INSTALLATION, OPERATION, AND MAINTENANCE MANUAL

Optima 34

Model: 34-DVIM34N-2
Direct Vent Fireplace Insert
Serial Numbers 660095 and higher

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.

⚠ WARNING:
FIRE OR EXPLOSION HAZARD
Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

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

WHAT TO DO IF YOU SMELL GAS:

- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Leave the building immediately.**
- **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.**

⚠ DANGER

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

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

NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

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.

For use with natural gas or propane
(Conversion kit required for Propane use)

INSTALLER:
LEAVE THIS MANUAL WITH THE APPLIANCE.

CONSUMER:
RETAIN THIS MANUAL FOR FUTURE REFERENCE.

Gas Fireplace Efficiency Rating

52.23%

Based on CSA P.4.1-15

QAI US C QAI ENERGY VERIFIED CSA P.4.1

Archgard Fireplace Products
300 Railway Avenue
Raymond, AB T0K 2S0
Canada

200-0291-02

February 25, 2026

TABLE OF CONTENTS

Caution and Safety Instructions	4
Appliance Certification, Installation Codes and Specifications	5
Appliance Dimensions and Minimum Requirements for Fireplace Dimensions	7
Clearance to Combustibles	8
Gas Connections	10
Appliance Description, Leveling the Appliance and Electrical Requirements	11
Venting Instructions	12 - 15
Surround Installation and Rocker Switch Wiring	16
Optional Wall Switch, Thermostat or Remote Control. Suggested wiring.	17
Brick and Log Placement	18 - 25
Final Installation Check and Initial Operation	26
First Fire and Lighting Instructions (CAUTION)	27
Lighting Instructions on Rating Plate	28
Glass Door Removal / If Your Glass Should Break	29
Safety Screen Barrier Installation	30
Troubleshooting Guide	31 - 32
Maintenance and Cleaning the Appliance	33
Servicing Under Warranty and Adjusting Primary Air	34
Adjusting Primary Air (Continued) and Changing Main Burner Orifice	35
Checking Inlet/Outlet gas pressures, Adjusting Pilot and Convertible Pilot Orifice	36
Replacing Convection Blower & Wiring Diagram	37
Valve Tray Assembly and Parts List	38
Fiber Logs & Pan Burner Assembly and Parts List	39
Replacement Parts List - General Parts	40
Frequently Asked Questions	41
Warranty	42
Warranty Registration Card	43

INTRODUCTION

Congratulations on choosing an Archgard Gas Fireplace!

The 34-DVIM34N-2 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 34-DVIM34N-2 Direct Vent Insert are:

- **Heater Classification:** The 34-DVIM34N-2 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 34-DVIM34N-2 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 34-DVIM34N-2 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 34-DVIM34N-2 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.
- **Millivolt Control System:** The 34-DVIM34N-2 uses a gas control valve that is ready for an optional wall thermostat, or a hand-held wireless remote control.

Model Number Definition (34-DVIM34N-2)

34	Number assigned to identify the fireplace
DVI	Direct Vent Insert
M	Millivolt (SIT Nova 820)
34	Natural Gas Input Rating in BTU
N	Natural Gas / Traditional Log Burner
-2	Revision Number

Fireplace Serial Number _____

Date of Installation _____

Type of Gas Used by the Fireplace _____

Dealer's Name _____

_____

Please complete and submit the warranty registration card included in the back of this manual or by visiting us at: www.archgard.com/warranty-registration

Safety Information

Caution

FOR YOUR SAFETY - Do not install or operate your **34-DVIM34N-2** without reading and understanding this manual. Any installation or operational deviation from this instruction manual voids the 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 into combustion chamber
- 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
- Flow of combustion and ventilation air must not be obstructed - always provide adequate combustion and
- ventilation air
- Always provide adequate clearance around the intake and exhaust openings

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
- If this appliance is installed directly on carpeting, tile, or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the 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 a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces
- Do not store or place combustibles, gasoline, and other flammable vapors and liquids near the appliance
- Clothing or other flammable material should not be placed on or near the appliance
- **WARNING:** Do not operate appliance with the glass front removed, cracked, or broken. Removal of the glass should be done by a licensed or qualified service person. Do 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
- Under no circumstances should any solid fuel (wood, coal, paper or cardboard, etc.) be used in this appliance
- Keep burner and control compartment 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
- **California Proposition 65 Warning:** This product can expose you to chemicals including Carbon Monoxide, that is an externally vented by-product of fuel combustion, which is [are] known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

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. 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. The Installation Checklist should be used to ensure the proper installation of this gas fireplace heater and to document any deviations from a typical install.

Any alteration to the product that causes carbon or soot deposits that results in any damage or requires cleaning is not the responsibility of the manufacturer.

APPLIANCE CERTIFICATION

This appliance is tested and certified to the following USA and Canadian gas appliance standards.
- ANSI Z21.88-2019 / CSA 2.33-2019 Vented Gas Fireplace Heaters
- CAN / CGA 2.17 – M91 (R2009) Gas Fired Appliances for use at High Altitudes
- CSA – P.4.1-15 – Testing Method for Measuring Annual Fireplace Efficiency
- CSA C22.2 No.3 – M1988(R.2014) – Electrical Features of Fuel-Burning Equipment

The listing label is attached to the appliance on the bottom left side of the appliance. A copy is shown on the following page.

Commonwealth of Massachusetts: This appliance has been manufactured in accordance with Massachusetts code 248 CMR 5.00. Approval Code: G1-0319-387 . (https://licensing.reg.state.ma.us/pubLic/pl_products/pb_pre_form.asp).

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. Electrical connections and grounding must conform with local code, or current National Electrical code ANSI/NFPA No. 70-1987.

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.

SPECIFICATIONS

	Natural Gas (NG)	Propane (LP)
Manifold Pressure	1.6-3.5 in. W.C. (0.4-0.9 kPa)	6.4-10.0 in. W.C. (1.6-2.5 kPa)
Min. Supply Pressure **Max Supply Pressure**	5.0 in. W.C. (1.2 kPa) 14.0 in. W.C. (3.5 kPa)	11.0 in. W.C. (2.7 kPa) 14.0 in. W.C. (3.5 kPa)
Orifice Size	#34 DMS (2.8 mm dia)	#51 DMS (1.72 mm dia)
Nominal Input Rating	23,000 - 34,000 BTU/hr (6.6- 9.8kW)	26,000 - 34,000 BTU/hr (7.5 -9.8kW)
P.4 Fireplace Efficiency (FE)	52.23%	52.23%
P.4 Steady State Efficiency	65.20%	65.20%
Electrical Rating	120 VAC, 60Hz less than 2 A.	120 VAC, 60Hz less than 2 A.
Gas Control	SIT Nova 820	SIT Nova 820
Altitude	0 - 4,500 ft. (0 - 1372 M)	0 - 4,500 ft. (0 - 1372 M)
Primary Air Opening	¼" (6 mm) OPEN	FULLY 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.

RATING PLATE SAMPLE

DO NOT REMOVE THIS LABEL

Archgard FIREPLACES

MODEL: 34-DVIM34N-2

Manufactured as Natural Gas

VENTED GAS FIREPLACE HEATER and GAS-FIRED APPLIANCES FOR USE AT HIGH ALTITUDES.
Tested to: ANSI Z21.88-2019 / CSA 2.33-2019, CAN/CGA-2.17-M91(R2009), CSA – P.4.1-15 and C22.2 No. 3-M1988(R2014).
This vented gas fireplace heater is not for use with air filters. Certified for use in the USA.

VENTED GAS FIREPLACE HEATER-NOT FOR USE WITH SOLID FUEL.

	NG	LPG
Input rating	23,000 - 34,000 BTU/hr (6.6 - 9.8 kW)	26,000 - 34,000 BTU/hr (7.5 - 9.8 kW)
Manifold Pressure	1.6-3.5 in. W.C. (0.4-0.9 kPa)	6.4-10.0 in. W.C. (1.6-2.5 kPa)
Orifice size	#54 DMS (1.8 mm dia.)	#51 DMS (1.72 mm dia.)
Minimum supply pressure for purpose of input adjustment.	5.0 - 14.0 in. W.C. (1.2 - 3.5 kPa)	11.0 - 14.0 in. W.C. (2.73 - 3.5 kPa)
Burner Primary Air Setting	1/4" (6mm) Open	100% Open
Altitude	0 - 4500 ft (0 - 1372 m)	0 - 4500 ft (0 - 1372 m)
Gas Control	SIT Nova 820	
Fireplace Efficiency (FE) Rating	52.23%	
Electrical rating	120 VAC, 60 Hz less than 2 A.	
Replacement fan	Part no. RF-305-0024 fan or blower assembly must be used	
Keep burner and control compartment clean. See Instructions accompanying the heater. Optional fuel conversion kit : See Manual	Minimum opening Dimensions: 27"(685 mm)W x 20"(508 mm)H x 15¾" (400mm)D Minimum Chimney Flue Size: 4" (100 mm) x 7" (176 mm) Minimum clearances to Combustibles: Sides from glass door frame: 8 " (203 mm) Mantle: max 6" (152 mm) at min 37" (940 mm) See Manual for additional dimensions and clearances	

This appliance must be installed in accordance with local codes, if any; if none, follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54. Electrical connections and grounding must be in accordance with local codes, if any; if none, follow the current ANSI/NFPA 70. This appliance is certified for installation in a bedroom or a bed sitting room. This appliance is only for use with the gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. See owner's manual for details. This appliance is not convertible with other gases, unless a certified kit is used.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency, or the gas supplier. This appliance must be properly connected to a Direct Vent venting system in accordance with the manufacturer's installation instructions.

WARNING: Failure to install this appliance per the manufacturer's instructions or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

WARNING: Do not operate the appliance until all sections have been assembled and installed in accordance with the manufacturer's instructions.

WARNING: Operation of this appliance when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death.

ONLY DOORS CERTIFIED WITH THE APPLIANCE SHALL BE USED.

For use only with barrier part # 34-BS. Follow installation instructions.

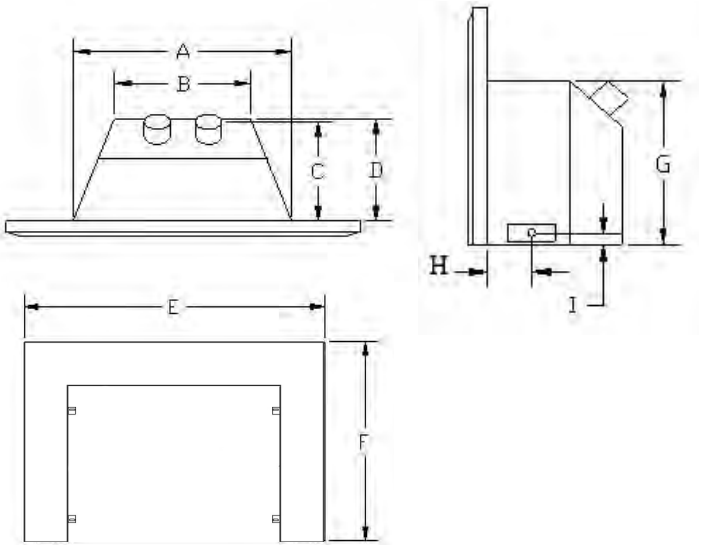
Made in Canada by:
Archgard Industries Ltd.
300 Railway Avenue, Raymond, AB

October 2024 303-0155-01

MANUFACTURE DATE:	

SAMPLE

APPLIANCE DIMENSIONS



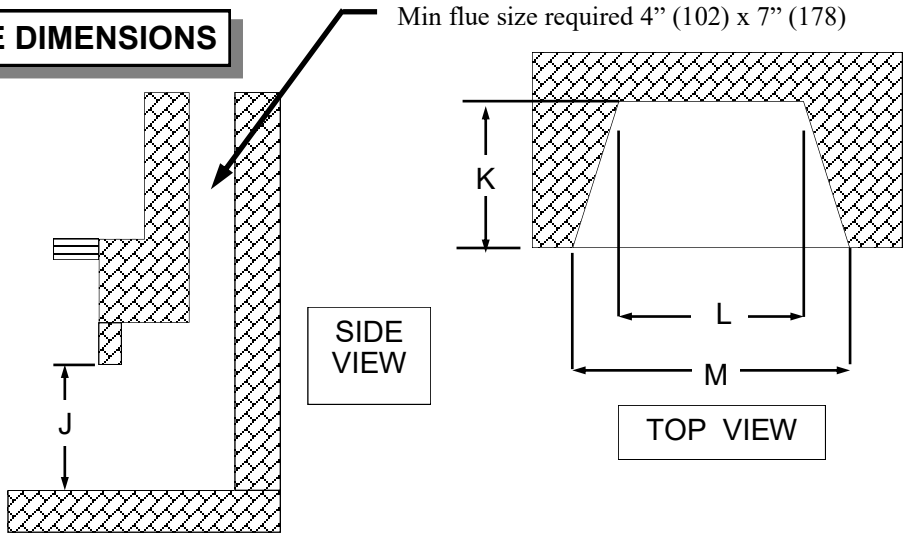
DIMENSIONS			
A	25-5/8” (651 mm)	G	19-7/8” (505 mm)
B	16” (406 mm)	H	3-3/4” (93 mm)
C	14” (356 mm)	I	1-1/4” (32 mm)
D	14-1/8” (359 mm)		
34-SKSB (STANDARD SURROUND)			
E	41-1/2” (1054 mm)		
F	27-1/2” (700 mm)		
34-SKLB (LARGE FLAT SURROUND)			
E	47-1/8” (1197 mm)		
F	30-1/2” (776 mm)		

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	20” (508 mm)
K	15-3/4” (400 mm)
L	16-1/2” (419 mm)
M	27” (685 mm)



Multi-sided Fireplaces:
This fireplace insert may be inserted in a multi-sided masonry fireplace.
The sides not filled with the insert and surround may be covered or closed off using any non-combustible material.
Do not use combustible materials. Do not block ventilation openings.

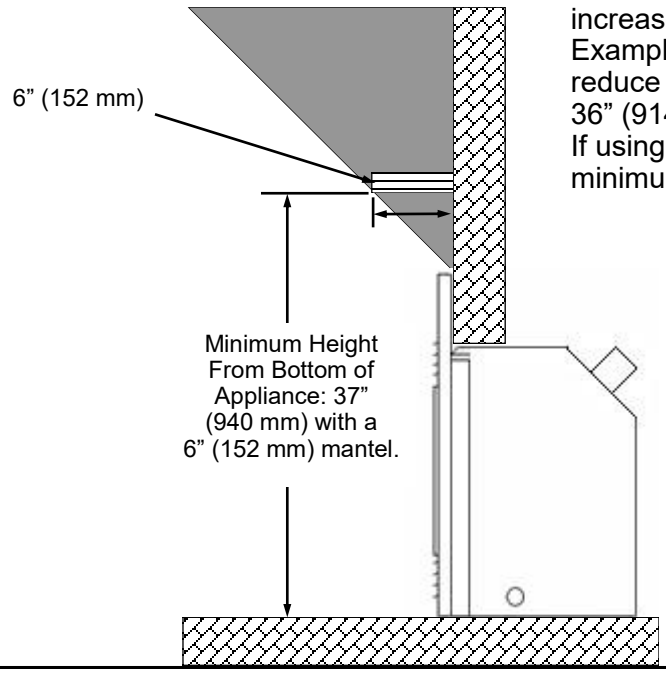
CLEARANCES TO COMBUSTIBLES

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

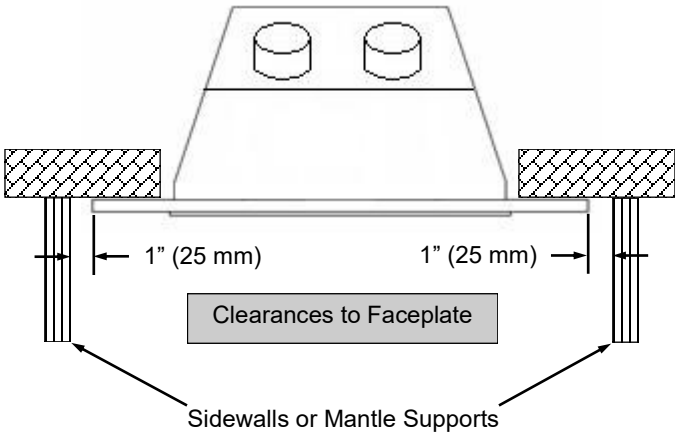
Combustible mantle allowed in shaded area. Mantle extension maybe increased 1” (25 mm) for each additional 1” (25 mm) increase in clearance height.
Example: If using a 5” (127 mm) reduce minimum height to 36” (914 mm).
If using a 4” (100 mm) reduce minimum height to 35” (889 mm)



Note: With bay window attached clearances remain the same.

TOP VIEW

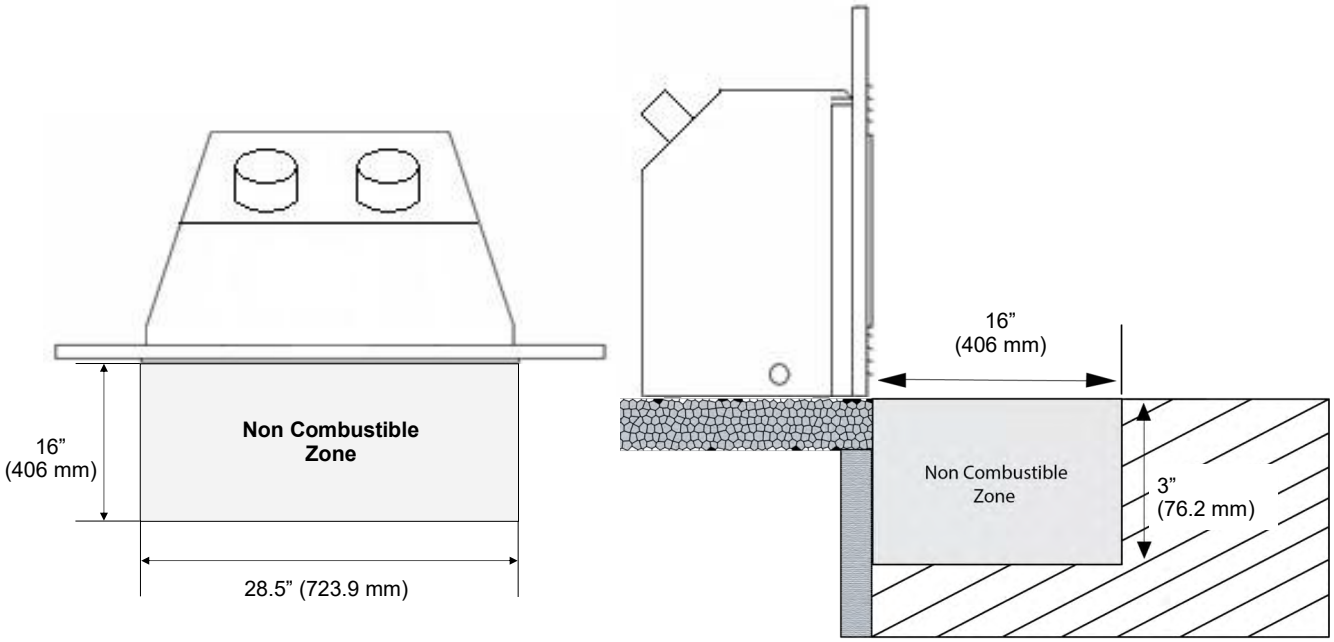
Minimum 1” (25 mm) clearance is required from the faceplate (fireplace surround) to a sidewall or mantle support. See APPLIANCE DIMENSIONS for surround sizes.



HEARTH CLEARANCES

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.

Any Hearth that extends outward in front of the insert must not have any combustible material closer than 3” (76.2 mm) to the bottom of the gas fireplace insert regardless of whether a noncombustible material covers the combustible material. This includes any type of framing underneath a noncombustible material such as tile, marble, or stone. Any material farther than 3” (76.2 mm) to the bottom or 16” (406 mm) from the front of the door of the gas fireplace may be combustible.



NOTE: All specified clearances must be maintained from the top surface of carpeting, tile, etc.

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 5.0" W.C. (1.2 kPa) and a maximum of 14.0" W.C. (3.5 kPa). The orifice is a #34 DMS (2.79 mm) drill size.

ELEVATION	INPUT RATING
0-4500 ft (0-1372 M)	34,000 BTU/hr (9.8 kW)
4500 ft (1372 M) and above.	34,000 BTU/hr (9.8 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 14.0" W.C. (3.5 kPa). The orifice is a #51 DMS (1.72 mm) drill size.

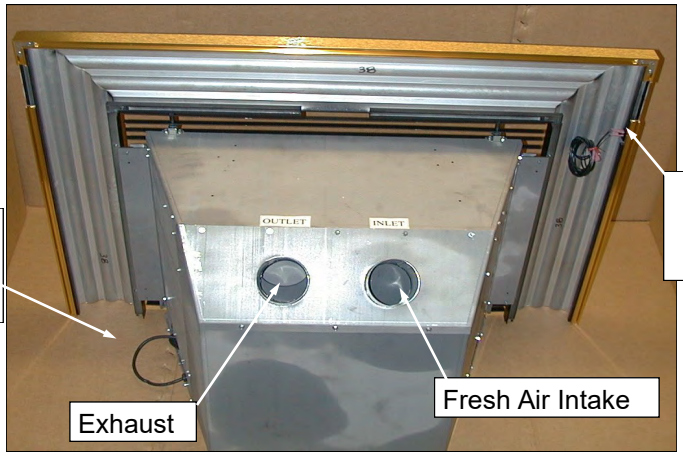
ELEVATION	INPUT RATING
0-4500 ft. (0-1372 M)	34,000 BTU/hr (9.8 kW)
4500 ft. (1372 M) and above.	34,000 BTU/hr (9.8 kW) less 4% per 1000 ft. (305 M)

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

TOP VIEW



FRONT VIEW

LEVELING THE 34DVIM34N-2 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 34-DVIM34N-2 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.**

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.

Archgard Venting Components	
Vertical Termination	999-INS-TK
3” x 30’ Aluminum Flex Liner	999-INS-FL330
3” x 50’ Aluminum Flex Liner	999-INS-FL350
Approved venting components from third party manufacturers may be found on the following page	

This appliance is designed to attach to two 3” (76 mm) co-linear aluminum flex gas liners 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 pages for details. The minimum flue size is 4” x7” (100 mm X 178 mm). 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

CAUTION	**To ensure that the venting is not accidentally obstructed or punctured, the damper of the host fireplace must be permanently disabled by either complete removal of the damper, or by being fully blocked open, for the installation of a gas fireplace insert.**

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 34-DVIM34N-2 showing the Exhaust and Fresh Air Intake locations. These connections are labeled for you.

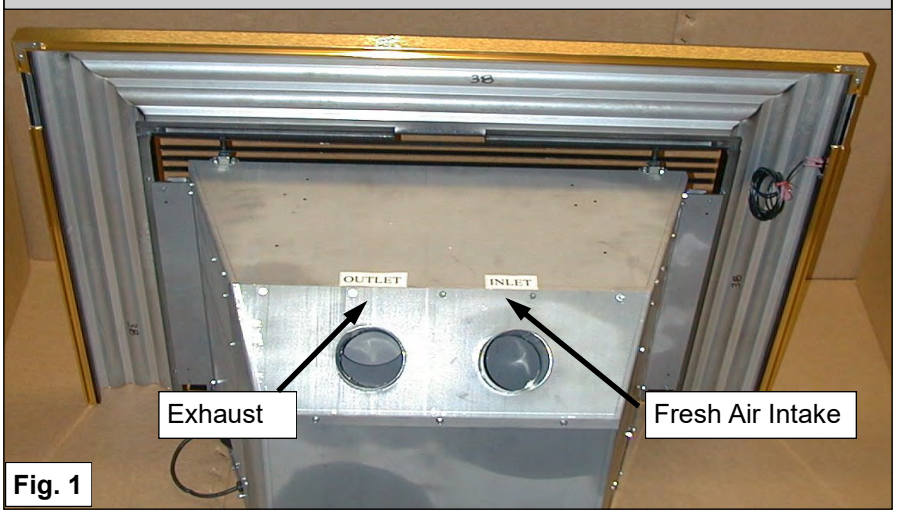


Fig. 1

The 34-DVIM34N-2 requires two flexible gas flue liners:

Flue Collar (inlet) - 3” (76 mm) diameter

Flue Collar (outlet) - 3” (76 mm) diameter

Third Party Venting Components					
	BDM	**Selkirk**	**Duravent**	**FCC**	**Amerivent**
3" Flex (10ft)	95270310	AFE10-03	N/A	N/A	3ALKE10
3" Flex (25ft)	95270325	AF3-25L	3DFA-25	N/A	1730250
3" Flex (30ft)	95270330	N/A	N/A	N/A	N/A
3" Flex (35ft)	95270335	AF3-35L	3DFA-35	TC-3AL35	1730350
3" Flex (50ft)	95270350	AF3-50L	N/A	TC-3AL50	3ALKE50
3" Flex Coupling	95090390	AF3-FC	3DFA-FC	TM-CFAA3	Comes with
4x6 5/8 Coaxial High Wind Cap	DVR6-VCH	4DT-VC	46DVA-VCH	TM-4SVT	N/A
4x6 5/8 Coaxial Low-Profile Cap	DVR6-LPC	4DT-VT	N/A	N/A	4DVC
3x3 Colinear to 4x6 5/8 Coaxial Adapter	DVF33-A6	4DT-CBT, 4DT-AAC	46DVA-GK or 46DVA-CLTA	TM-CTA	4DCAT33
High Wind Shield Round	DVR68-VWG	N/A	46DVA-VWG	TM-SVTS	N/A
High Wind Shield Rectangular	N/A	N/A	N/A	TM-CTS	N/A
Co-linear High Wind Vert Term Kit (with 35 ft. Flex) for Masonry Chimney	94203370HWS	1604645	46DVA-CL33	TM-ALK33	DVIK33 (Not High Wind)
Co-linear Rectangular Vent Term Kit (with 35 ft. Flex) for Masonry Chimney	N/A	N/A	N/A	TM-ALT33	N/A
Co-linear Direct Vent Factory Built Reline Kit High Wind Vert Term (with 35ft Flex)	N/A	N/A	46DVA-CL33KFB	TC-AL35, TM-IVT, TM-IVTP	N/A
3x3 Co-linear Round Vert Term	940033HWS	1604643	N/A	TM-IVT	DVCC33
3x3 Co-linear High Wind Vert Term Round Base	9400332RD	N/A	N/A	TM-IVT, TM-IVTP	N/A
3x3 Co-linear High Wind Vert Term Square Base	940033HWS	N/A	N/A	TM-IVT, TF-MFR, TF-MFC, TF-MF	N/A
Co-linear Masonry Flashing Rectangular Vert Term	N/A	N/A	N/A	TF-CTF, TF-CTFC	N/A
3x3 Co-linear Square Vert Term	940033, 9400330808SS	N/A	N/A	N/A	N/A
3x3 Co-linear Rectangular Vert Term	940034EC26SS	N/A	N/A	TM-CT3	N/A
Co-linear Masonry Flashing Rectangular Vert Term	N/A	N/A	N/A	TF-CTF, TF-CTFC	N/A
Prefab Chimney Flashing	N/A	N/A	N/A	TM-IVTP	N/A
3" Appliance Co-linear Flex Connector	N/A	4DT-CFC	46DVA-ADF	N/A	N/A
3x3 Co-linear Square Double Cap	940033DBL	N/A	N/A	N/A	N/A

ATTENTION

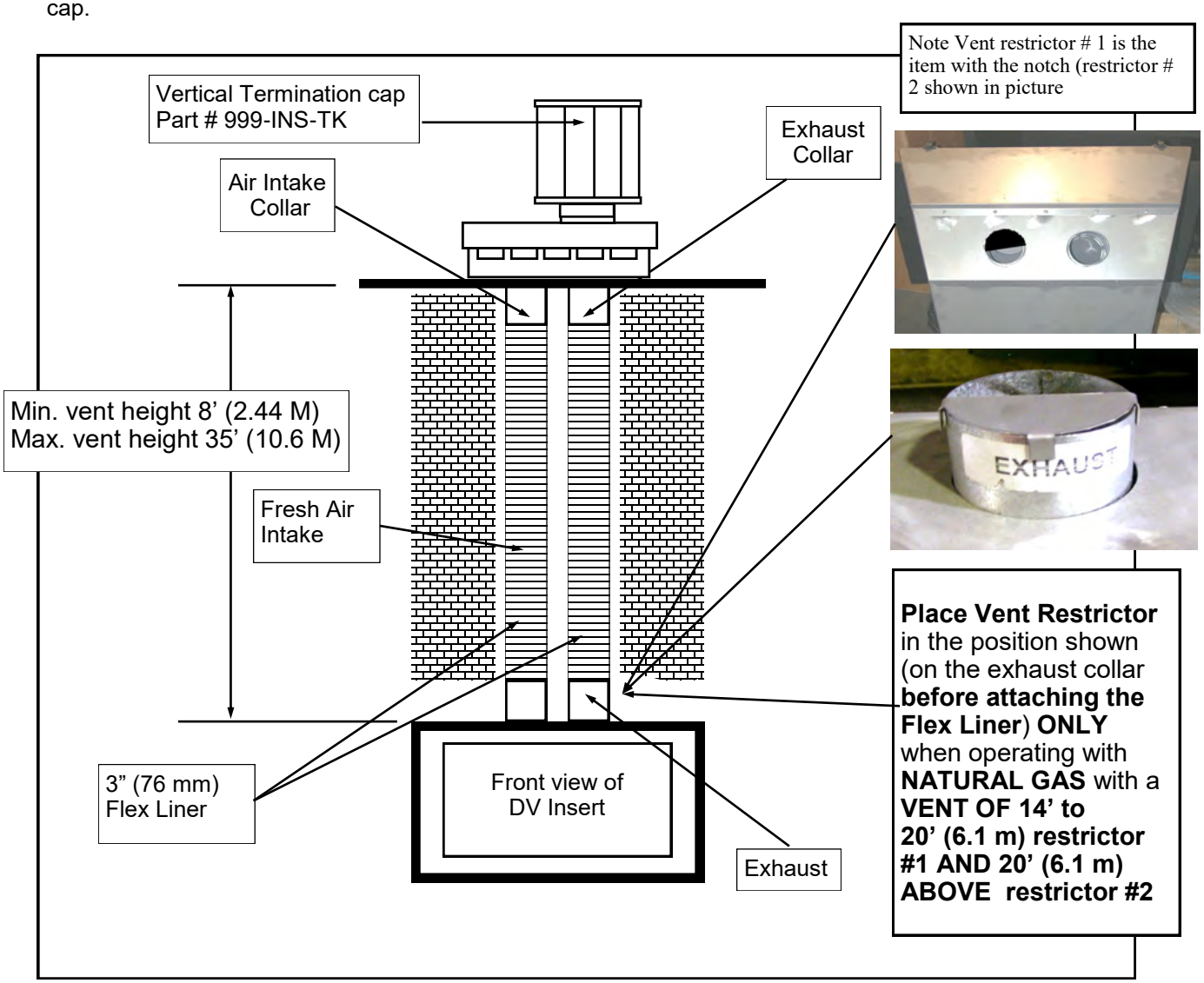
NO OTHER VENTING SYSTEM OR COMPONENTS MAY BE USED.
Part numbers shown are correct at the time of printing and should be confirmed with the manufacturer prior to purchase.
Follow manufacturer instructions for installation of termination.

VENTING INSTRUCTIONS 999-INS-TK

Install the termination cap making sure to provide sufficient space (around and on top) so you do not 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 flex liner with **"Air Intake".**
2. Mark each end of the second flex liner with **"Exhaust".**
3. Pull the liner through the chimney.
4. Install the flashing.
5. Seal and attach the flex liner marked "**Air Intake**" to the vent terminal pipe marked "**Air Intake**" with the collar clamp and stove cement provided with the kit. **DO NOT USE SILICONE.**
6. Seal and attach the flex liner marked "**Exhaust**" to the vent terminal pipe marked "**Exhaust**" with the collar clamp and stove cement provided with the kit. **DO NOT USE SILICONE.**
7. Seal and attach the end of the flex liner marked "**Air Intake**" to the collar marked "**Air Intake**" on the appliance with the collar clamp provided with the appliance and stove cement provided with the kit. **DO NOT USE SILICONE.**
8. **Install 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 liner marked "**Exhaust**" to the collar marked "**Exhaust**" on the appliance with the collar clamp provided with the appliance and stove cement provided with the kit. **DO NOT USE SILICONE. Use of silicone voids the warranty of the pilot assembly.**
10. Attach the termination head to the termination body using the stove cement and screws provided with the kit.

NOTE: The flex liners must form a complete connection from the appliance flue collars to the vertical termination cap.



The minimum flue (chimney) size required to run the two 3" (76 mm) is 4" x7" (100 mm X 178 mm)

Using a Co-linear to Coaxial Adapter

The gas fireplace can be converted from co-linear to coaxial when it is desired to remove a section of the masonry fireplace chimney to below the roof line.

WARNING

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. Electrical connections and grounding must conform with local code, or current National Electrical code ANSI/NFPA No. 70-1987.

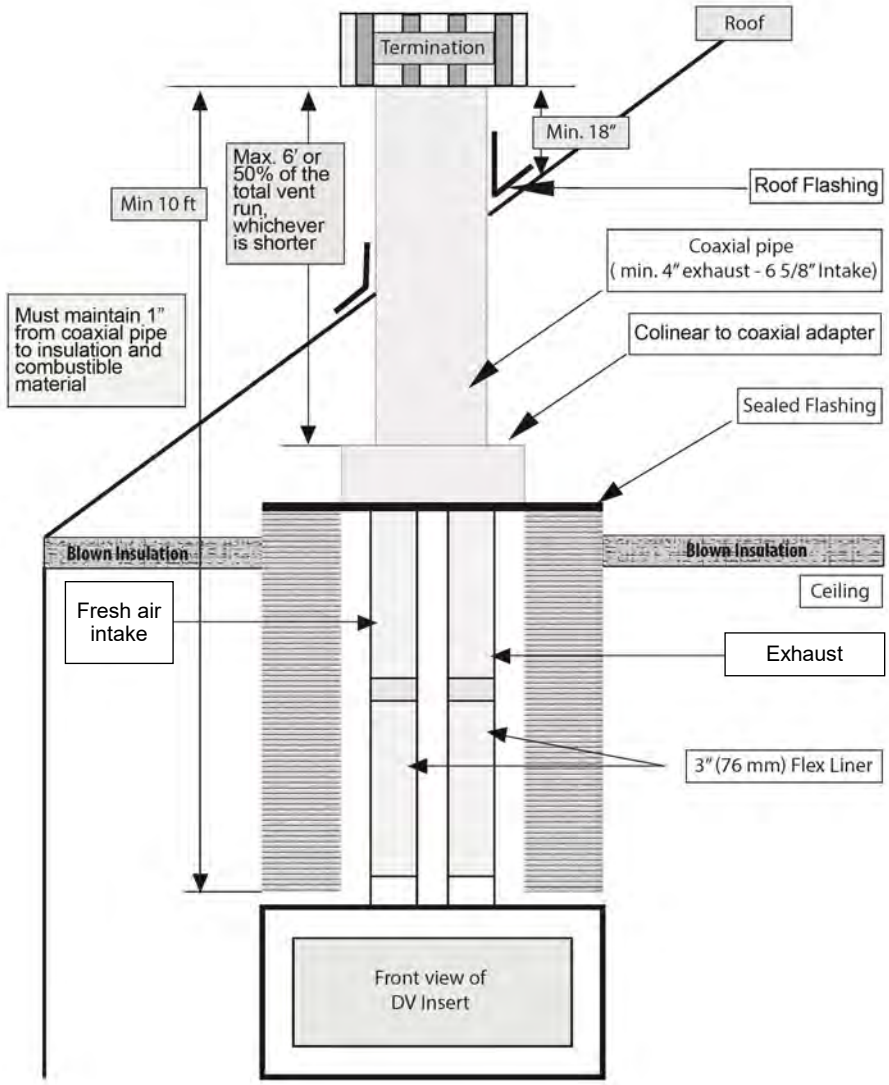
The sections of coaxial pipe cannot be longer than 6ft. or 50% of the total vent length, whichever is shorter

A sealed flashing must be placed on top of the chimney where the co-linear to coaxial adapter is seated

The total vent run must be a minimum of 10ft. from the top of the gas fire-place insert

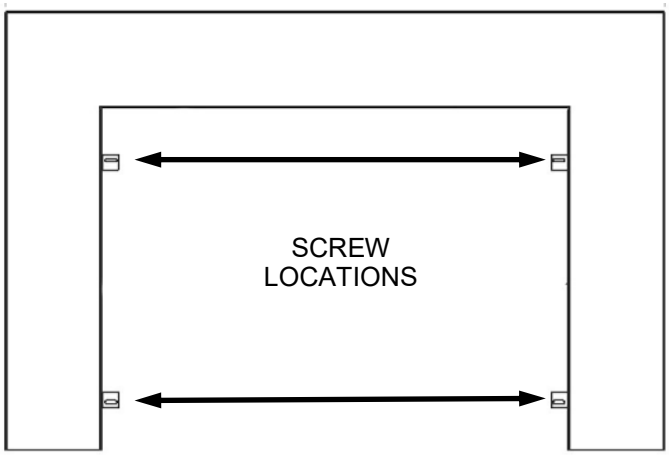
A 1" clearance must be maintained from the coaxial pipe to insula-tion and combustible material

The termination must be 18" from the roof to the bottom of the termination



SURROUND INSTALLATION

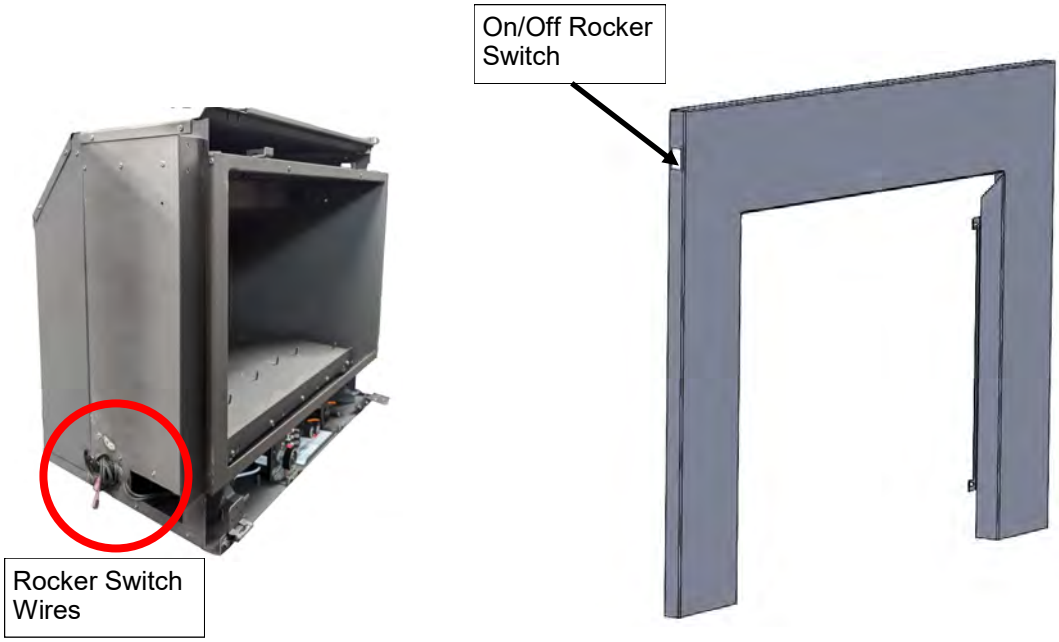
Make sure the gas and electrical lines are properly connected to the appliance. Slide the unit into the fireplace and slide the excess flue liner material back onto the chimney. Before the appliance is fully recessed into the fireplace, attach the surround onto the appliance. The return flange on the 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 Surrounds supplied by the manufacturer should be used on this appliance.

ROCKER SWITCH WIRING

Remove the coiled wires from the left side of the firebox and connect it to the tabs on the back of the rocker switch.



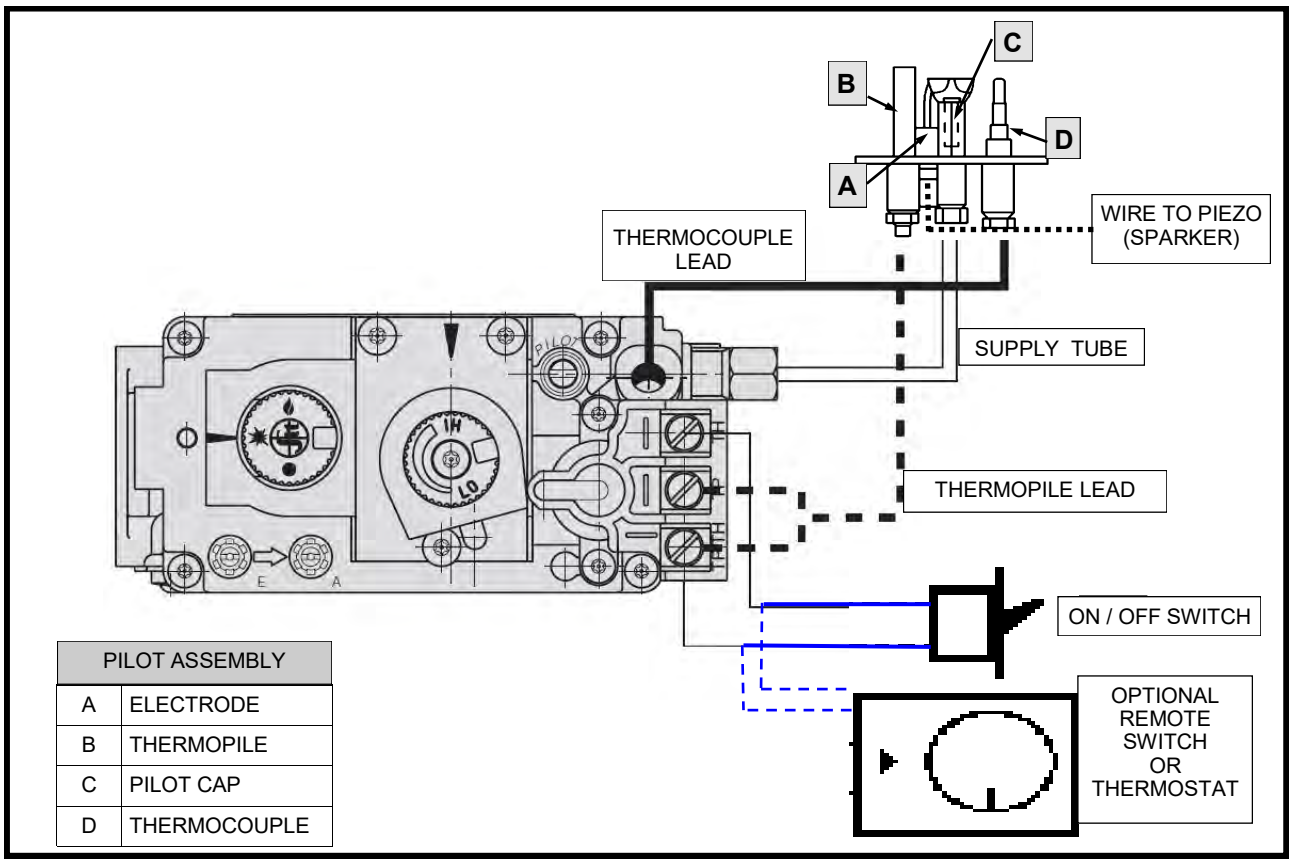
OPTIONAL WALL SWITCH OR THERMOSTAT

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



PILOT ASSEMBLY	
A	ELECTRODE
B	THERMOPILE
C	PILOT CAP
D	THERMOCOUPLE

BRICK PLACEMENT

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.

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 fireplace has panel mounting brackets already in place. Remove the brackets before installing the panels. Locate the brick or reflective panels and place them in the firebox as shown. Refer to the pictured instructions on the following pages that will show how to place the panels.

Rear Brick Panel Placement as Shown

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

Right Brick Panel Placement as Shown

Left Brick Panel Placement as Shown

NOTE: Installing the panels 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

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.

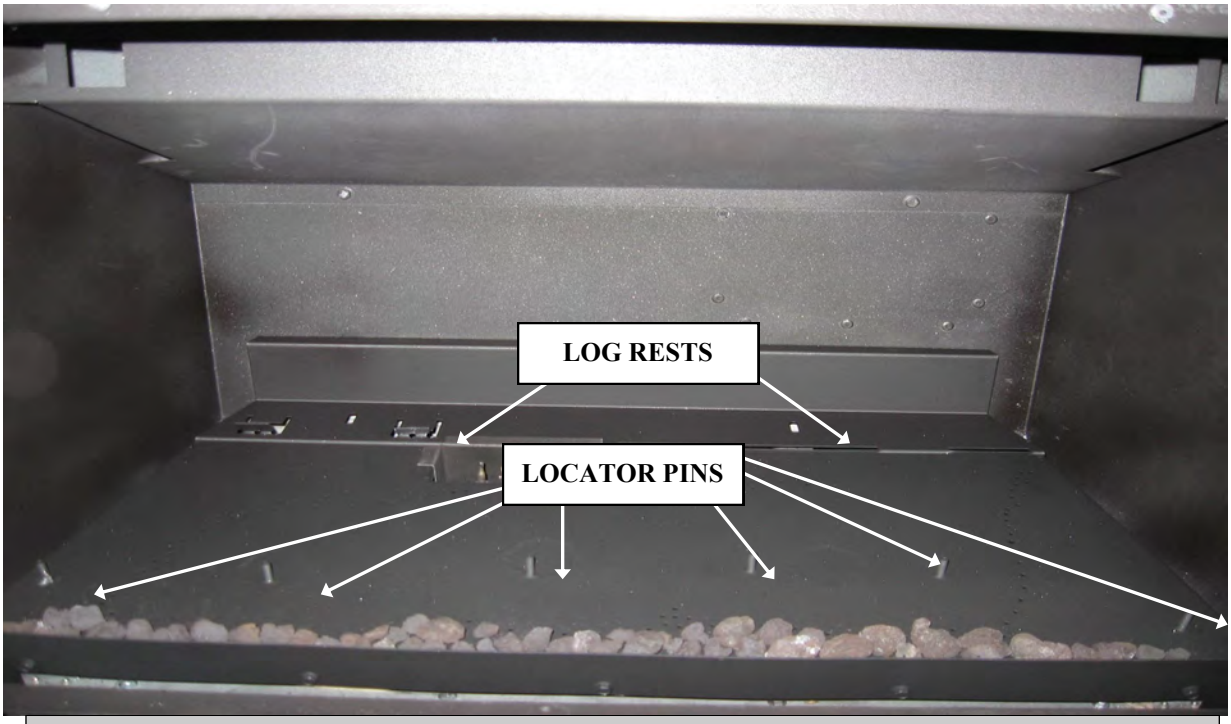
NOTE: Improper placement of logs and embers may cause sooting on the internal parts and glass and will not be covered under warranty. Do not use broken or damaged logs.

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 2-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 be placed so as not to block burner ports. Separate the material and spread around the pan as shown below.

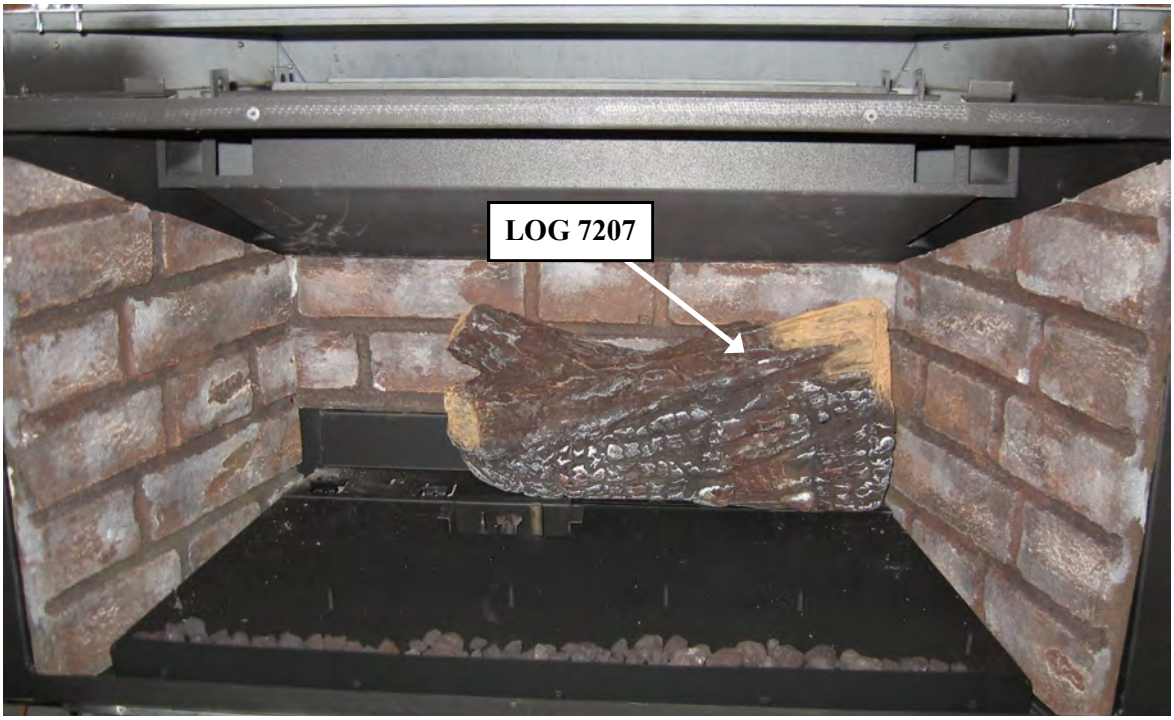
Locator Pins and Embers Shown



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 Log with 7207 stamped on the bottom and place it as shown.



Step 2. Locate Log with 7201 stamped on the bottom and place it as shown.

LOG PLACEMENT... Continued

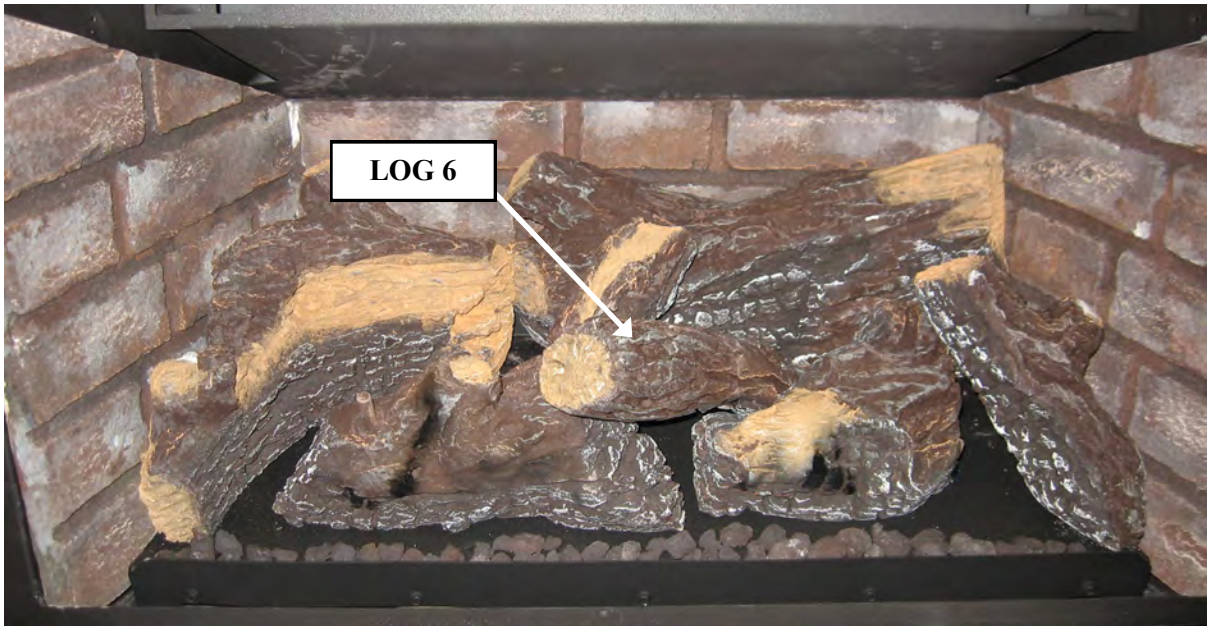
Step 3. Locate Log with 7203 stamped on the bottom and place it as shown.

Step 4. Locate Log with 7202 stamped on the bottom and place it as shown.

LOG PLACEMENT... Continued

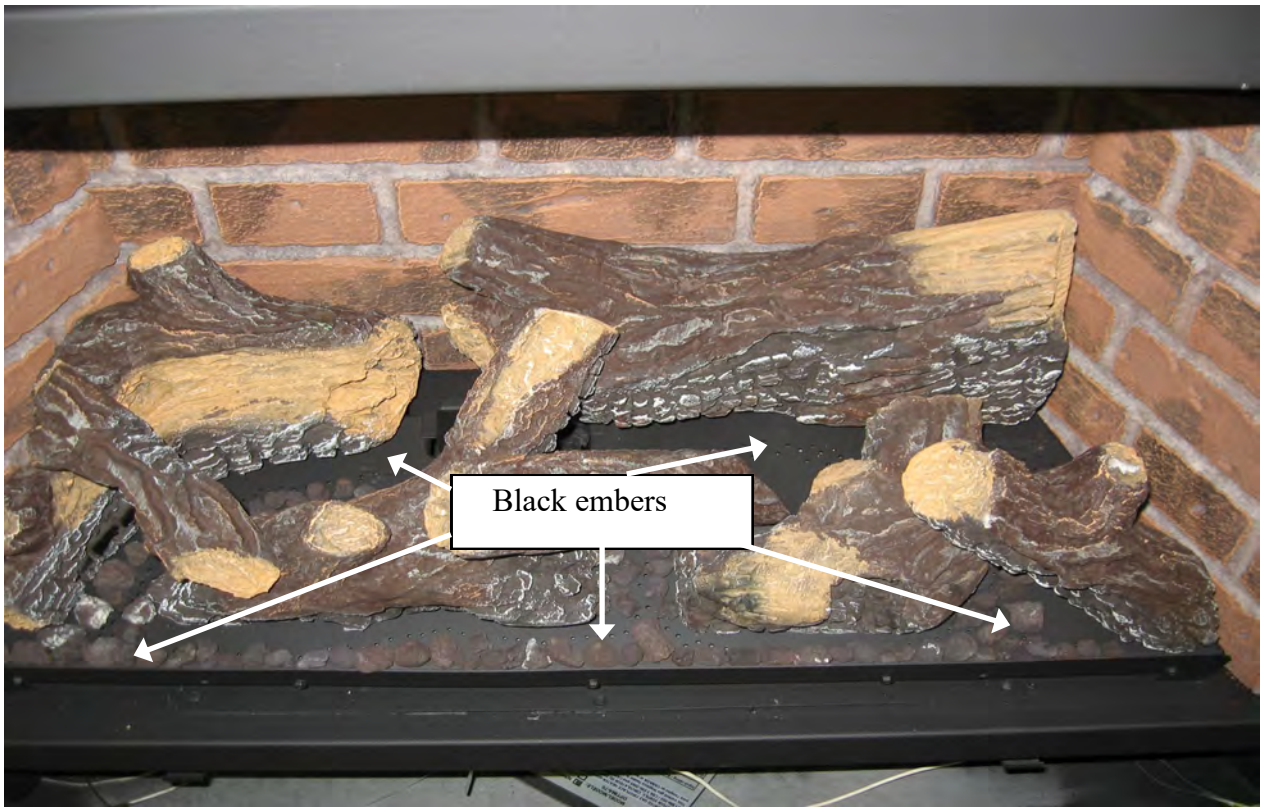
Step 5. Locate Log with 7204 stamped on the bottom and place it on the front pins as

Step 6. Locate Log with 6 stamped on the bottom and place it as shown.



Step 7. Locate Log with 5 stamped on the bottom and place it as shown.

Step 8. Place black embers around logs as shown , do not cover the holes in the burner.



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 10 of this manual).
3. If required, adjusting the primary air to burner to ensure that the flame does not carbon or soot. (see page 35 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.

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
POUR VOTRE SÉCURITÉ VEUILLEZ LIRE AVANT L'ALLUMAGE

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

AVERTISSEMENT: Quiconque ne respecte pas à la lettre les instructions dans la présente notice risque de déclencher un incendie ou une explosion entraînant des dommages, des blessures ou la mort.

A. This appliance has a pilot which must be lighted by manual spark igniter. 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, do not try to repair it, call a qualified service technician. Force 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.

A. Cet appareil est muni d'une veilleuse qui doit être allumée par allumeur manuel. Respectez les instructions ci-dessous à la lettre.

B. AVANT D'ALLUMER la veilleuse,reniflez tout autour de l'appareil pour déceler une odeur de gaz. Reniflez près du plancher, car certains gaz sont plus lourds que l'air et peuvent s'accumuler au niveau du sol.

QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur; ne pas vous servir des téléphones se trouvant dans le bâtiment.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur, appelez le service des incendies.

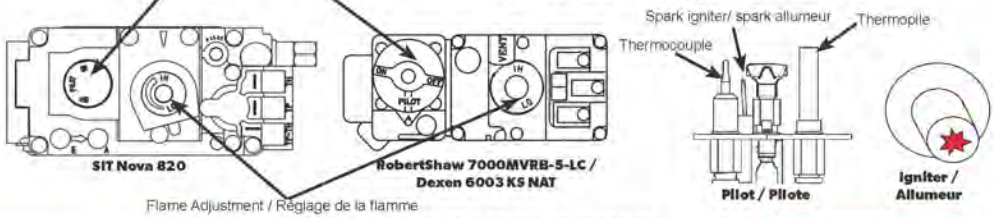
C. Ne pousser ou tourner la manette d'admission du gaz qu'à la main. Ne jamais employer d'outil à cette fin. Si la manette reste coincée, ne tentez pas de la réparer, appelez un technicien qualifié. Quiconque tente de forcer la manette ou de la réparer peut provoquer une explosion ou un incendie.

D. N'utilisez pas cet appareil s'il a été plongé dans l'eau, même partiellement. Faites inspecter l'appareil par un technicien qualifié et remplacez toute partie du système de contrôle et toute commande qui ont été longés dans l'eau.

LIGHTING INSTRUCTIONS
INSTRUCTION D'ALLUMAGE

1. STOP! Read the safety information above on this label.
2. Set the wall switch to "**OFF**".
3. Turn off all electric power to the appliance.
4. Open lower louvers or remove trim and barrier screen.
5. Press slightly and turn the control knob clockwise to the "**OFF**" position. Open gas isolation valve.
6. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! and follow "**B**" in the safety information above (and to the left) on this label. If you do not smell gas, go to the next step.
7. Find pilot. It is adjacent to the burner and may be partially concealed by a decorative cover.
8. Press slightly and turn control knob counterclockwise to "**PILOT**". Depress knob and light pilot by repeatedly pressing the igniter. Once flame is established, hold knob depressed for approximately 30 seconds. Release knob. If pilot should go out, repeat steps 3 to 8.
   - 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 serveral tries, turn the gas control knob to "**OFF**" and call your service technician or gas supplier.
9. Turn the control knob counterclockwise to the "ON" position.
10. Set the wall switch to "**ON**".
11. Turn on all electric power to the appliance.
12. Close louver or replace trim and the barrier screen.

1. ARRÊTEZ! Lisez les instructions de sécurité sur la portion supérieure (à gauche) de cette étiquette.
2. Réglez le commutateur à distance sur "OFF".
3. Coupez l'alimentation électrique de l'appareil.
4. Ouvrez persiennes inférieurs ou porte d'accès.
5. Appuyez légèrement et tournez le bouton de commande dans le sens horaire à la position "OFF". vanne d'isolement de gaz ouverte.
6. Attendre cinq (5) minutes pour laisser échapper tout le gaz. Reniflez tout autour de l'appareil, y compris près du plancher, pour déceler un odeur de gaz. Si vous sentez une odeur de gaz, ARRÊTEZ! Passez à l'étape B des instructions de sécurité sur la portion supérieure (à gauche) de cette étiquette. S'il n'y a pas d'odeur de gaz, passez à l'étape suivante.
7. Trouver pilote. Il est adjacent au brûleur et peut être partiellement masqué par un couvercle décoratif.
8. Appuyez légèrement et tournez le bouton de commande vers la gauche pour "PILOT". Enfoncez le bouton et la veilleuse en appuyant plusieurs fois sur la allumeur. Une fois que la flamme est établie, maintenez le bouton enfoncé pendant environ 30 secondes. bouton de sortie. Si pilote doit sortir, répétez les étapes 3 à 8.
   - Si la manette ne se soulève pas d'elle-même lorsqu'on la relâche, arrêter et appeler immédiatement un technicien qualifié ou le fournisseur de gaz.
   - Si la veilleuse ne reste pas allumée après plusieurs tentatives, réglez la manette d'admission du gaz à la position OFF et appelez un technicien qualifié ou le fourniesseur de gaz.
9. Tournez le bouton de commande dans le sens antihoraire à la position "ON".
10. Allumez l'alimentation électrique de l'appareil.
11. Réglez le commutateur à distance sur "ON".
12. Persienne fermée ou porte d'accès.



TO TURN OFF GAS TO APPLIANCE
COMMENT COUPER L'ADMISSION DE GAZ DE L'APPAREIL

1. Set the wall switch to "**OFF**".
2. Turn off all electric power to the appliance if service is to be performed.
3. Open lower louvers or remove trim.
4. Press slightly and turn control knob clockwise to "**OFF**". Do not force. Close gas isolation valve.
5. Close lower louvers or replace trim.

1. Réglez le commutateur à distance sur "OFF".
2. Coupez l'alimentation électrique de l'appareil s'il faut procéder à l'entretien.
3. Ouvrez persiennes inférieurs ou porte d'accès.
4. Appuyez légèrement et tournez le bouton de commande dans le sens horaire à la position "OFF". vanne d'isolement de gaz à proximité.
5. Persienne fermée ou porte d'accès.

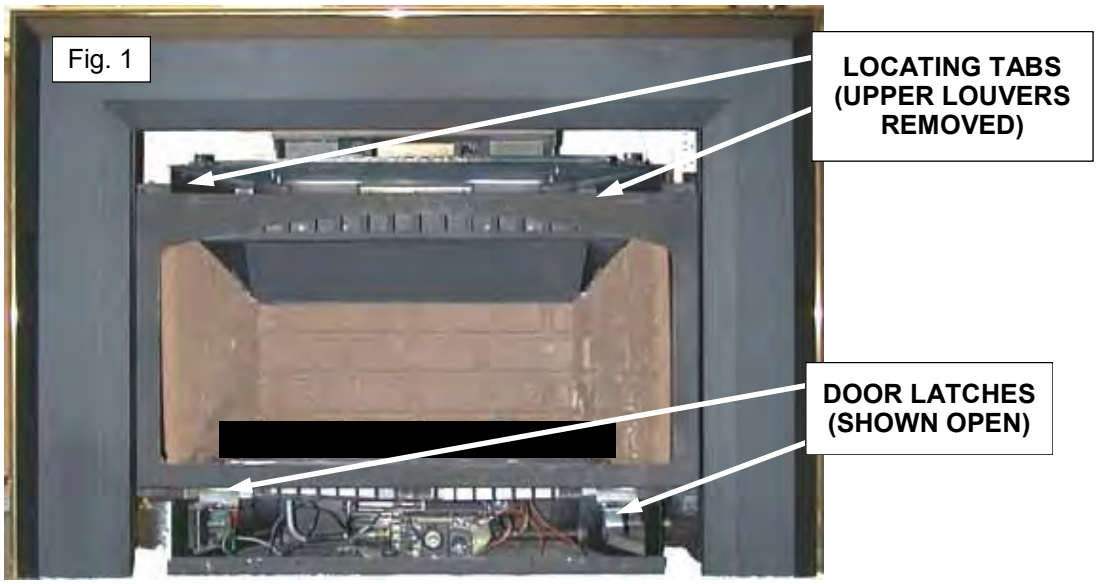
GLASS DOOR REMOVAL

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, contact your local Archgard dealer to purchase a new door assembly to replace the original door. The door assembly must be replaced as an entire assembly.

- 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.

34-DVI34N
SAFTEY BARRIER INSTALLATION

If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.

- **REMOVE TOP LOUVERS.**
- **OPEN BOTTOM LOUVERS**
- **UNDO BOTTOM DOOR LATCHES.**
- **PLACE UPPER SCREEN TABS ON DOOR MOUNTS.**

- **PUSH IN BOTTOM OF SCREEN AND DOOR.**
- **RELATCH BOTTOM DOOR LATCHES**

Safety Barrier installed.

- To remove screen, reverse installation process.

WARNING

DOOR MUST BE INSTALLED PRIOR TO SCREEN INSTALLATION TO AVOID POSSIBLE DAMAGE OR INJUY.

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.	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. 2. Check to make sure the gas supply to the appliance is turned on and there is adequate gas supply pressure to the appliance. 3. Check for sparks between the spark electrode and the pilot head when the sparker is pressed. If there are no sparks: a. Check for broken or poor connection from the sparker to the electrode. b. Check for the spark shorting or arcing at other locations. c. Check for defective sparker. d. Check for defective spark electrode. 4. With the door removed, try lighting the pilot with a match. a. If air is blowing on the flame of the match, hold the control knob in at the '**PILOT**' setting until all the air is purged out of the line. 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.
Pilot will not remain on after being lit.	1. Press the control knob all the way in (at the "pilot" indicator). 2. Hold the control knob in for a longer period of time. 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) 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. 5. Check for poor connection of the thermocouple to the valve. 6. Check for proper millivolts of the thermocouple. The thermocouple should generate at least 20 mV or it is defective. 7. Check for defective gas valve.
The main burner does not turn on with the pilot lit.	1. Check to make sure the control knob is turned to the '**ON**' position. 2. Allow enough time for the pilot to heat up the thermopile to generate sufficient voltage to activate the valve.

TROUBLESHOOTING Cont...

SYMPTOM	ACTION
The main burner does not turn on with the pilot lit. Cont...	3. Check to make sure the thermostat is set high enough to turn on the appliance. 4. Check that the remote switch or the thermostat is turned on. 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. 6. Check all connections to the valve for tight electrical contact. 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. 8. Check for defective gas valve.
The main burner shuts off when the appliance is warm.	1. This may be the normal operation of a wall thermostat installed to appliances. 2. Check for good pilot flames on the thermopile. 3. Check for good voltage from the thermopile. 4. Check for proper functioning of venting system (blocked) 5. If venting is suspected, refer to the venting section of this manual for proper venting practices. 6. Check wire connections. Expansion from heat affects a loose connection.
Sooty deposits on the glass door.	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. 2. Check for proper placement of the logs and branches. Ensure logs and burner are clean. See that section in the instruction manual. 3. Check for proper venting and blockage of the vent termination. 4. Check manifold pressure and clock input rating for over-firing.
Sharp blue flames with flames lifting off the burner at the ends.	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.
Convection blower does not turn on.	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. 2. Check for 120 VAC electrical supply to the appliance. (Is the cord plugged in?) 3. Check for proper mounting of the thermal snap disc. 4. Check electrical connections. 5. Check for defective thermal snap disc. 6. Check for defective convection blower speed controller. 7. Check for defective convection blower.

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 metal plated trims may be cleaned with a soft, non-abrasive cloth and water or a suitable, mild, non-abrasive cleaner. Be sure there are no fingerprints left on the glass panels as high temperatures can bake these prints on permanently.

Regularly:

- Frequent cleaning of the ceramic glass is recommended. We recommend using a good quality ammonia free gas fireplace glass cleaner that is available at any hearth retail location. Take care to avoid scratching glass while cleaning. DO NOT CLEAN WHILE HOT. Never use common household cleaners to clean the glass.
- 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

Once a year, have a qualified service technician:

- Perform the regular services listed above
- Inspect and operate the pressure relief mechanism (door buckles) to verify they are free from obstruction and operate properly
- 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 according to the instructions in this manual
- Vacuum and clean 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
- Inspect the operation of the flame safety system pilot and gas valve
- Inspect and ensure the lighting of the main burner occurs within 4 seconds of the main gas valve opening. Flames should match those shown in Page 35
- Completely inspect the appliance and the venting system, if the vent pipe or seal is found to be defective, replace and or reseal.
- Inspect the condition of the vent and vent terminal for sooting or obstruction and correct if present
- Test and measure the flame failure response time of the flame safety system. It must de-energize the safety shutoff in no more than 30 seconds
- Check all accessible gas-carrying tubes, connections, pipes and other components for leaks

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).

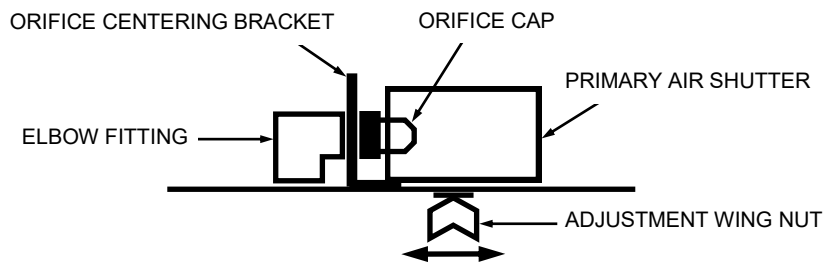
WARNING: Servicing of this appliance **must be conducted by a qualified Archgard service technician**. Improper servicing, adjustment or alteration of this appliance may cause property damage, personal injury or loss of life. All servicing should be conducted with the appliance cold. All replacement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

ADJUSTING PRIMARY AIR

Note: the Shutter is set at the factory and normally only requires resetting at higher altitudes.
Caution: Wear gloves when adjusting the primary air with the appliance hot.

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.

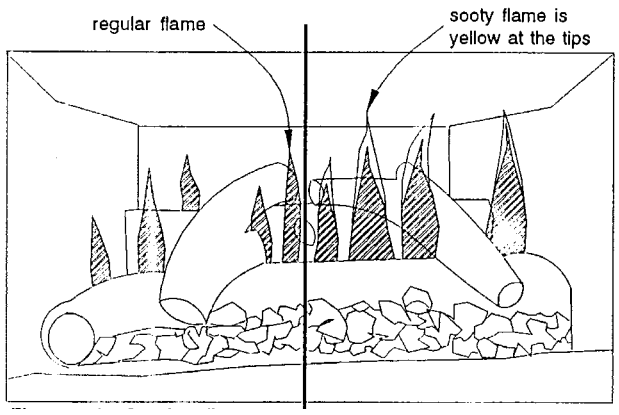
Air Shutter (side view)



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 34 will look like in your home environment.

Fig.1



FLAMES

The left side shows correct adjustment. The right side shows yellow sooty flames requiring increase in shutter opening or cleaning of shutter area, due to lint buildup.

CHANGING MAIN BURNER ORIFICE

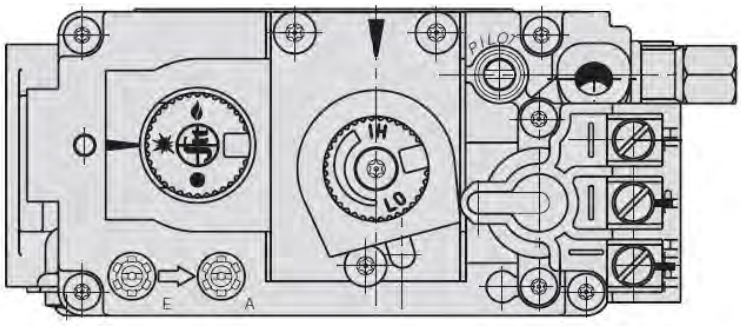
1. Remove the glass door. Follow GLASS DOOR REMOVAL instructions within this manual.
2. Locate & slide the Primary Air Sleeve fully toward the left. This will allow the sleeve to disconnect from the burner tube. Follow ADJUSTING PRIMARY AIR instructions within this manual for reassembly.
3. Remove the logs. See LOG PLACEMENT for instructions.
4. Unscrew the two mounting screws that are located at the back rear of the pan burner.
5. Loosen the wing nut on the primary air shutter located behind and to the left of the control valve.
6. Carefully remove the pan burner along with the air shutter by sliding it to the right and lifting it out.
7. Use a ⅝” wrench to hold the orifice holder fitting. Use a ½” (13 mm) wrench to remove the orifice cap.
8. Change the orifice cap to the fuel type desired. Use a small quantity of gas thread seal compound. Do not overtighten.
9. Reverse steps 1 to 7.

WARNING: When replacing the pan burner using the two screws, you must NOT over-tighten the screws. Leave the screws “FINGER-TIGHT” allowing the pan burner to “float”. This is required for expansion & contraction of the pan burner.

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.

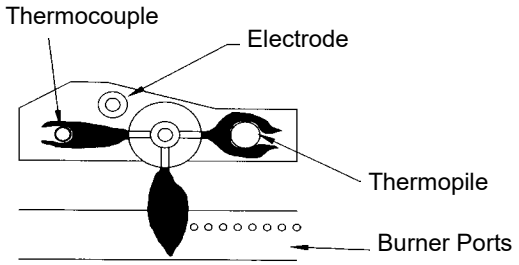
CHECKING INLET AND OUTLET GAS PRESSURE

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 3/16" slotted 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.



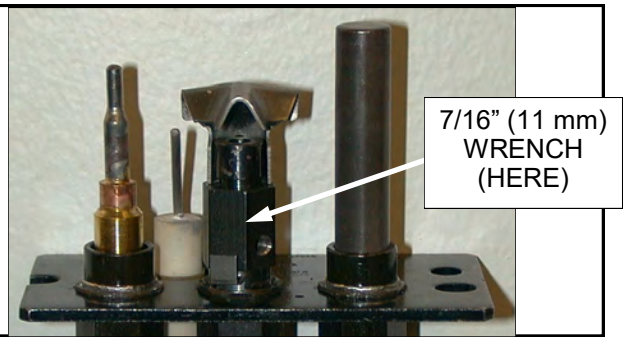
CHECKING AND ADJUSTING PILOT

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

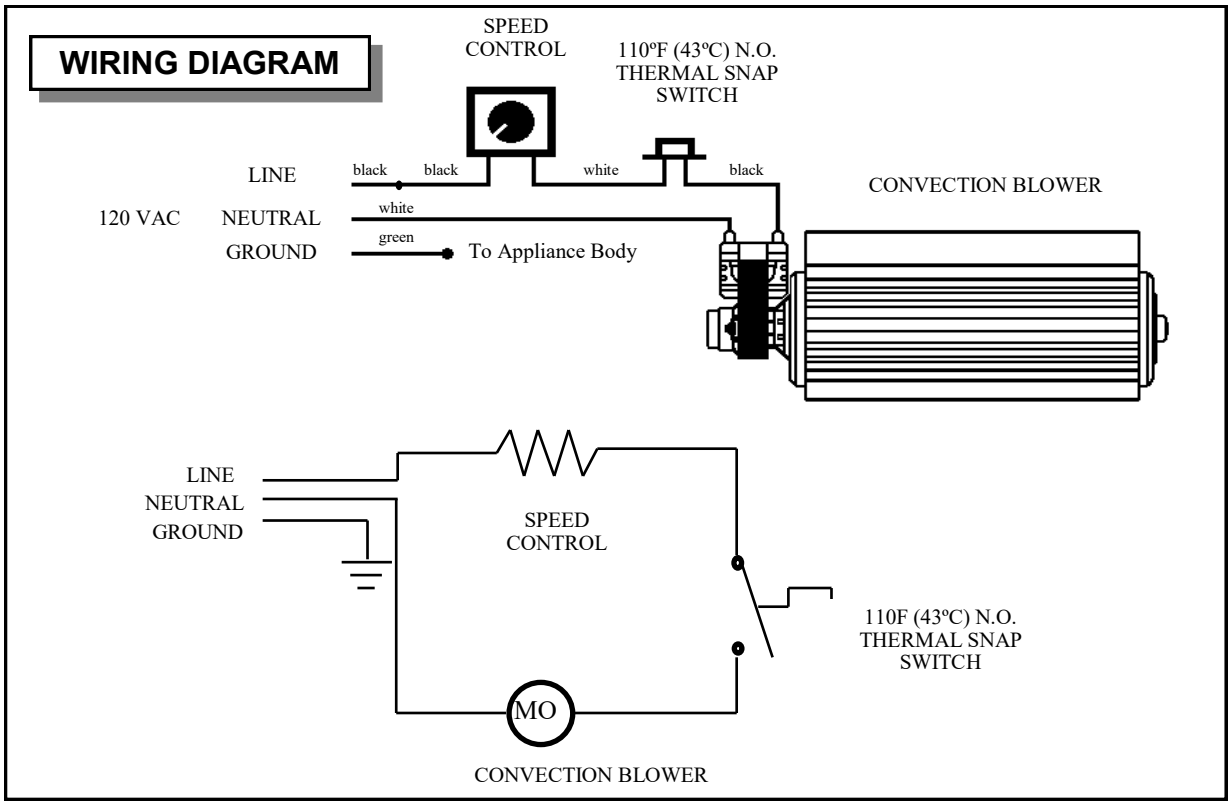
CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.
This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with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

NOTES:

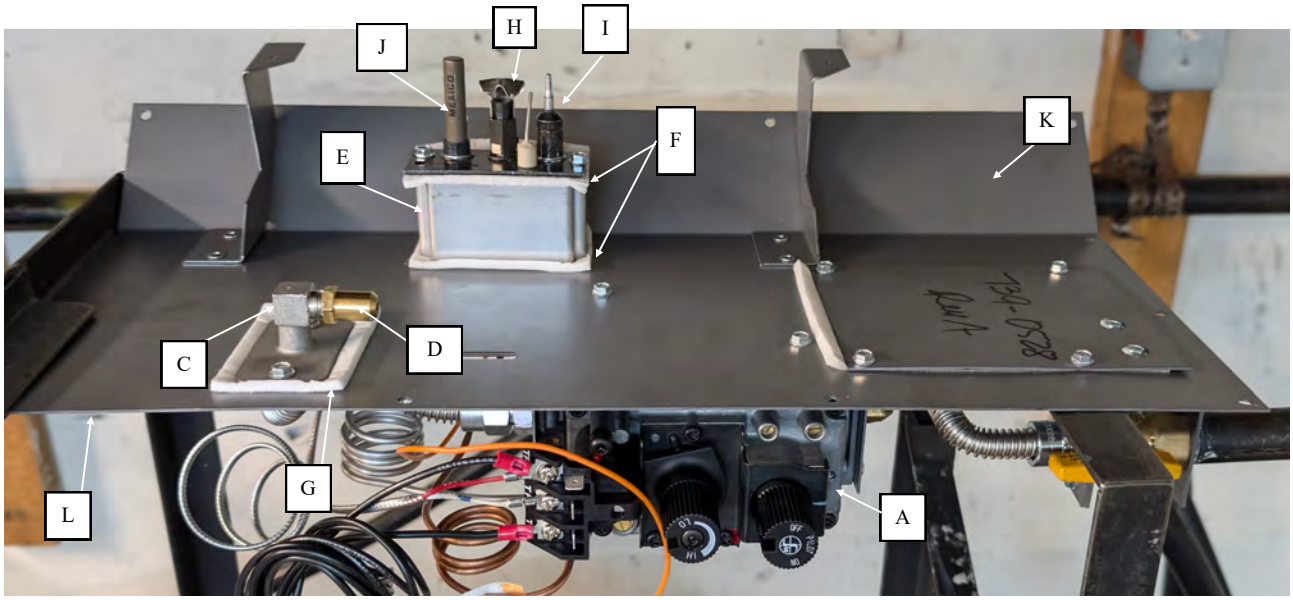
- **Make sure the gas to the appliance has been shut off.**
- **Ensure that the main power and breaker system is turned off before removing the fan.**
- **Make sure the fireplace has been turned off and is cool to the touch.**
- **Mark all wires to be removed for proper reassembly.**

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 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.

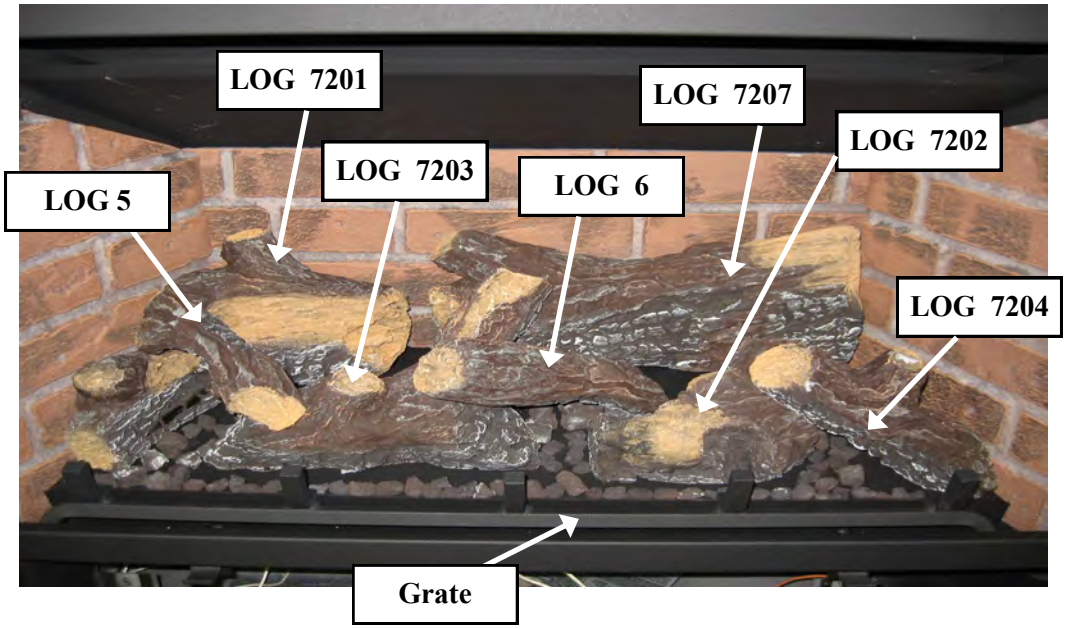


VALVE TRAY ASSEMBLY



	Item #	Item Description	Qty	Unit
A	308-0013	Valve, SIT 820 NOVA	1	EA
B	308-0005	Replacement Piezo Igniter, SIT controls	1	EA
C	301-6007	7” Flex line assembly, flanged orifice	1	EA
D	301-0068-34	Orifice (Main Burner Orifice) Drill to # 34 DMS (2.76 mm) for Natural Gas	1	EA
	301-0068-51	Orifice (Main Burner Orifice) Drill to #51 DMS (1.72 mm) for LP (Propane) Gas	1	EA
E	739-0097-REVA	Aluminum Pilot Box	1	EA
F	314-0139	Pilot Box Gasket	2	EA
G	314-0115	Burner Orifice Mount Gasket	1	EA
H	308-0093	Pilot Assembly. Convertible NG/LP Base Mount. (Includes the items listed below)	1	EA
I	308-6057	Thermocouple	1	EA
J	308-0056	Thermopile	1	EA
K	832-0117	Complete SIT Valve Tray Assembly, Natural Gas	1	EA
L	314-0138	Valve Tray Gasket	1	EA

PARTS LIST - Logs and Pan Burner



Item #	Item Description	Qty	Unit
310-634720-1	Log 7201	1	EA
310-634720-2	Log 7202	1	EA
310-634720-3	Log 7203	1	EA
310-634720-4	Log 7204	1	EA
310-634720-5	Log 7205 (there is only 5 on log)	1	EA
310-634720-6	Log 7206 (there is only 6 on log)	1	EA
310-634720-7	Log 7207	1	EA
872-0060-R2	Grate	1	EA
832-0051	Pan Burner	1	EA
310-0020	Black Embers (2 cup bag)	1	EA

REPLACEMENT PARTS LIST - ARCHGARD 34-DVIM34N-2

Item #	Item Description	Qty	Unit
200-0291-02	Owner's Manual	1	EA
832-0005	Top Louver (grill) assembly (Metallic Black)	1	EA
832-0004	Bottom Louver (grill) assembly (Metallic Black)	1	EA
300-0030	Hinge Self-Closing Brass	2	EA
800-0070	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
	Fan Components		
305-0012	Power Cord 8' (2.43 M)	1	EA
305-0013	Fan - Speed Control (Rheostat)	1	EA
305-0021	Fan - Thermodisc (fan sensor) 110^0 F. (43^0 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
	Flat Glass Door		
800-0034	Complete Replacement Door. Includes glass, gasket and door frame	1	EA

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.

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 from defects in materials and workmanship under normal use and service, for a "lifetime". All warranty repairs are to be performed by an authorized Archgard Dealer during the warranty period. Other repair / service company charges for any work done during the warranty period, will be the responsibility of the home owner.

INCLUSIONS: "LIFETIME LIMITED WARRANTY"
All heat exchangers and combustion chamber
Ceramic Fiber Logs and Ceramic Brick Panels, against splitting and cracking due to heat exposure

NOTE: Discoloration and some minor movement including warping of certain parts are normal and are not a defect; therefore, not covered under warranty.

INCLUSIONS: "SEVEN YEAR LIMITED WARRANTY"
Burner tubes and pans

INCLUSIONS: "TWO YEAR LIMITED WARRANTY"
Ceramic Glass against thermal breakage
Trims and accessories from splitting or separating
Electronic Control Module, Remote Transmitter

Items included with ten-year and two-year limited warranty will be covered under "Parts & Subsidized Labour" to the original purchaser for one (1) year 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
Paint peeling or cracking

Items included in the one-year limited warranty will be covered under "Parts & Subsidized Labour" to the original purchaser for one (1) year from date of purchase.

WHAT TO DO IN THE EVENT OF A PROBLEM:
Thoroughly read your "Owner's Installation, Operation & Maintenance Manual"
If you cannot solve the problem, contact your Archgard dealer or representative
When calling for assistance, please have the following information:
Model of your fireplace Serial Number Place of Purchase
Date of Purchase Problem Description

NOTE: Warranty will 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).

All warranty repairs are to be performed by an authorized Archgard Dealer during the warranty period. Other repair / service company charges for any work done during the warranty period, will be the responsibility of the home owner.

OBTAINING WARRANTY SERVICE:
The original purchaser shall return the defective part(s) to the original authorized Archgard dealer – transaction prepaid, along with the serial number of the appliance and original 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 instructions 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 Archgard 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 limitations 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.

WARRANTY CONDITIONS & REQUIREMENTS:
1. You are the original purchaser – this warranty is not transferable.
2. Installation of the fireplace must be performed by a qualified Archgard installer.
3. Installation and operation must comply with the installation and operation instructions.
4. All optional accessories are covered for one (1) year from the date of purchase.
5. This warranty does not offer coverage for light bulbs or batteries (whether factory, dealer, or installer supplied). This includes any damage stemming from non-use.
6. Damage during shipping or handling of components, defects resulting from improper installation or service, or misuse of the fireplace or fireplace components are not covered under this warranty.
7. This warranty does not cover any part of the fireplace or any component which has been exposed to or submerged under water.
8. Archgard must be notified by the dealer the fireplace was purchased from or a qualified Archgard technician of the defect.
9. Annual service of the fireplace as required in the installation manual must be performed by a qualified Archgard technician (service records may be required to claim a warranty).
10. All previous warranty service must have been performed by a qualified Archgard technician (service records may be required to claim a warranty).
11. Travel time or mileage to the original purchaser's residences is not covered under this warranty. We suggest that you pre-arrange travel expenses with your Authorized Archgard Dealer.
12. Freight on warranty shall be covered for the first two years of the warranty period.

CUT ALONG LINE

POSTAGE

WARRANTY REGISTRATION

ARCHGARD INDUSTRIES LTD.
PO Box 318
RAYMOND, AB
T0K 2S0

FOLD DOWN AT LINE

CUT ALONG LINE

FOLD DOWN AT LINE & TAPE CLOSED

CUT ALONG LINE

Model # : 34-DVIM34N-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. Save time by completing this form at www.archgard.com/warranty-registration

ARCHGARD INDUSTRIES LTD.

300 RAILWAY AVENUE
RAYMOND, AB T0K 2S0
CANADA

WWW.ARCHGARD.COM