or arcing at other locations.</li> <li>c. Check for defective sparker.</li> <li>d. Check for defective spark electrode.</li> </ol> </li> <li>4. With the door removed, try lighting the pilot with a match.               <ol style="list-style-type: none"> <li>a. If air is blowing on the flame of the match, hold the control knob in at the '<b>PILOT</b>' setting until all the air is purged out of the line.</li> <li>b. If there is no gas or air coming out of the pilot and there is gas pressure to the appliance, the pilot orifice may be blocked or the gas valve may be defective.</li> </ol> </li> </ol>
Pilot will not remain on after being lit.	<ol style="list-style-type: none"> <li>1. Press the control knob all the way in (at the "pilot" indicator).</li> <li>2. Hold the control knob in for a longer period of time.</li> <li>3. If you are trying to re-light the pilot immediately after you have shut-off the pilot, you have to wait 5 minutes for the valve to reset. (safety system built into the valve)</li> <li>4. Check to see if the pilot flame is large enough to reach and surround the thermocouple. If the flame is too small, check for correct gas supply pressure. If pressure is good, adjust the pilot flame size with the adjustment screw on the valve. If the flame cannot be adjusted, there might be some debris obstructing the pilot orifice, or a wrong size pilot orifice.</li> <li>5. Check for poor connection of the thermocouple to the valve.</li> <li>6. Check for proper millivolts of the thermocouple. The thermocouple should generate at least 20 mV or it is defective.</li> <li>7. Check for defective gas valve.</li> </ol>
The main burner does not turn on with the pilot lit.	<ol style="list-style-type: none"> <li>1. Check to make sure the control knob is turned to the '<b>ON</b>' position.</li> <li>2. Allow enough time for the pilot to heat up the thermopile to generate sufficient voltage to activate the valve.</li> </ol>

## TROUBLESHOOTING Cont...

SYMPTOM	ACTION
The main burner does not turn on with the pilot lit. Cont...	<ol style="list-style-type: none"> <li>3. Check to make sure the thermostat is set high enough to turn on the appliance.</li> <li>4. Check that the remote switch or the thermostat is turned on.</li> <li>5. Check for weak pilot flame. If the flame is weak, check gas supply, check pilot flame adjustment and check for blockage of pilot orifice.</li> <li>6. Check all connections to the valve for tight electrical contact.</li> <li>7. Check for 400-500 mV from the thermopile with the burner off and 185-250 mV with the burner on. If the voltages are lower, the thermopile is defective.</li> <li>8. Check for defective gas valve.</li> </ol>
The main burner shuts off when the appliance is warm.	<ol style="list-style-type: none"> <li>1. This may be the normal operation of a wall thermostat installed to appliances.</li> <li>2. Check for good pilot flames on the thermopile.</li> <li>3. Check for good voltage from the thermopile.</li> <li>4. Check for proper functioning of venting system (blocked)</li> <li>5. If venting is suspected, refer to the venting section of this manual for proper venting practices.</li> <li>6. Check wire connections. Expansion from heat affects a loose connection.</li> </ol>
Sooty deposits on the glass door.	<ol style="list-style-type: none"> <li>1. If the flame is yellow and lazy, check for lint etc. around primary air shutter. Increase primary air by opening the primary air shutter if necessary.</li> <li>2. Check for proper placement of the logs and branches. Ensure logs and burner are clean. See that section in the instruction manual.</li> <li>3. Check for proper venting and blockage of the vent termination.</li> <li>4. Check manifold pressure and clock input rating for over-firing.</li> </ol>
Sharp blue flames with flames lifting off the burner at the ends.	<ol style="list-style-type: none"> <li>1. Too much primary air. Reduce primary air by closing the primary air shutter. During cold temperatures, some flame lifting may occur during start-up.</li> </ol>
Convection blower does not turn on.	<ol style="list-style-type: none"> <li>1. The convection fan is thermostatically controlled. It will only turn on when the appliance is warmed-up. This may take up to 15 minutes with the appliance on high.</li> <li>2. Check for 120 VAC electrical supply to the appliance. (Is the cord plugged in?)</li> <li>3. Check for proper mounting of the thermal snap disc.</li> <li>4. Check electrical connections.</li> <li>5. Check for defective thermal snap disc.</li> <li>6. Check for defective convection blower speed controller.</li> <li>7. Check for defective convection blower.</li> </ol>

**MAINTENANCE****CAUTION:**

Do not conduct maintenance on the appliance while it is operating or while it is still hot.

**CLEANING THE APPLIANCE**

The exterior painted surfaces, glass and gold trims may be cleaned with a soft, non-abrasive cloth and water or a suitable, mild, non-abrasive cleaner.

**Regularly:**

- Frequent cleaning of the ceramic glass is required. Archgard recommends using a good quality “gas fireplace” glass cleaner that is available at any hearth retail location. **DO NOT CLEAN WHILE HOT.**
- Clean and remove any lint accumulations or debris from the grills and in any combustion and convection air passage ways.
- Keep the appliance area free from combustible materials, such as paper, wood, clothing, gasoline and flammable solids, liquids and vapors.
- Visually check the height and color of the burner and pilot flames.

**Every 2 to 3 months:**

- Remove the glass door and clean the inside of the glass with a good quality “gas fireplace” glass cleaner. **DO NOT CLEAN WHILE HOT.**
- Carefully remove the logs and gently brush off any loose carbon deposits. This job is best done outside the house, wearing a dust mask. The logs are very fragile, take care not to break them. **Do not wash logs with any liquid.** While the logs are removed, check that all burner openings are not obstructed and it is recommended you use a vacuum cleaner to clean off any dust or lint.
- After cleaning, the logs and embers must be replaced as per the instructions in this manual.

**Once a year, have a qualified service technician:**

- Completely inspect the appliance and the venting system, if the vent pipe or seal is found to be defective, replace and or reseal (follow the instructions found in the installation section)
- Clean and remove any lint accumulations or debris in the firebox, on the burners, on the pilot, at the primary air opening, on the convection air blower and in any combustion and convection air passageways.
- Check the safety system of the gas valve and the appliance.

**WARNING: All parts removed or disturbed, including guards and grills, must be properly replaced after maintenance. Service and repair must be conducted by a qualified service person. If these instructions are not followed, a fire or explosion may result, causing property damage, personal injury or loss of life.**

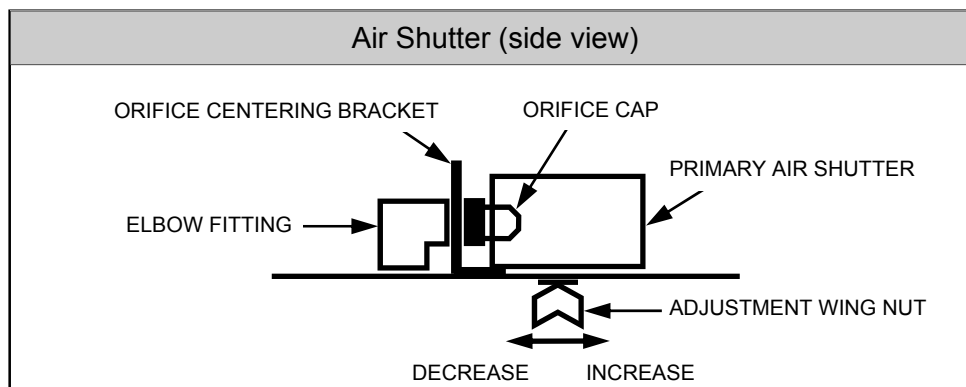
## SERVICING UNDER WARRANTY

Before servicing, read the terms and conditions of the Archgard warranty at the back of the manual. Contact the authorized Archgard dealer where you purchased the appliance from and provide them with details of the problem, together with the initial installation information (from the back of this manual).

**WARNING:** Servicing of this appliance **must be conducted by a qualified service technician**. Improper servicing, adjustment or alteration of this appliance may cause property damage, personal injury or loss of life. All servicing should be conducted with the appliance cold. All replacement parts must be authorized by Archgard for suitability.

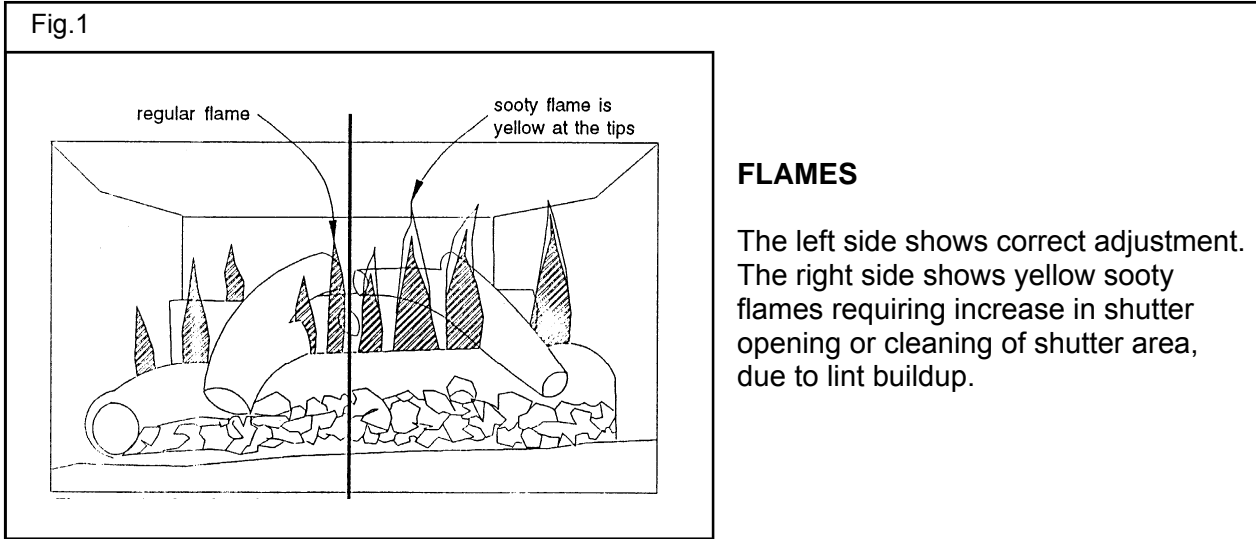
## ADJUSTING PRIMARY AIR

1. Open the lower grills.
2. Unscrew the 2 screws holding the control panel and remove the panel.
3. The primary air adjustment wing nut is located behind and to the left of the control valve.
4. Loosen the wing nut and slide the primary air shutter to the right to increase primary air and to left to reduce primary air.
5. Tighten the wing nut after adjustment.



### ADJUSTING PRIMARY AIR

NOTE: Fig. 1 is to give an *example* of what a correct or incorrect flame pattern looks like. It is not a true representation of what the Optima 22 will look like in your home environment.



### CHANGING MAIN BURNER ORIFICE

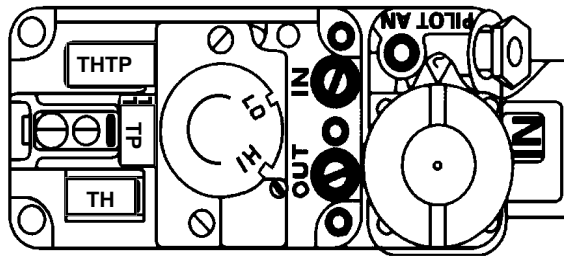
1. Remove the glass door. Follow GLASS DOOR REMOVAL instructions within this manual.
2. Locate & slide the Primary Air Sleeve fully toward the left. This will allow the sleeve to disconnect from the burner tube. Follow ADJUSTING PRIMARY AIR instructions within this manual for reassembly.
3. Remove the logs. See LOG PLACEMENT for instructions.
4. Remove the brick liners and remove the screws holding the burner pan.
5. Carefully remove the pan burner by sliding it to the right and lifting it out.
6. Use a  $\frac{5}{8}$ " wrench to hold the orifice holder fitting. Use a  $\frac{1}{2}$ " (13 mm) wrench to remove the orifice cap.
7. Change the orifice cap to the fuel type desired. Use a small quantity of gas thread seal compound. Do not overtighten.
8. Reverse steps 1 to 6.

THIS APPLIANCE IS EQUIPPED FOR NATURAL GAS. An additional CONVERSION kit is required to convert for Propane use. To order the CONVERSION kit, please contact your Authorized Archgard Dealer.

### CHECKING INLET AND OUTLET GAS PRESSURE

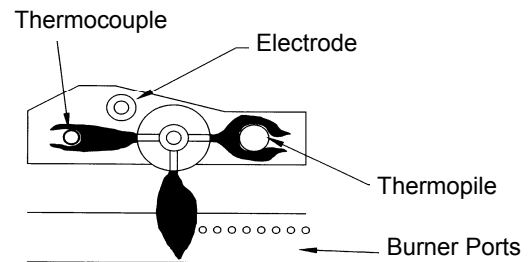
1. Open the lower grills.
2. The pressure test taps are located on the valve. The taps are located in the gas valve front face. The inlet is marked 'IN' and the outlet is marked 'OUT'. See Fig.1.
3. Loosen the set screw inside the tap with a Philips (+) screwdriver.
4. Connect a 1/4" (6 mm) rubber tube to the tap post and a manometer.
5. Verify that the readings obtained are within specs (as shown on the appliance rating plate)
6. Be sure to tighten the set screw inside the tap after you have finished taking pressure readings.
7. Check for leaks.

Fig.1



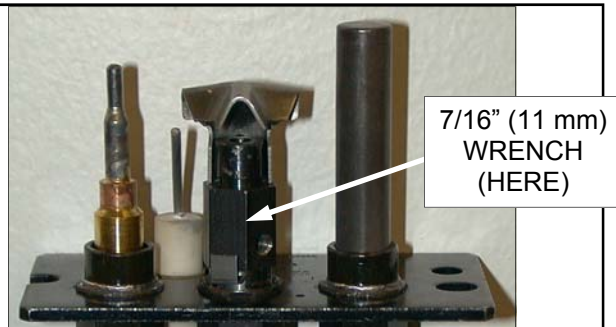
### CHECKING AND ADJUSTING PILOT

The pilot flame should have the characteristic as shown in the illustration to the right. The flame should not have yellow tips but should engulf the thermocouple and thermopile. It can be adjusted by turning the screw marked "pilot" on the control valve.



### CONVERTIBLE PILOT ORIFICE

The pilot assembly is convertible to the type of gas being used, simply unscrew the body by using a 7/16" (11 mm) wrench turn a 1/4 open then push the small metal tab across to the other side of the body and retighten. **Call your local Authorized Archgard Dealer to purchase the correct fuel conversion kit for your gas appliance.**



## REPLACING CONVECTION BLOWER

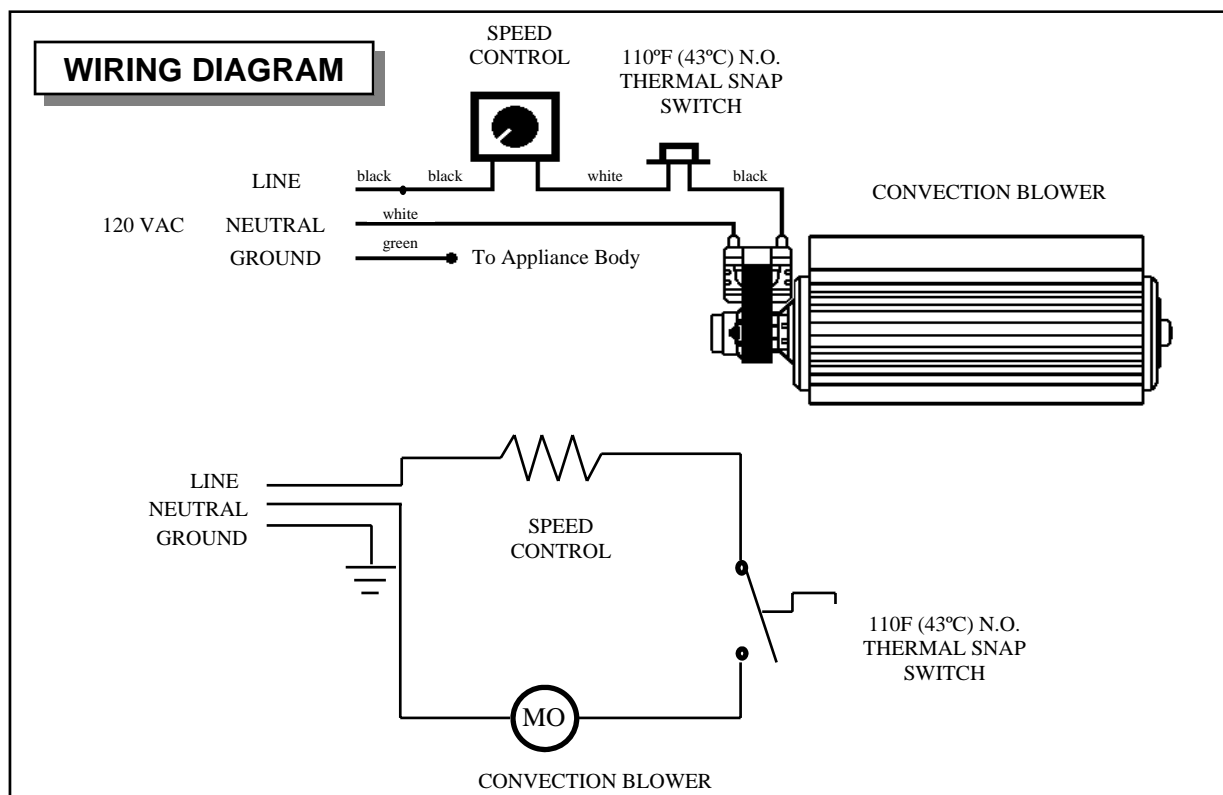
**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing. This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the **National Electrical Code, ANSI/NFPA 70**, or the **Canadian Electrical code, CSA C22.1**.

### NOTES:

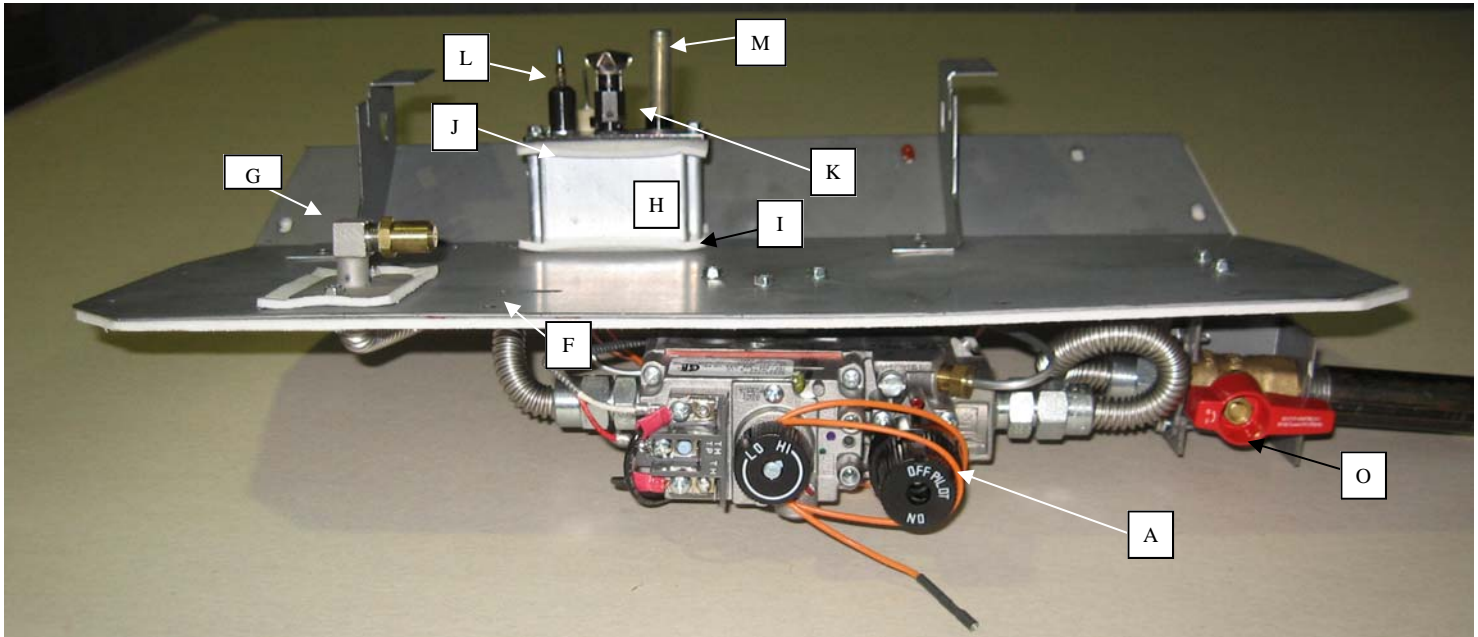
- Make sure the gas to the appliance has been shut off.
- Ensure that the main power and breaker system is turned off before removing the fan.
- Make sure the fireplace has been turned off and is cool to the touch.
- Mark all wires to be removed for proper reassembly.

**CAUTION:** Wiring errors cause improper and dangerous operation.

1. Remove the glass door. Follow GLASS DOOR REMOVAL instructions within this manual.
2. Remove the log set. Follow LOG PLACEMENT instructions within this manual.
3. Loosen the adjustment wing nut and slide the air shutter to the left. Follow ADJUSTING PRIMARY AIR instructions within this manual.
4. Remove brick liner carefully to avoid damage. Remove the pan burner. Follow instructions for CHANGING MAIN BURNER ORIFICE within this manual.
5. Remove valve tray assembly. Make sure to test for gas leaks at every fitting removed to access the fan assembly when re-assembling.
6. Mark all wires to be removed for proper reassembly.
7. The convection blower is located at the bottom of the appliance at the back. Remove the three screws holding the blower.
8. Lift the blower out and disconnect the wires from the blower.
9. Reverse these steps after new fan is installed & tested.



**VALVE TRAY ASSEMBLY**



	Item #	Item Description	Qty	Unit
A	308-0043	Valve, ROBERTSHAW, Hi/Low Natural Gas	1	EA
B	308-0008	Replacement Piezo Igniter, SIT controls (see page 28)	1	EA
F	301-0068	Orifice (Main Burner Orifice) Drill to # 42 DMS (2.36 mm) for Natural Gas / Drill to #54 (1.40 mm) for LP (Propane) Gas	1	EA
G	301-6007	Orifice holder	2	EA
H	620-0024	Aluminum Pilot Box	1	EA
I	314-0127	Gasket Ceramic Paper	1	EA
J	314-0127	Gasket Ceramic Paper	1	EA
K	308-0093	Pilot Assembly. Convertible NG/LP Base Mount. (Includes the items listed below)	1	EA
L		Part # 308-0057 - Thermocouple	1	EA
M		Part # 308-0056 - Thermopile	1	EA
N	841-0102	Complete Valve Tray Assembly, Natural Gas	1	EA
O	301-6008	Gas shut off valve assembly with flex	1	EA
P	841-0103	Complete Valve Tray Assembly, Propane	1	EA
Q	22-CKLP	LP Conversion Kit (not shown)	1	EA

**PARTS LIST - Logs and Pan Burner**



**Pan Burner**



Item #	Item Description	Qty	Unit
310-6222-1	Log - Right	1	EA
310-6222-2	Log - Rear	1	EA
310-6222-3	Log-Left	1	EA
310-6222-4	Log - Center	1	EA
310-6222-5	Log-Top Right	1	EA
310-6222-6	Log-Top Left	1	EA
310-6222	Logset, 6pc, pinned	1	EA
841-0050	Pan Burner	1	EA
317-2022	Grate	1	EA
310-0020	Black Embers	1	EA

## REPLACEMENT PARTS LIST - ARCHGARD OPTIMA 22

Item #	Item Description	Qty	Unit
200-1914	Owner's Manual	1	EA
841-0005	Top Louver (grill) assembly (Metallic Black)	1	EA
841-0004	Bottom Louver (grill) assembly (Metallic Black)	1	EA
300-0030	Hinge Self-Closing Brass	2	EA
800-0072	Air Shutter Assembly	1	EA
314-0131	Air Shutter Gasket	2	IN
800-0031	Wiring Harness assembly for On/Off Rocker Switch	1	EA
305-0019	On/Off Rocker Switch	1	EA
<b>Fan Components</b>			
305-0012	Power Cord 8' (2.43 M)	1	EA
305-0013	Fan - Speed Control (Rheostat)	1	EA
305-0021	Fan - Thermodisc (fan sensor) 110 <sup>0</sup> F. (43 <sup>0</sup> Celsius)	1	EA
RF-305-0024	Fan - Fan with motor and blades. 120VAC, 115V, 24 watt	1	EA
702-0047	Fan - Thermodisc mounting bracket	1	EA
702-0050	Fan - Heat Shield	1	EA
<b>Flat Glass Door</b>			
841-0086	Complete Replacement Door. Includes glass, gasket and door frame	1	EA

<b>REPLACEMENT PARTS LIST FOR THE ARCHGARD OPTIMA 22</b>
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Item #	Item Description	Qty	Unit
<b>Replacement parts for 22-DBAYG Bay Door</b>			
300-0031	Magnet Pull	2	EA
307-0053	Glass, 6mm Tempered (Middle Piece)	1	EA
307-0052	Glass, 6mm Temp (Side Piece)	2	EA
314-0006	Flat Gasket	65	IN
308-0111	Robertshaw Hi-Lo Extension 3" Knob	1	EA
308-0112	Robertshaw On/Off Extension 3" Knob	1	EA
22-MDSBAYG	Optional Gold Bay Window Strips (Full Set) Includes top & bottom trim pieces	1	EA
<b>Optional Surround Trims</b>			
22-TKSB	Black Trim for SKBAB & SKCAB surround	1	SET
22-TKLB	Black Trim for SKLB surround	1	SET
22-TKSG	Gold Trim for SKBAB & SKCAB surround	1	SET
22-TKLG	Gold Trim for SKLB surround	1	SET
22-TKSP	Pewter Trim for SKBAB & SKCAB surround	1	SET
22-TKLP	Pewter Trim for SKLB surround	1	SET
<b>22-LKF2 Optional 2-inch Flex Liner Kit - Consists of:</b>			
312-0021	2-inch Flex Liner - 35 feet	1	EA
313-0011	2-inch Spun Reducer - 3" x 2"	2	EA
300-0011	Self-Tapping Hex Head Screws - 1/4"	12	EA

# ARCHGARD LIMITED WARRANTY

This Limited Warranty is made by ARCHGARD INDUSTRIES LTD., hereinafter referred to as "Archgard". Archgard warrants to the original purchaser of an Archgard gas burning fireplace (s) that the product will be free of defects in materials and workmanship under normal use and service, for a "lifetime".

## INCLUSIONS: "LIFETIME LIMITED WARRANTY"

- ❖ All heat exchangers, combustion chamber, burner tubes and pans.
- ❖ Ceramic Fiber Logs and Ceramic Brick Panels against splitting or cracking.
- ❖ Ceramic Glass against thermal breakage.
- ❖ All 24 K gold trims and accessories against tarnishing.
- ❖ All trim accessories against tarnishing and paint defects.
- ❖ NOTE: Discoloration and some minor movement of certain parts are normal and are not a defect and therefore, not covered under warranty.

The above will be covered "parts & labor" to the original purchaser for FIVE years and "parts" only thereafter from original date of purchase.

## INCLUSIONS: "FIVE YEAR LIMITED WARRANTY"

- ❖ Five year limited warranty on the "FiberFlame Technology Burner System." Warranty will cover any defective burner and ceramic ember bed if defect is deemed as original by the manufacturer.

The above will be covered "parts & labor" to the original purchaser for TWO years and "parts" only thereafter from original date of purchase.

## INCLUSIONS: "ONE YEAR LIMITED WARRANTY"

- ❖ Blowers, fans and fan motors, wiring, rheostats and thermodiscs.
- ❖ Rocker switches, spill switches and wiring to them.
- ❖ Gas control valves, pilot assemblies including thermopiles, thermocouples, electrodes, and igniters.

The above will be covered "parts & labor" to the original purchaser for ONE year from date of purchase.

## EXCLUSIONS:

- ❖ Archgard does not offer wall mounted thermostats, programmable thermostats (wiring for hook-up of said product), handheld remote controls, fireplace mantel (s), trims or tiles.
- ❖ Ember material.
- ❖ Tempered Glass is under warranty for ONE year to the original purchaser from date of purchase.
- ❖ Travel time or mileage to original purchasers residence. Archgard suggests that you pre-arrange travel expenses with your Authorized Archgard Dealer.

## WHAT TO DO IN THE EVENT OF A PROBLEM:

- ❖ Thoroughly read your manual.
- ❖ If you cannot solve the problem, contact your Archgard Dealer or representative.
- ❖ When calling for help please have the following information:

<b>Model of your Fireplace</b>	<b>Serial Number</b>	<b>Place of Purchase</b>
<b>Date of Purchase</b>	<b>Problem Description</b>	

- ❖ NOTE: Warranty may be void if work is carried out by an unqualified person (s). Only original Archgard parts may be used. Please consult your Archgard dealer or representative if in doubt about a replacement part (s).

## OBTAINING WARRANTY SERVICE:

To obtain warranty service, the original purchaser shall return the defective part (s) to the original authorized Archgard selling dealer transportation prepaid, along with the serial number of the appliance and proof of purchase. Any defective part, in our judgment, will be repaired or replaced at Archgard's discretion. The dealer must obtain approval from Archgard before any repairs are made.

## WARRANTY LIMITATION:

THIS LIMITED WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED AS TO QUALITY, MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

The appliance is only warranted for the use as intended by the installation and operating instruction and local building codes. The warranty will not cover damage due to accident, misuse, abuse, alteration, improper installation or "Acts Of God".

This limited warranty is void unless the appliance is installed by a qualified installer, in accordance with the instructions furnished with the appliance. Some Provinces or States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to the original purchaser. Any damage resulting from defects in this product, is limited to the replacement of the defective part (s) and does not include incidental and consequential exposures sustained in connection with the product. This includes facing (s), mantle (s), cabinet (s), tile (s) or any other finishes resulting from removal of any gas appliance. This warranty is limited to residential use only and gives the consumer specific rights. These rights may vary from State to State or Province to Province.

**FREQUENTLY ASKED QUESTIONS**

Listed below are some frequently asked questions regarding Archgard Gas Fireplaces. If you have questions that are not listed below, or are not answered in this manual, please contact your Authorized Archgard Dealer.

**Q.** My glass has a condensation “fog” when the appliance is first lit.

**A.** Condensation is normal and will disappear in a few minutes after the glass is heated.

**Q.** I have a white “film” on my glass. What is the best way to clean the inside of the glass.

**A.** Frequent cleaning of your glass is recommended. Archgard recommends using a good quality “gas fireplace” glass cleaner that is available at all authorized dealers. Do not use abrasive materials, and do not clean the glass or the appliance when the unit is hot.

**Q.** How do I care for my gold plated trims.

**A.** Archgard recommends a cleaning with a damp cloth. DO NOT use chemical cleaners as they may harm the finish, and void your warranty. NOTE: If the top louvers, or top overlay starts to discolor, check the door gasket seal and replace if necessary.

**Q.** My fan/blower makes a “whirring” or “humming” noise.

**A.** Your Archgard gas appliance uses a powerful fan to push heated air into your room. It is not unusual to hear a “humming” noise when your fan is running. Note: the sound will change depending on the setting that your fan speed control is set at.

**Q.** I hear a “click” when my fan system activates.

**A.** When your appliance reaches temperature, it will activate the THERMODISC “fan switch”. The switch closes the electrical circuit that allows the fan to turn on. This is a normal sound.

**Q.** I hear a “ticking”, “cracking” or “pinging” sound when my fireplace is running, and after it is turned off.

**A.** The different gauges of steel used to manufacture your fireplace will expand and contract at different rates when your fireplace is on, and will continued as your fireplace completes its heating function. You will likely hear these same sounds more on start up and shut down. This is normal for steel fireplaces.

**Q.** When my appliance is OFF and my pilot light is lit, I hear a “whisper” sound.

**A.** The lit pilot can make a small noise. Sometimes in extreme wind conditions you may be able to hear air entering into the firebox chamber.

**Q.** I hear a “click” when my main burner turns ON or OFF.

**A.** Your Gas Control Valve will make a clicking sound when it opens to allow gas to flow to the main burner. This is a normal part of the operating system.

**Q.** Can I burn wood and other materials in my gas fireplace.

**A.** No! Burning anything other than natural or LP gas in a gas fireplace or stove will create a potential fire hazard and present a danger to your home and its occupants. Only burn the gas fuel for which the unit was originally designed.

**Q.** Can I shut my pilot off in the summer?

**A.** You will save energy by turning off the pilot light if you are not using your appliance for the hot summer months. Remember to relight it before you want to use the appliance for the first time in the fall. Refer to your owners manual for lighting instructions.

**Q.** Can I position my gas logs in a different fashion or use a different log set?

**A.** No. Your gas fireplace is an engineered system that includes the firebox, burner, logs, venting and options which are tested and listed by CSA. Changing any specifications or placement of the logs could void your manufacturer's warranty, and possible even your homeowner's warranty.





# WARRANTY REGISTRATION

**ARCHGARD INDUSTRIES LTD.  
7116 BEATTY DRIVE  
MISSION, B.C. CANADA  
V2V 6B4**

FOLD DOWN AT LINE

FOLD DOWN AT LINE & TAPE CLOSED

Model # : 22-DVI24N-2 Serial #: \_\_\_\_\_ Date Installed: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
mm dd yyyy

Name: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Prov: \_\_\_\_\_ ZIP: \_\_\_\_\_ Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

Dealer's Name & Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Prov: \_\_\_\_\_ ZIP: \_\_\_\_\_ Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

Installer's Name & Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Prov: \_\_\_\_\_ ZIP: \_\_\_\_\_ Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

Why did you choose this product? \_\_\_\_\_

\_\_\_\_\_

*Thank you for purchasing our product and filling out this warranty card.*

CUT ALONG LINE

CUT ALONG LINE

CUT ALONG LINE



**ARCHGARD INDUSTRIES LTD.**

7116 BEATTY DRIVE  
MISSION, B.C. V2V 6B4  
CANADA

WEBSITE: [WWW.ARCHGARD.COM](http://WWW.ARCHGARD.COM)