



## INSTALLATION, OPERATION, AND MAINTENANCE MANUAL

### Chantico 31

Models: 31-DVIE33LN-3  
31-DVIE33CN-3

GAS FIRED DIRECT VENT  
FIREPLACE INSERT  
S/N 216995 AND UP



**WARNING:** If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

Do not store or use gasoline or other flammable vapors or 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 neighbors phone.
- Follow the gas suppliers instructions
- If you can not reach your gas supplier, call the fire department

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

English and French Installation Manuals available through your local dealer or visit our website at: [www.archgard.com](http://www.archgard.com)  
Les manuels d'installation en anglais et en français son disponibles chez votre détaillant local ou en visitant notre site web: [www.archgard.com](http://www.archgard.com)

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

**! 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.



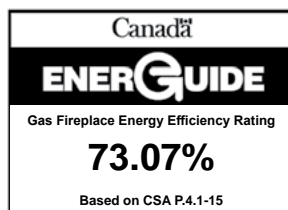
We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

**INSTALLER:** LEAVE THIS MANUAL WITH THE APPLIANCE.

**CONSUMER:** RETAIN THIS MANUAL FOR FUTURE REFERENCE.

#### ARCHGARD FIREPLACE PRODUCTS

7116 Beatty Drive  
Mission, BC V2V 6B4 Canada



**200-1131-14**  
August 29, 2023

# TABLE OF CONTENTS

<b>1.0 Introduction</b>	3	16.3 Dimensions of Fronts	30
<b>2.0 Safety Information</b>	4	16.4 Decorative Trim Dimensions	31
<b>3.0 Technical Information</b>	5	16.5 Decorative Plinth Dimensions	32
3.1 Appliance Certification	5	<b>17.0 Panel Set Installation</b>	33
3.2 Installation Codes	5	17.1 Brick Panel (31-DVIE33LN-3)	33
3.3 Specifications	5	17.2 Reflective Glass (31-DVIE33LN-3)	35
3.4 High Altitude Installation	5	17.3 Reflective Glass (31-DVIE33CN-3)	37
<b>4.0 Rating Plate</b>	6	<b>18.0 Media Installation</b>	39
<b>5.0 Installation Checklist</b>	7	18.1 High Definition Log Set (31-DVIE33LN-3)	39
<b>6.0 Appliance Overview</b>	8	18.2 Premium Log Set Options (31-DVIE33LN-3)	46
6.1 Rating Plate Location	8	18.3 Fire Beads (31-DVIE33CN-3)	47
6.2 Appliance Overview	8	18.3 River Rocks (31-DVIE33CN-3)	48
6.3 Leveling the Appliance	9	<b>19.0 Operation</b>	49
<b>7.0 Electrical Connections</b>	9	19.1 Before Lighting	49
<b>8.0 Appliance Dimensions</b>	10	19.2 First Fire	49
8.1 "Controls In" Dimensions	10	19.3 Lighting Instructions	50
8.2 "Controls Out" Dimensions	11	19.4 Dynamic Start Advantage	51
<b>9.0 Minimum Opening Dimensions</b>	12	19.5 Remote Control Operation	52
9.1 Factory Built Fireplaces	13	<b>20.0 Maintenance</b>	59
9.2 Refacing a Masonry Fireplace	14	20.1 Cleaning and Routine Maintenance	59
<b>10.0 Clearances to Combustibles</b>	15	20.2 Servicing Under Warranty	60
10.1 Mantel Clearances	15	20.3 Checking Inlet and Outlet Pressure	60
10.2 Sidewall Clearances	15	20.4 Checking and Adjusting Pilot	61
10.3 Hearth Clearances	16	20.5 Adjusting the Primary Air	61
<b>11.0 Gas Connections</b>	17	20.6 Replacing Batteries	62
11.1 Clocking Procedure	17	20.7 Replacing Fuse	62
<b>12.0 Conversion Kit Instructions</b>	18	20.8 Replacing the Control Board	63
12.1 Prepare the Fireplace	18	20.9 Replacing the Valve	64
12.2 Pilot Conversion	18	20.10 Replacing the 31-DVIE33LN-3 Log Burner	65
12.3 Convert the Gas Valve	19	20.11 Replacing the 31-DVIE33CN-3 Contemporary Burner	66
12.4 Complete the Conversion	19	20.12 Replacing the Pilot	67
<b>13.0 Venting Instructions</b>	20	20.13 Replacing the Fan	69
13.1 Approved Terminations	21	20.14 Wiring Schematic	71
13.2 Min/Max Vent Run	23	20.15 Troubleshooting	72
13.3 Using a Co-linear to Coaxial Adapter	24	<b>21.0 Frequently Asked Questions</b>	73
<b>14.0 Barrier Screen Installation</b>	25	<b>22.0 Replacement Parts List</b>	74
<b>15.0 Glass Door Installation</b>	26	<b>Archgard Limited Warranty</b>	79
15.1 If Your Glass Breaks	26		
<b>16.0 Surround Installation</b>	27		
16.1 Surround Dimensions	28		
16.2 Trimmable Surround Dimensions	29		

# General Information

## 1.0 Introduction

Thank You and Congratulations for choosing an Archgard Gas Fireplace insert!

Chantico (Chan-TEE-ko) - "she who dwells in the house" is the Aztec deity reigning over the fires in the family hearth. She was the goddess of pleasure and the home, the place where families gather. Ancient Aztecs prayed to Chantico to bestow wealth and stability upon their homes and men who were going off to battle would pray to her that they would return and find those home fires burning.

The Chantico 31 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 that brings many trouble-free years of reliable service. This manual provides information regarding model number 31-DVIE33LN-3 and 31-DVIE33CN-3.

Some of the many features of your Chantico 31 include:

- **Heater Classification** This fireplace is classified as a heating appliance. Therefore, it uses Direct Vent safety technology and it is suitable for continuously operated zone heating.
- **High Efficiency** This fireplace has one of the highest efficiencies of any Direct Vent gas insert, ensuring it is less expensive to operate.
- **Adjustable Fan Speed** This fireplace comes complete with an adjustable six speed circulation fan controlled with the remote.
- **Adjustable Flame** This fireplace provides the ability to adjust the flame aesthetics and heat output to suit the owner's liking and heating needs.
- **Solid Construction** This fireplace is mainly constructed of 16 and 18 gauge galvanized and aluminized coated steel for long life and durability.
- **Optional Accessories** Speak with your local Authorized Archgard Dealer for a full complement of decorative accessories to suit your home's decor and personal tastes.
- **Electronic Control System** This fireplace comes standard with the Dynamic Start Advantage. This new electronic ignition system is the latest in fireplace technology. It helps to create a better draft, better flame appearance, less condensation on the glass, and years of carefree operation. See **Section 19.4** for complete explanation of how the system works.
- **Multiple Electronic Pilot Settings** This fireplace uses a gas control valve that is operated by a Multifunction Remote Control. It can be set up as either an Intermittent Pilot Ignition (IPI) system, or Continuous Pilot on Demand Ignition (CPI) system (also known as a Pilot on Demand (POD)).

### Model Number Definition (31-DVIE33LN-3 or 31-DVIE33CN-3)

<b>31</b>	Diagonal dimension of the fireplace opening in inches		
<b>DVI</b>	Direct Vent Insert		
<b>E</b>	Electronic Ignition		
<b>33</b>	Natural Gas Input Rating in BTU		
<b>L</b>	Traditional Log Set	or	<b>C</b> Contemporary Burner
<b>N</b>	Natural Gas (optional propane conversion kit available)		
<b>-3</b>	Revision Number		

### CPI vs IPI:

**Continuous Pilot on Demand Ignition (CPI):** In this mode the pilot runs continuously even when the main burner is off. The Continuous Pilot on Demand Ignition operates on a seven day cycle. If the main burner is not turned on for seven continuous days, the pilot will turn itself off. When the main burner is lit again the cycle repeats. The pilot will remain lit for seven days, even after the main burner is turned off. If the main burner is lit during a seven day timing cycle, the seven day timer will reset.

**Intermittent Pilot Ignition (IPI):** A fuel saving mode in which the pilot is only used when the main burner is on.

This appliance is shipped in IPI mode. IPI mode is often the preferred method, however, there are some situations where it may be preferable to switch the fireplace into CPI mode. For example, in colder climates the glass door or the front of the fireplace could become very cold to the touch. Dynamic Start Advantage will solve most problems experienced by older IPI operated fireplaces.

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](http://www.archgard.com/warranty-registration)



## 2.0 Safety Information

### Caution

**FOR YOUR SAFETY** - Do not install or operate your **31-DVIE33LN-3** or **31-DVIE33CN-3** 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](http://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 in **Section 5.0** 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.**



## 3.0 Technical Information

### 3.1 Appliance Certification

This appliance was listed by QAI LABORATORIES Certification Inc 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 right side of the appliance.

A copy is shown on **Section 4.0**.

**Commonwealth of Massachusetts:** This appliance has been manufactured in accordance with Massachusetts code 248 CMR 5.00. Approval Code: G1-1220-151. (<http://license.reg.state.ma.us/public/licque.asp>).

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

### 3.2 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.

This appliance is certified for installation in a bedroom or a bed sitting room. Please refer to local codes for thermostat requirements.

**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.**

### 3.3 Specifications

	Natural Gas (NG)	Propane (LP)
<b>Manifold Pressure</b>	1.6 - 3.5 in. W.C. (0.4 - 0.9 kPa)	6.4 - 10.0 in. W.C. (1.6 - 2.5 kPa)
<b>Min. Supply Pressure</b>	5.0 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>	#33 DMS (2.87 mm dia)	#51 DMS (1.70 mm dia)
<b>Input Rating</b>	22,000 - 33,000 BTU/hr (6.1 - 9.6 kW)	24,000 - 31,000 BTU/hr (6.9 - 9.0 kW)
<b>P.4 Fireplace Efficiency (FE)</b>	73.07%	
<b>P.4 Steady State Efficiency</b>	74.55%	
<b>Electrical Rating</b>	120 VAC, 60Hz less than 2 A.	
<b>Gas Control</b>	SIT 885 Proflame II Dynamic Start Advantage with Continuous Pilot on Demand	
<b>Altitude</b>	0 - 4,500 ft. (0 - 1372 M)	
<b>Primary Air Opening</b>	1/4" (6 mm) OPEN	FULLY OPEN

### 3.4 High Altitude Installation

When installing this appliance beyond 4500 ft. (1372 M) above sea level, the appliance must be properly derated 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.

# General Information

## 4.0 Rating Plate

DO NOT REMOVE THIS LABEL



**MODEL: 31-DVIE33LN-3** 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, CSA C22.2 No.3 - M1988(R.2014).  
 This vented gas fireplace heater is not for use with air filters. Certified for use in both CANADA and USA.  
 VENTED GAS FIREPLACE HEATER-NOT FOR USE WITH SOLID FUEL.

	NG	LPG
Input rating	22,000 - 33,000 BTU/hr (6.1 - 9.6 kW)	24,000 - 31,000 BTU/hr (6.9 - 9.0 kW)
Manifold Pressure	3.5 - 1.6 in. W.C. (0.9 - 0.4 kPa)	10.0 - 6.4 in. W.C. (2.5 - 1.6 kPa)
Orifice size	#33 DMS (0.87 mm dia.)	#37 DMS (1.70 mm dia.)
Minimum supply pressure for purpose of input adjustment.	14.0 in. W.C. (3.5 - 3.5 kPa)	11.0 - 14.0 in. W.C. (2.73 - 3.5 kPa)
Burner Primary Air Setting	1/2" (6mm) C	100% Open
Altitude	0 - 4500 ft (0 - 1372 m)	0 - 4500 ft (0 - 1372 m)
Fireplace Efficiency (FE) Rating	73.07%	
Gas Control	SIT 885 Proflame II Dynamic Start with Continuous POD	
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: 30" (76.2 cm) W x 20.180" (51.26 cm) H x 14.25" (36.2 cm) D Minimum Chimney Flue Size: 4" (10.0 cm) x 7" (17.6 cm) Minimum clearances to Combustibles: Sides from glass door frame: 8" (20.3 cm) Mantle: max 12" (30.5 cm) at min 19.5" (49.53 cm) from the top of appliance door 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, or Natural Gas and Propane Installation Codes, CSA B149.1. Electrical connections and grounding must be in accordance with local codes, if any; if none, follow the current CAN/CSA C22.1 in Canada and ANSI/NFPA 70 in the US. 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 # 31-BS. Follow installation instructions.**

Made in Canada by:  
 Archgard Industries Ltd.  
 7116 Beatty Dr., Mission, B.C.

October 2021 303-6031-09

MANUFACTURE DATE:


# Installation

## 5.0 Installation Checklist

This standard installation checklist is to be used by the installer in conjunction with, not instead of, the instructions contained within this installation manual.

<b>Customer:</b> _____	<b>Date Installed:</b> _____
<b>Install Address:</b> _____	<b>Location of Fireplace:</b> _____
	<b>Installer:</b> _____

<b>Solid Fuel Zero Clearance Install: (Section 9.1)</b>	<b>YES</b>	<b>NO</b>	<b>IF NO, WHY NOT?</b>
Was the bottom of the existing zero clearance removed?			
<b>Venting: (Section 13.0)</b>	<b>YES</b>	<b>NO</b>	<b>IF NO, WHY NOT?</b>
Venting configuration complies with vent diagrams.			
Venting installed, fastened, and secured in place maintaining proper clearances.			
Secured or removed existing solid fuel fireplace damper.			
Terminations installed and sealed in compliance with local building code.			
Direct vent termination is highest point in vent assembly.			
<b>Wiring / Electrical: (Section 7.0)</b>	<b>YES</b>	<b>NO</b>	<b>IF NO, WHY NOT?</b>
Connected to household 110/120v per local codes.			
Unit is properly grounded.			
<b>Gas: (Section 11.0)</b>	<b>YES</b>	<b>NO</b>	<b>IF NO, WHY NOT?</b>
Proper appliance for fuel type?			
Was a conversion performed?			
Leak check performed & inlet and manifold pressures verified?			
Was the rating of the insert clocked?			
<b>Finishing:</b>	<b>YES</b>	<b>NO</b>	<b>IF NO, WHY NOT?</b>
Only noncombustible material installed in noncombustible areas.			
Clearances meet installation manual requirements.			
Mantels and/or projections comply with install manual.			
Was the solid fuel fireplace warning plate installed ( <b>Figure 9.0.02</b> )?			
<b>Appliance Setup:</b>	<b>YES</b>	<b>NO</b>	<b>IF NO, WHY NOT?</b>
Burner media / log set, door, and screen installed according to install manual.			
Manual given to home owner.			
Did you check operation of fans and flame modulation?			
Does the main burner light within 4 seconds of main gas valve opening (see <b>Section 20.1</b> )?			
Door buckles operate freely?			

## 6.0 Appliance Overview

### 6.1 Rating Plate Location

The rating plate is located under the door on a rating plate. Slide the plate outward to view rating information and lighting instructions.

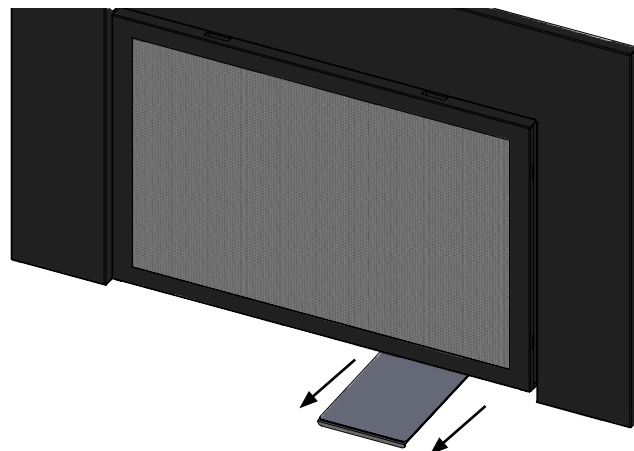


Figure 6.1.01:

### 6.2 Appliance Overview

Information in this manual applies to both the **31-DVIE33LN-3** (Traditional Log) and **31-DVIE33CN-3** (Contemporary) unless otherwise specified.

The Proflame II control board is located on the right side\* of the fireplace behind the surround.

The valve is located on the left side\* of the fireplace behind the surround.

The fan is located on the inside of the rear fireplace shell and can be accessed from the rear of the fireplace or from the front by removing the fireplace burner.

The valve and control board may be adjusted in a controls out or controls in configuration to accommodate most masonry fireplace openings. See **Section 8.0**.

\*Left and right side references in this manual correspond with the sides identified in **Figure 6.2.01**.



Figure 6.2.01:

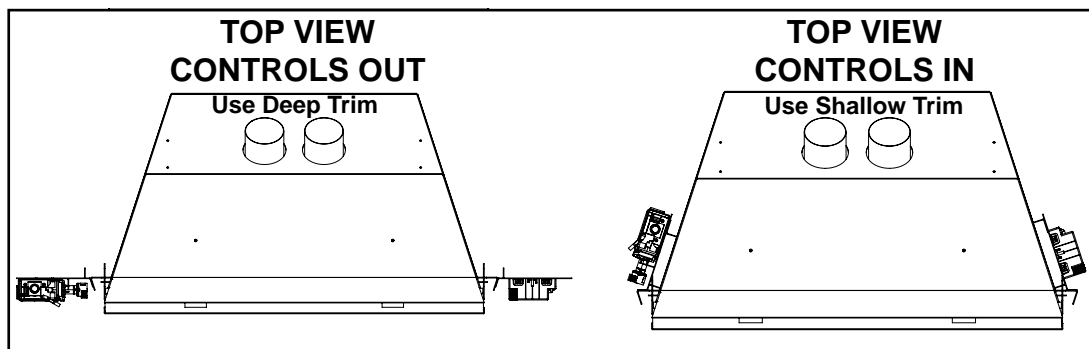


Figure 6.2.02:

## 6.3 Leveling the Appliance

The 31-DVIE33LN-3 or 31-DVIE33CN-3 is equipped with front and rear leveling bolts. The fireplace has the ability to independently level left/right and front/back.

Leveling is done from the bottom of the unit.

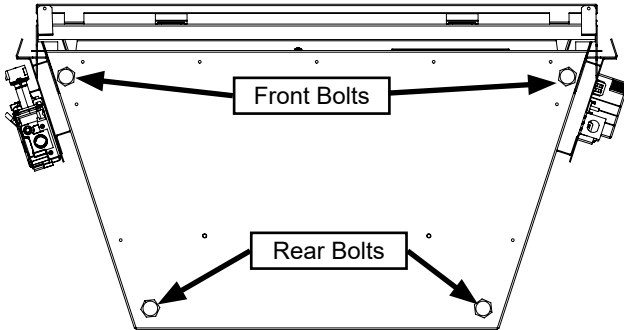


Figure 6.3.01:

## 7.0 Electrical Connections

Your fireplace comes complete with an adjustable 6 speed fan wired directly to the main control module.

Do not cut or remove the grounding prong from the main power supply plug.

**CAUTION:** Label all wires prior to disconnection when servicing.

**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.



## 8.0 Appliance Dimensions

The control panels can be mounted in different ways depending on installation requirements. They are shipped in the "Controls In" configuration. They can be moved to the "Controls Out" configuration by removing the two mounting screw on each side and swinging the panels out and replacing the screws. They can also be disconnected and placed remotely within the limits of the gas connections and electrical wiring making sure to place them away from any heat source over 150 degrees Fahrenheit or 65 degrees Celsius.

### 6.1 "Controls In" Dimensions

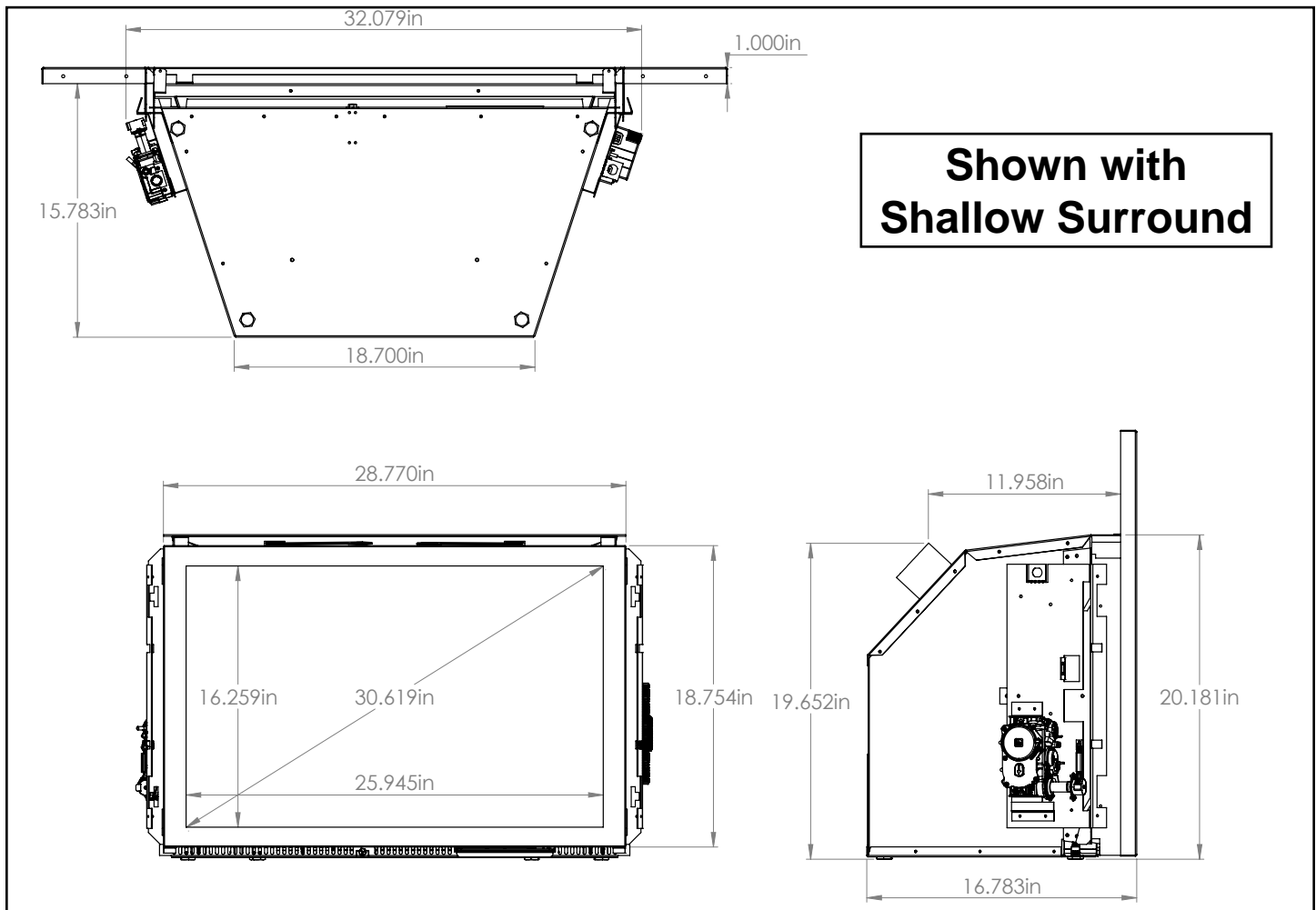


Figure 8.0.01:

Metric Equivalents										
	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm
FRONT	28.77	73.08	16.259	41.30	30.619	77.77	25.945	65.9	18.754	47.64
BOTTOM	32.055	81.42	15.783	40.09	18.7	47.5	1.0	2.54		
SIDE	11.958	30.37	19.652	49.92	20.181	51.26	16.783	42.63		

## 6.2 "Controls Out" Dimensions

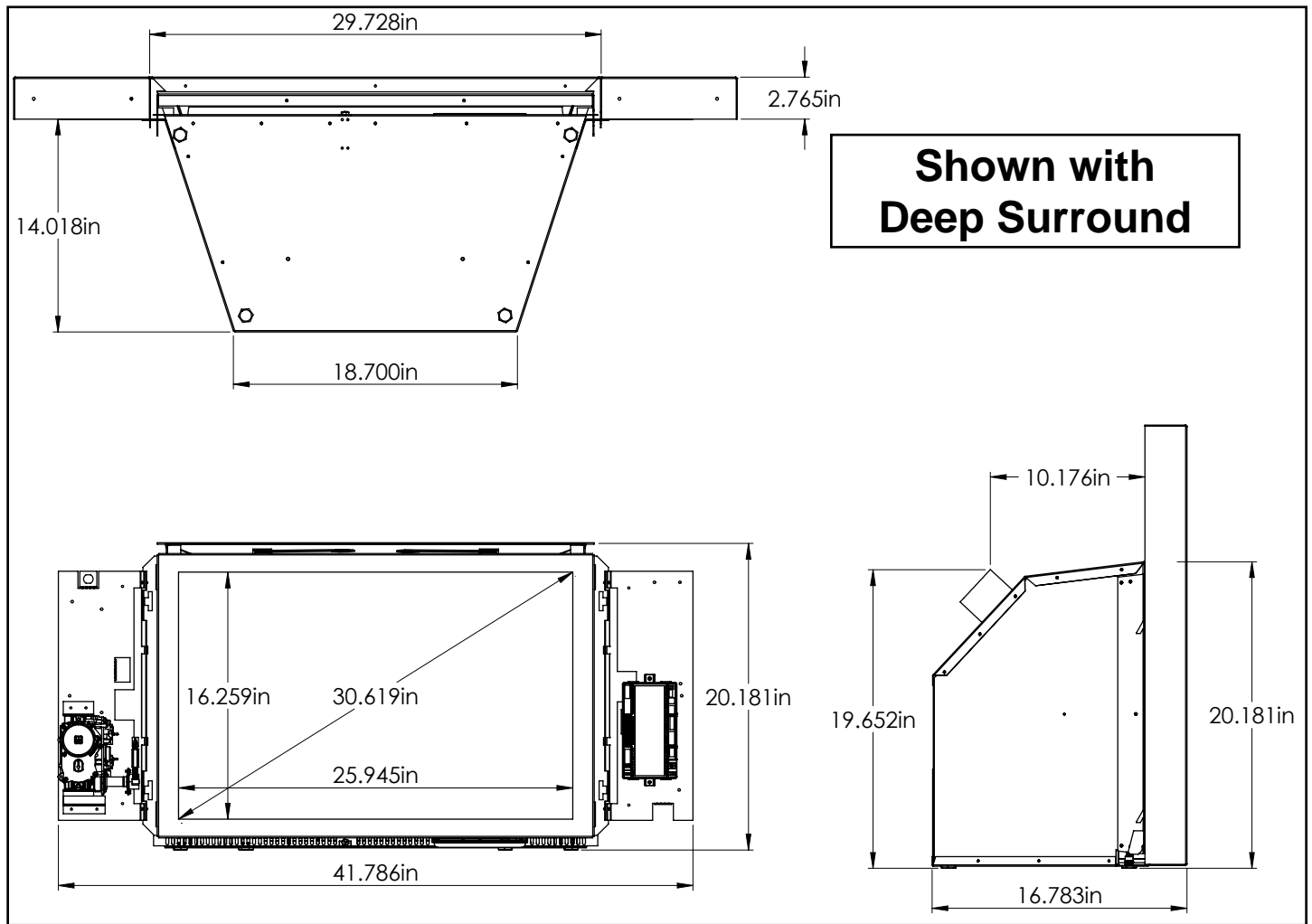


Figure 8.0.02:

Metric Equivalents										
	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm
FRONT	41.786	106.14	16.285	41.36	30.619	77.77	25.945	65.9	20.181	51.26
BOTTOM	29.728	75.51	14.018	35.61	18.7	47.5	2.765	7.02		
SIDE	10.176	25.85	19.652	49.92	20.180	51.26	16.783	42.63		

## 9.0 Minimum Opening Dimensions

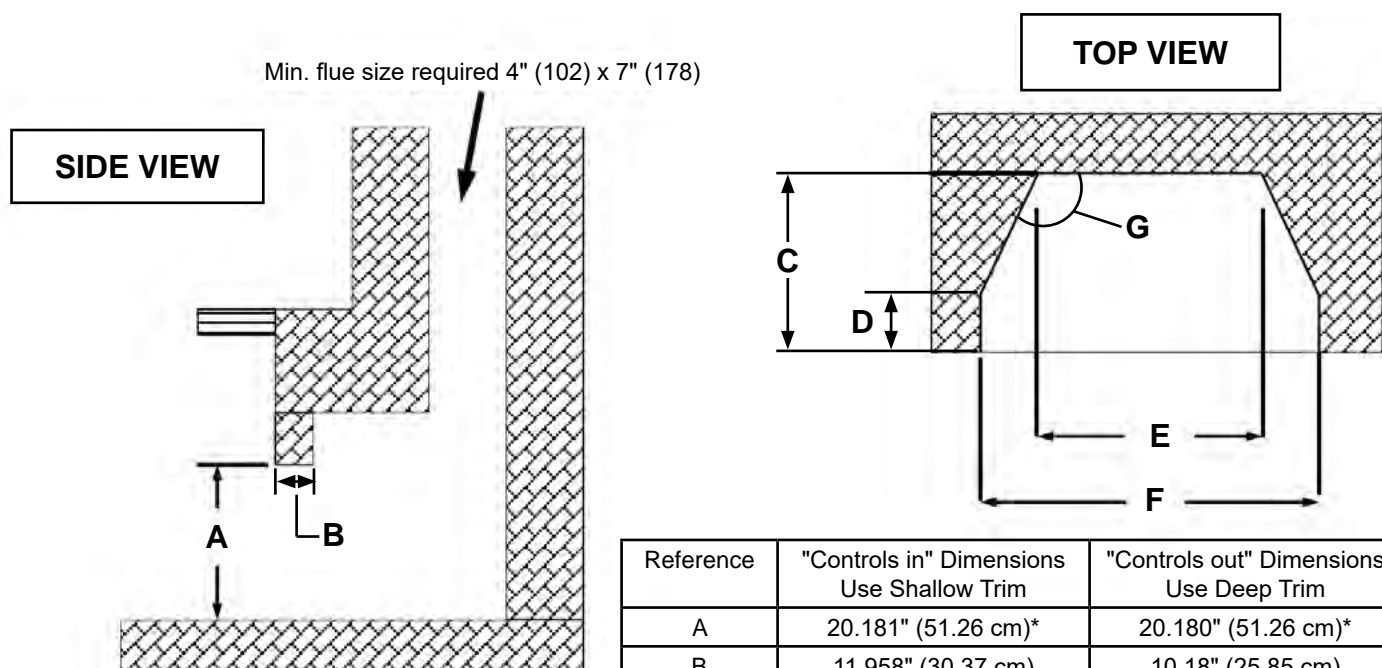


Figure 9.0.01:

Reference	"Controls in" Dimensions Use Shallow Trim	"Controls out" Dimensions Use Deep Trim
A	20.181" (51.26 cm)*	20.180" (51.26 cm)*
B	11.958" (30.37 cm)	10.18" (25.85 cm)
C	15.783" (40.09 cm)	14.25" (36.2 cm)
D	5" (12.7 cm)	0.5" (1.27 cm)
E	19.625" (49.85 cm)	18.75" (47.63 cm)
F	32.08" (81.5 cm)	30" (76.2 cm)
G	120.38°	112.21°

\*It is possible to remove 0.125" from the height of the fireplace by removing the (4) leveling bolts from the bottom of the appliance (see **Section 6.3**).

**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. See **Figure 9.0.02**.

**WARNING:**

This fireplace has been converted for use with a gas fireplace insert only and cannot be used for burning wood or solid fuels, unless all original parts have been replaced, and the fireplace reapproved by the authority having jurisdiction.

**AVERTISSEMENT:**

Ce foyer a ete converti pour utilisation avec un foyer au gaz encastrable et ne peut etre utiliser pour bruler du bois ou autres combustibles solides a moins que toutes les pieces d'origine ete remplacees et que le foyer ait ete approuve de nouveau par l'autorite competente.

303-0123

Figure 9.0.02:

Cutting of any sheet-metal parts of the fireplace, in which the gas fireplace insert is to be installed, is prohibited except as described in **Section 9.1**.

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 noncombustible materials. The chimney clean-outs must fit properly.

# Installation

## 9.1 Factory Built Fireplaces

The following information applies to **Factory Built (metal) Wood-Burning Fireplace** installations:

Trim panels must not seal ventilation openings in the fireplace. Any parts that are removed must be saved and reinstalled if the insert is ever removed. If the factory-built fireplace has no gas access hole(s) provided, an access hole of 1 1/2" (3.81 cm) 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 noncombustible insulation after the gas supply line has been installed.

The damper (A) and grate with logset (B) must be removed or fully blocked open.

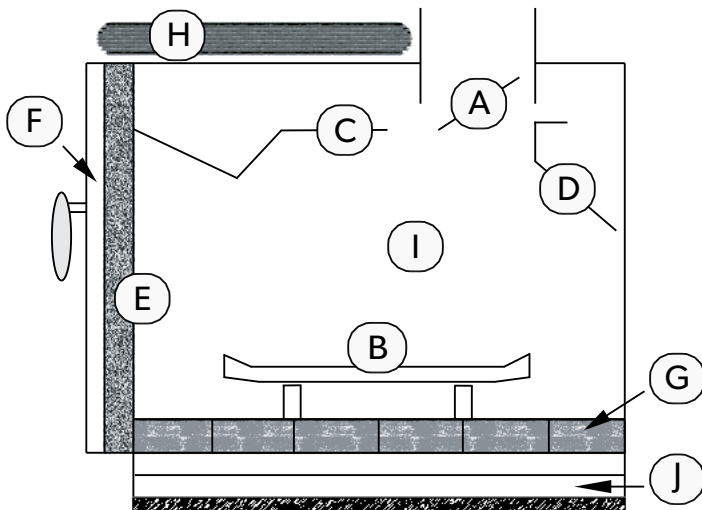
The smoke shelf (C), internal baffles (D), screen (E), masonry lining or refractory (G and I), and metal or glass doors (F) may be removed.

The fireplace must be permanently marked to indicate that it has been altered and is no longer suitable for burning any fuel unless the removed parts are reinstalled (See **Figure 9.0.02**). Cutting out of any metal parts is prohibited, except the metal floor (J) as specified.

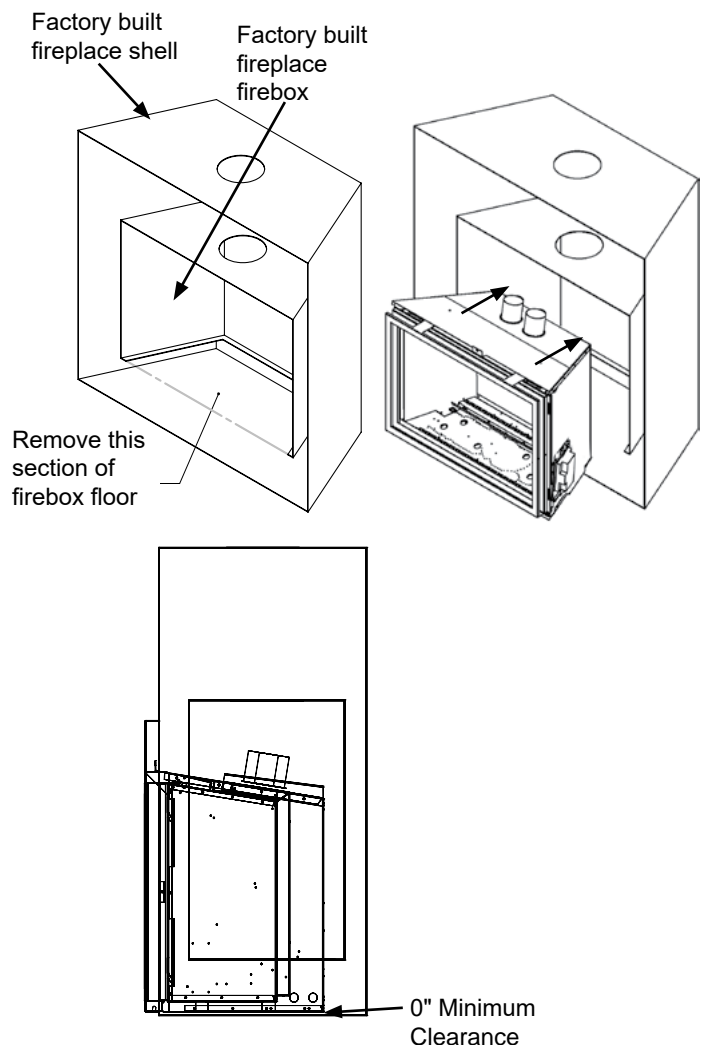
The insulation (H), and any structured rigid frame member must not be removed or altered (side and top of door frame, side and top of the face of fireplace, metal sides, etc.).

**The metal floor of the firebox may be removed only if the following is strictly adhered to.**

The metal floor (J) may be removed to allow additional room for installation of the insert as long as it does not compromise the structural integrity of the existing fireplace (See **Figure 9.1.02**).



**Figure 9.1.01:** Side view of Factory Built (metal) Wood Burning Fireplace.



**Figure 9.1.02:** Removing the Metal Floor

## 9.2 Refacing a Masonry Fireplace

### Using Steel Studs and Cement Board on Wood Fireplaces

Brick or rock facing may be removed and replaced with noncombustible material such as steel studs and cement board.

**WARNING:** Only facing material may be removed. All other masonry material must not be cut out, chipped away, or removed.

**WARNING:** Louvers or any air circulation around existing solid fuel fireplace must not be blocked or covered.

The area between the masonry and the cement board must be sealed so that no heat can enter the open space between the masonry of the wood fireplace and the refacing material. **The insert must be moved outward so that the face of the fireplace is flush with the finishing material.**

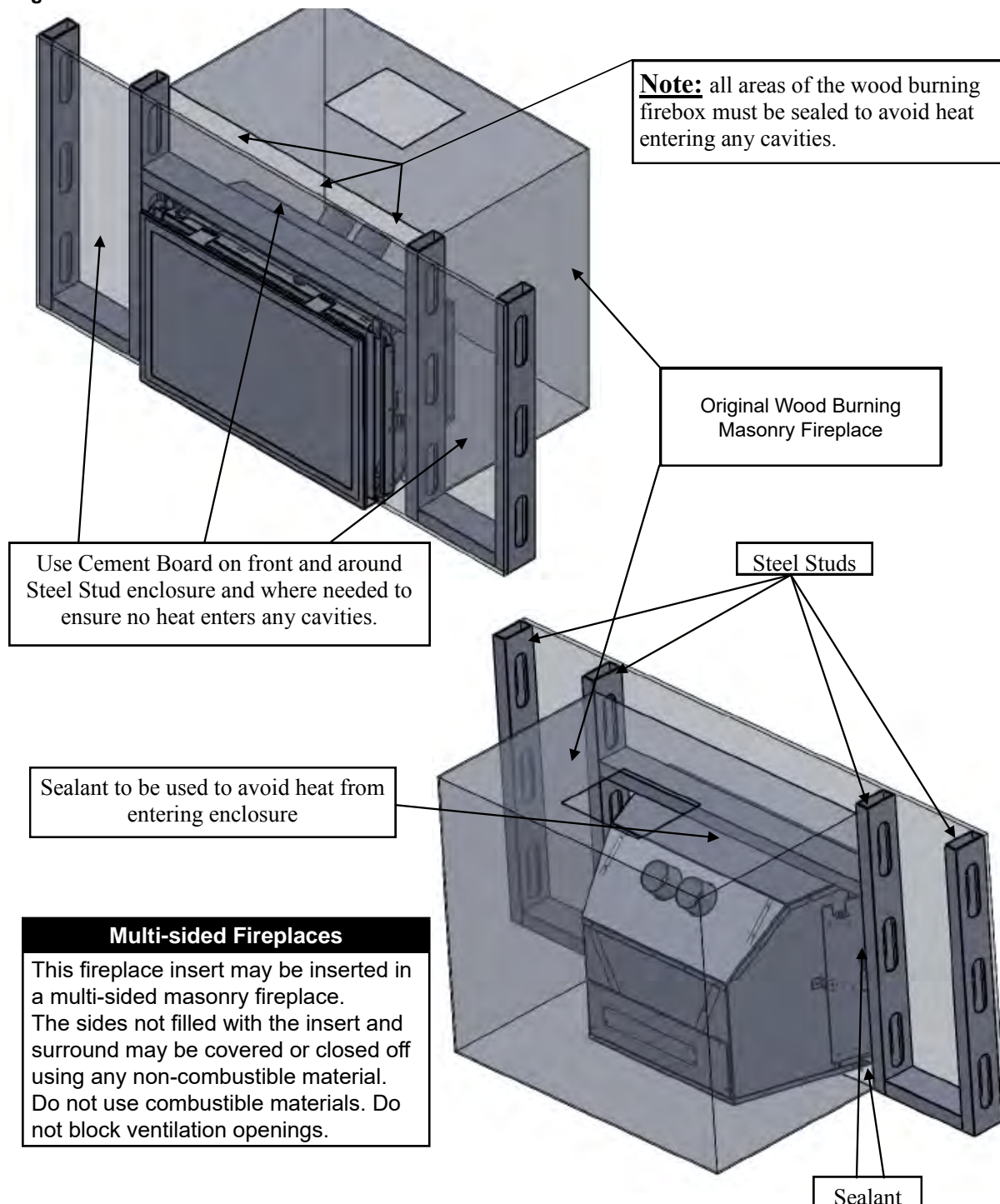


Figure 9.2.01:



## 10.0 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 factory built gas fireplace (zero clearance fireplace).

### 10.1 Mantel Clearances

Mantel clearances are measured from the top of the appliance door. Ensure combustible material is not placed within the area shown.

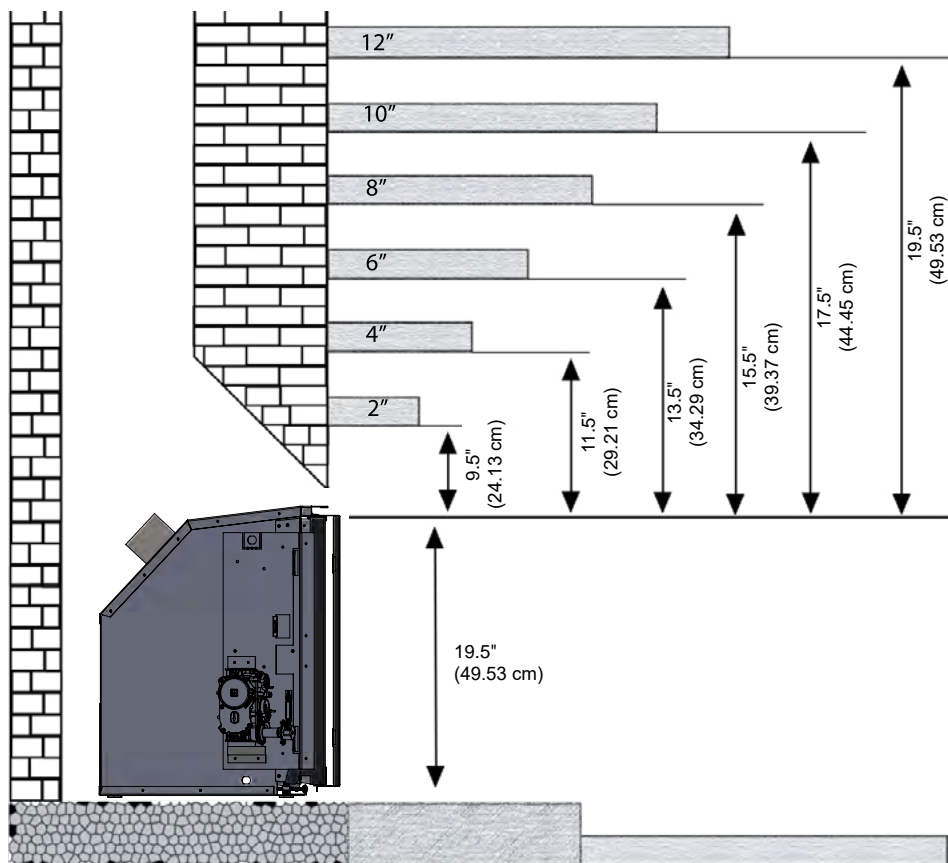


Figure 10.1.01

### 10.2 Sidewall Clearances

Maintain a minimum of 8" (20.4 cm) clearance from the side of the door to sidewalls or mantel supports.

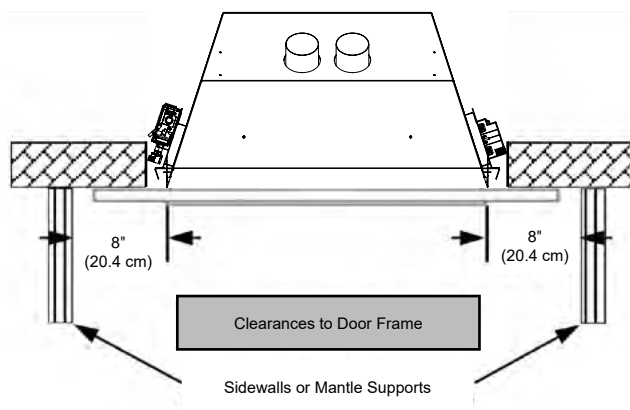


Figure 10.2.01

## 10.3 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.

Any hearth that extends outward in front of the insert must not have any combustible material closer than 7" (17.8 cm) 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 7" (17.8 cm) to the bottom or 16" (40.6 cm) from the front of the door of the gas fireplace insert can be combustible.

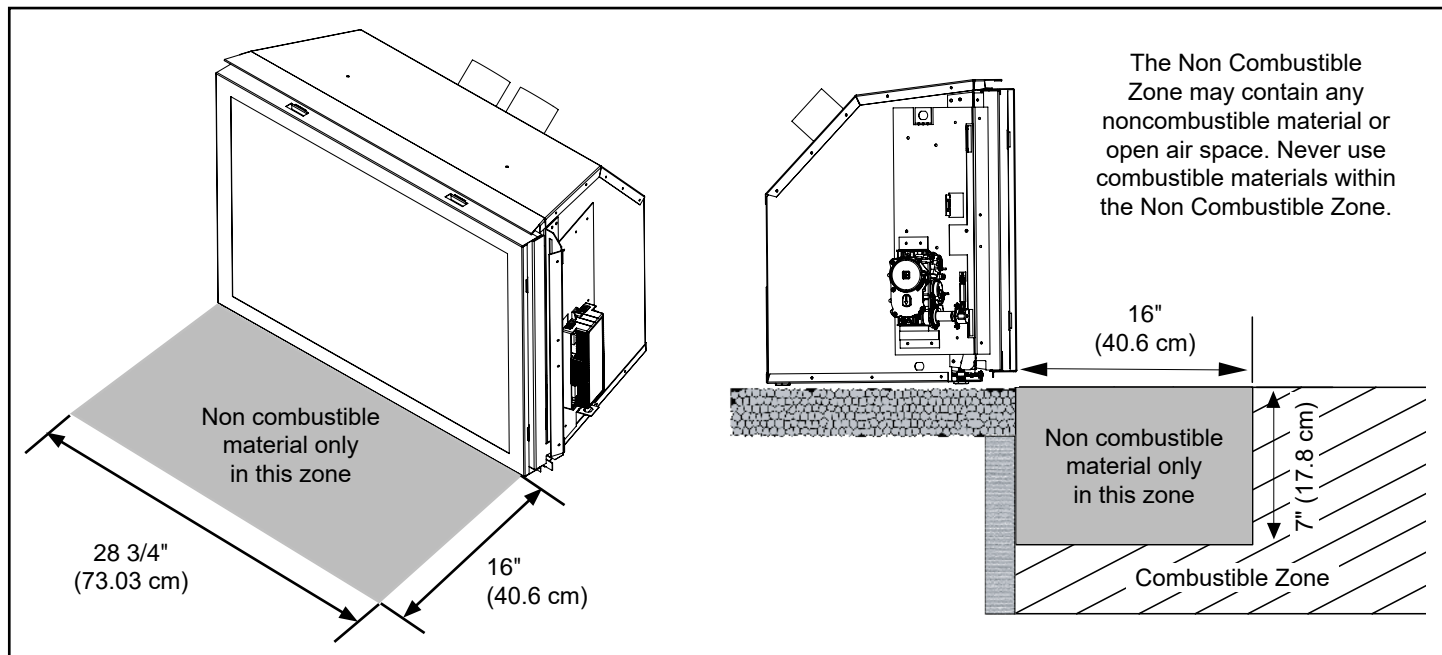


Figure 10.3.01

### NOTE

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

## 11.0 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 rating plate (See **Section 6.1**) 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 solid fuel 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. 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 shut-off 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 shut-off 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 #33 DMS (2.87) drill size.

ELEVATION	INPUT RATING
0-4500 ft (0-1372 M)	33,000 BTU/hr (9.6 kW)
4500 ft (1372 M) and above.	33,000 BTU/hr (9.6 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 11.0" W.C. (2.8 kPa) and a maximum of 14.0" W.C. (3.5 kPa). The orifice is a #51 DMS (1.70 mm) drill size.

ELEVATION	INPUT RATING
0-4500 ft. (0-1372 M)	31,000 BTU/hr (9.02 kW)
4500 ft. (1372 M) and above.	31,000 BTU/hr (9.02 kW) less 4% per 1000 ft. (305 M)

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

## 11.1 Clocking Procedure

**IMPORTANT:** THE INPUT RATING SHOULD ALWAYS BE CHECKED WHEN FIRST FIRING THIS APPLIANCE.

Before you begin, shut off all other gas appliances including any standing pilots. Light the fireplace and wait 15 minutes. Clock the time to burn 1ft<sup>3</sup> of gas on the meter. 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). **Note:** This assumes a dry gas meter at 1/2 psi. If using a 2 psi dry gas meter the unit will rate lower as the calculation has to correct for the higher pressure in the meter. If the unit is over-rated, contact your authorized Archgard dealer. The following calculation equation gives a rough estimation as it does not correct for temperature and pressure.

### Rough Calculation Equation:

$$\frac{3600}{\text{time to burn 1ft}^3 \text{ gas in seconds}} \times \frac{\text{gas caloric value in BTU/ft}^3}{\text{Rating in } \frac{\text{BTU}}{\text{hr}}}$$

## 12.0 Conversion Kit Instructions

**IMPORTANT:** This fireplace is Natural gas ready. If converting to LP gas, follow instructions below.

**WARNING:** This conversion kit shall be installed by a qualified service agency in accordance with the manufacturers instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or productions of carbon monoxide may result, causing property damage, personal injury or loss of life. The qualified service agency is responsible for proper installation of this kit. The installation is not proper and complete until operation of the converted appliance is checked as specified in the instructions supplied with the kit. Refer to appliance owner's manual or product data plate for proper inlet and manifold pressure adjustments and orifice sizing.

**IMPORTANT:** For high altitude installations above 4500 ft (1372 meters), consult local gas distributor or the authority having jurisdiction for proper derating methods.

KIT NUMBERS: 31-CKELP for LP gas and 31-CKENG for Natural Gas

KIT INCLUDES:

- Gas conversion label (303-0128)
- Burner orifice (301-0068-51, #51 DMS for LPG) (301-0068-33, #33 DMS for NG)
- Instruction Sheet
- SIT 885 Valve conversion kit c/w instructions & gas type label

**WARNING: SHUT OFF GAS SUPPLY AND ELECTRICAL POWER TO FIREPLACE  
SHUT OFF GAS SUPPLY BEFORE DISCONNECTING ELECTRICAL POWER**

### 12.1 Prepare the Fireplace

Remove the surround, barrier screen, glass frame assembly, logs or glass media, embers and brick panels or firebox liner (if applicable)\*.

Remove the burner\*.

\*See relevant sections in this manual.

Remove the burner orifice using a 1/2" wrench. Replace with the orifice supplied with the conversion kit. Use a small amount of pipe sealant on the threads of the orifice mount. Do not use too much as it can block the orifice.



Figure 12.1.01:

### 12.2 Pilot Conversion

Using a 7/16" wrench and loosen the pilot hood 1/4 turn. Slide the tab at the bottom of the orifice hood all the way so the red side (propane) with the hole in it is showing. Tighten the pilot hood back up so that it is lined up with the two probes on both sides of the pilot assembly.

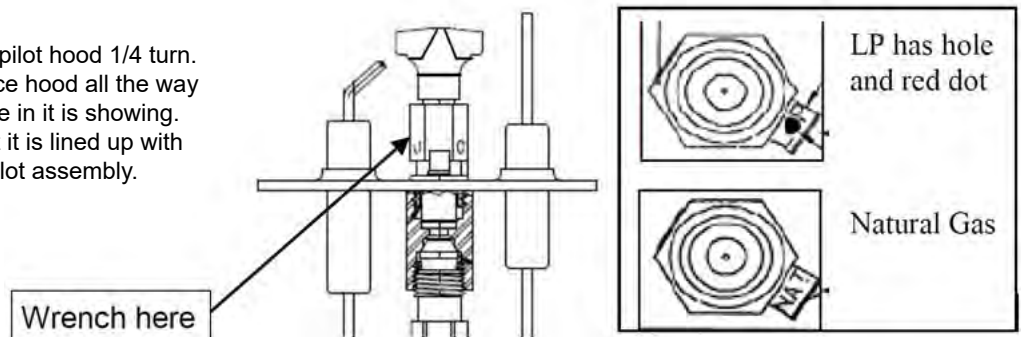


Figure 12.2.01:

## 12.3 Convert the Gas Valve

**WARNING:** Installation of this conversion kit must only be undertaken by a qualified and certified gas appliance installer.

Verify that the following items are present in the package:

- Pressure regulator assembly (E)
- Two (2) screws (F)
- Identification label (G)
- Installation instructions (this document)

1. Shut off the gas supply to the valve and shut down the electric supply.
2. See **Figure 12.3.01**. Using a Torx T20, or slotted screwdriver, remove and discard the two (2) pressure regulator mounting screws (A), pressure regulator tower (B), and the spring and diaphragm assembly (C), (If applicable).
3. Ensure the rubber gasket (D), which is prefitted as part of assembly (E), is properly positioned, see **Figure 12.3.02**, otherwise fit the gasket as shown **Figure 12.3.02**.
4. Install the new STEPPER MOTOR pressure regulator assembly, as shown in **Figure 12.3.03** and **Figure 12.3.04**. Use the supplied screws (F), M4 x 0.7 threaded, length of thread  $L = (16 \text{ mm} + 0 - 0.5 \text{ mm})$ , steel material, resistance class 8.8 (see **Figure 12.3.05**).
5. Manually thread the two conversion kit mounting screws into the valve body. Use a standard screwdriver or T20 Torx bit and tighten to the screws with a fixing torque of  $25 \text{ lb-in} \pm 5\%$ .  
**IN THE EVENT THAT THE THREADS OF THE VALVE ARE STRIPPED OR DAMAGED, REPLACE THE VALVE.**
6. Install the enclosed identification label (G) to the valve body where it can be easily seen.
7. Make STEPPER MOTOR and valve electrical connections, apply gas to system and relight appliance according to manufacturers instructions.
8. With the main burner "ON", test the new pressure regulator assembly for leaks using a soap solution.
9. Relight the main burner and verify proper burner ignition and operation.

**WARNING:** Installation should be carried out in a clean environment.

**WARNING:** This modulating conversion kit must **ONLY** be applied as part of a conversion kit supplied by the **APPLIANCE MANUFACTURER**.

**WARNING:** Correct operation of the system cannot be guaranteed if the conversion kit or valve has been dropped or has sustained a strong impact.

**INSTALLER NOTICE:** These instructions must be left with appliance.

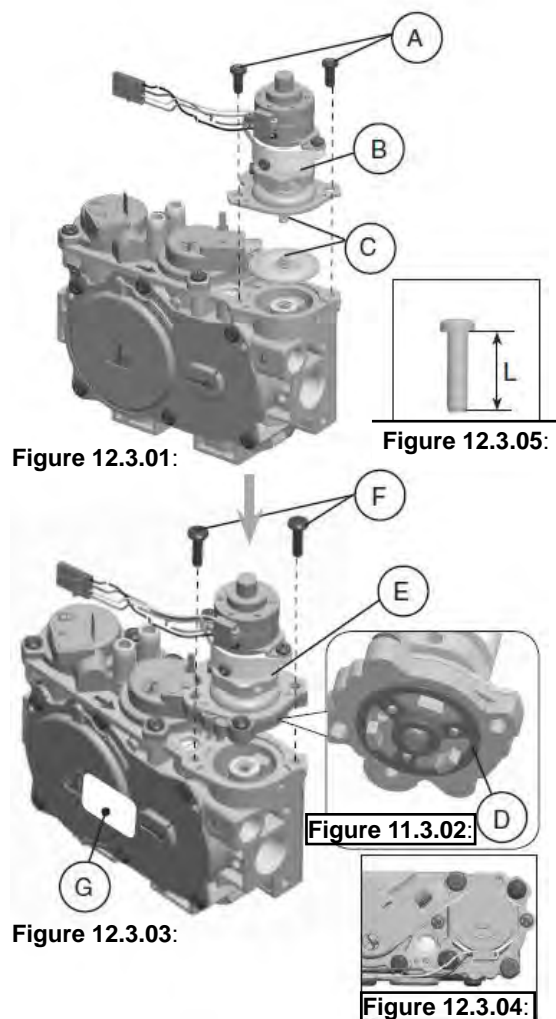
## 12.4 Complete the Conversion

- Reinstall the burner, brick liners or firebox liner, logs or glass media, embers, and door\*
- Turn on the gas and electrical supplies
- Turn on the fireplace so the burner is on
- Check for leaks at all connections

Test inlet and outlet pressure (See **Section 20.3**). Visually check pilot flame. Flame should envelope top of the flame sensor and extend forward onto the burner. To adjust pilot turn the pilot adjustment screw on the control valve clockwise to decrease or counter clockwise to increase pilot flame. Clock the rating as shown in **Section 11.1**. Adjust the primary air according to specifications in this manual or as found on the rating plate.

- Turn fireplace off
- Affix gas type label to the rating plate label (See **Section 6.1** for rating plate location)
- Complete the conversion label and affix to valve assembly plate
- Reinstall the barrier screen and surround\*

\*See relevant sections in this manual.





## 13.0 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 approved 3" (7.6 cm) double wall aluminum or stainless flex liners and approved vent terminals are to be used for this appliance.

This appliance is designed for dual 3" (7.6 cm) double wall aluminum flex liner. The liner must run the entire length of the chimney from the appliance to the termination.

The flue length must be a minimum of 10' (3.05 M) and a maximum of 40' (12.2 M) from the top of the gas fireplace insert.

**The exhaust vent restrictor provided with this appliance must only be used by installing it onto the front of the baffle when the vent height is over 18' (5.5 M) if required.**

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" (7.6 cm) inside bend radius.

### 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.

### Sealing the Vent

Secure the flexible liner at the top of the fireplace and at the termination. **DO NOT** use silicone as this will void the flame sensor warranty. Use mil-pac or other non-silicone sealant and gear clamps included with this fireplace.

The Air Intake Flex Liner must form a tight connection to the inlet air collars of the termination cap and the appliance.

The Exhaust Flex Liner must form a tight connection to the exhaust collars of the termination cap and the appliance.

**The Air intake and Exhaust connections are marked on the gas appliance. See Figure 13.0.01.**

**DO NOT REVERSE THESE CONNECTIONS**

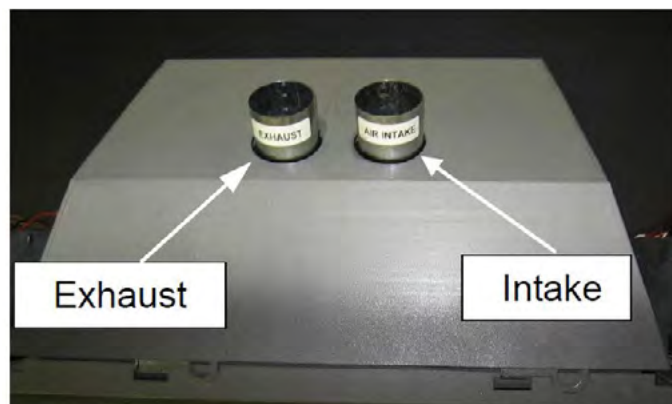


Figure 13.0.01: Intake & Exhaust as viewed from top of fireplace.

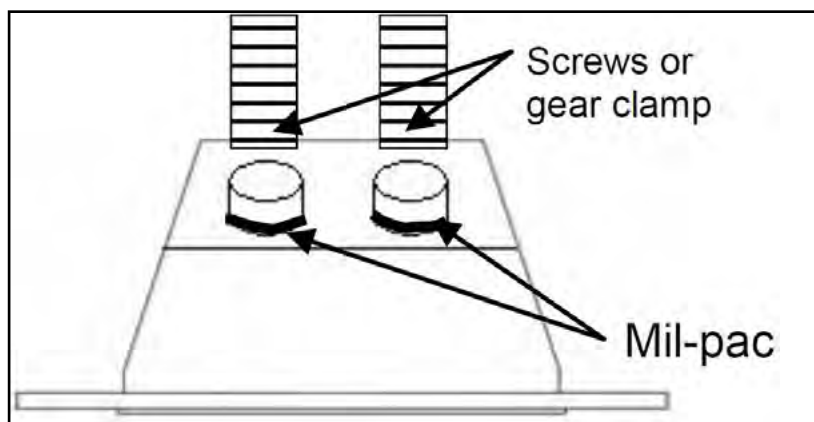


Figure 13.0.02:

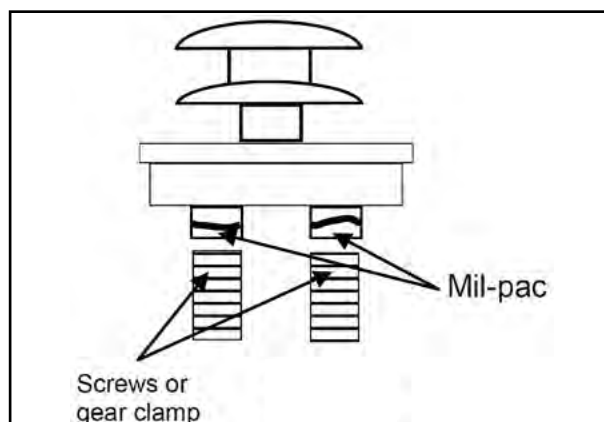


Figure 13.0.03:

# Installation

## Vent Restrictor Installation

When the vent is over 18'(5.5m) a vent restrictor may be required. The installation of the restrictor will equalize the vent stack action that can cause problems with a proper fire set-up.

The vent restrictor is supplied loose in the manual bag. When required, it installs onto the upper baffle in the center portion. The baffle air openings are located in the top of the firebox just inside the front frame of the fireplace. There are holes already in the standoffs that will line up with the holes in the restrictor.

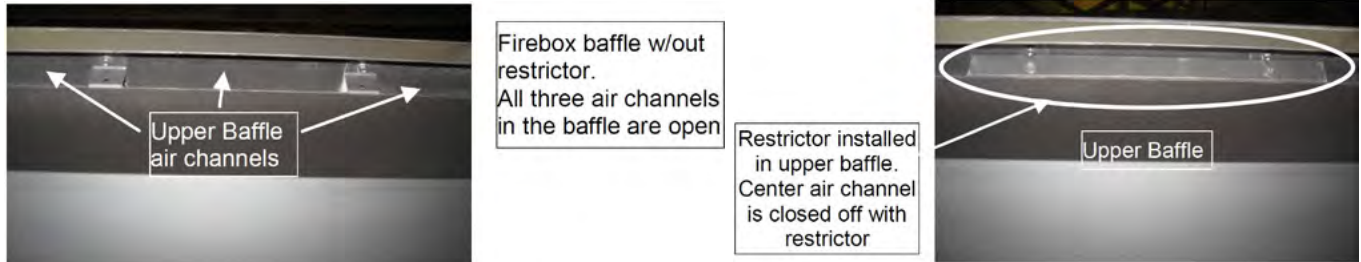


Figure 13.0.02:

## 13.1 Approved Terminations

Archgard Venting Components	
Vent Component	Part Number
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.	

# Installation

Third Party Venting Components					
	BDM	Selkirk	Duravent	ICC	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.

# Installation

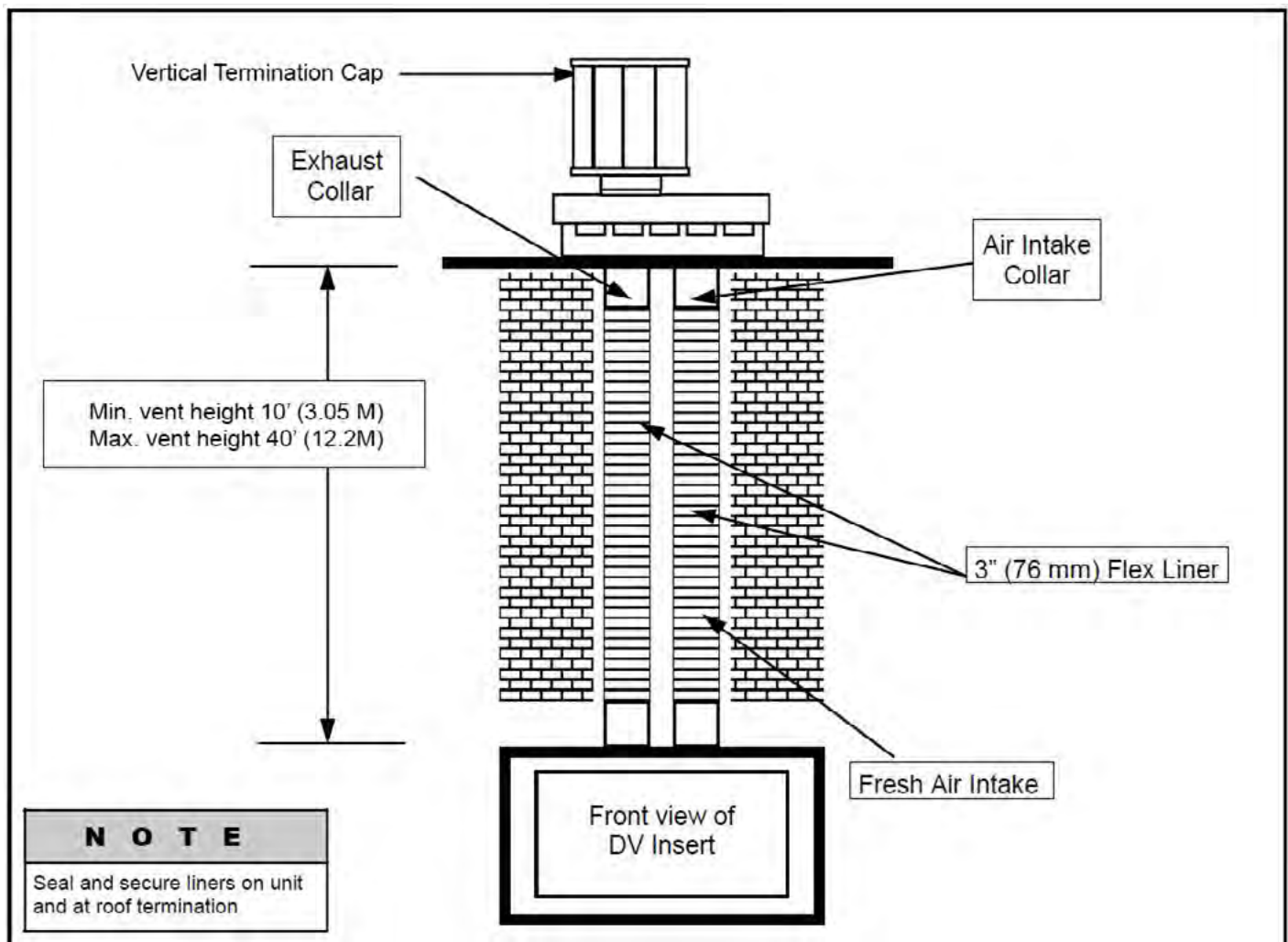
## 13.2 Min/Max Vent Run

Instructions for installing venting and terminations (see list for approved venting and terminations).

Install the termination cap being 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" as per terminal manufacturers instruction. **DO NOT USE SILICONE.**
6. Seal and attach the flex liner marked "Exhaust" to the vent terminal pipe marked "Exhaust" as per terminal manufacturers instruction. **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 unit. **DO NOT USE SILICONE.**
8. 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 unit. **DO NOT USE SILICONE.**
9. Caulk all joints using a high temperature sealant such as milpac. **DO NOT USE SILICONE. Use of silicone sealants voids the warranty of the pilot assembly.**

**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" (7.6 cm) is 4" x 7" (10.0 cm x 17.8 cm).

Figure 13.2.01:

## 13.3 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 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.

- 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 fireplace insert
- A 1" clearance must be maintained from the coaxial pipe to insulation and combustible material
- The termination must be 18" from the roof to the bottom of the termination

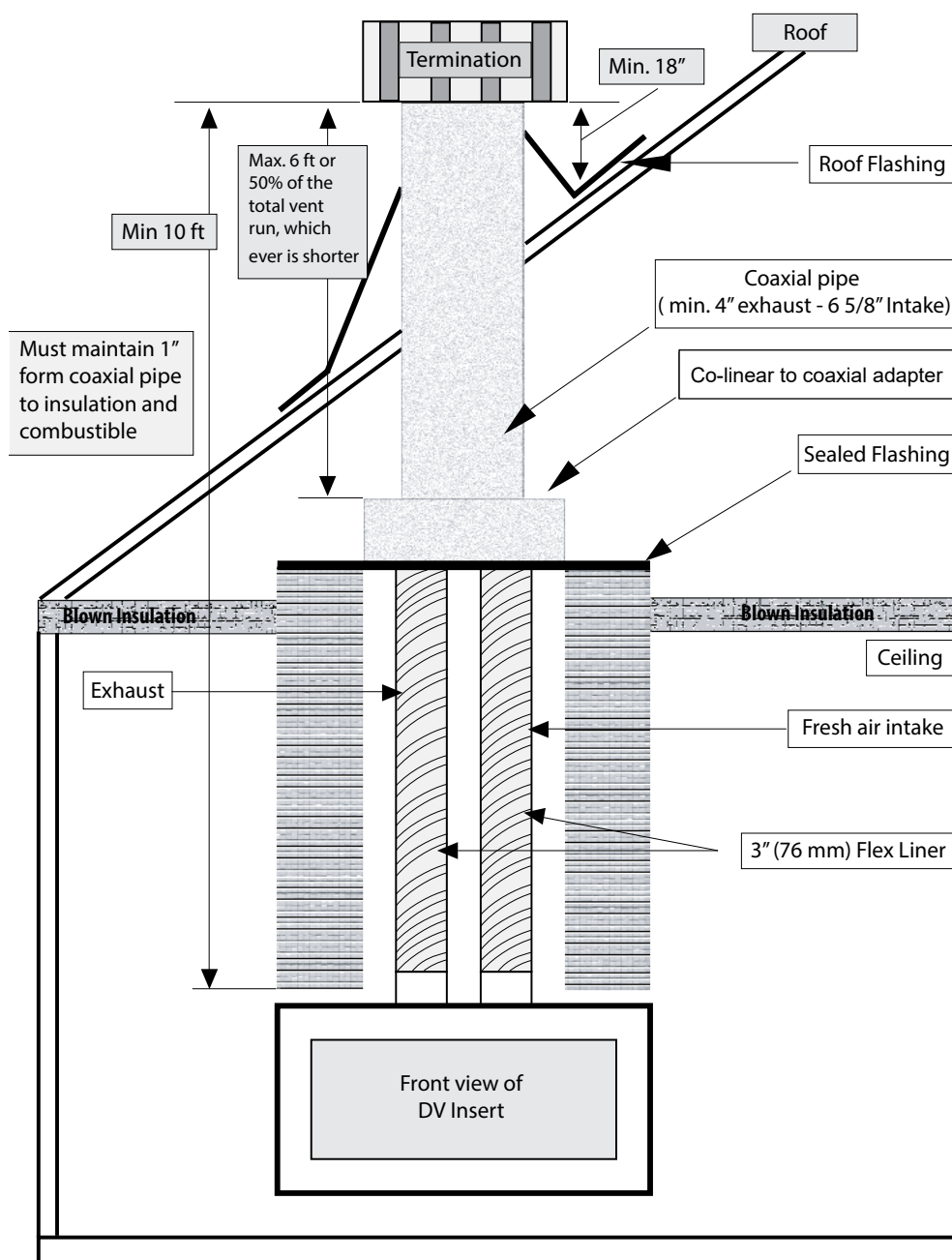


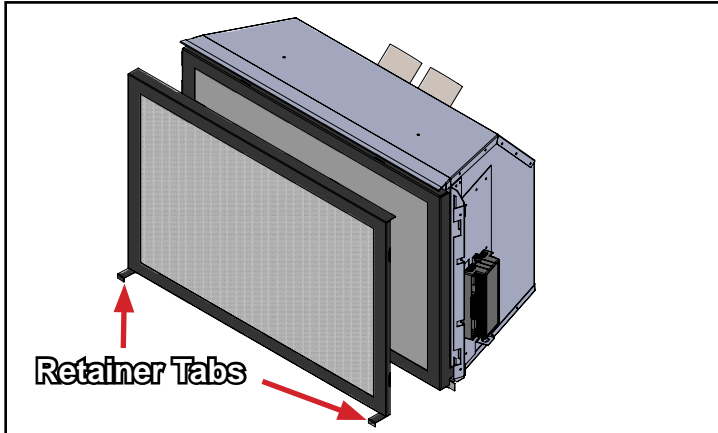
Figure 13.2.01:



## 14.0 Barrier Screen Installation

If barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance (Part Number: 31-BS-1).

Identify the top and bottom of the screen. Ensure the screen retainer tabs are aligned along the bottom of the screen.



**WARNING**  
**DOOR MUST BE INSTALLED**  
**PRIOR TO SCREEN TO AVOID**  
**POSSIBLE DAMAGE OR INJURY**

Figure 14.1.01:

Insert the hooks in the bottom of the screen between the door frame and glass. At the same time, insert the hooks in the top of the screen into the holes at the top of the door frame.

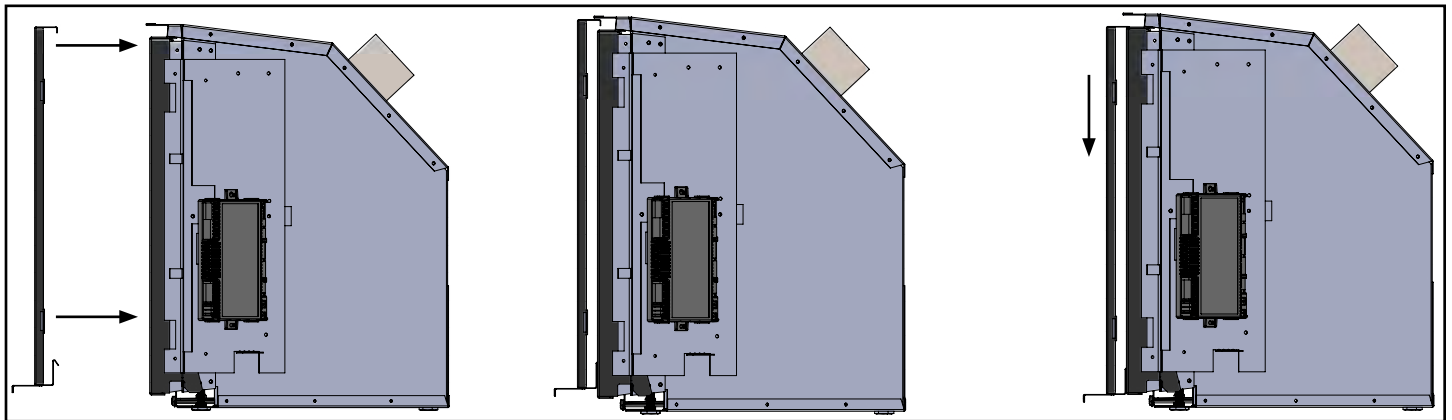


Figure 14.1.02:

Rotate the retainer tabs under the door frame to secure the screen in place.

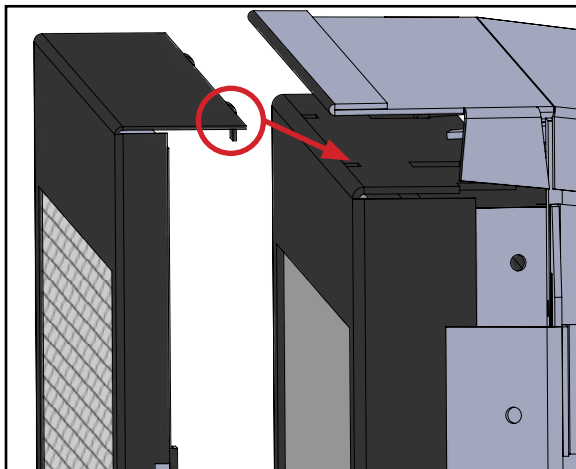


Figure 14.1.03: Detail view of mounting location

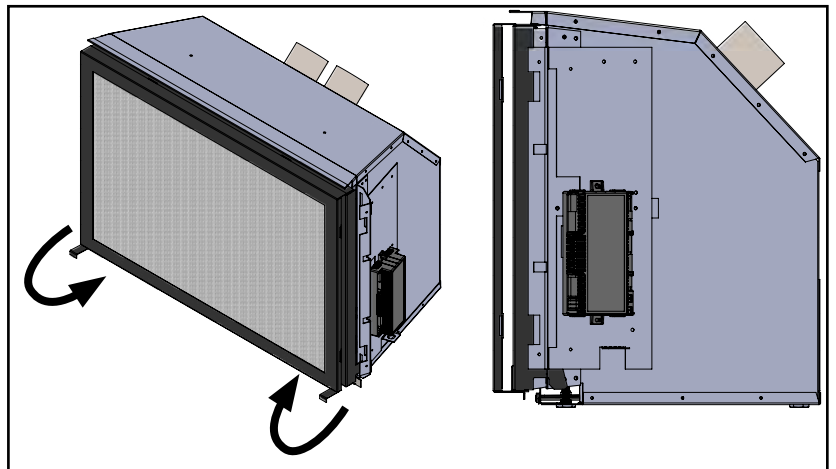


Figure 14.1.04:

## 15.0 Glass Door Installation

**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. Do not attempt to remove the glass door when the appliance is hot. Be sure there are no fingerprints left on the glass panels during install or when cleaning as high temperatures can bake these prints on permanently. Inspect the door gasket to ensure no damage has occurred when installing the door.

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

1. Hook the door frame in the lower left and right corner of the fireplace opening and rotate the top of the door inward (see **Figure 15.1.01**).
2. Hold the door in place. Pull and lift the door latches. Hook them into the door frame to secure it in place (see **Figure 15.1.02**).
3. Rotate the door latches inward.

Removal is the reverse of installation.

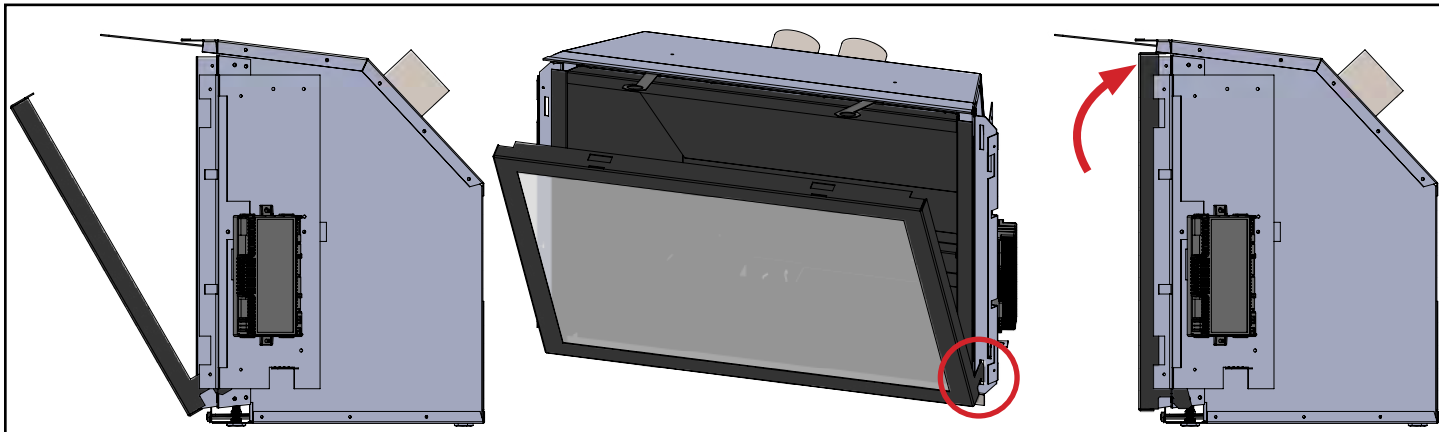


Figure 15.1.01:

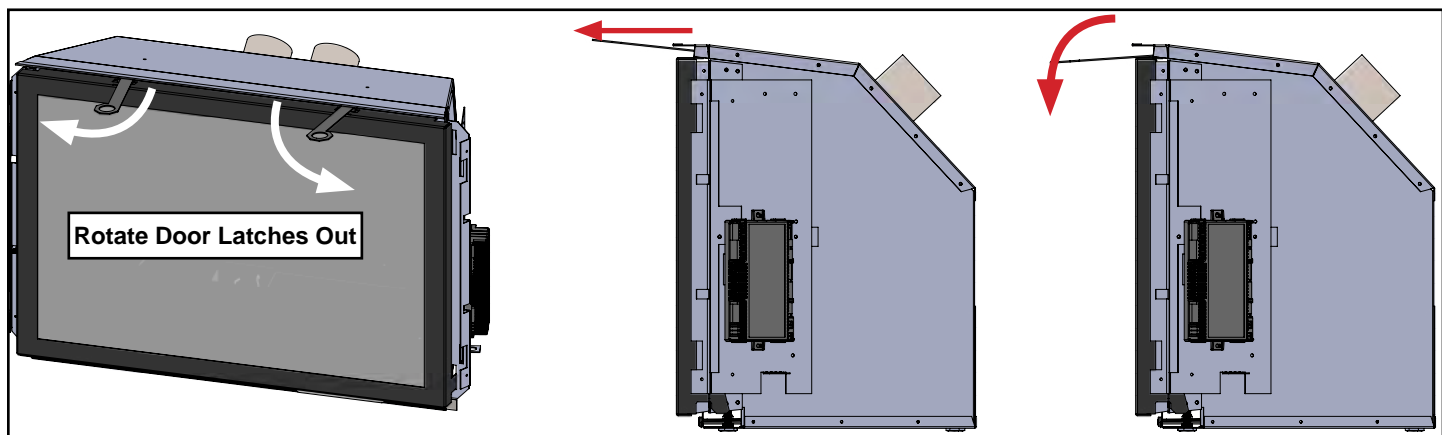


Figure 15.1.02:

### 15.1 If Your Glass Breaks

In the event your glass cracks or breaks, replace the original door assembly with Archgard replacement door assembly (part number 831-0001).

- Remove the barrier screen (See **Section 14.0**)
- Remove door as per the instructions above
- Replace with new door assembly and barrier screen

**NOTE:** the NEW door will emit some odor when the appliance is lit. The odor will dissipate after the gasket material within the door has cured. Be sure there are no fingerprints left on the glass panels as high temperatures can bake these prints on permanently.

**Warning:** Only doors certified with the appliance shall be used. Do not use substitute glazing materials.

## 16.0 Surround Installation

Surround options available depend on the control panel configuration (see **Section 6.2**). Shallow surround options are not available for a installations using the 'Controls Out' configuration.

Ensure the gas and electrical lines are properly connected to the appliance. Slide the unit into the fireplace and slide the excess venting material back into the chimney. Before the appliance is fully recessed into the fireplace, attach the surround onto the appliance.

Attach the surround to the appliance at the locations shown by aligning the tabs on the surround with the slots on the fireplace. Make sure the surround drops down and fully engages.

After placing the fireplace in the opening, slide the bottom filler plate under the lower edges of the surround (see **Figure 16.0.04**).

Care must be taken that Trim Panels or Surrounds shall not seal ventilation openings in the fireplace.

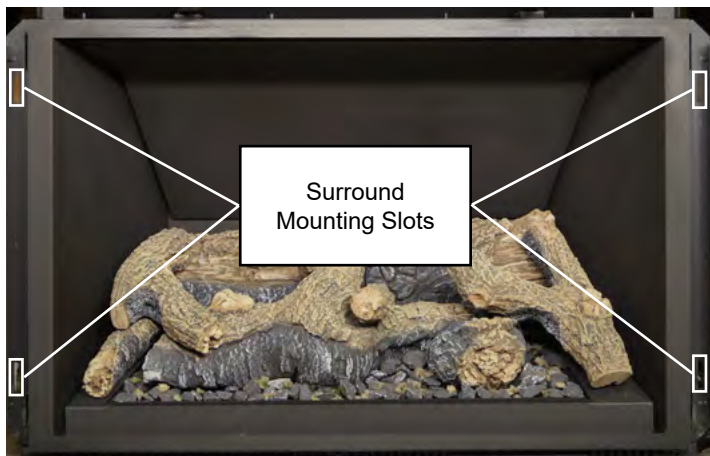


Figure 16.0.01:

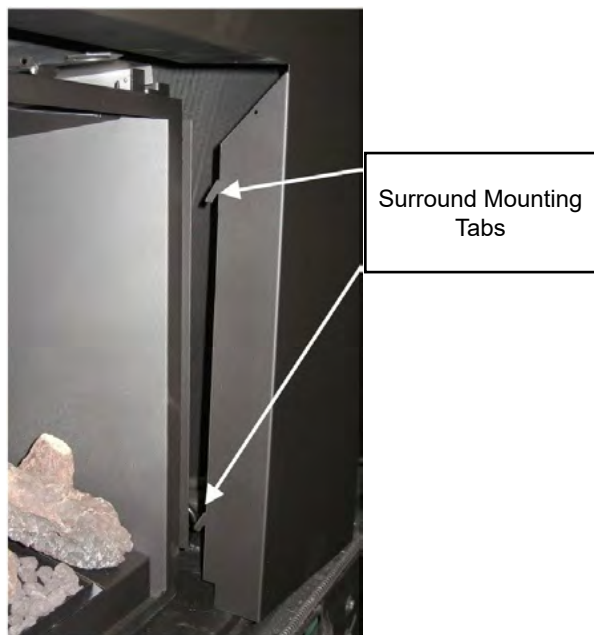


Figure 16.0.02:



Figure 16.0.03:

**Note:** If installing a four-sided surround or plinth, turn the screen locking tabs outward before installing the surround. See **Section 14.0**.

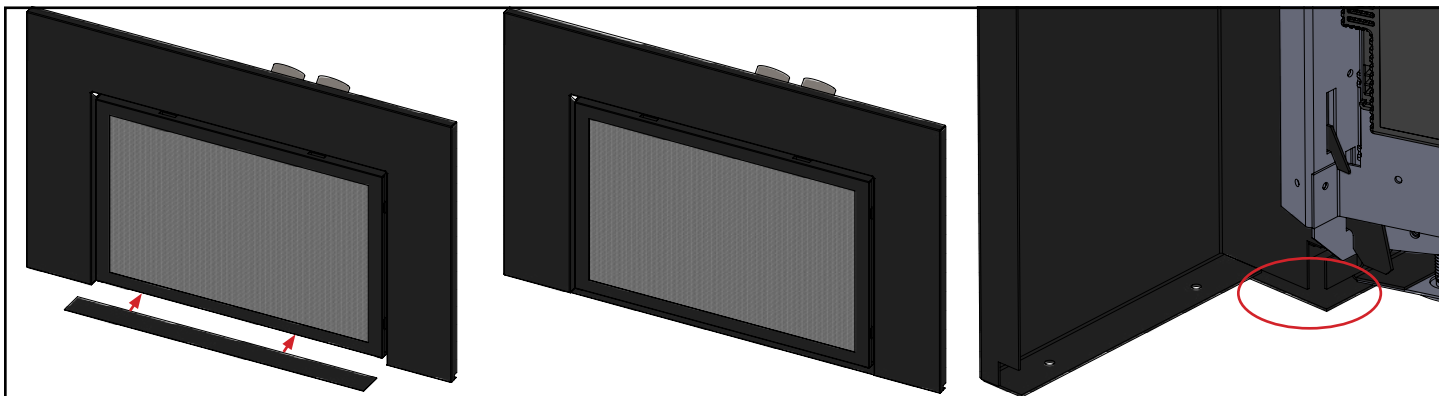


Figure 16.0.04:

## 16.1 Surround Dimensions

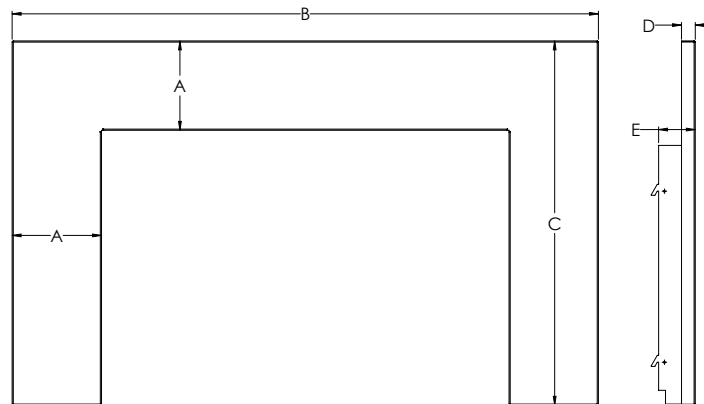


Figure 16.1.01:

Three Sided Surrounds				
	31-SKSBS-3 Small Shallow	31-SKSBD-3 Small Deep	31-SKLBS-3 Large Shallow	31-SKLBD-3 Large Deep
A	6½" [16.51 cm]		9" [22.86 cm]	
B	42⅝" [108.29 cm]		47⅝" [120.99 cm]	
C	26⅞" [67.51 cm]		29¼" [73.86 cm]	
D	1" [2.54 cm]	2¾" [7.02 cm]	1" [2.54 cm]	2¾" [7.02 cm]
E	2⅜" [7.11 cm]			

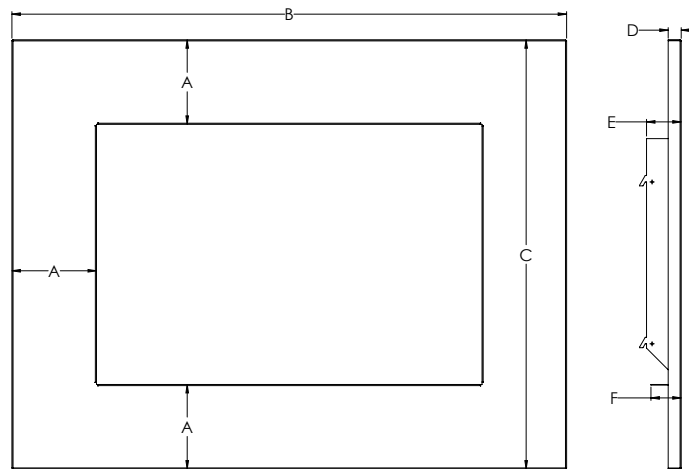
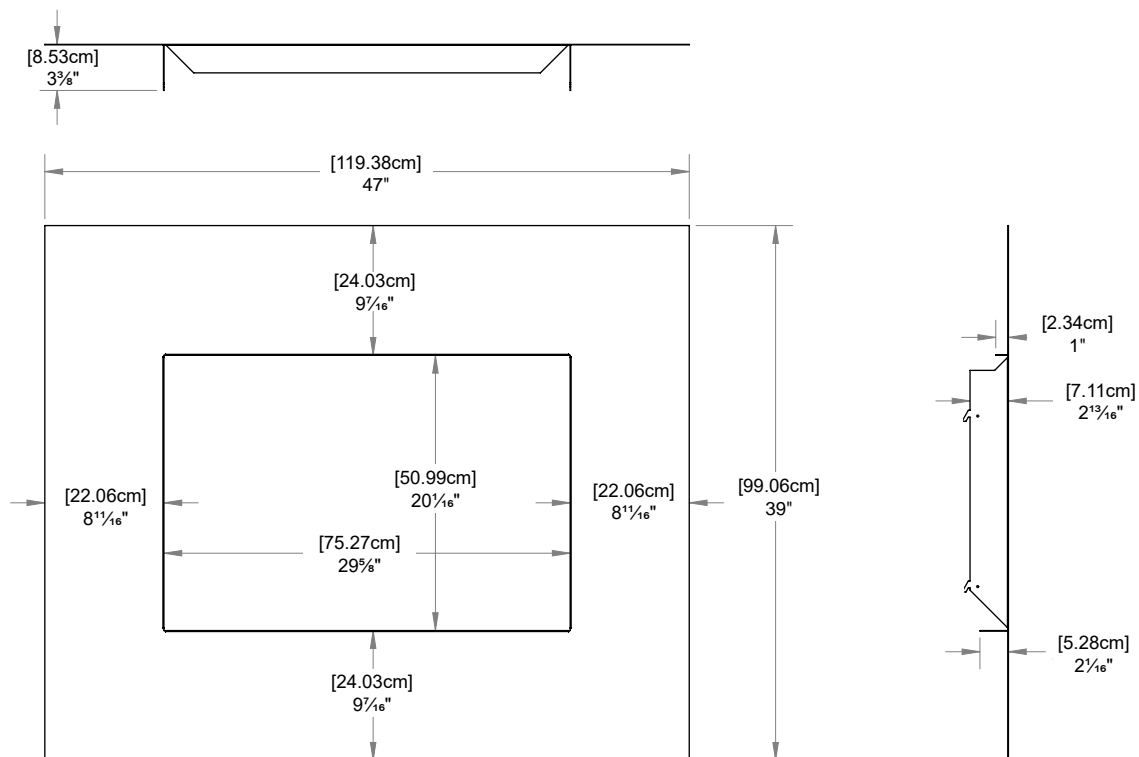


Figure 16.1.02:

Four Sided Surrounds				
	31-SK4SBS-3 Small Shallow	31-SK4SBD-3 Small Deep	31-SK4LBS-3 Large Shallow	31-SK4LBD-3 Large Deep
A	6½" [16.51 cm]		9" [22.86 cm]	
B	42⅝" [108.29 cm]		47⅝" [120.98 cm]	
C	33⅞" [83.8 cm]		38⅞" [96.72 cm]	
D	1" [2.54 cm]	2¾" [7.02 cm]	1" [2.54 cm]	2¾" [7.02 cm]
E	2⅜" [7.11 cm]			
F	2⅞" [5.28 cm]			

## 16.2 Trimmable Surround Dimensions



**Figure 16.2.01:**

## 16.3 Dimensions of Fronts

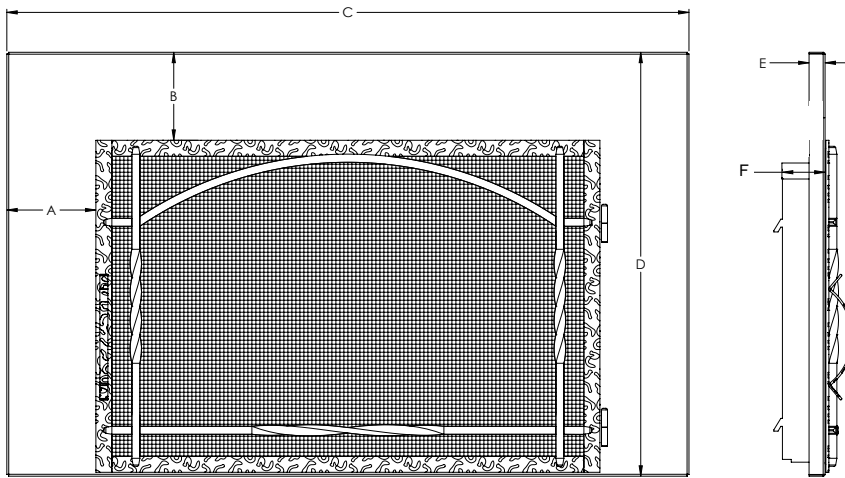


Figure 16.3.01: Mission Hills Front

Mission Hills Fronts		
	31-MHIFSSDBS-3	31-MHIFSSDBD-3
A	5 <sup>9</sup> / <sub>16</sub> " (14.14 cm)	
B	5 <sup>9</sup> / <sub>16</sub> " (14.14 cm)	
C	42 <sup>5</sup> / <sub>8</sub> " (108.29 cm)	
D	26 <sup>9</sup> / <sub>16</sub> " (67.29 cm)	
E	1" (2.54 cm)	2 <sup>3</sup> / <sub>4</sub> " (6.99 cm)
G	2 <sup>13</sup> / <sub>16</sub> " [7.11 cm]	

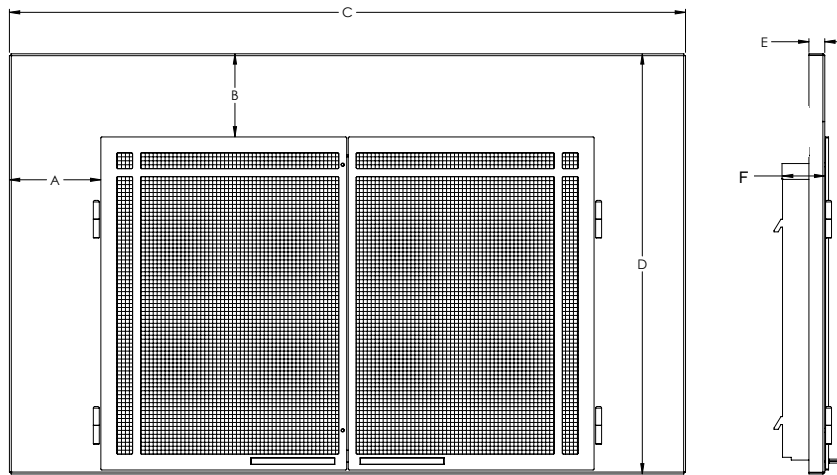


Figure 16.3.02: Harrison Mills Front

Harrison Mills Fronts		
	31-SDSHMBS-3	31-SDSHMBD-3
A	5 <sup>3</sup> / <sub>4</sub> " (14.65 cm)	
B	5 <sup>3</sup> / <sub>8</sub> " (13.32 cm)	
C	42 <sup>5</sup> / <sub>8</sub> " (108.29 cm)	
D	26 <sup>9</sup> / <sub>16</sub> " (67.29 cm)	
E	1" (2.54 cm)	2 <sup>3</sup> / <sub>4</sub> " (6.99 cm)
G	2 <sup>13</sup> / <sub>16</sub> " [7.11 cm]	



## 16.4 Decorative Trim Dimensions

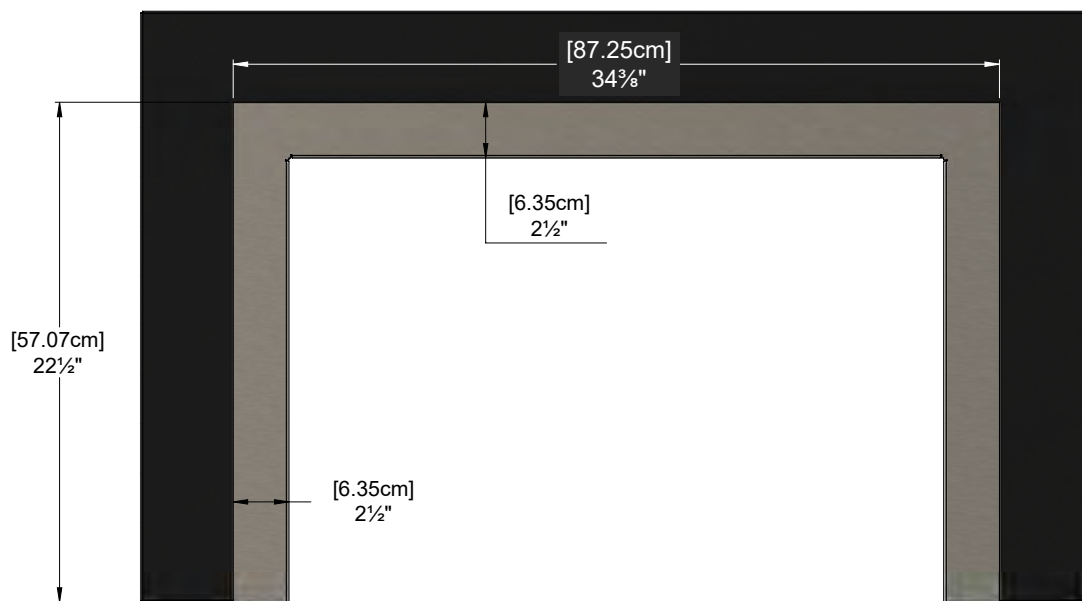


Figure 16.4.01:

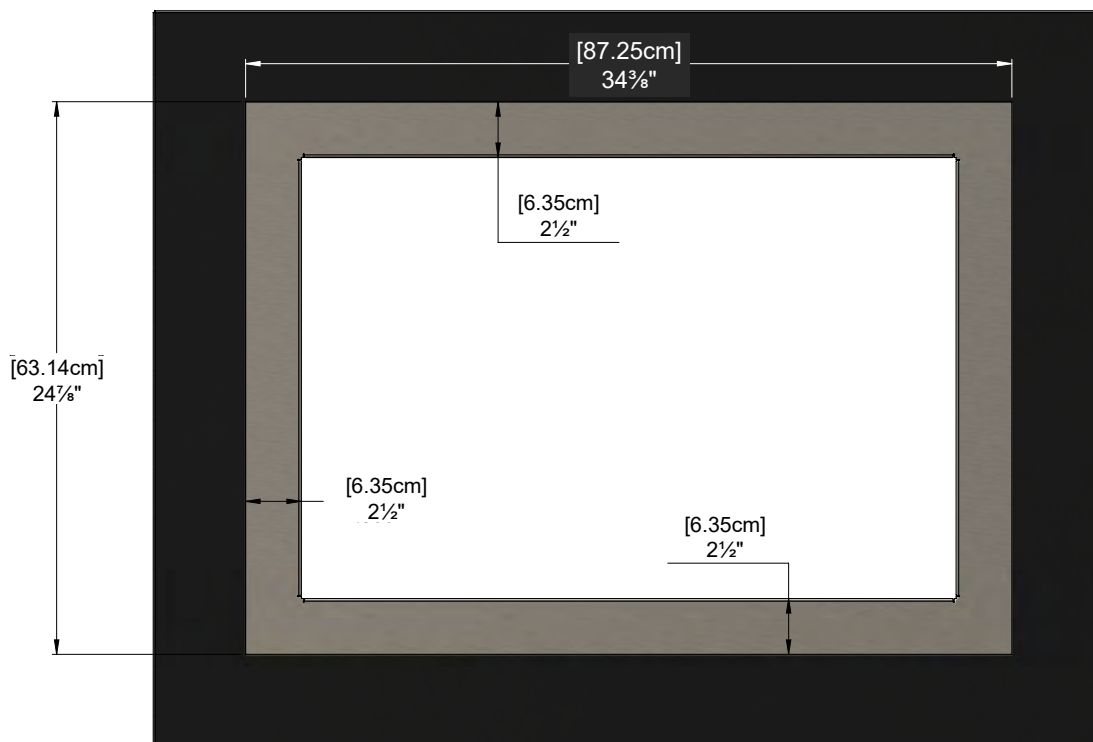


Figure 16.4.02:

## 16.5 Decorative Plinth Dimensions

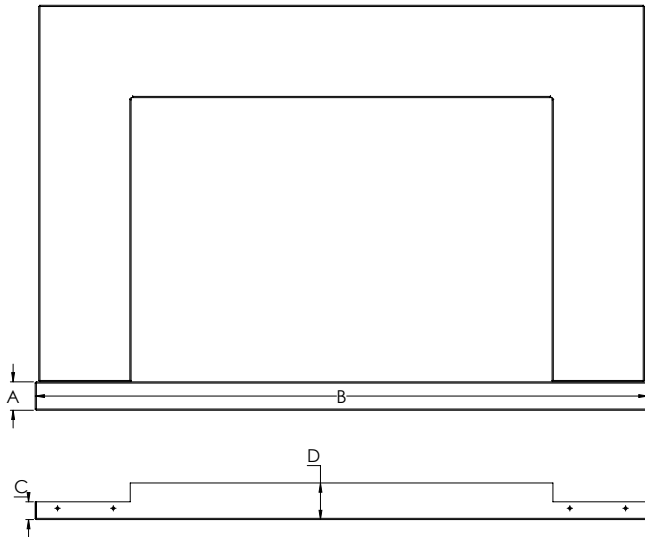


Figure 16.5.01:

### Small Plinths

		For use with 31-SKSBS-3 or 31-SKSBD-3			
		A	B	C	D
Shallow	31-DPSS2	2" 5.08 cm	43 $\frac{1}{8}$ " 109.56 cm	1 $\frac{1}{4}$ " 3.18 cm	2 $\frac{9}{16}$ " 6.47 cm
	31-DPSS4	4" 10.16 cm			
	31-DPSS6	6" 15.24 cm			
Deep	31-DPSD2	2" 5.08 cm	43 $\frac{1}{8}$ " 109.56 cm	3" 7.66 cm	2 $\frac{9}{16}$ " 6.47 cm
	31-DPSD4	4" 10.16 cm			
	31-DPSD6	6" 15.24 cm			

### Large Plinths

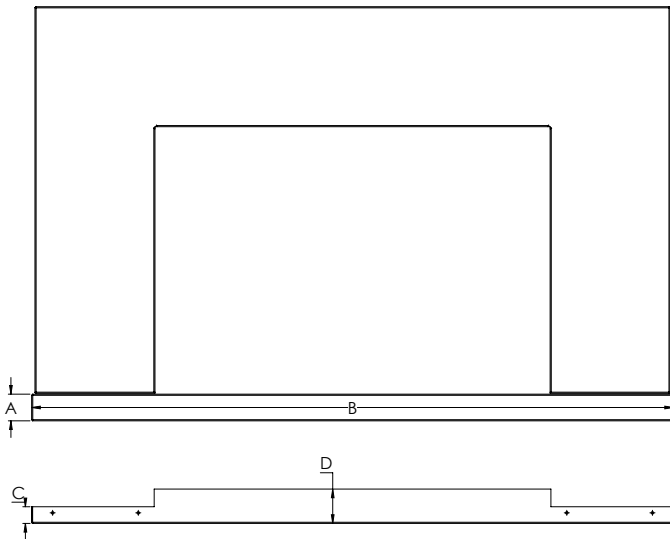


Figure 16.5.02:

		For use with 31-SKLBS-3 or 31-SKLBD-3			
		A	B	C	D
Shallow	31-DPLS2	2" 5.08 cm	48 $\frac{1}{8}$ " 122.26 cm	1 $\frac{1}{4}$ " 3.18 cm	2 $\frac{9}{16}$ " 6.47 cm
	31-DPLS4	4" 10.16 cm			
	31-DPLS6	6" 15.24 cm			
Deep	31-DPLD2	2" 5.08 cm	48 $\frac{1}{8}$ " 122.26 cm	3" 7.66 cm	2 $\frac{9}{16}$ " 6.47 cm
	31-DPLD4	4" 10.16 cm			
	31-DPLD6	6" 15.24 cm			

## 17.0 Panel Set Installation

### 17.1 Brick Panel (31-DVIE33LN-3)

The following steps highlight the procedure for installing brick panel firebox liners (part number 31-BRPL-QCG or 31-BRPL-QCR). Handle the panels with care as they are delicate. Inspect the panels to ensure that no damage has occurred inside the package. Please report any damage immediately to your Authorized Archgard Dealer.

Before you begin:

- **Ensure the gas supply is turned OFF and disconnect the power supply**
- **Ensure the fireplace is cool**
- Remove barrier screen (see **Section 14.0**)
- Remove Glass Door (see **Section 15.0**)

1. Place rear panel in firebox on back ledge as shown.



Figure 17.1.01:

2. Place right side panel in firebox.



Figure 17.1.02:

3. Place baffle panel so that it rest on the grout line of the rear panel and right side panel. It may be necessary to hold this panel as you place the left side panel.



Figure 17.1.03:

4. Place the left side panel. Be sure to push back so the rear panel and baffle panel rest on the side panel.



Figure 17.1.04:

# Installation

5. Place the right front brick panel so it drops down between the front of the firebox and the burner tray. Push all the way to the right so the right side slides under the right side panel.

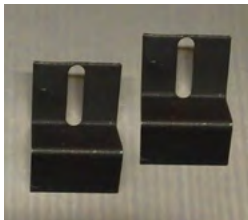


Figure 17.1.05:

6. Place the left front panel opposite the right front panel.



Figure 17.1.06:



Panel Retaining Clip

7. Remove the 1/4" hex screw in the top right and left sides of the firebox. Use the screws removed to install the panel retaining clips included with the fireplace.



Figure 17.1.07:



# Installation

## 17.2 Reflective Glass (31-DVIE33LN-3)

The following steps highlight the procedure for installing Eternal Flame Reflective Ceramic Glass liner (part number 31-BRPL-RG) for the 31-DVIE33LN-3 traditional fireplace insert. Handle the panels with care. Inspect the panels to ensure that no damage has occurred inside the package. Ensure no fingerprints are left on the glass panels as high temperatures can bake these prints on permanently. We recommend using clean, cotton gloves when handling the panels. The following photos show an unpainted fireplace to better illustrate installation. Please report any damage immediately to your Authorized Archgard Dealer.

Before you begin:

- **Ensure the gas supply is turned OFF and disconnect the power supply**
- **Ensure the fireplace is cool**
- Remove barrier screen (see **Section 14.0**)
- Remove Glass Door (see **Section 15.0**)

**Step 1:** Remove and retain the (2) Tek screws at left and the right sides of the burner.

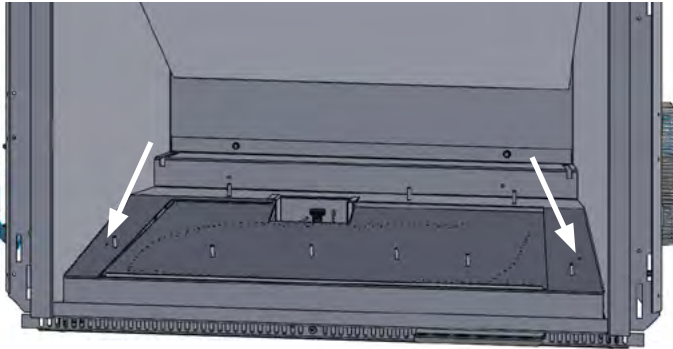


Figure 17.2.01:

**Step 3:** Locate the two lower panel retainer clips included with the panel set.

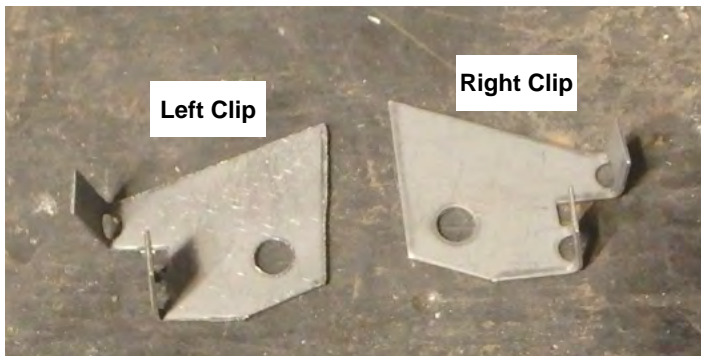


Figure 17.2.03:

**Step 5:** Install and secure the two lower panel clips as shown loosely with the screws that were removed from these holes.

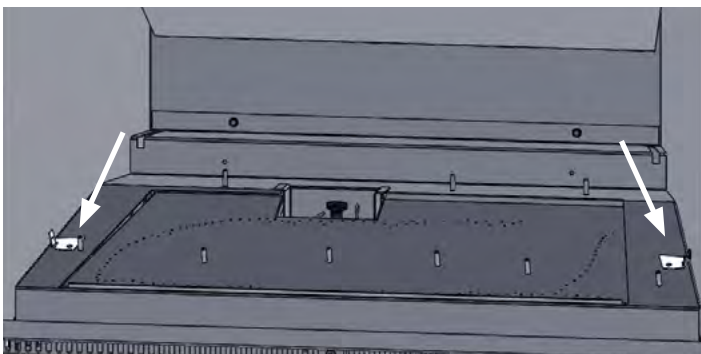


Figure 17.2.05:

**Step 2:** Remove and retain the (2) Tek screws from the upper front corners.



Figure 17.2.02:

**Step 4:** Ensure the top panel retainer clips are accessible for the following steps.

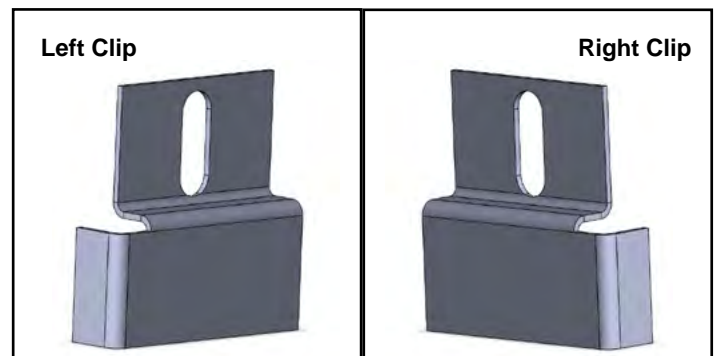


Figure 17.2.04:

**Step 6:** Install the Rear Panel and hold in place.

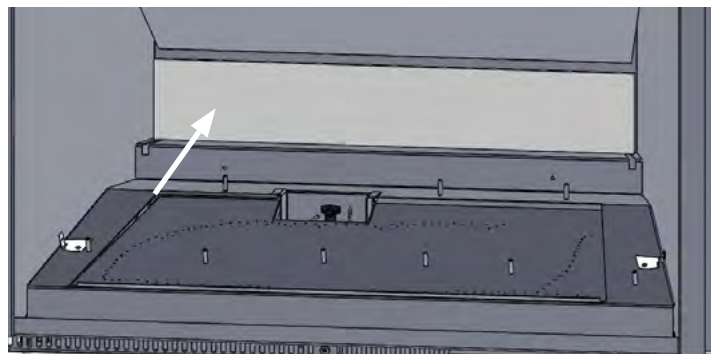


Figure 17.2.06:

# Installation

**Step 7:** Install the left side panel in between the tabs on the lower clip and the slot at the back of the firebox. Tighten down the lower clip in place

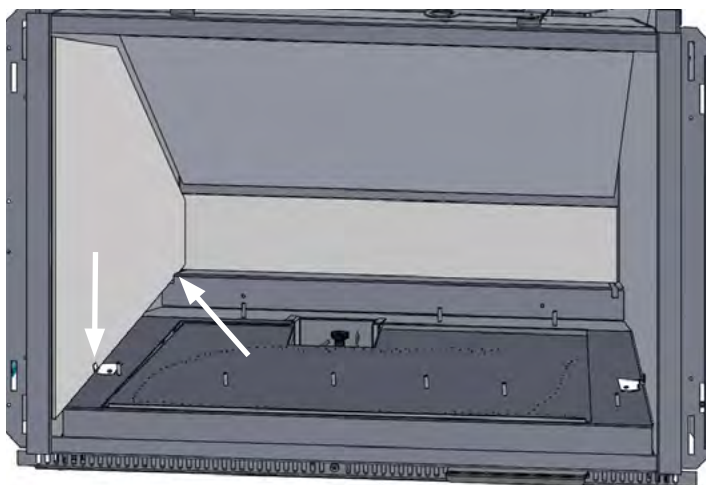


Figure 17.2.07:

**Step 9:** Install the right side panel in between the tabs on the lower clip and the slot at the back of the firebox. Tighten down the lower clip in place

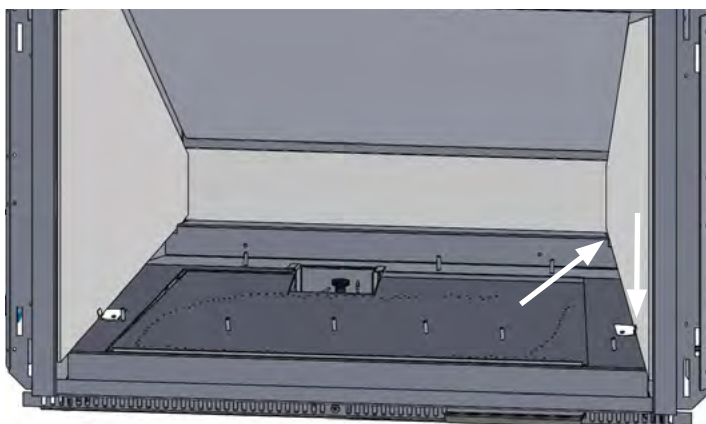


Figure 17.2.09:

**Step 11:** Insert the upper panel over top of the left side panel at an angle and slide it all the way to the left. Push the panel up and slide over to the right on top of the right panel.

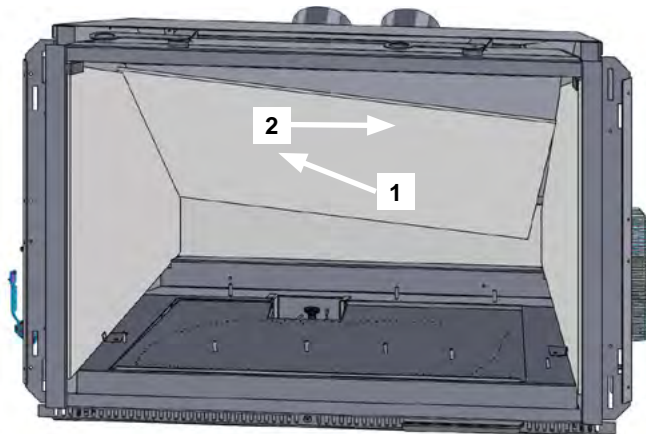


Figure 17.2.11:

**Step 8:** Install the left top panel retainer clip to secure the left panel in place.

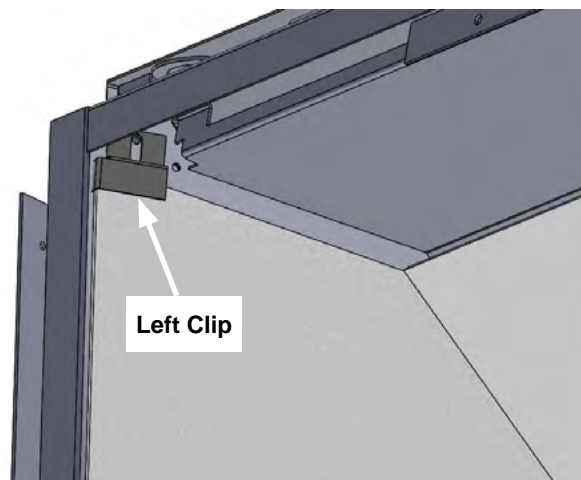


Figure 17.2.08:

**Step 10:** Install the right top panel retainer clip to secure the right panel in place.

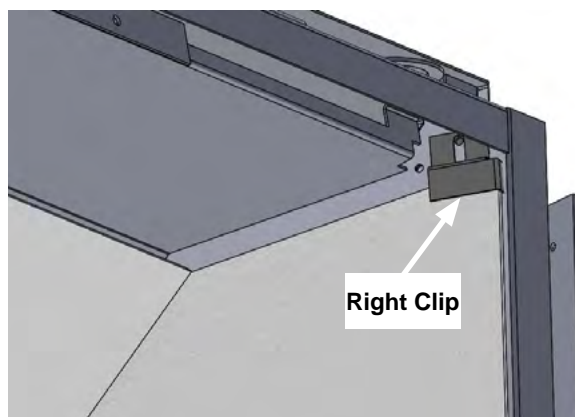


Figure 17.2.10:

**Step 12:** Final Install.

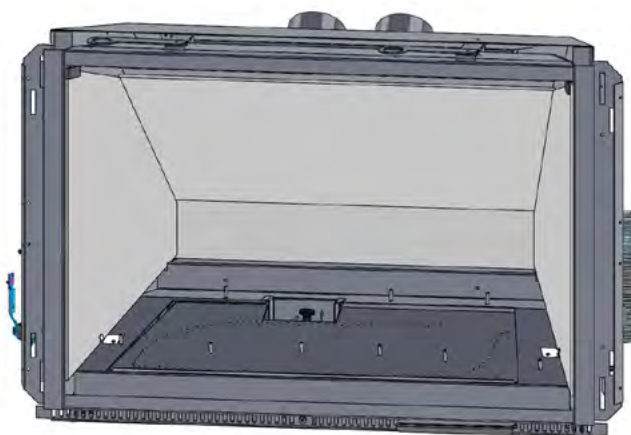


Figure 17.2.12:

Removal is the reverse of Installation.



# Installation

## 17.3 Reflective Glass (31-DVIE33CN-3)

The following steps highlight the procedure for installing Eternal Flame Reflective Ceramic Glass liner (part number 31-BRPLC-RG) for the **31-DVIE33CN-3** traditional fireplace insert. Handle the panels with care. Inspect the panels to ensure that no damage has occurred inside the package. Ensure no fingerprints are left on the glass panels as high temperatures can bake these prints on permanently. We recommend using clean, cotton gloves when handling the panels. The following photos show an unpainted fireplace to better illustrate installation. Please report any damage immediately to your Authorized Archgard Dealer.

Before you begin:

- **Ensure the gas supply is turned OFF and disconnect the power supply**
- **Ensure the fireplace is cool**
- Remove barrier screen (see **Section 14.0**)
- Remove glass door (see **Section 15.0**)

**Step 1:** Remove and retain the (2) Tek screws securing the front media ledge.

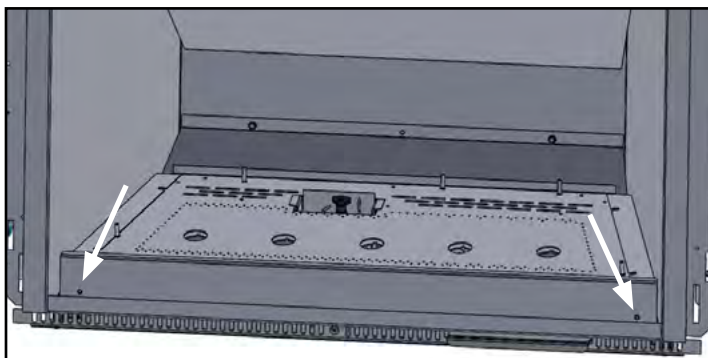


Figure 17.3.01:

**Step 3:** Locate the two lower panel retainer clips included with the panel set.

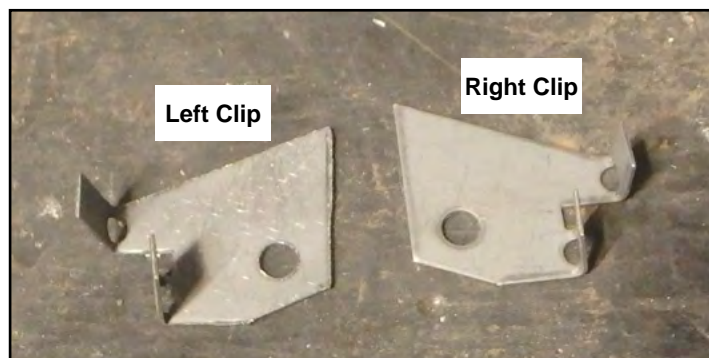


Figure 17.3.03:

**Step 5:** Install and secure the two lower panel clips as shown loosely with the screws. Install the new front media ledge with the offsets provided with the Reflective Glass Kit.

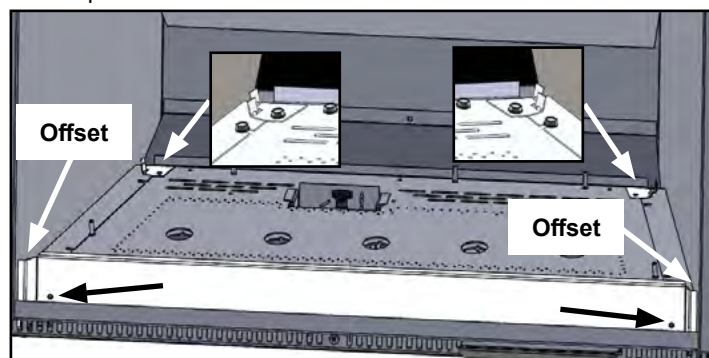


Figure 17.3.05:

**Step 2:** Remove and retain the (2) Tek screws from the upper front corners.



Figure 17.3.02:

**Step 4:** Ensure the top panel retainer clips are accessible for the following steps.

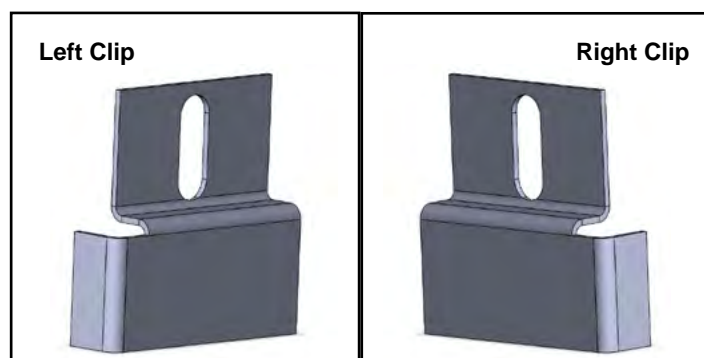


Figure 17.3.04:

**Step 6:** Install the Rear Panel and hold in place.

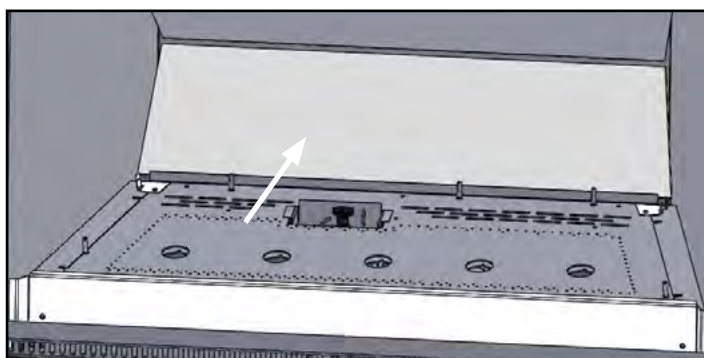


Figure 17.3.06:

# Installation

**Step 7:** Install the left side panel in between the tabs on the lower clip and in the offset in the front media ledge. Tighten down the lower clip in place

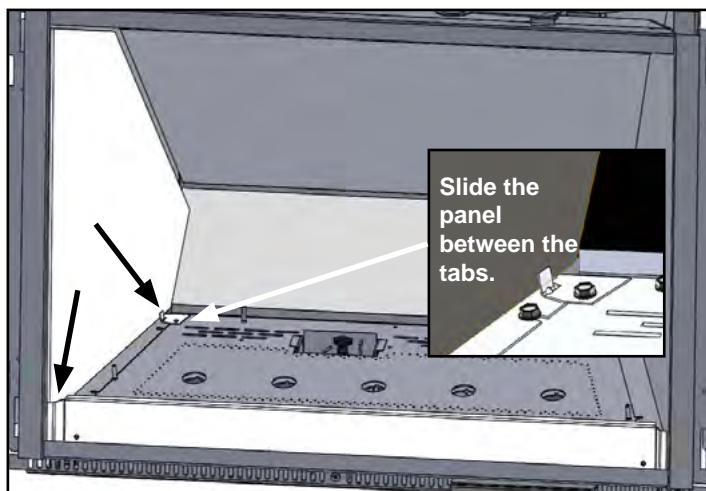


Figure 17.3.07:

**Step 9:** Install the right side panel in between the tabs on the lower clip and in the offset in the front media ledge. Tighten down the lower clip in place

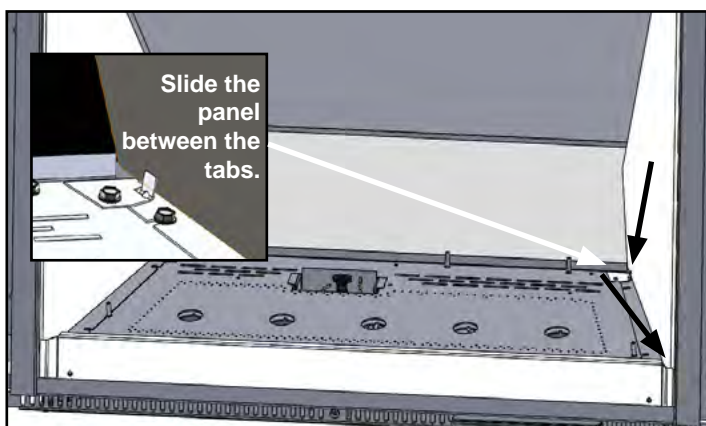


Figure 17.3.09:

**Step 11:** Insert the upper panel over top of the left side panel at an angle and slide it all the way to the left. Push the panel up and slide over to the right on top of the right panel.

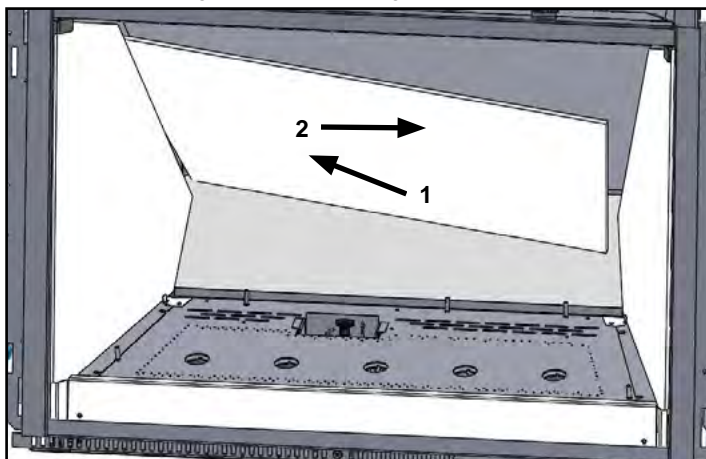


Figure 17.3.11:

**Step 8:** Install the left top panel retainer clip to secure the left panel in place. **Note:** if installed correctly, the panel will NOT sit flush with the sides of the firebox.

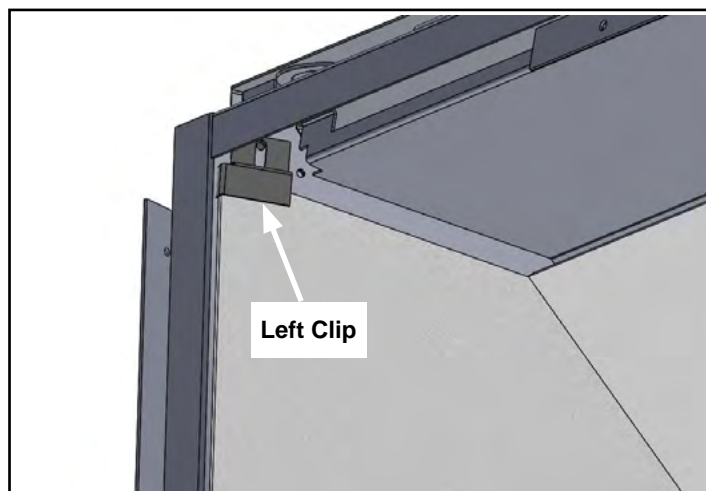


Figure 17.3.08:

**Step 10:** Install the right top panel retainer clip to secure the right panel in place. **Note:** if installed correctly, the panel will NOT sit flush with the sides of the firebox.

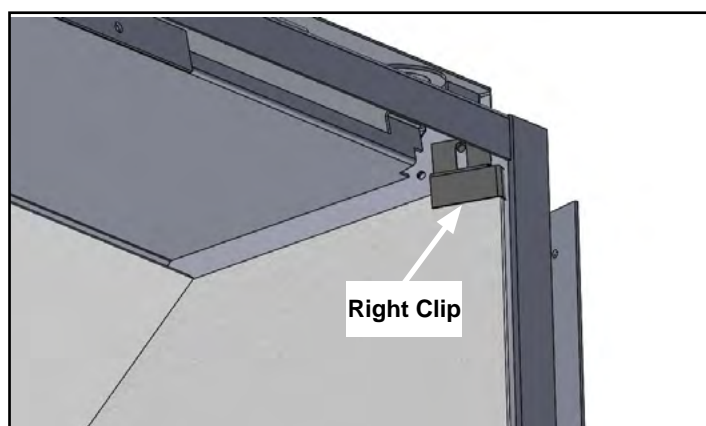


Figure 17.3.10:

**Step 12:** Final Install.

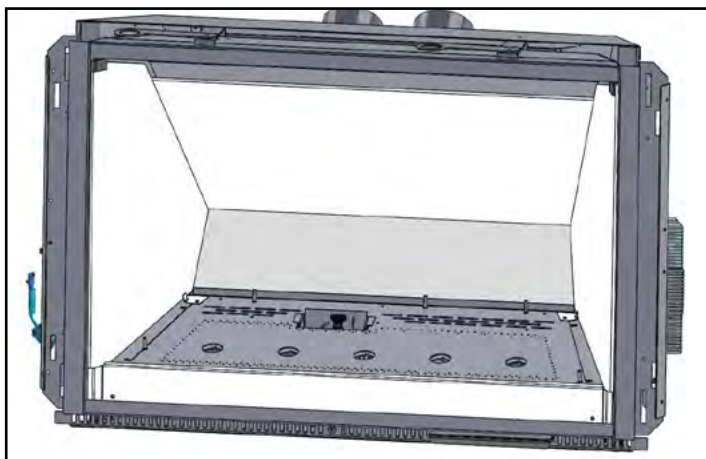


Figure 17.3.12:

Removal is the reverse of Installation.

## 18.0 Media Installation

### 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.

### 18.1 High Definition Log Set (31-DVIE33LN-3)

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 even after many years of use. 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.

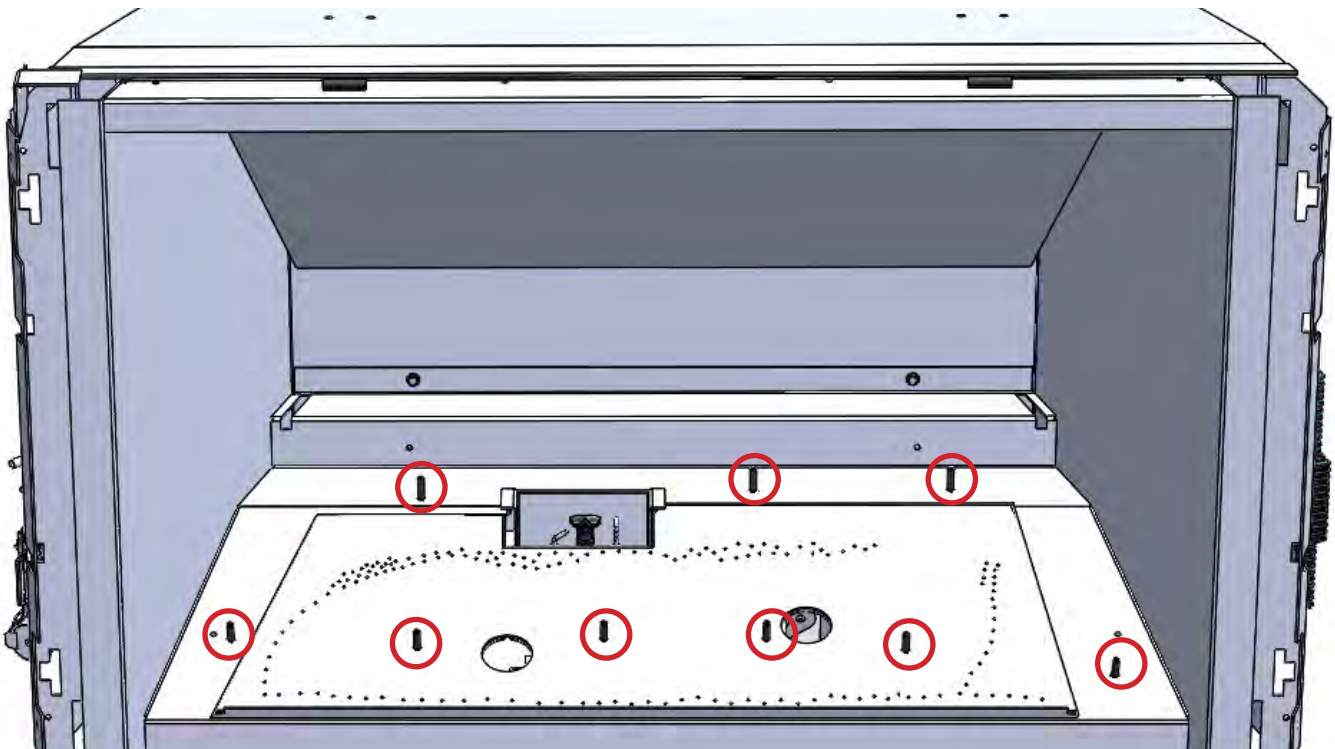
**CAUTION:** DO NOT block pilot opening with embers or glass media material.

**NOTE:** Improper placement of logs and embers may cause soot accumulation on the internal parts and glass. This is not covered under warranty. Do not use broken or damaged logs.

Locate the embers and logs and place them on their prospective locations. Refer to the pictured instructions on the following pages that will show how to place all seven (7) logs. Pins and holes must be aligned with logs and burner.

**IMPORTANT:** Embers should be placed so as not to completely block burner ports. Separate the material and spread around the pan.

### Locator Pins



**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.

Figure 18.1.01:



# Installation

**Step 1.** Locate Log 1 and align the holes in the bottom line up with the two locator pins. Push the top of the log up so it is against the back shelf. Push down firmly onto locator pins.



Figure 18.1.02:

**Step 2.** Locate Log 7 and place over the two pins and all the way back against the back shelf and to the left so it is almost touching Log 1. Force the log down onto the locator pins. **NOTE:** There are no holes in Log 7 must use gentle force.

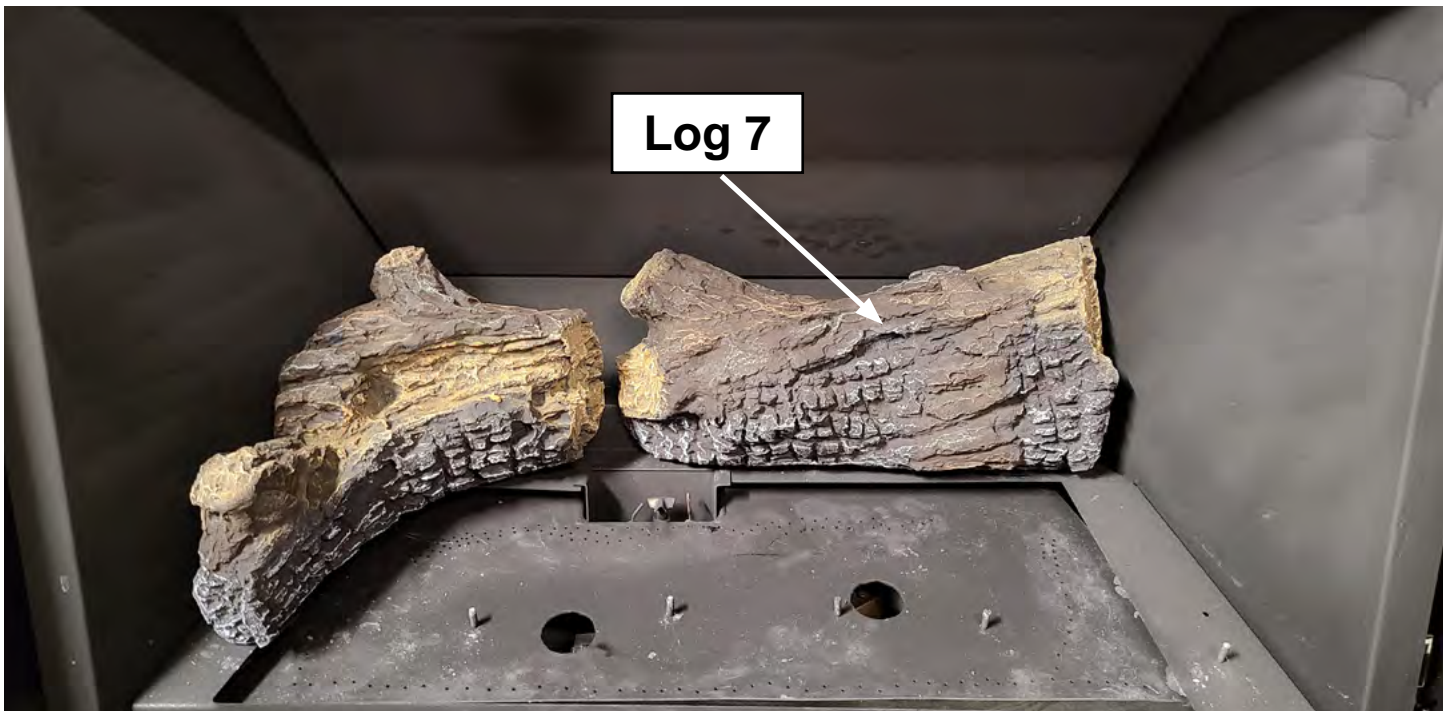


Figure 18.1.03:

# Installation

**Step 3.** Locate Log 3 and align the two holes in the log with the two locator pins on the left of the burner. Push down onto locator pins as shown.



Figure 18.1.04:

**Step 4.** Locate Log 2 and align the two holes in the log with the two locator pins on the right side of the burner. Push down onto locator pins as shown.



Figure 18.1.05:



## Installation

**Step 5.** Locate Log 5 and align the hole in the bottom with the pin in log 3. Place the other end of the log in the saddle of log 1.



Figure 18.1.06:

**Step 6.** Locate Log 6 and align the hole in the bottom with the locator pin in log 3. Place the other end of the log on the burner and pulled forward against log 2.



Figure 18.1.07:



# Installation

**Step 7.** Locate Log 4 and align the hole in the bottom with the pin on the burner surround tray. Place the other end onto log 2 as shown.



Figure 18.1.08:

**Step 8.** Place black embers around logs as shown, do not block the holes in the burner. Maintain a 1/4" clearance from the Burner Cover with embers.

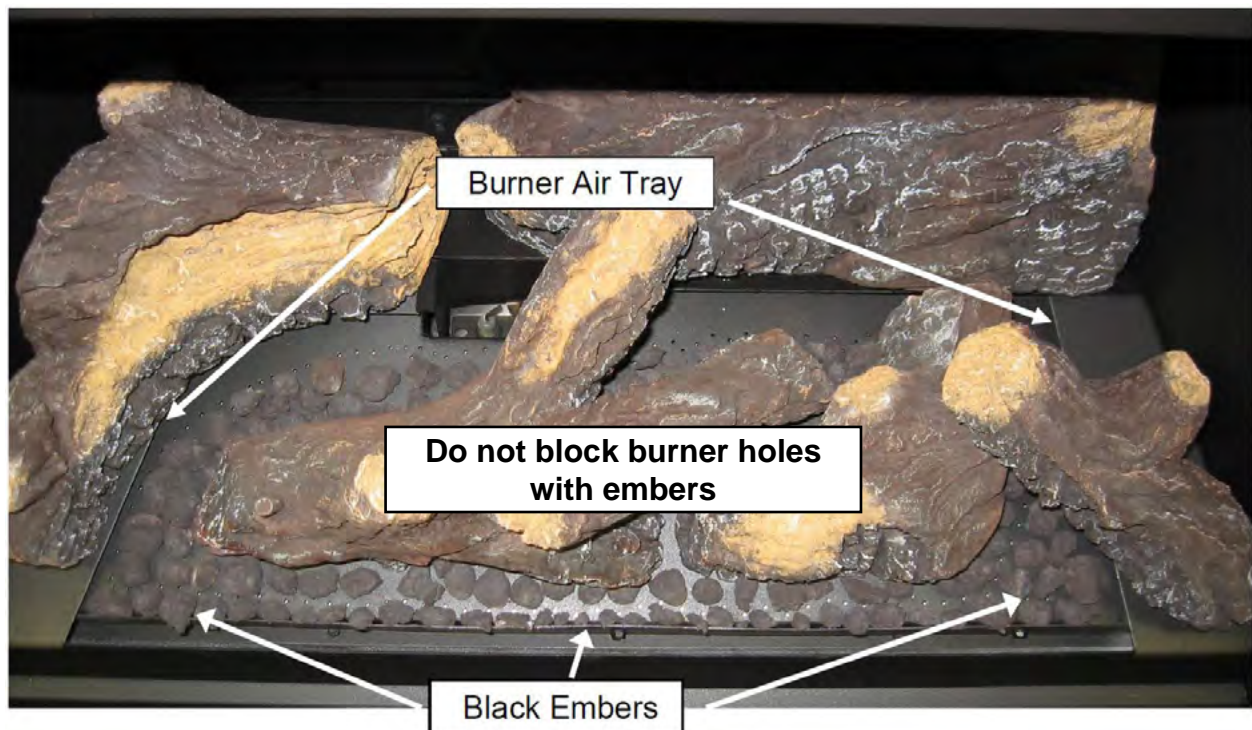


Figure 18.1.09:

## IMPORTANT

Embers should be placed so they do not completely block burner ports. DO NOT block pilot opening.

## Platinum Ember Placement

Platinum embers provide a brighter glow than the black embers. When using a mixture of both the firebox will be filled with a naturalistic glow. **Note:** DO NOT block burner openings with platinum embers or any other material.

**Step 1:** Remove embers from the bag. Be sure to follow handling instructions on the bag. Separate embers by pulling apart. Embers may be flattened or separated into smaller pieces to achieve any desired aesthetic.

**Step 2:** Place the embers randomly throughout the fire bed, taking care to avoid burner openings.



Figure 18.1.10:



Figure 18.1.11:



Figure 18.1.12:



## Log Set Overview

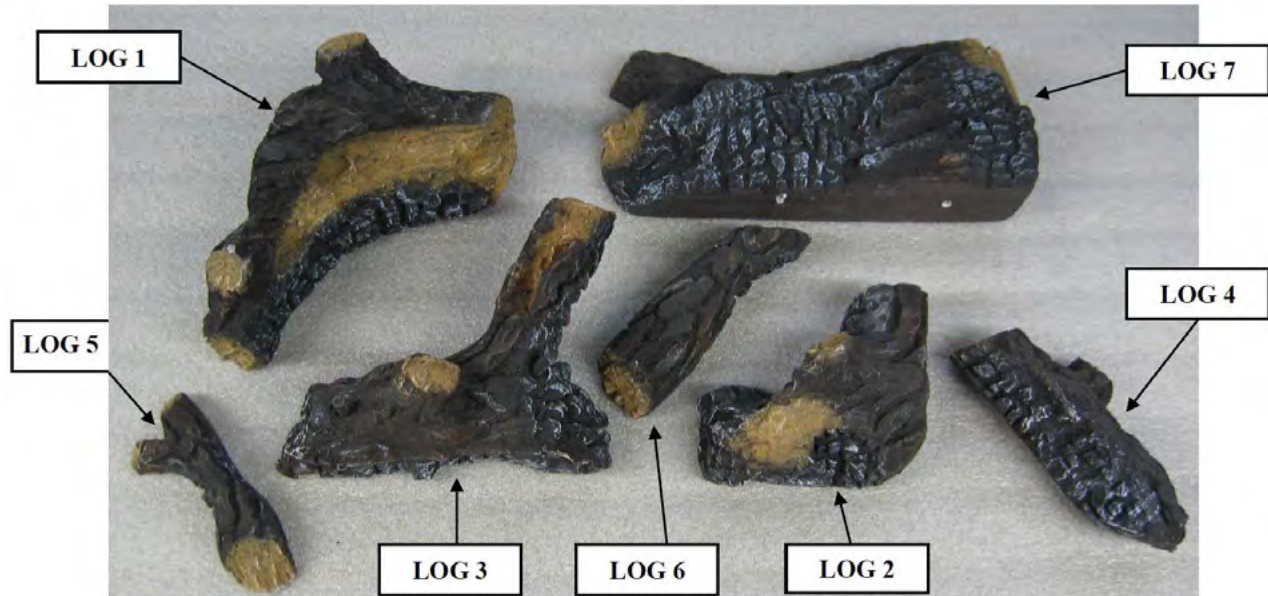


Figure 18.1.13:

Part #	Item Description	Qty	Part #	Item Description	Qty
31-LS-CS	Classic High Definition Log Set	1 Set	310-634720-5	Log 5 (Left Top)	1
310-634720-1	Log 1 (Left Rear)	1	310-634720-6	Log 6 (Front Crossover)	1
310-634720-2	Log 2 (Right Mid)	1	310-634720-7	Log 7 (Right Rear)	1
310-634720-3	Log 3 (Left Mid)	1	310-0020	Black Embers (2 cup bag)	1
310-634720-4	Log 4 (Right)	1	310-0019	Platinum Embers (1 bag)	1

### WARNING

Never use unapproved burner media such as rock wool or similar material. The use of unapproved burner media may cause damage or injury and will void product warranty.

### WARNING

The log set is only for use with the **31-DVIE33LN-3** burner. DO NOT place logs or embers on the **31-DVIE33CN-3** contemporary burner.

## 18.2 Premium Log Set Options (31-DVIE33LN-3)

Archgard offers two alternative log set options:

The Grand Timber log set offers a more rugged look while the Weathered Wood log set provides a more contemporary styling. See the logset installation manual included with each fireplace for installation instructions.



Figure 18.2.01: Grand Timber Log Set



Figure 18.2.02: Weathered Wood Log Set



# Installation

## 18.3 Fire Beads (31-DVIE33CN-3)

The **31-DVIE33CN-3** comes from the factory with the contemporary burner installed. This unit is furnished with colored glass beads or ceramic rocks instead of the traditional log set to give your fireplace a sleek cosmopolitan look.

Installation of fire beads is as simple as spreading the beads you have chosen evenly over the burner so that it is completely covered.



Figure 18.3.01:



Figure 18.3.02:

### WARNING

Glass media is only for use with the **31-DVIE33CN-3** burner. DO NOT place glass media on the **31-DVIE33LN-3** log burner.

### ATTENTION

When placing fire beads around the pilot shield take care to not block the pilot opening. Failure to keep the opening clear of burner media will cause a delayed ignition.

### ATTENTION

The **31-DVIE33CN-3** is designed for use with fire beads and it is not recommended to use broken glass or other sharp edged glass pieces. Nonconforming glass may result in a less than optimal burn presentation. 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.

## 18.3 River Rocks (31-DVIE33CN-3)

Mississippi River Rocks or Santa Cruz River Rocks are available for the **31-DVIE33CN-3**.

Distribute the rocks evenly around the burner to personal preference. Care must be taken that you **DO NOT** cover burner ports with any of the “large” stone flat surfaces. Keep burner ports clear of blockage: i.e. flat surfaces of the rocks to create an enjoyable burning fire. If the ports are covered it may cause soot build up that will affect the operation and maintenance of your fireplace.



Shown with  
31-SKHSBS Surround

Figure 18.3.01:



Figure 18.3.02:



Figure 18.3.03:



Figure 18.3.04:



Figure 18.3.03:

### NOTE

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.

### WARNING

River rocks are only for use with the **31-DVIE33CN-3** burner. DO NOT place river rocks on the **31-DVIE33LN-3** log burner.



## 19.0 Operation

### 19.1 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. 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.

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. Performing 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 **Section 11** of this manual).
3. If required, adjusting the primary air to burner to ensure that the flame does not carbon or soot.
4. Checking for proper operation including correct drafting.
5. Turning the fireplace ON to ensure that the fan is working correctly. After the system has been checked and confirmed that the fan is in working order, refer to the instructions for FIRST FIRE located in this manual.

Use the installation checklist in **Section 5.0** to ensure all installation steps have been completed.

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

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.

1. **BEFORE LIGHTING**, smell all around the appliance area for gas. Be sure to smell next to the floor, because some gasses are heavier than air and will settle on the floor.
2. **IF YOU SMELL GAS**, follow the instructions as listed directly above or as shown on the front cover of this manual.
3. 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.
4. This appliance is equipped with an ignition device which automatically lights the pilot and main burner when operating the remote control.

### 19.2 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. Clean the glass door after this curing process has completed (see **Section 20.1**). Be sure there are no fingerprints left on the glass panels as high temperatures can bake these prints on permanently.

## 19.3 Lighting Instructions

The following information may be found on the fireplace rating plate. See **Section 6.1** for the rating plate location.

**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 is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand. When lighting the pilot follow these instructions exactly.

B. BEFORE OPERATING 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. 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 équipé d'un dispositif d'allumage qui allume automatiquement la veilleuse. N'essayez pas d'allumer la veilleuse à la main. Respectez les instructions ci-dessous à la lettre.

B. AVANT D'ALLUMER la veilleuse, reniflez tout autour de l'appareil pour détecter 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:

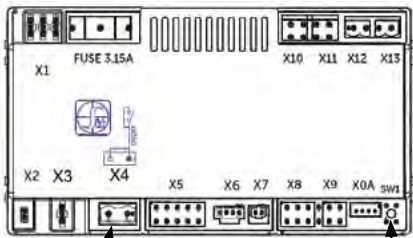
- Ne pas tenter d'allumer d'appareil
- Ne touchez à aucun interrupteur; ne pas vous servir des téléphones se trouvant dans le bâtiment
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur, appelez le service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

C. 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.

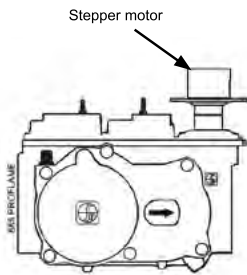
**LIGHTING INSTRUCTIONS**  
**INSTRUCTION D'ALLUMAGE**

- STOP! Read the safety information above on this label. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
- Set the remote control switch to "OFF".
- Open the lower louvers, or remove trim and barrier screen.
- Turn off all electric power to the appliance.
- Open the gas isolation valve.
- 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.
- Turn on all electric power to the appliance.
- Set the remote control switch to "ON".
- If the fireplace does not light, the system will cycle through two trials (one minute of audible clicking, thirty seconds of silence, and then another one minute of audible clicking). If the system locks out due to inadequate gas flow, refer to troubleshooting in instruction manual.
- If the system will not function correctly, follow the instructions "To turn Off Gas To Appliance" below and call your service technician or gas supplier.
- Replace louver or trim.

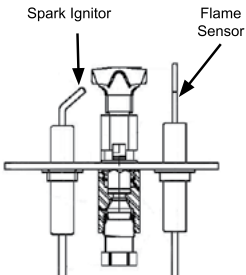
- ARRÊTEZ! Lisez les instructions de sécurité sur la portion supérieure (à droite) de cette étiquette. Cet appareil est équipé d'un dispositif d'allumage qui allume automatiquement la veilleuse. N'essayez pas d'allumer la veilleuse à la main.
- Réglez le commutateur à distance sur "OFF".
- Ouvrez persiennes inférieurs ou garnir.
- Coupez l'alimentation électrique de l'appareil.
- Vanne d'isolement de gaz ouverte.
- Attendez cinq (5) minutes pour laisser échapper tout le gaz. Reniflez tout autour de l'appareil, y compris près du plancher, pour détecter 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.
- Réglez le commutateur à distance sur "ON".
- Allumez l'alimentation électrique de l'appareil.
- Si le foyer ne se allume pas, le cycle de la volonté du système grâce à deux essais (une minute de clic audible, trente secondes de silence, et puis un autre une minute de clic audible). Si le système se bloque en raison de l'écoulement de gaz insuffisante, voir le dépannage dans le manuel d'instruction.
- Si le système ne fonctionne pas correctement, suivez les instructions «Pour couper le gaz de l'appareil» ci-dessous et appelez votre technicien d'entretien ou fournisseur de gaz.
- Persienne fermée ou garnir.



Proflame 885 Board



Proflame 885 Valve



Pilot

**TO TURN OFF GAS TO APPLIANCE**  
**POUR COUPER LE GAZ À L'APPAREIL**

- Set the remote control switch to "OFF".
- Turn off all electric power to the appliance if service is to be performed.
- Open louver or access panel.
- Turn incoming gas isolation valve to "OFF" position.
- Close louver or trim.

- Réglez le commutateur à distance sur "OFF".
- Coupez l'alimentation électrique de l'appareil s'il faut procéder à l'entretien.
- Ouvrez persiennes inférieurs ou porte d'accès.
- vanne d'isolement de gaz à proximité
- Persienne fermée ou garnir.

Figure 19.3.1:

## 19.4 Dynamic Start Advantage

This fireplace comes standard with the Dynamic Start Advantage. This new electronic ignition system is the latest in fireplace technology. It helps to create a better draft, better flame appearance, less condensation on the glass, and years of carefree operation.

### How the system works:

When starting a solid fuel wood burning fireplace you build a fire. You start with a little bit of tinder and kindling to create small fire, and then work your way up to larger logs once a draft has been established. Dynamic Start uses the same principle. When you press the "ON" button on the remote control the main burner will light and remain with a low flame for two minutes. This will first establish a draft in the vent and slowly warm up the fireplace. When two minutes have passed, the main burner will automatically ramp up to the high flame (or whichever setting you have established on the remote control).

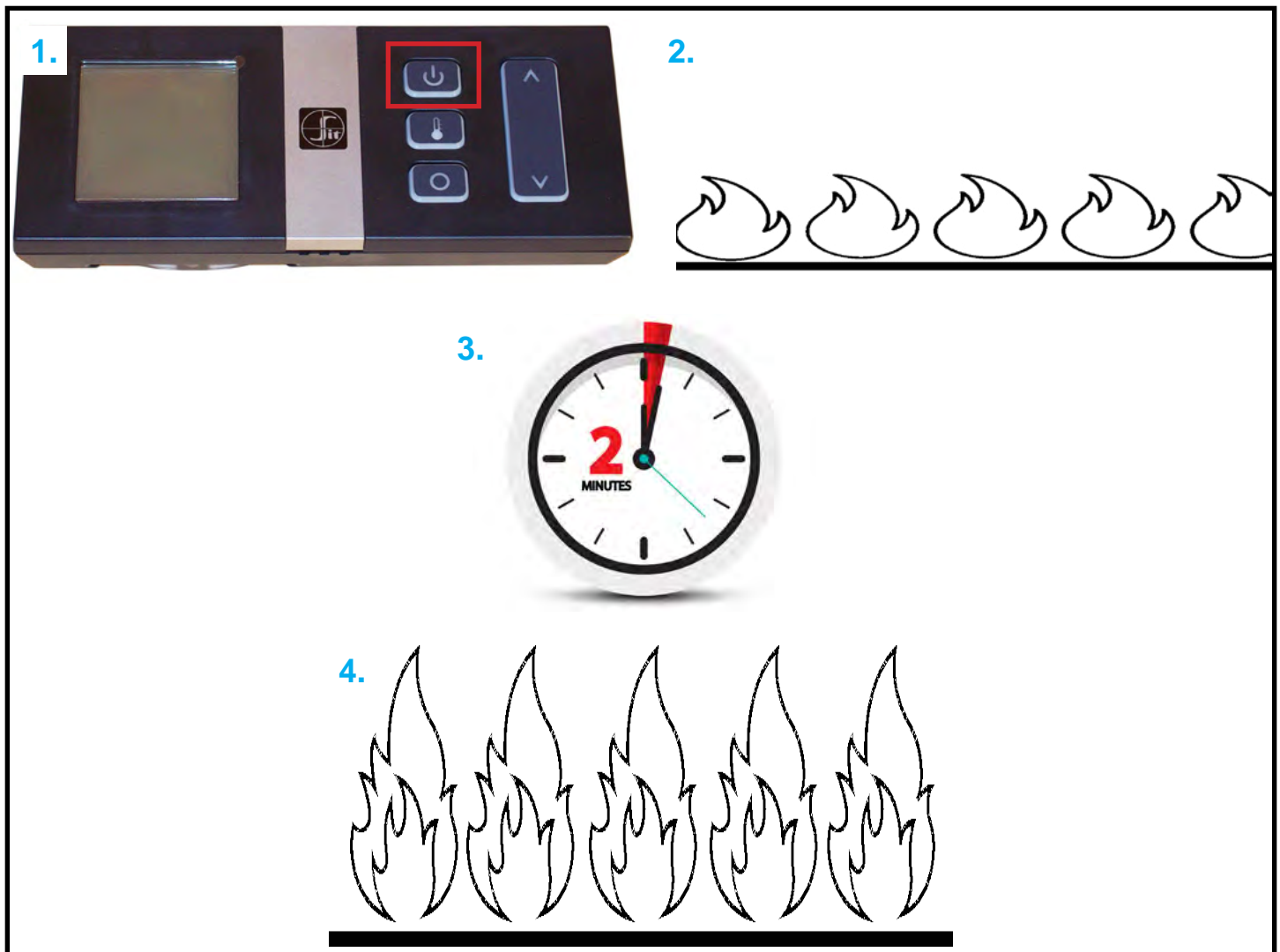


Figure 19.4.01

## 19.5 Remote Control Operation

### IMPORTANT

The Proflame II Remote is an integrated part of the Proflame II System, which consists of a Proflame II Remote, to be used in conjunction with Integrated Fireplace Control (Proflame II Control Module).



Figure 19.5.01

The Proflame II Remote provides for controlling the following hearth appliance functions:

1. Main Burner ON/OFF
2. Main Burner flame modulation (6 levels)
3. Choice of Continuous Pilot on Demand or intermittent pilot (CPI/IPI)
4. Thermostat and SMART thermostat function
5. Comfort fan speed modulation (6 levels)

The Proflame Remote uses a streamline design with a simple button layout and informative LCD display. A Mode Key is provided to index between the features and a Thermostat Key is used for on/off or to index through the thermostat function. Additionally a Key Lock function is provided.

### ATTENTION

- TURN OFF THE MAIN GAS SUPPLY DURING INSTALLATION OR MAINTENANCE OF THE RECEIVER DEVICE
- TURN OFF MAIN GAS SUPPLY TO THE APPLIANCE PRIOR TO REMOVING OR REINSERTING THE BATTERIES
- IN CASE OF REMOTE CONTROL MALFUNCTION TURN OFF THE FIREPLACE BY REMOVING POWER SUPPLY (INCLUDING BACKUP BATTERIES)
- FOR INSTALLATION/MAINTENANCE SWITCH OFF THE FIREPLACE BY REMOVING POWER SUPPLY (INCLUDING BACKUP BATTERIES)

#### Technical Data - Remote Control

Supply Voltage	4.5 V (three (3) 1.5V AAA batteries)
Ambient temperature ratings	0 - 50°C (32 - 122°F)
Radio Frequency	315 MHz

# Operation

## Handheld Remote Display

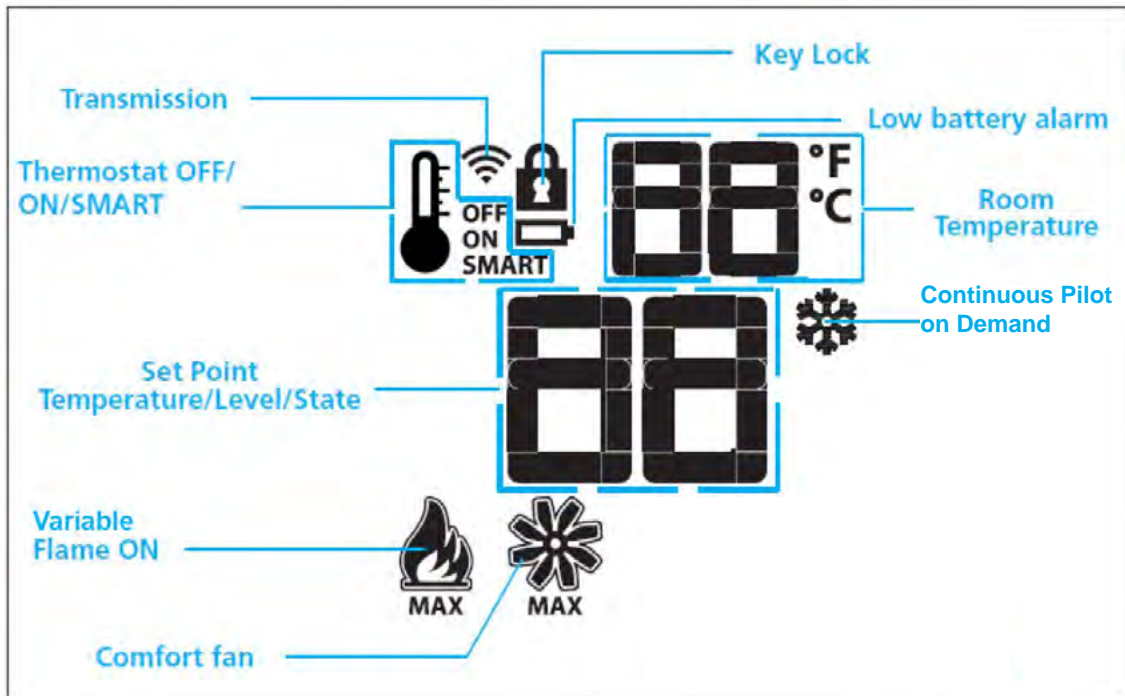


Figure 19.5.02

## WARNING

THE REMOTE AND RECEIVER ARE RADIO FREQUENCY DEVICES. PLACING THE REMOTE IN OR NEAR METAL ENCLOSURES MAY REDUCE THE SIGNAL RANGE.

## Handheld Remote (optional)



Figure 19.5.03



# Operation

## Initializing the System for Handheld / Wall Mount Remote Operation

1. Connect IFC Control Module to AC power supply. A single "beep" will indicate the presence of power. **NOTE: This will initiate Pilot Start-up in Manual Mode. The pilot will spark repeatedly and ignite if gas has been supplied to the unit. Sync the control board to the remote to turn main burner and pilot off using the steps below.**
2. The ON/OFF Override Jumper on the control board must be connected.
3. Press and hold the red SW1 button until the IFC module beeps three (3) times and/or the amber LED illuminates indicating the module is ready to synchronize with the remote.
4. Within ten (10) seconds push the ON/OFF key on the remote. The IFC module will "beep" four (4) times to indicate that it has successfully synced with the remote. Turn the fireplace OFF using the ON/OFF button on the remote to complete initialization. The remote will now control the fireplace.
5. Install the provided four (4) AA batteries into battery back up holder.

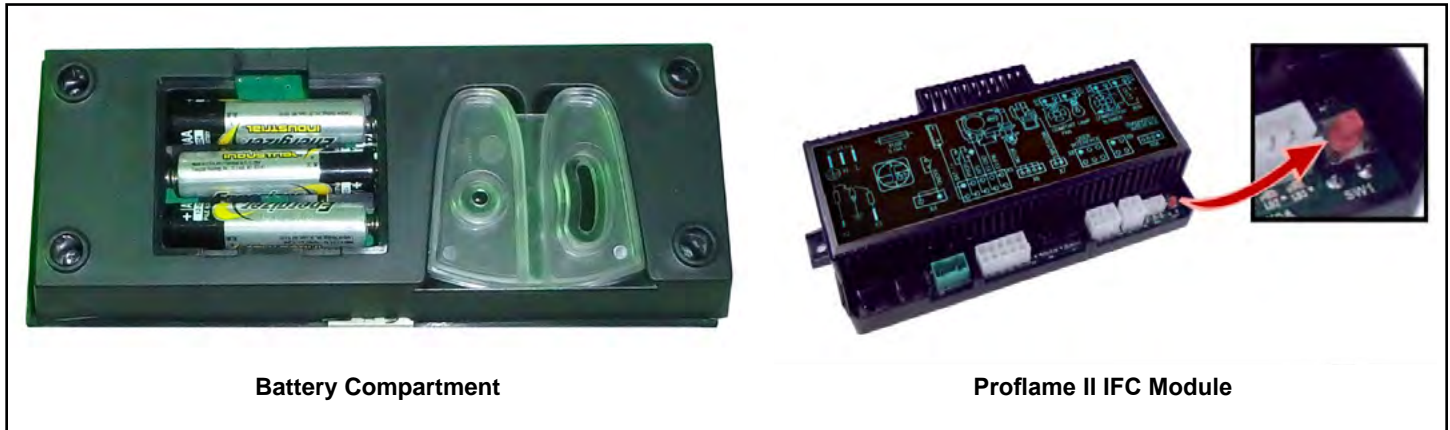


Figure 19.5.04:

### Turn "ON" the Appliance

With the system OFF, press the ON/OFF Key on the Remote. The Remote display will show other active icons on the screen. At the same time the Receiver will activate the appliance. A single "beep" from the receiver will confirm reception of the command.

### Turn "OFF" the Appliance

With the system ON, press the ON/OFF Key on the Remote. The Remote display will show the current room temperature. At the same time the Receiver will turn the appliance off. A single "beep" from the receiver will confirm reception of the command.

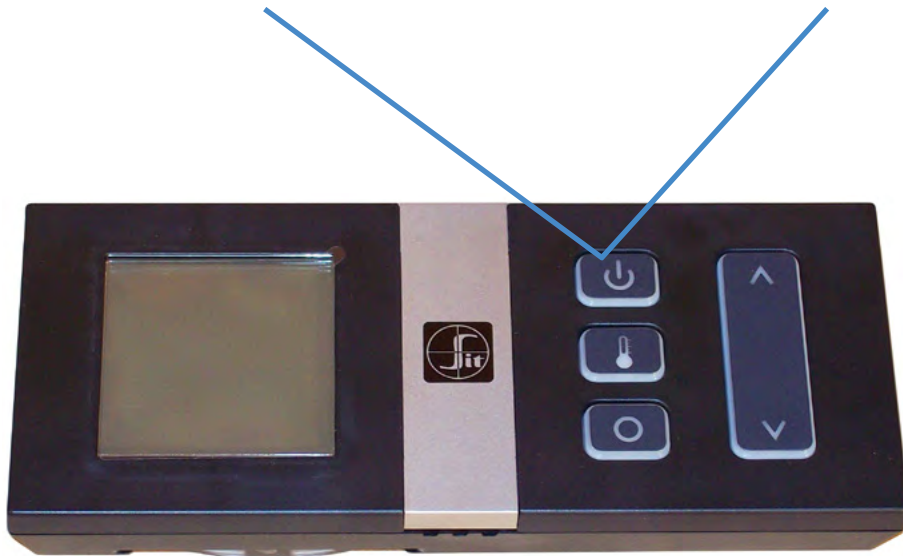


Figure 19.5.05:



# Operation

## Temperature Indication Display

With the system in the “OFF” position, press the Thermostat Key and the Mode Key at the same time to switch between Fahrenheit (F) or Celsius (C). Verify on the LCD screen the correct designation is visible.

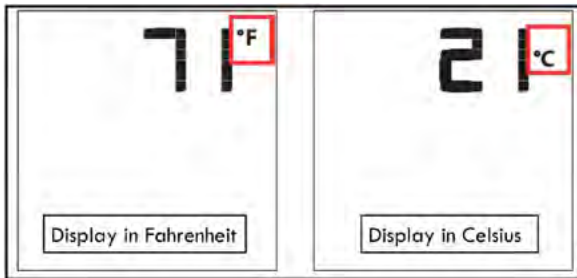


Figure 19.5.06:

## Variable Flame Control

This function is disabled when in SMART Thermostat Mode and does not operate in the first two minutes of operation during the Dynamic Start Advantage.

The Proflame IFC has six (6) flame levels. With the system “ON” and the flame at maximum in the appliance, pressing the Down Arrow Key once will reduce the flame height by one step. Repeat to lower the flame till “OFF”. With flame OFF in this configuration, the fan will still be operational.

The UP Arrow Key will increase the flame height each time it is pressed.

If the UP Arrow Key is pressed while the system is on but the flame is off, the flame will activate in the high setting.

A single “beep” will confirm reception of the command.

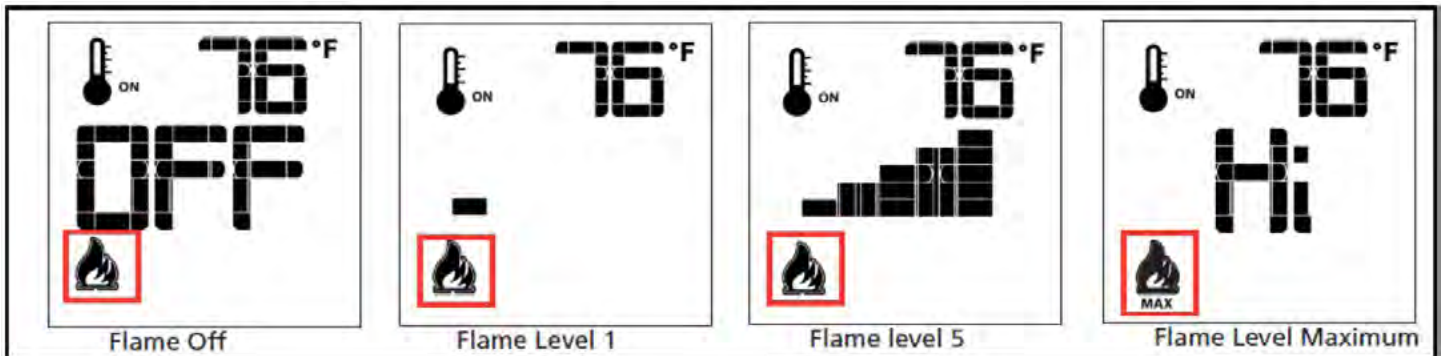


Figure 19.5.07:

## Fan Speed Control

If the appliance is equipped with a hot air circulating fan, the speed of the fan can be controlled by the Proflame system. The fan speed can be adjusted through six (6) speeds. To activate this function use the Mode Key to index to the fan control icon. Use the Up/Down Arrow Keys to turn on, off or adjust the fan speed. A single “beep” will confirm reception of the command.

In manual mode the fan will activate immediately upon burner ignition. Adjust the fan speed to personal preference. Blower will shut off when the burner is extinguished.

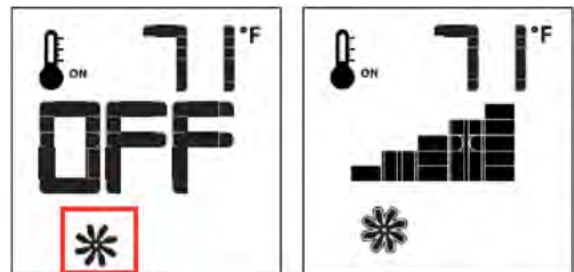


Figure 19.5.08:

# Operation

## Room Thermostat (Remote Operation)

The Remote Control can operate as a room thermostat. The thermostat can be set to a desired temperature to control the comfort level in a room.

To activate this function:

- Press the Thermostat Key. The LCD display on the remote will change to show that the room thermostat is "ON" and the set temperature is now active
- To adjust the temperature, press the Up/Down Arrow Keys until the desired temperature is displayed

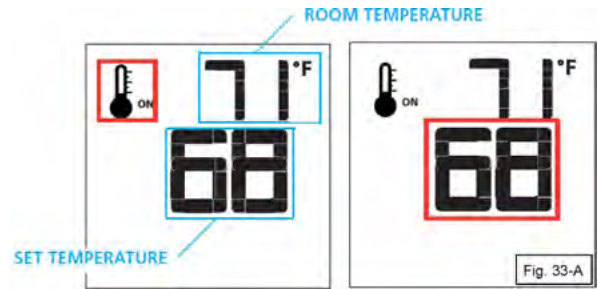


Figure 19.5.09:

## SMART Thermostat (Remote Operation)

The Smart Thermostat function adjusts the flame height automatically in accordance to the difference between the set point and the actual room temperature. As the room temperature approaches the set point, the Smart Function will modulate the flame down.

To activate this function:

- Press the Thermostat Key until the word "SMART" appears to the right of the temperature bulb graphic
- To adjust the set temperature, press the Up/Down Arrow Keys until the desired set temperature is displayed

## NOTE

When the fireplace is started in Smart Thermostat mode:

1. The fan will automatically activate 5min after ignition and shut down 12min after fire is turned off.
2. Manual Flame height adjustment is disabled.

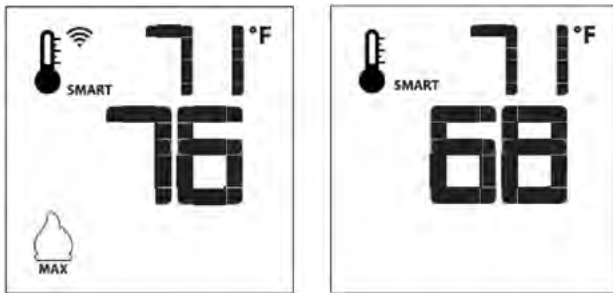


Figure 19.5.10:

# Operation

## Continuous Pilot on Demand / Intermittent Pilot (CPI/IPI) Selection

With the system in “OFF” position press the Mode Key to index to the CPI mode icon.

Pressing the UP Arrow Key will activate the Continuous Pilot on Demand Ignition mode (CPI). Pressing the Down Arrow Key will return to IPI. A single “beep” will confirm the reception of the command.

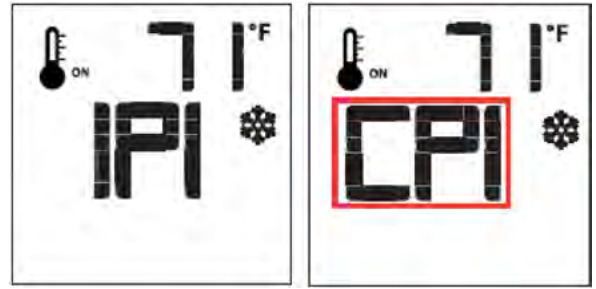


Figure 19.5.11:

### CPI vs IPI:

**Continuous Pilot on Demand Ignition (CPI):** In this mode the pilot runs continuously even when the main burner is off. The Continuous Pilot on Demand Ignition operates on a seven day cycle. If the main burner is not turned on for seven continuous days, the pilot will turn itself off. When the main burner is lit again the cycle repeats. The pilot will remain lit for seven days, even after the main burner is turned off. If the main burner is lit during a seven day timing cycle, the seven day timer will reset.

**Intermittent Pilot Ignition (IPI):** A fuel saving mode in which the pilot is only used when the main burner is on.

This appliance is shipped in IPI mode. IPI mode is often the preferred method, however, there are some situations where it may be preferable to switch the fireplace into CPI mode. For example, in colder climates the glass door or the front of the fireplace could become very cold to the touch. Dynamic Start Advantage will solve most problems experienced by older IPI operated fireplaces.

### Automatic Safety Shut-Off

This system will execute an automatic turn OFF command after a 24hr continuous main burner flame ignition. This allows the system to verify correct safety functions.

### Diagnostic Indications Information

#### LOW BATTERY CONDITION (Less than 4V):

##### Remote Control

- Battery Icon will appear on LCD remote control display. Replace batteries.

##### Battery Back-up

- Red LED indicator will enter a (1) blink sequence. IFC Module will emit a double-beep when it receives an ON/OFF command from the hand held remote. Replace batteries.

##### Pilot Flame Error Condition:

- Red LED Indicator will commence a (2) blink sequence. Contact your dealer if this occurs.

##### System Lock Out Condition:

- Red LED Indicator will commence a (3) blink sequence. Make sure your gas is turned on.
- Make sure pilot sensor is not shorted out.
- If the system is in a locked state, reset the IFC module as follows: Turn off all power to the IFC module for at least 2 seconds (including the backup battery pack), then restore power to the IFC module.

# Operation

## Key Lock

This function will lock the keys to avoid unsupervised operation.

- To activate this function, press the MODE and UP Keys at the same time
- To deactivate this function, press the MODE and UP Keys at the same time

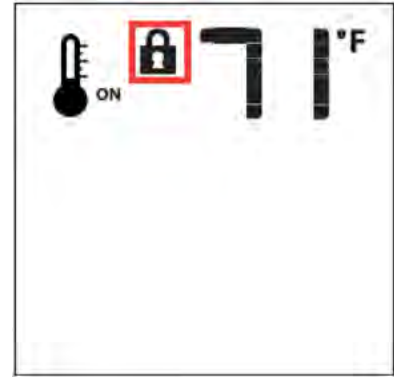


Figure 19.5.12:

## Low Battery Power Detection (Less than 4V)

### Remote

The life span of the remote control batteries depend on various factors:

- Quality of the batteries used
- The number of ignitions of the appliance
- The number of changes to the room temperature set point, etc

When the Remote batteries are low, a Battery Icon will appear on the LCD display of the Remote before all battery power is lost. When the batteries are replaced this Icon will disappear.



Figure 19.5.13:

## BACKUP BATTERY PACK (used when 120V home electrical power is interrupted):

- Red LED indicator on the IFC Module will enter a (1) blink sequence
- Backup batteries lifespan depends on various factors including battery quality, number of ignitions, changes to room thermostat set point, etc. When batteries are low, a double beep will be emitted from the IFC control module when it receives an ON/OFF command from the remote control
- This is an alert for a low battery condition of the backup batteries and after this double-beep warning, no commands will be accepted until batteries are replaced
- When batteries are replaced a beep will be emitted from IFC control module as soon as powered

## 20.0 Maintenance

### CAUTION:

Do not conduct maintenance on the appliance while it is operating or while it is still hot. Always verify proper operation after servicing.

### 20.1 Cleaning and Routine Maintenance

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
- 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
- After cleaning, the logs and embers must be replaced according to the instructions in this manual
- 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 **Figure 20.5.01**
- 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 venting instructions, **Section 13.0**)
- 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.**



## 20.2 Servicing Under Warranty

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

## 20.3 Checking Inlet and Outlet Pressure

1. Remove the surround.
2. The pressure test taps are located on the valve's front face. The inlet is marked 'IN' and the outlet is marked 'OUT'. See **Figure 20.3.01**.
3. Loosen the set screw inside the tap with a 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.

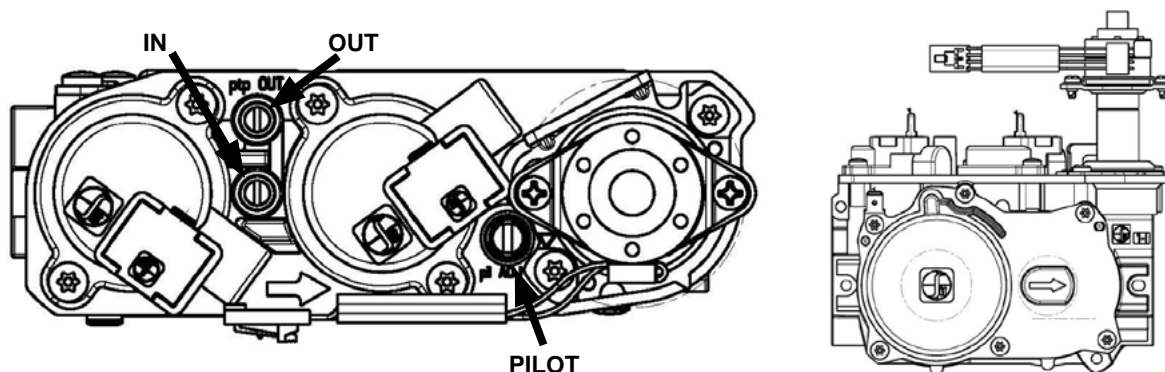


Figure 20.3.01

## 20.4 Checking and Adjusting Pilot

The pilot flames should have the characteristics shown in the illustration to the right.

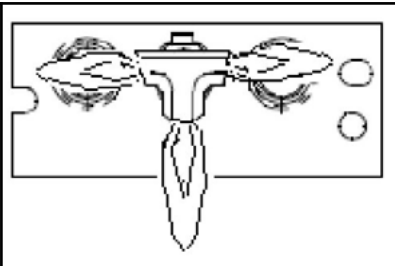


Figure 20.4.01

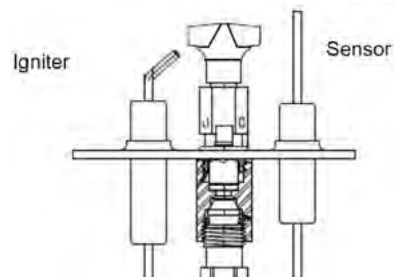


Figure 20.4.02

The flame should not have yellow tips but should engulf the flame sensor and spark electrode. It can be adjusted by turning the screw marked "pilot" on the control valve (See **Figure 20.3.01**).

## 20.5 Adjusting the Primary Air

Your fireplace includes an air shutter located under the door of the fireplace which may be used to adjust the primary air to achieve the ideal flame as shown in **Figure 20.5.01**. To adjust, use a 7/16" socket driver to turn the air shutter bolt head as shown in **Figure 20.5.02**. To open the air shutter and increase air flow to the burner, turn the adjustment screw clockwise. To close the air shutter and decrease air flow to the burner, turn the adjustment screw counterclockwise.

**CAUTION:** Do not adjust primary air below specified opening on the rating plate.

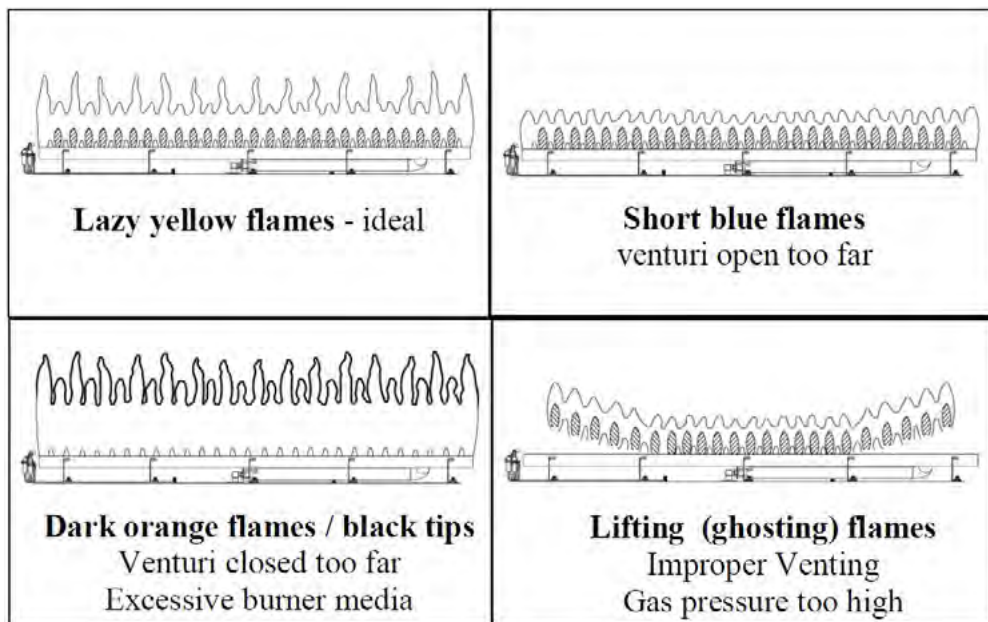


Figure 20.5.01:

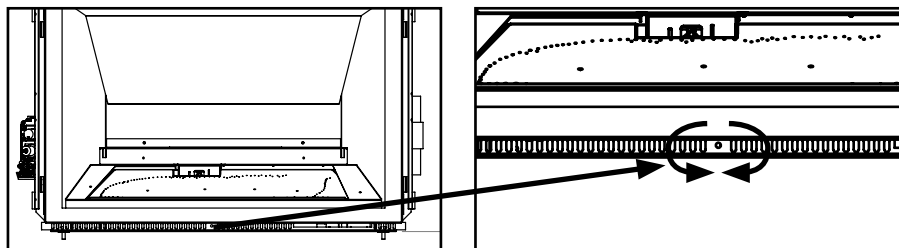


Figure 20.5.02:

## 20.6 Replacing Batteries

1. Ensure the fireplace is off and cool before servicing.
2. Disconnect power supply to the fireplace.
3. Remove the fireplace surround.
4. Remove the battery holder from the velcro strap on the control board.
5. Remove the expired batteries and replace.
6. Wrap the battery holder neatly in the velcro strap on the control board
7. Replace the surround and resupply power.
8. Light the fireplace to verify proper operation.

**Battery Specifications:** 4 x AA Batteries

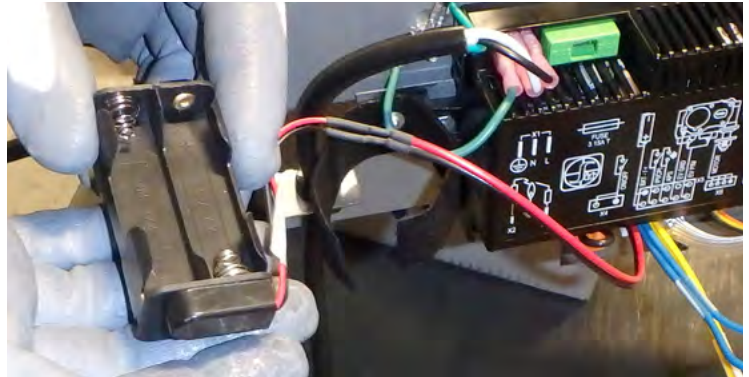


Figure 20.6.01:

## 20.7 Replacing Fuse

1. Ensure the fireplace is off and cool before servicing.
2. Disconnect power supply to the fireplace (including batteries).
3. Remove the fireplace surround.
4. Remove fuse holder using needle nosed pliers (if necessary).
5. Replace the fuse with one which has the same specifications using the existing fuse holder.
6. Replace the fuse holder
7. Replace surround and resupply power.
8. Light the fireplace to verify proper operation.

**Fuse type:** T3.15AL250V

**Archgard Part Number:** RP-305-2080



Figure 20.7.01:

## 20.8 Replacing the Control Board

**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.**

1. Disconnect power supply to the fireplace (including batteries).
2. Ensure the fireplace is off and cool before servicing.
3. Remove the fireplace surround.
4. Label all wires connected to the control board.
5. Disconnect all wires connected to the control board.
6. Remove nuts securing the control board at each end.

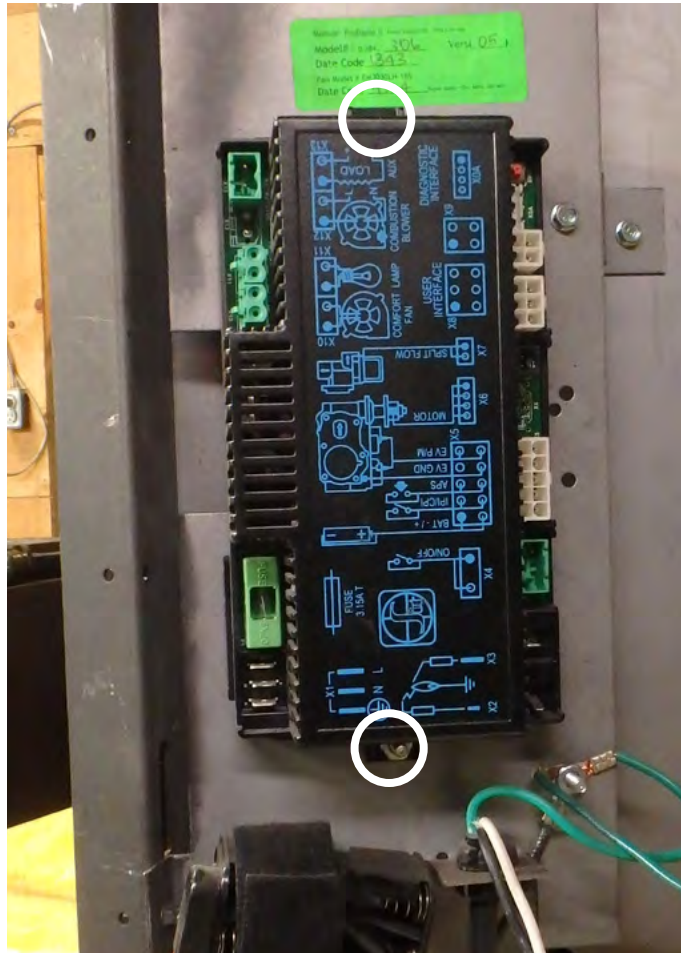


Figure 20.8.01:

7. Install new control board using nuts previously removed.
8. Reconnect wires. Ensure all wiring is correct as labeled in step 4 above.
9. Replace surround and resupply power.
10. Light the fireplace to verify proper operation.



## 20.9 Replacing the Valve

### Before you begin:

- Disconnect power (including batteries) and gas supply to the fireplace.
- Ensure the fireplace is off and cool before servicing.
- Remove the fireplace surround.

Installation is the reverse of removal.

**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation and test for any gas leaks 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.**

1. Unplug the valve motor from the wiring harness and unplug any wires from the valve.

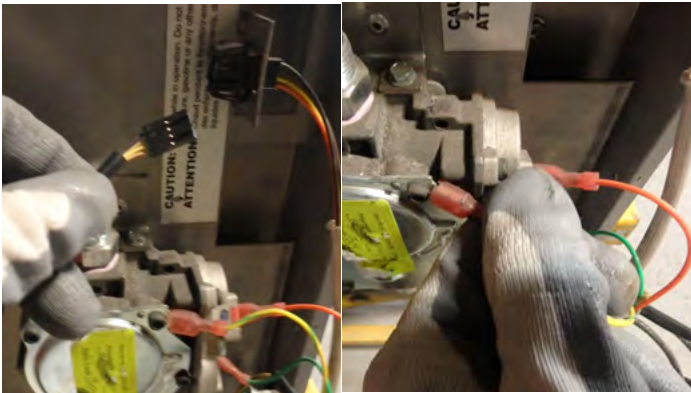


Figure 20.9.01:

2. Remove the burner gas line.



Figure 20.9.02:

3. Remove the pilot gas line.



Figure 20.9.03:

4. Remove the (2) screws securing the valve on top.

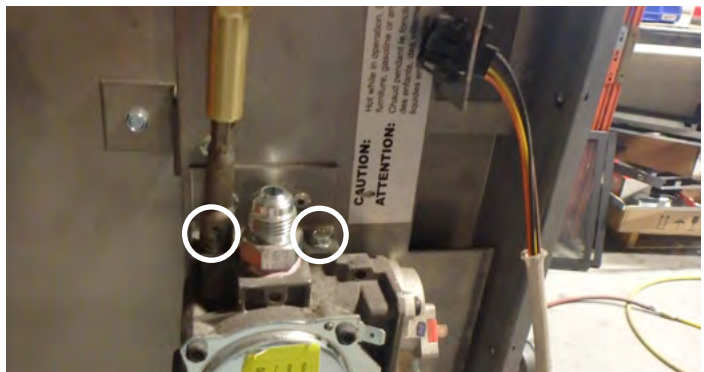


Figure 20.9.04:

5. Lift the valve from the retaining bracket.



Figure 20.9.05:

6. Remove the lower valve bracket and add to the new valve using screws previously removed.

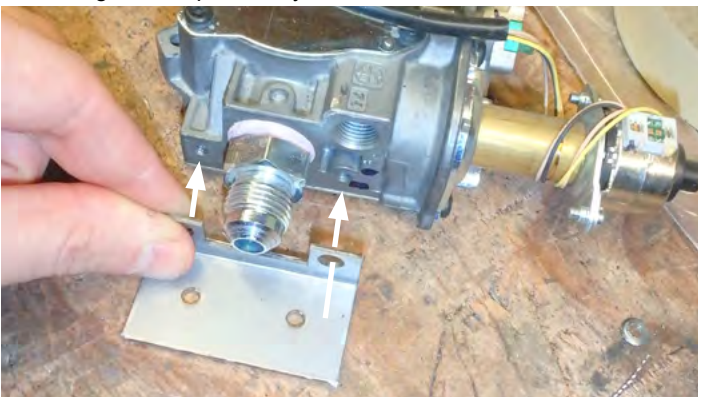


Figure 20.9.06:

## 20.10 Replacing the 31-DVIE33LN-3 Log Burner

### Before you begin:

- Ensure the fireplace is off and cool before servicing
- Disconnect power supply to the fireplace (including batteries)
- Turn off gas supply
- Remove the fireplace surround
- Remove barrier screen. See **Section 14.0**
- Remove door assembly. See **Section 15.0**
- Remove burner media. See **Section 18.0**
- Remove panel set. See **Section 17.0**

1. Remove the Pilot Shield.

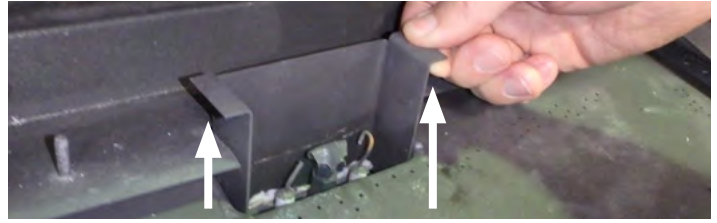


Figure 20.10.01:

2. Remove (2) 1/4" tek screws to remove the log burner surround.



Figure 20.10.02:

3. Remove (2) 1/4" tek screws that secure the log burner.

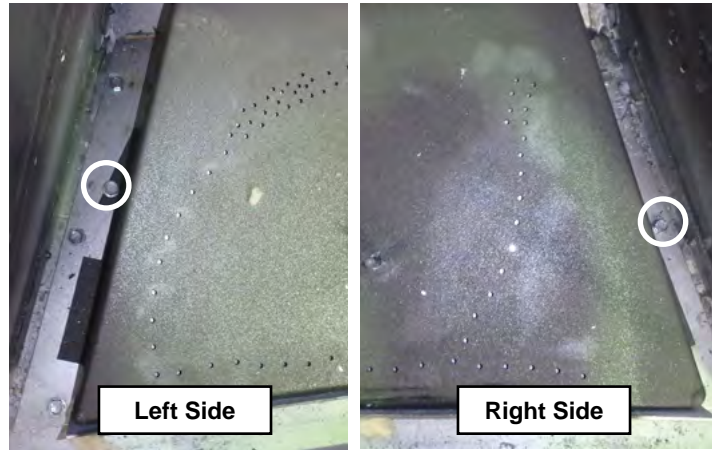


Figure 20.10.03:

4. Lift the burner and slide to the right. Then lift the burner up and out of the fireplace.



Figure 20.10.04:



Figure 20.10.05:



Figure 20.10.06:

### Installation is the reverse of removal.

Make sure the mixing tube on the NEW burner is aligned with the air shutter during install (see **Figure 20.10.05**).

The hole in the left side of the burner may be used to align the burner plenum with the orifice in the air shutter (see **Figure 20.10.06**).

Test the operation of the air shutter to ensure it moves freely.



## 20.11 Replacing the 31-DVIE33CN-3 Contemporary Burner

### Before you begin:

- Ensure the fireplace is off and cool before servicing
- Disconnect power supply to the fireplace (including batteries)
- Turn off gas supply
- Remove the fireplace surround
- Remove barrier screen. See **Section 14.0**
- Remove door assembly. See **Section 15.0**
- Remove burner media. See **Section 18.0**
- Remove panel set. See **Section 17.0**

1. Remove (2) 1/4" tek screws to remove each of the contemporary burner side brackets.



Figure 20.11.01:

2. Remove (3) 1/4" tek screws at the back of the burner.

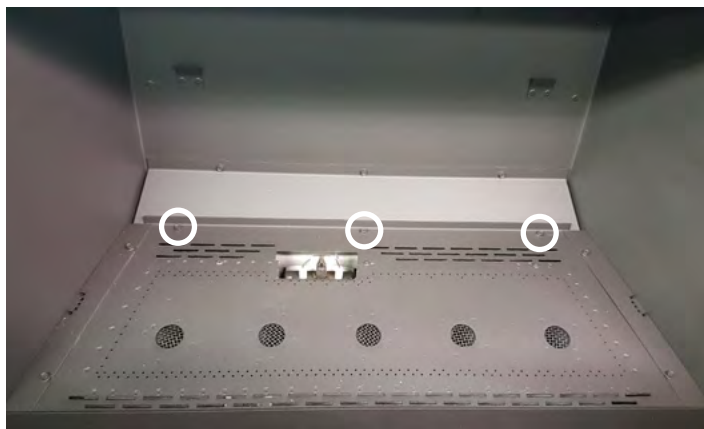


Figure 20.11.02:

3. Slide the burner to the right and lift the right side up and out to remove from the fireplace.



Figure 20.11.03:



Figure 20.11.04:

**Installation is the reverse of removal.**

Make sure the mixing tube on the NEW burner is aligned with the air shutter during install (see **Figure 20.11.04**).

Test the operation of the air shutter to ensure it moves freely.

## 20.12 Replacing the Pilot

**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation and test for any gas leaks 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.**

### Before you begin:

- Ensure the fireplace is off and cool before servicing
- Disconnect power supply to the fireplace (including batteries)
- Turn off gas supply
- Remove the fireplace surround
- Remove barrier screen. See **Section 14.0**
- Remove door assembly. See **Section 15.0**
- Remove burner media. See **Section 18.0**
- Remove panel set. See **Section 17.0**
- Remove the burner. See **Section 20.10** or **Section 20.11**

1. Remove the (2) 1/4 " hex head screws that secure the pilot.  
When reinstalling the pilot make sure to replace the gasket with a new ceramic gasket if required.



Figure 20.12.01:

2. Remove the access cover (section set at 45 degree angle) of the firebox by removing the (10) 1/4 " hex head screws and lifting out. When re-installing access cover make sure to replace the gasket with a new ceramic gasket if required.



Figure 20.12.02:

3. Remove the pilot gas line using a 7/16" wrench.



Figure 20.12.03:

4. Clip the zip ties securing the cables and remove the pilot.



Figure 20.12.04:



## Maintenance

5. Remove (9) 1/4" tek screws securing the bottom tray to aid in reinstallation. When reinstalling the bottom tray make sure to replace the gasket with a new ceramic gasket if required.

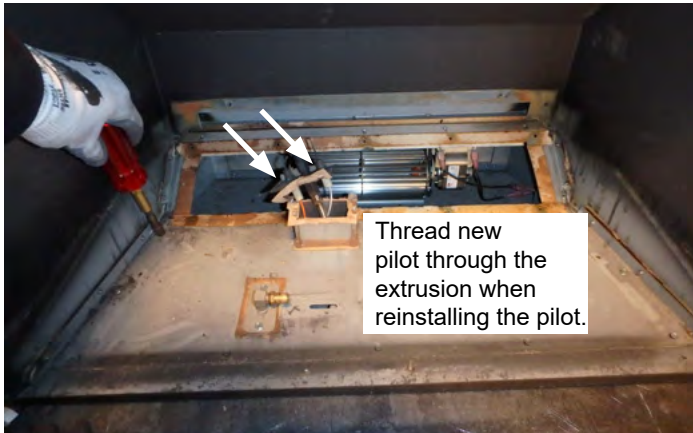


Figure 20.12.05:

6. Thread the wires through the opening on the bottom right side of the fireplace.



Figure 20.12.06:

Installation is the reverse of removal.

## 20.13 Replacing the Fan

**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation and test for any gas leaks 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. Remove batteries from the control board
- 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.

The convection fan can be accessed either through the front of the insert or through the back of the insert.

### TO ACCESS FROM THE FRONT

1. Remove the barrier screen. See **Section 14.**
2. Remove the glass door. See **Section 15.**
3. Remove the burner media. See **Section 18.**
4. Remove the burner. See **Section 20.10 or 20.11.**
5. Remove the access cover (section set at 45 degree angle) of the firebox by removing the (10) 1/4 " hex head screws and lifting out. When re-installing access cover make sure to replace the gasket with a new ceramic gasket if required.

6. Mark all wires to be removed for proper reassembly. Disconnect the wires.

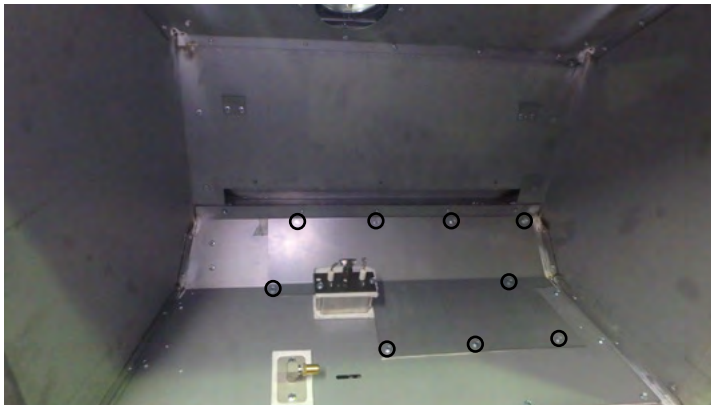


Figure 20.13.01:

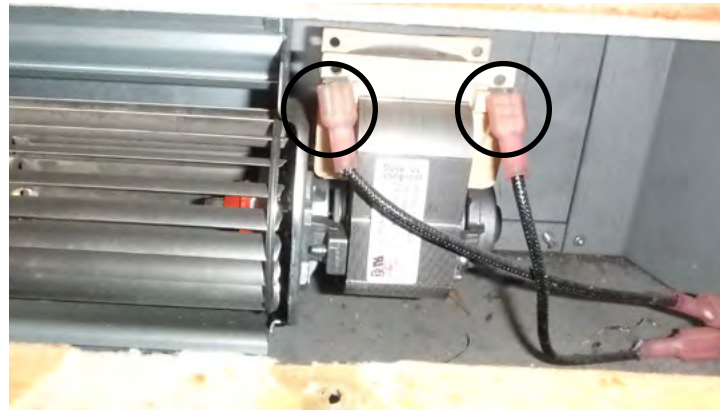


Figure 20.13.02:

7. Remove the four nuts holding the fan in place.

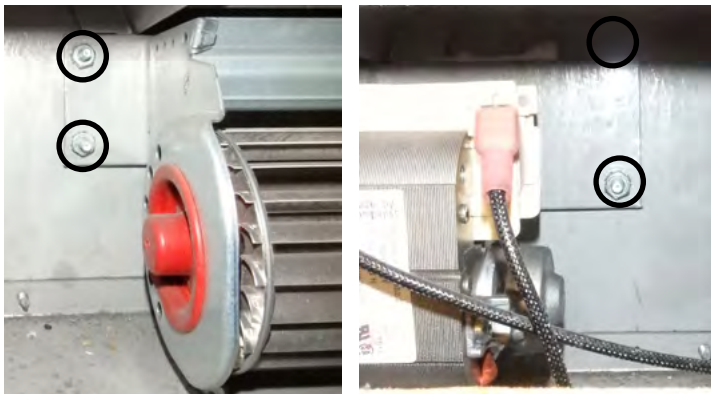


Figure 20.13.03:

Installation is the reverse of removal.

# Maintenance

**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation and test for any gas leaks 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.**

## TO ACCESS FROM THE BACK

1. Remove the surround by lifting up and forward.
2. Disconnect the gas line.
3. Disconnect the intake and exhaust liners
4. Remove the insert from the fireplace.
5. Remove 1/4" hex head screws and the cover plate at the back of the insert.
6. Remove the 1/4" hex head screws holding the fan bracket.
7. Disconnect the wires.

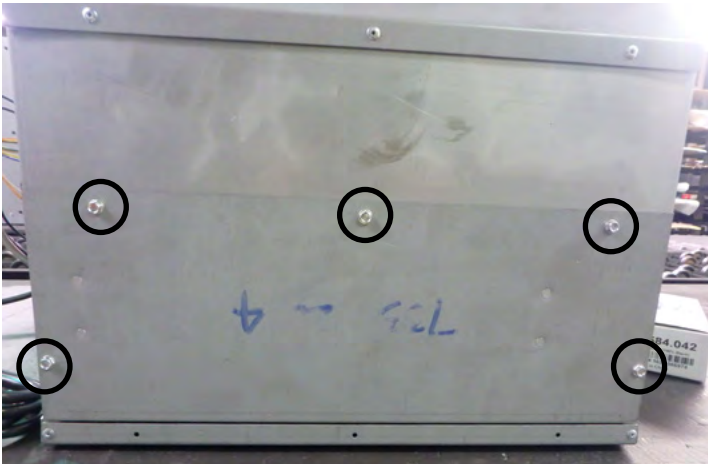


Figure 20.13.04:

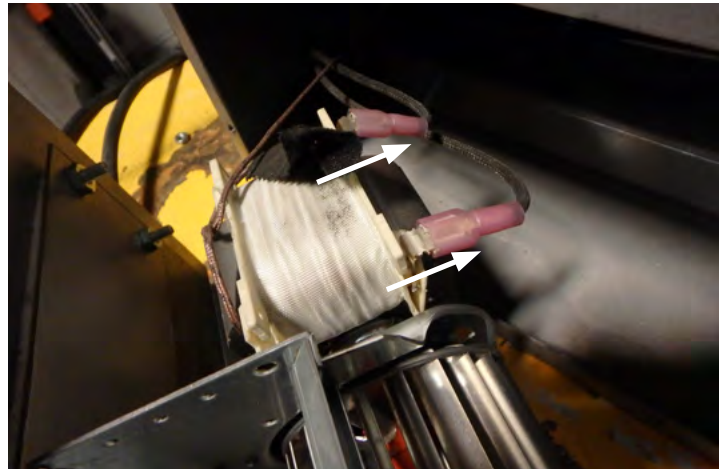


Figure 20.13.05:

8. Remove the 1/4" hex head screws holding the fan bracket.

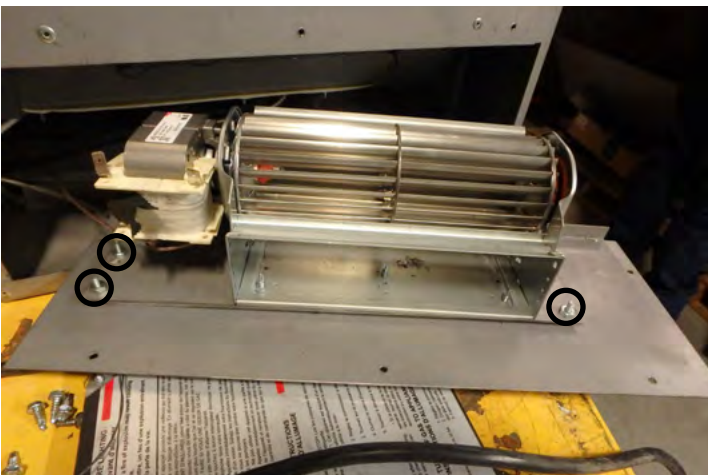


Figure 20.13.06:

Installation is the reverse of removal.

**Note:** follow the instructions in Section 13.0 of this manual when reinstalling the venting. Vent liners must be properly sealed.

The Air Intake Flex Liner must form a tight connection to the inlet air collars of the termination cap and the appliance.  
The Exhaust Flex Liner must form a tight connection to the exhaust collars of the termination cap and the appliance.





## 20.15 Troubleshooting

Issue	Solution
The pilot igniter won't spark.	<ol style="list-style-type: none"> <li>1. Ensure the ON/OFF override jumper is installed correctly.</li> <li>2. Ensure main power is ON and new batteries are installed in the remote control (3 x AAA) and backup battery pack on the control board (4 x AA).</li> <li>3. Make sure remote is synced with control board.</li> <li>4. Check the 3.15A fuse in the control board. Replace the fuse if necessary.</li> <li>5. Make sure remote is not in smart or thermostat mode.</li> <li>6. Ensure igniter wire is connected to the control board and is not damaged.</li> </ol>
The pilot igniter sparking, but the pilot will not light.	<ol style="list-style-type: none"> <li>1. Verify the inlet gas pressure is within acceptable limits.</li> <li>2. Check all connections to the gas valve.</li> <li>3. Ensure fuel supply valves and emergency shut-off valve are open.</li> <li>4. Check wiring connections from control board to valve.</li> <li>5. Check that the pilot is set to the correct fuel.</li> <li>6. Ensure pilot head is clear of debris.</li> </ol>
The pilot lights, but the main burner will not light.	<ol style="list-style-type: none"> <li>1. Check and verify all wiring connections match the wiring diagram.</li> <li>2. Verify the inlet and manifold pressure are within acceptable limits.</li> </ol>
The pilot lights, but the main burner will not light and igniter continues to spark.	<ol style="list-style-type: none"> <li>1. Check the pilot flame sensor rod and clean with steel wool or similar if dirty.</li> <li>2. Check the pilot hood and clean with steel wool if dirty.</li> <li>3. Ensure the flame sensor wire is plugged into the control board and is not damaged.</li> <li>4. Adjust pilot flame using the pilot adjustment screw if the pilot flame is too long or too short (the flame should fully engulf the sensor rod and must be stable).</li> <li>5. Check supply pressure.</li> <li>6. Ensure the ground wire from the pilot is connected to the fireplace ground location.</li> </ol>
The pilot was lit but will randomly go out.	<ol style="list-style-type: none"> <li>1. Turn the fireplace on again. If the fireplace is in continuous pilot on demand ignition mode, the system will turn off the pilot if the fireplace has not been used for seven days. You may also switch the fireplace to IPI mode (See <b>Section 19.5</b>).</li> <li>2. Have a service technician check for low inlet pressure.</li> </ol>
The flames on the main burner are low even though the remote is on high.	<ol style="list-style-type: none"> <li>1. Wait two minutes. Dynamic Start Advantage is designed to build a draft by starting on low and automatically increasing the flame size to the setting on the remote after two minutes. This system helps to create a better flame appearance, reduce condensation on the glass, and provide years of carefree operation.</li> <li>2. Have a service technician check for low inlet pressure.</li> <li>3. Replace the valve motor.</li> </ol>
Fans do not work.	<ol style="list-style-type: none"> <li>1. Ensure main power is ON and the fireplace is plugged in (the fireplace may be operating on back up batteries).</li> <li>2. Check the 3.15A fuse in the control board and replace if necessary.</li> <li>3. Ensure the fans are connected to the control board.</li> </ol>
Control module beeps twice when On/Off button on remote is pressed and Red LED is On.	<ol style="list-style-type: none"> <li>1. Replace batteries in remote battery pack.</li> </ol>

**All service and repairs should be performed by a qualified and licensed service technician.**

## 21.0 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. This can be reduced if the appliance is left in CPI mode.

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. We recommend 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 plated trims.

A. We recommend 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 contact your local Archgard dealer to 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 “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 continue 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. 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 the fuel (natural gas or propane) the fireplace is setup for will create a potential fire hazard and present a danger to your home and its occupants and possibly void your manufacturer's warranty. 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. When in continuous pilot ignition on demand (CPI) mode the pilot will remain lit for seven days after the fireplace is used. When seven days have passed the system will turn the pilot off. When in IPI mode, the pilot will only remain on when the main burner is on.

Q. Why does my fireplace start with a low flame? Shouldn't the flame size match the remote setting?

A. Dynamic Start Advantage was designed to create a draft by starting the fireplace on low and automatically increasing the flame to match the remote setting after two minutes. This system helps to create a better flame appearance, reduce condensation on the glass, and provide years of carefree operation.

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, venting and the burner media or log set options shown in this manual. All of these items are tested and listed with a certification agency. Changing any specifications or placement of the logs could cause injury or damage, void your manufacturer's warranty, and possibly even your homeowner's warranty.

## 22.0 Replacement Parts List

Item #	Item Description	Unit
200-1131-14	Owner's Manual - English	EA
200-1131F-13	Owner's Manual - French	EA
308-6060	SIT Proflame II Dynamic Start Advantage with Continuous Pilot on Demand	EA
308-6024	SIT Pro Flame II Wall Mountable Remote	EA
308-6017	SIT 885 Gas Valve c/w Step Motor	EA
305-6002	Module Main Wiring Harness (5 wire)	EA
305-6003	Valve Wiring Harness (4 wire)	EA
305-0060	Battery Back-up	EA
RP-305-2080	Fuse, 3.15A, 250V (Pack of 5)	EA
301-0068-33	Orifice (Main Burner Orifice) Drill to # 33 DMS for Natural Gas	EA
301-0068-51	Orifice (Main Burner Orifice) Drill to # 51 for LP (Propane) Gas	EA
308-0123	Pilot Assembly, conv. PSE IPI (SIT connections)	EA
RP-831-0040	31-DVIE33LN-3 Traditional Burner Assembly	EA
831-0051	Contemporary Burner Assembly for 31-DVIE33CN-2 and 31-DVIE33CN-3	EA
31-CKENG	Conversion Kit LP to NG	EA
31-CKELP	Conversion Kit NG to LP	EA
RF-305-0024	Replacement Cross-flow Fan (120VAC, 115V, 24 watt)	EA
31-LS-CS	Classic High Definition Logset	EA
31-LS-GT	Grand Timber Premium Logset	EA
31-LS-WW	Weathered Wood Premium Logset	EA
831-0001	Complete Replacement Door. Includes glass, gasket and door frame	EA
31-BS-1	Barrier Screen	EA

POSTAGE

## 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 # : \_\_\_\_\_ Serial #: \_\_\_\_\_ Date Installed: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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](http://www.archgard.com/warranty-registration)*



## NOTES

[illegible]

## NOTES

[illegible]

## NOTES

[illegible]

# 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: "TEN 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

The above will be covered under "Parts & 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 thermostats
- Rocker switches, spill switches and wiring to them
- Gas control valves, pilot assemblies including thermopiles, thermocouples, electrodes and igniters
- Paint peeling or cracking

The above will be covered under "Parts & 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.



**ARCHGARD INDUSTRIES LTD.**

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

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