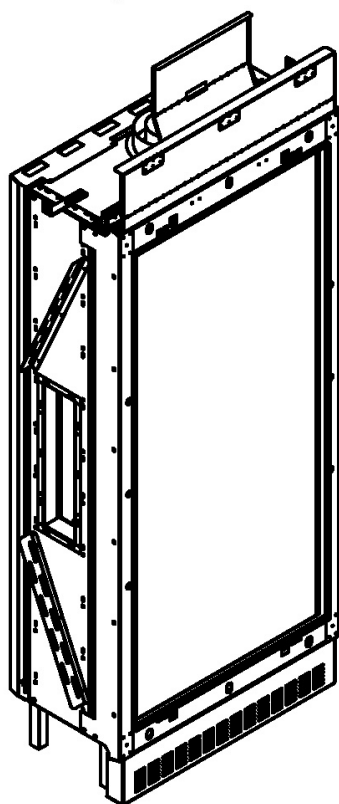
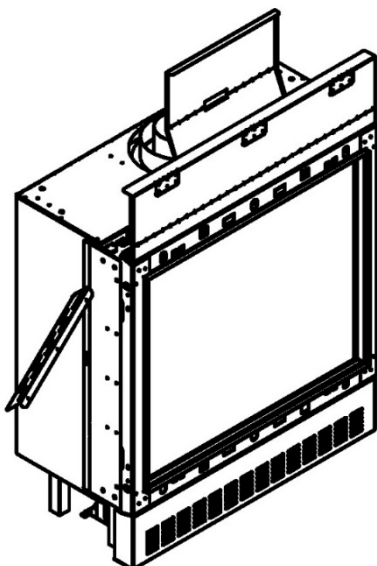




## Installation and Operation Manual Wilderness 31 Series



### Wilderness 31 Series Fireplaces:

Wilderness 31 Front

Wilderness 31H Front

Manufacturer Update:  
Serial #33183 and forward

#### **⚠ WARNING:**

##### **FIRE OR EXPLOSION HAZARD**

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

- **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **What to do if you smell gas:**
  - **DO NOT** try to light any appliance.
  - **DO NOT** touch any electrical switch. **DO NOT** use any phone in your building.
  - Leave the building immediately.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

# **! DANGER**



**HOT GLASS WILL  
CAUSE BURNS.**

**DO NOT TOUCH GLASS  
UNTIL COOLED**

**NEVER ALLOW CHILDREN  
TO TOUCH GLASS.**

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



## General

### Safety Information and Warnings



#### **IMPORTANT NOTE: LOCAL CODE**

Local codes and regulations that are more stringent than the requirements in this manual take precedence over Ortal requirements.



#### **WARNING: REVIEW ALL WARNINGS**

Be sure to review all safety warnings and installation guidelines contained in this manual. Consider installation location, vent configuration, clearances, structural requirements, framing and finish materials, and local codes. ALL warnings and instructions apply to all products manufactured and distributed by Ortal.



#### **WARNING: DO NOT OPERATE FIREPLACE IF:**

The glass is NOT properly secured in place; Connection points are not sealed (for fireplaces with glass-to-glass connections); Glass is cracked; You smell gas; Any part of the fireplace has been under water; You have any doubt about safe operation of the fireplace. Immediately call a qualified, professional service technician to inspect the fireplace and to replace any parts of the control system and any gas controls which have been underwater.



#### **WARNING: ELECTRICAL GROUNDING**

All electrical connections must be properly installed, insulated, and secured to avoid potential **ELECTRICAL SHOCK** and **FIRE HAZARD** and malfunction of the system. Consult local building code requirements. In the absence of local codes, refer to the National Electric Code, ANSI/NFPA 70, or the Canadian Electric Code, CSA C22.1.



#### **WARNING: MATERIAL USAGE**

All materials and objects used to carry out the installation must be certified/approved or specified by Ortal and are suitable for use. Do NOT install the system with different materials or objects than those approved for installation by Ortal.



#### **WARNING: INSTALLATION AND SERVICE**

Installation and repairs on the fireplace and vent system must be done by an authorized Ortal qualified installer service agency or gas supplier. If these components are not installed by an authorized Ortal dealer/installer, the warranty of all components will be void and Ortal will not be responsible for any damage caused by improper installation. The fireplace 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 material, etc. Control compartments, burners and circulating air passageways of the fireplace must be kept clean. Any alteration to the product can cause soot or carbon to form and may result in damage. This damage and any other damage that results from not following the instructions outlined in this manual is not the responsibility of Ortal.



#### **WARNING: HEAT BARRIER**

A barrier designed to reduce the risk of burns from hot viewing glass is provided with this fireplace and shall be installed. The fireplace **MUST** not be used without the heat barrier in place. If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this fireplace. **Any safety screen, guard, or barrier removed for servicing the fireplace must be replaced before operating.**



#### **WARNING: FIREPLACE TEMPERATURE**

Due to hot temperatures, the fireplace 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 should stay away to avoid burns or clothing ignition. Clothing or other flammable material should not be placed on or near the fireplace. **Young children should be carefully supervised when they are in the same room as the fireplace.** 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.



#### **WARNING: GLASS HANDLING**

Only an Ortal certified installer is authorized to remove the glass using an 8-inch glass-handling suction cup.



#### **WARNING: INSTALLATION AND OPERATION**

The fireplace and accompanying components must be installed as an OEM installation in manufactured homes (USA only) or an aftermarket permanently located, or a mobile home, where not prohibited by local codes. The fireplace must be installed in accordance with the Manufacturer's instructions and the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, in the United States, or the Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series, in Canada. **Exceeding the restrictions imposed in these instructions may result in a fire or explosion, causing property damage, personal injury, or loss of life. Ortal will not be responsible for any damage caused by improper installation. Do not store or use gasoline or other flammable vapors and liquids near this fireplace.**



#### **WARNING: GAS FIREPLACE**

This fireplace is for use only with the type of gas indicated on the rating plate. These fireplaces are not convertible for use with other gases unless a certified kit is used, and the conversion is performed by an authorized and qualified technician. Applicable standards are Vented Gas Fireplace Heaters ANSI Z21.88 / CSA 2.33a and Gas-fired Fireplaces for Use at High Altitudes CAN/CGA 2.17-M91



#### **WARNING: CALIFORNIA PROP 65**

These products and the fuels used to operate these products (liquid propane or natural gas), and the products of combustion of such fuels, can expose you to chemicals including benzene, carbon monoxide, and ceramic fibers, which are known to the state of California to cause cancer and/or reproductive harm. For more information, visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

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“→” Denotes new or changed information from most recent version manual.

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## Product Information

### Models

The Wilderness 31H does NOT have a light kit due to the height of the fireplace. Lights are only included and available for the Wilderness 31.

Series	Model	Firelog Burner	Certification Standard	Gas Types	Direct Venting
Wilderness 31	31 Front 31H Front	Dark Brown or Chopped Wood Firelogs	US: ANSI Z21.88-2019 Canada: CSA 2.33	Natural Gas or Propane	<b>Standard:</b> <b>Type:</b> Passive Vent <b>Vent Size:</b> 5"x8" (co-axial)
		Driftwood, Valley Oak, or Birch Firelogs			<b>Optional:</b> <b>Type:</b> Power Vent <b>Vent Size:</b> 3"x5" (co-axial)

### NOTES:

- For information on Power Venting, please refer to the Power Vent System Installation and Operation Manual.
- Venting is not supplied by Ortal with the fireplace. The fireplace is certified to be used with, and can be obtained from, the vent manufacturers outlined in "→General Venting Requirements" section.

### Certification

Wilderness 31 series fireplaces have been tested and approved by CSA Group for safety and efficiency for use with Natural Gas (NG) and Propane (LP) only, and **NOT** for use with solid fuels.

**CSA Group is approved by the American National Standards Institute (ANSI) as an Accredited Standards Developer.**

#### Certification Standard:

**US: ANSI Z21.88 – 2019: Vented Gas Fireplace Heaters**

**Canada: CSA 2.33 – 2019: Vented Gas Fireplace Heaters**



#### Products:

CLASS 2901 84: DOMESTIC HEATERS (GAS) Vented Fireplace: Certified to US Standard

CLASS 2901 04: DOMESTIC HEATERS (GAS) Vented Fireplace

The fireplaces are permitted for indoor use only. "Indoor" is defined as a conditioned space. The fireplaces are not approved for outdoor or partial outdoor installation. The fireplaces must be installed while maintaining required clearances. Installation is recommended in living spaces such as bedrooms, living rooms, great rooms, etc. The fireplaces are not approved for closet installation. The fireplace must be installed according to Ortal requirements in addition to any local codes that may apply, such as USA: ANSI Z223.1/NFPA 54, Canada: CSA B149.

### IMPORTANT:

- Consult the authority having jurisdiction to determine the need for a permit prior to starting the installation.
- It is the responsibility of the fireplace dealer and installer to ensure that this fireplace is installed and framed in compliance with these instructions and all applicable codes.
- Before starting, take careful note of **ALL** the **WARNINGS** in this manual.

## Rating Label




The fireplace rating label is found on a separate metal plate that is included with the fireplace.

**DEALERS/INSTALLERS:** You **MUST** leave the fireplace's rating label with the fireplace in an area easily accessible by the owner (typically near the access panel, if available). You must instruct the owner before handing over the fireplace where this label can be found.

**OWNERS:** Make sure the installer leaves your fireplace's rating label in an area that is easily accessible for you. This information is required for servicing and receiving replacement parts.

		  	
Manufacturer/Fabricant Ortal Ltd. 14 Haharash St. Hod Hasharon, 4524087 Israel Tel: 011-972-9-7402828 Fax: 011-972-9-7402687		For use only with vent, glass and interior design media certified and approved for use with the appliance. Not for use with solid fuel. For use with barriers certified for this appliance only.  Utilisez uniquement avec des conduits, des panneaux vitrés et des accessoires décoratifs intérieurs homologués et approuvés pour une utilisation avec cet appareil. Pas pour l'usage avec le combustible solide. Pour une utilisation avec des barrières certifiées pour cet appareil uniquement.	
Serial No.:	<input type="text"/>	Approved By: Homologué Par:	CSA No.: 2358468
Tested to: CSA/ANSI Z21.88-2019 • CSA 2.33-2019 for Vented Gas Fireplace Heater Examiné à: CSA/ANSI Z21.88-2019 • CSA 2.33-2019 pour Poêles-foyers ventilés			
Altitude rating: Estimation d'altitude:	0-2000 ft. / 0-610 m.	Electrical Rating: Estimation Électrique:	120 volt / 60 Hz / less than 5A
<b>Model Series / Modèle Séries: Wilderness Driftwood 45-3</b>			
<input type="checkbox"/> Wilderness 25H FR/RS/LS/TS/SA/TU <input type="checkbox"/> Wilderness 36 H FR/RS/LS/TS <input type="checkbox"/> Wilderness TR36s <input type="checkbox"/> Wilderness 22 <input type="checkbox"/> Wilderness Curve/Tunnel <input type="checkbox"/> Wilderness TR36 <input type="checkbox"/> Wilderness 31 FR/TU <input type="checkbox"/> Wilderness TR28i <input type="checkbox"/> Wilderness TR42 <input type="checkbox"/> Wilderness 31 H FR/TU <input type="checkbox"/> Wilderness TR30 <input type="checkbox"/> Wilderness TR51 <input type="checkbox"/> Wilderness Island 28			
Fuel Type/Type de combustible:	<input type="checkbox"/> NG/GN	<input type="checkbox"/> PROPANE	
Max Input / Débit max. (BTU/HR):	32,768	27,645	
Min Input / Débit min. (BTU/HR):	16,781	18,745	
Orifice Size / Taille de l'orifice:	320-180-320 260	80-60-80 90	
Gas Inlet Pressure (W.C.) inches: Pression d'entrée de gaz (CE) pouces:	11.0	13.0	
Gas manifold Pressure (W.C.) inches: Pression d'alimentation (CE) pouces:	3.7	4.9	
Clearances to Combustibles (with included standoffs): Espace par rapport aux matériaux inflammables (avec entretoises inclus):	Sides: Côtés:	0"	Back: Arrière:
		0"	In front of Glass Devant le panneau vitré:
			16"
Also adhere to clearance diagrams and instructions included in the ORTAL manual. Adhérer également aux schémas d'espacement et des instructions figurant dans le manuel ORTAL.			
SKU: M209-WD45-3-22			

### Driftwood/Valley Oak/Birch Rating Label

		  	
Manufacturer/Fabricant Ortal Ltd. 14 Haharash St. Hod Hasharon, 4524087 Israel Tel: 011-972-9-7402828 Fax: 011-972-9-7402687		For use only with vent, glass and interior design media certified and approved for use with the appliance. Not for use with solid fuel. For use with barriers certified for this appliance only.  Utilisez uniquement avec des conduits, des panneaux vitrés et des accessoires décoratifs intérieurs homologués et approuvés pour une utilisation avec cet appareil. Pas pour l'usage avec le combustible solide. Pour une utilisation avec des barrières certifiées pour cet appareil uniquement.	
Serial No.:	<input type="text"/>	Approved By: Homologué Par:	CSA No.: 2358468
Tested to: CSA/ANSI Z21.88-2019 • CSA 2.33-2019 for Vented Gas Fireplace Heater Examiné à: CSA/ANSI Z21.88-2019 • CSA 2.33-2019 pour Foyer au gaz à évacuation			
Altitude rating: Estimation d'altitude:	0-2000 ft. / 0-610 m.	Electrical Rating: Estimation Électrique:	120 volt / 60 Hz / less than 5A
<b>Model Series / Modèle Séries: Wilderness Dark Brown/Chopped Wood</b>			
<input type="checkbox"/> Wilderness 25 Front RS/LS/TS/SA <input type="checkbox"/> Wilderness 25H Front RS/LS/TS/SA <input type="checkbox"/> Wilderness Traditional 36S <input type="checkbox"/> Wilderness Traditional 28i <input type="checkbox"/> Wilderness Traditional 36 <input type="checkbox"/> Wilderness 31 <input type="checkbox"/> Wilderness Traditional 42 <input type="checkbox"/> Wilderness Curve Tunnel <input type="checkbox"/> Wilderness Curve			
Fuel Type: Type de combustible:	<input type="checkbox"/> NG/GN	<input type="checkbox"/> PROPANE	
Max Input / Débit max. (BTU/HR):	29,861	24,130	
Min Input / Débit min. (BTU/HR):	12,613	18,120	
Orifice Size / Taille de l'orifice:	220-160-220 180	90-60-90 80	
Gas Inlet Pressure (W.C.) inches: Pression d'entrée de gaz (CE) pouces:	7.0	11.0	
Gas manifold Pressure (W.C.) inches: Pression d'alimentation (CE) pouces:	4.7	4.7	
Clearances to Combustibles (with included standoffs): Espace par rapport aux matériaux inflammables (avec entretoises inclus):	Sides: Côtés:	0"	Back: Arrière:
		0"	In front of Glass Devant le panneau vitré:
			16"
Also adhere to clearance diagrams and instructions included in the ORTAL manual. Adhérer également aux schémas d'espacement et des instructions figurant dans le manuel ORTAL.			
SKU: M209-WILD-DBCW-3-22			

### Chopped Wood/Dark Brown Rating Label

## Stand-Offs

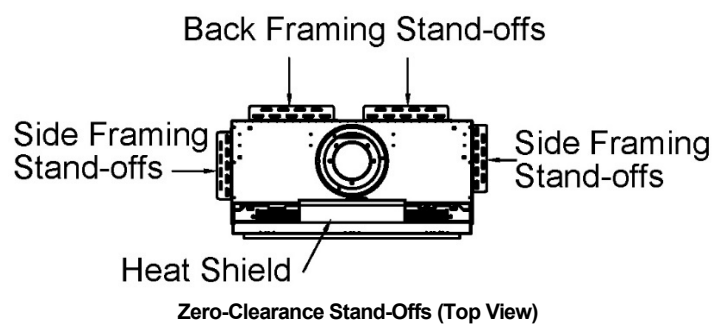
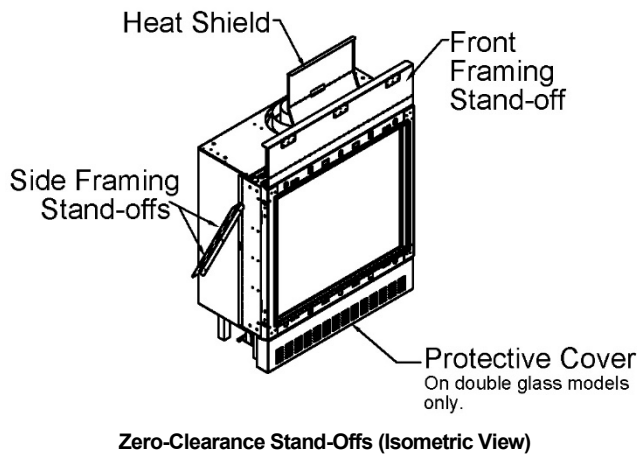
The fireplace has stand-offs fastened to the body of the fireplace as shown in the figures below. Stand-offs must be fully extended upon installation.

**Heat Shield:** Attached to the top front part of the fireplace. It is foldable at the attachment site on top of the fireplace and  $\frac{2}{3}$  to the top of the shield. The heat shield serves to direct the heat coming out of the heat barrier vents at the top of the fireplace and maintains clearance to the vent pipe.

**Side & Back Framing Stand-offs:** Attached to the sides and back of the fireplace. These stand-offs keep enough distance from the fireplace to the framing to allow for proper airflow inside the chase. These stand-offs can directly touch combustible framing.

**Front Framing Stand-offs:** Attached to the front top portion of the fireplace above the glass viewing area. It keeps a clearance above the heat barrier vents on the top of the fireplace to ensure proper air flow inside the chase. The top of this stand-off can directly touch combustible framing. Any framing in front of the stand-off must be non-combustible.

**Protective Cover:** Attached under the bottom front part of the fireplace to protect the double glass fans during shipping and installation. This cover is present on double glass models only and needs to be removed after setting the unit in place. Screen models do not come with a protective cover.



# Installation

## Prior to Installation

### Locate the Fireplace

Keep the following factors in mind when selecting a location for the fireplace:

- Fireplace clearance requirements (review “General Clearances” sections)
- Heat release and air intake requirements (review “Heat Release” section and “Air Intake Opening” section).
- Adequate space for servicing.
- Access panel recommendations (review “Access Panel” section).
- Minimum vertical vent rise, allowed horizontal lengths, and number and orientation of elbows (review “Venting” section).
- Framing and finishing requirements (review “Framing” section and “Finishing” section).
- Floor or Platform requirements (review “Chase Floor/Platform” section).

## Fireplace Installation

Use the following guidelines to ensure smooth installation. The installation sequence is divided into three phases: Planning, Installation, and Startup.

### Planning

Consult with the contractor and go over all requirements:

- Chase framing requirements.
- $\frac{5}{8}$ " Type X Drywall (or equivalent) requirements.
- Heat release requirements.
- Air Intake requirements (if applicable).
- Access panel size and location.
- Gas and electric specs and location.
- Vent configuration.
- Finishing details.



**NOTE:** Provide the contractor with a printed copy of the “Building Checklist” and review requirements with them.

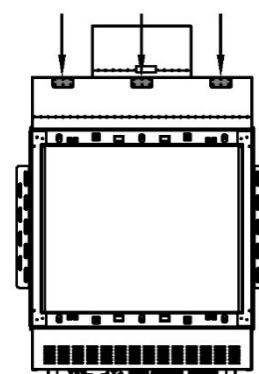
### Installation

- Confirm the following items are properly located and built to specification:
  - Framing (with  $\frac{5}{8}$ " Type X Drywall as applicable)
  - Platform
  - Gas and electric
  - Access panel (if applicable)
  - Heat release
  - Air intake (if applicable)
- Clear a path free of any possible obstruction to carry in the fireplace.
- Uncrate the fireplace and set in place.
- Make sure all zero-clearance metal stand-offs on the outside of the fireplace are fully extended.
- Secure the fireplace to the framing by attaching the nailing flanges to the framing. See “Securing the Fireplace” section below.
- Remove all zip ties.
- Optional: Remove gas and electrical components from metal shipping plate if desired.
- Move the components to the access panel location. Be mindful of the routing for future service needs.
- Install the vent components. See “Vent Installation” section.
- Review the front wall requirements (and finishing details with the contractor.
- Protect the fireplace and components from damage.

### Securing the Fireplace

The fireplace has nailing flanges attached to the face of the fireplace. The nailing flanges can be attached into the framing upon installation. It is crucial to the finishing that the fireplace is stable, level, and plumb.

For added stability (though not required), re-use the shipping brackets to secure the legs of the fireplace to floor/platform.



Nailing Flanges

### Vent Installation

Venting must be installed according to the requirements detailed in the “Venting” section of this manual in conjunction with the vent system manufacturer’s installation instructions. Venting must be supported by the structural surrounding and not by the fireplace. Each elbow must be strapped to reduce movement or possible disconnection.

The first section of venting must be secured to the fireplace starter collar with a minimum of 3 sheet metal screws no longer than 1/2". DO NOT use silicone to seal the sections. If sealing is required by the vent manufacturer or local code, use Mil-Pac sealant.

## Startup

---

- Perform a visual inspection to confirm that all work was completed correctly and per specification.
- Confirm that gas and electric are properly connected and live.
- Remove the safety barrier and glass and clean the inside of the fireplace.
- Install the Firelogs on the burner as specified in "Firelog Setups" section.
- Confirm the log placement is set up per specification.
- Confirm the fireplace is operating properly.
- Check remote-control setup.
- Remove protective layer from glass.
- Clean glass.
- Reinstall the glass and safety barrier.
- Review operation of the fireplace and remote control with the owner.
- Set up return visit to clean glass after the Initial Burning Period (see "Post-Installation" section below).

## Post-Installation

---

Complete the following post-installation steps.

### Initial Burning Period

---

There is a 12-hour minimum burning period following installation of the fireplace. This 12-hour period must include a minimum of 4 consecutive hours of continuous burning. During this time, the owner or installer may notice:

- The glass developing a white or "cloudy" residue.
- An unusual smell

Both the residue and the smell are due to the paint on the fireplace metal heating and "burning off". This is normal. The cloudiness and odor will disappear after the 12-hour period elapses and the installer returns to service the fireplace and complete startup.

### Final Inspection Procedure

---

When the 12-hour burning period is complete, the installer must return and perform the final inspection, which includes:

- Cleaning the glass with a ceramic glass cleaner (otherwise the white residue will remain)
- Checking the interior media setup
- Checking for gas leaks
- Adjusting the restrictor (if necessary)
- Performing an overall check to make sure that everything is working properly.

When these activities are complete, initial startup is concluded and the fireplace may be operated by the owner.

### Final Checks and User Instruction

---

Before releasing the fireplace to the customer for use without installer supervision, the installer must ensure that the fireplace is burning correctly. In addition, the installer must review and explain the following to the owner:

- Safety warnings
- Fireplace operation
- Warranty requirements
- Maintenance requirements
- Glass is hot during and after operation.
- If any questions or concerns arise, the owner must contact the local Ortal dealer/installer for support.

## Building Around the Fireplace

### Building Checklist

The following building checklist is a quick reference for a typical Ortal Wilderness 31 series fireplace installation. This list is not exhaustive and does not supplement thorough review of the installation manual.

- ☑ **Fireplace Location:** Ensure the location allows for min. 16" clearance from viewing area to furniture and other combustibles. Make sure a clear path is established to allow the fireplace to be safely transported to installation location.
- ☑ **Exhaust Vent:** Confirm vent size (5"x8", or 3"x5" for Power Vent), vent clearance (1" on sides and bottom, 3" on top), vent configuration, and termination location.
- ☑ **Height from Floor:** Fireplace leg height is 9 <sup>5</sup>/<sub>8</sub>" (to the bottom of the lower drywall lip). Legs cannot be removed/altered. If the desired viewing area location on the wall is higher than 9 <sup>13</sup>/<sub>16</sub>", a platform can be built for the fireplace to stand on.
- ☑ **Chase Floor/Platform:** Fireplace can stand on the chase floor or a platform. Floor or platform must be able to bear the weight of the fireplace. It can be constructed out of wood, concrete, metal, or any other solid materials (not required to be non-combustible).
- ☑ **Chase Construction:** No materials can be attached directly to the fireplace (exception: <sup>5</sup>/<sub>8</sub>" Type X Drywall). The area of the chase interior must be min. 100 square inches at any given point within the chase.
- ☑ **Framing:** Adhere to minimum framing dimensions (or greater). The first 10 <sup>1</sup>/<sub>2</sub>" above the top of the fireplace viewing area must always be non-combustible framing. For recessed fireplaces, do not exceed 12" max. front overhang depth limit. No material is permitted to extend past the metal lip surrounding the fireplace viewing area.
- ☑ **<sup>5</sup>/<sub>8</sub>" Type X Drywall Requirements:** One layer of <sup>5</sup>/<sub>8</sub>" Type X Drywall (or equivalent) must be installed on the exterior of the chase framing. <sup>5</sup>/<sub>8</sub>" Type X Drywall (or equivalent) may be fastened to the top framing stand-off only, with 1" self-tapping drywall screws 16" on center.
- ☑ **TV/Artwork:** TV/Art must be min. 4" above top of fireplace viewing area for flush-mounted TVs, and 12" for TVs recessed into the wall. First 10 <sup>7</sup>/<sub>16</sub>" min. above the viewing area must have non-combustible framing (top front metal stand-off + non-combustible studs).
- ☑ **Gas Supply Line and Power Location:** Locate gas line with manual shut off according to local code. Power provided by a duplex outlet receptacle (120V, 15 amp, 60Hz) in same area as gas line.
- ☑ **Access Panel:** An access panel is highly recommended to access gas and electrical components for servicing. Depending on the model, access panel can be placed at the side or back of the fireplace within 3 feet of the pilot. Access panel, or some other form of clear access to the chase, is required for power-vented fireplaces. Size recommendation: as large as possible depending on application. Min. recommended size 10"x10".
- ☑ **Heat Release:** Crucial for Cool Wall Technology. Must start within 6" (max.) from the chase's ceiling. Min. size for a horizontal heat release 50 sq.in. of net free air space. Min. size for a vertical heat release is 65 sq. in. Height of the heat release must not exceed 1/3 of the width.
- ☑ **Air Intake:** Only required for double glass heat barrier. Must be located at or below the level of double glass fans. Min. 124 sq.in. of net free air space.
- ☑ **Finishing:** For finishes flush to the fireplace, no clearances are required. For finishes where the fireplace is recessed to the finish, maintain <sup>1</sup>/<sub>8</sub>" from the finish to the front face of the fireplace.

## Framing

### Framing Requirements

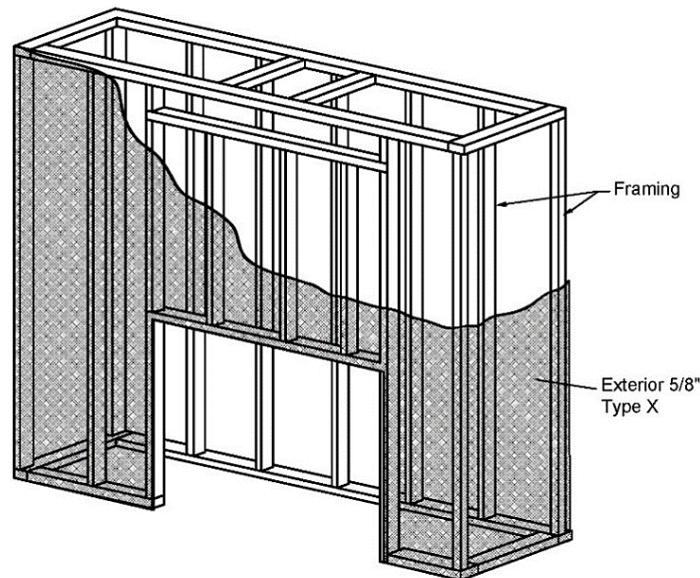
Fireplace chase may be framed with either combustible (typically wood studs) or non-combustible framing (typically metal studs). Any framing within  $10\frac{7}{16}$ " from the top of the fireplace glass (viewing area) must be non-combustible. Any framing after that point may be combustible.

The framing of the fireplace chase must be designed to carry the entire weight of the wall and finish material. Surrounding material must not transfer weight to the fireplace or be connected in any way to the fireplace, with the exception of  $\frac{5}{8}$ " Type X drywall or its equivalent.  **$\frac{5}{8}$ " Type X drywall may be fastened to the top framing stand-offs only, with 1-inch self-tapping drywall screws.**

No material is permitted to extend past the  $\frac{5}{8}$ " deep metal drywall lip surrounding the fireplace viewing area. This area must be unobstructed to allow the heat barrier and inside glass panel to be removed.

### $\frac{5}{8}$ " Type X Drywall Requirements

Exterior of framing must be covered with  $\frac{5}{8}$ " Type X Drywall (or equivalent). Chase interior does not require a layer of  $\frac{5}{8}$ " Type X Drywall (or equivalent). This applies to both combustible and non-combustible framing.



**NOTE:**  $\frac{5}{8}$ " Type X Drywall (or equivalent) is not required on the exterior portion of an insulated outside-facing wall.

### Chase Floor/Platform

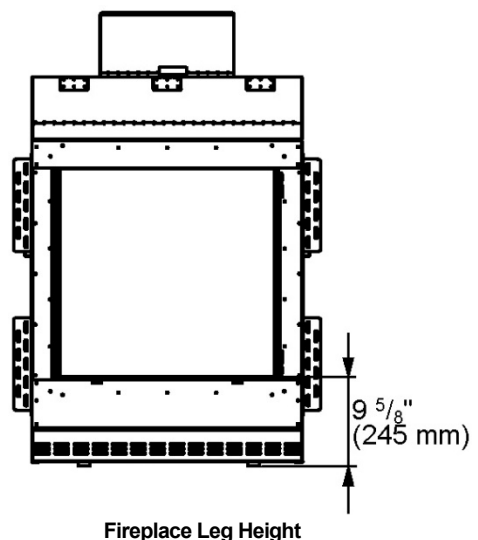
The fireplace must be installed on a flat, solid, continuous surface. Surface can be wood, concrete, metal, and other typical solid floor types. Surface material is not required to be non-combustible.

Fireplace leg height is  $9\frac{5}{8}$ " (measured to the bottom of the lower drywall lip). Legs cannot be removed, cut, or adjusted.

**Raised Platform Option:** To raise the fireplace higher than  $9\frac{13}{16}$ " height (to the bottom of viewing area), build a platform for the fireplace to stand on. Platform must be stable and able to bear the full weight of the fireplace. A Platform can be constructed out of wood, concrete, metal, or any other solid materials. Platform material is not required to be non-combustible.

**NOTE:** For fireplaces with the double glass heat barrier, an air intake might be necessary to incorporate into the platform depending on the design. See "Air Intake for a Platform" section for details.

**Air Intake for a Platform" section for details.**

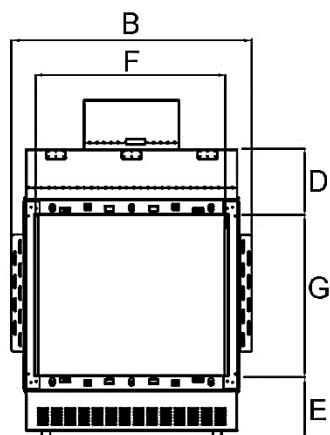




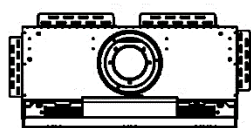
## Framing Dimensions

The following diagrams are for illustrative purposes only. There are multiple approved framing scenarios. A flush application is not the only permitted application. The fireplace may be recessed into the wall. Refer to diagrams and values below and in the following pages for details.

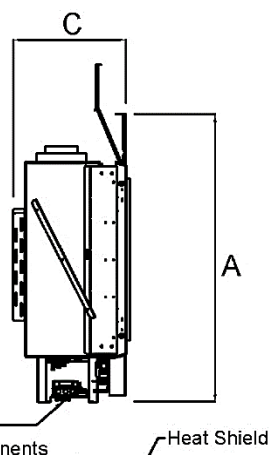
### Wilderness 31 Series



Front View



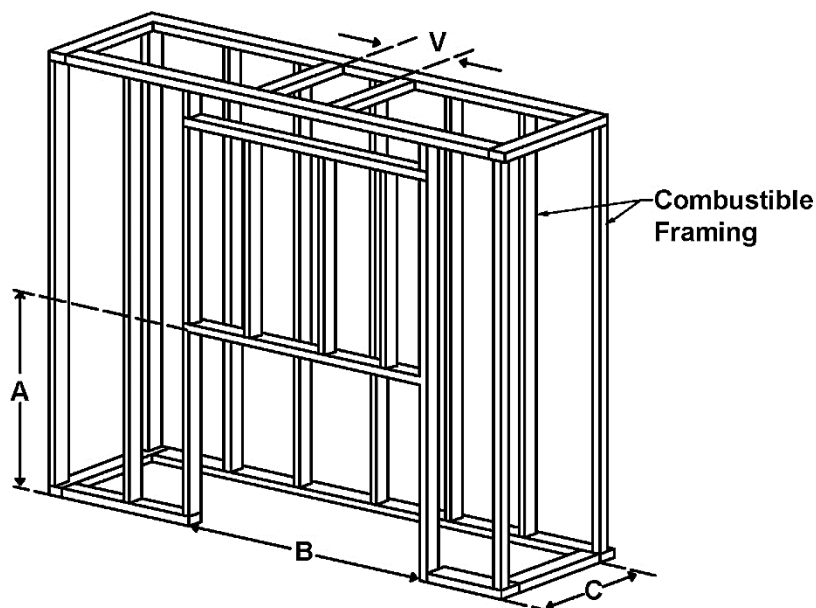
Top View



Protective cover for double glass fans. Ships on double glass models only.

Model	A: Height	B: Length	C: Depth	D: Stand-Off	E: Legs	F: Glass Length	G: Glass Height
31 F	45 <sup>11</sup> / <sub>16</sub> "	38 <sup>3</sup> / <sub>16</sub> "	18"	10 <sup>7</sup> / <sub>16</sub> "	9 <sup>5</sup> / <sub>8</sub> "	30 <sup>5</sup> / <sub>8</sub> "	25 <sup>9</sup> / <sub>16</sub> "
31H F	85 <sup>3</sup> / <sub>16</sub> "	38 <sup>9</sup> / <sub>16</sub> "	19 <sup>13</sup> / <sub>16</sub> "	10 <sup>7</sup> / <sub>16</sub> "	9 <sup>5</sup> / <sub>8</sub> "	30 <sup>5</sup> / <sub>8</sub> "	64 <sup>15</sup> / <sub>16</sub> "

Framing		
Model	31 Front	31H Front
A: Height	45 <sup>11</sup> / <sub>16</sub> "	85 <sup>3</sup> / <sub>16</sub> "
B: Length	38 <sup>3</sup> / <sub>16</sub> "	38 <sup>9</sup> / <sub>16</sub> "
C: Depth	18"	19 <sup>13</sup> / <sub>16</sub> "
V: Firestop	Refer to pipe manufacturer's firestop	



## General Clearances

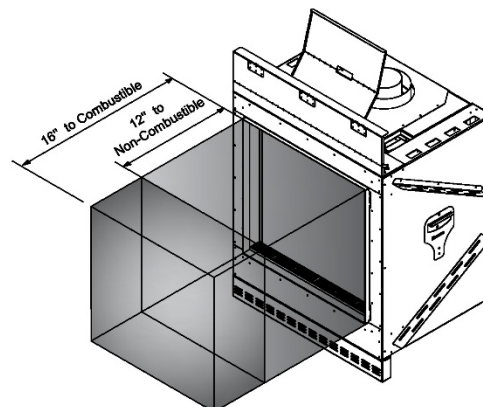
### Viewing Area Clearance Zone

The viewing area clearance zone is an area that extends perpendicular from the fireplace viewing area. The depth of the viewing area clearance zone depends on the combustibility of the material in question. Distance is measured from the fireplace heat barrier.

<b>Non-Combustible Materials</b>	Must be minimum <b>12 inches</b> from fireplace viewing area.
<b>Combustible Materials</b>	Must be minimum <b>16 inches</b> from fireplace viewing area.

Materials (including combustible flooring and combustible finish material) are permitted below and around the viewing area clearance zone.

**IMPORTANT NOTE:** When placing material near the glass, take care to consider fireplace serviceability. It is strongly recommended that any items/materials placed in front of the front (long) glass be movable for easy access to the fireplace during servicing.

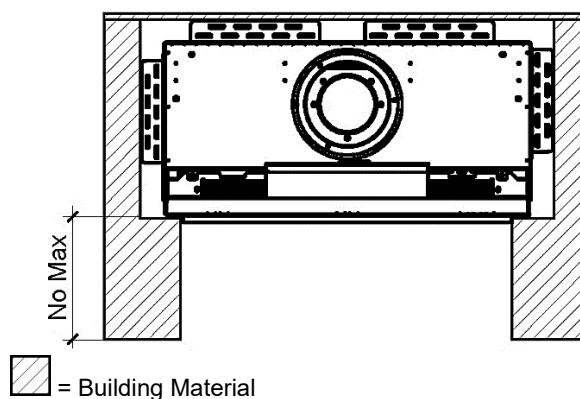


### Clearance to a Side Wall

The fireplace viewing area is zero-clearance to a side wall. A side wall is defined as a wall that meets the viewing area at a 90° angle.

The temperature on the side wall can get as high as 150°F above ambient temperature. While the fireplace certification allows for this temperature variance, building and finish materials will have their own limitations. Consult the material manufacturer to ensure the material can safely withstand this temperature range.

This information does not apply to a wall that is constructed in front of the viewing area. For materials that will be in front of a main or side viewing area, please refer to the "Viewing Area Clearance Zone" section.



## Heat Release

A heat release is an opening in the fireplace chase that allows the heat inside the chase to passively circulate into an interior room. This heat is generated convectively as the fireplace heats up. It is separate from exhaust heat produced in the combustion chamber of the fireplace. A **heat release is required** in order to keep the wall around the fireplace cool. Heat release requirements are the same for all 31 models.

### Heat Release Requirements

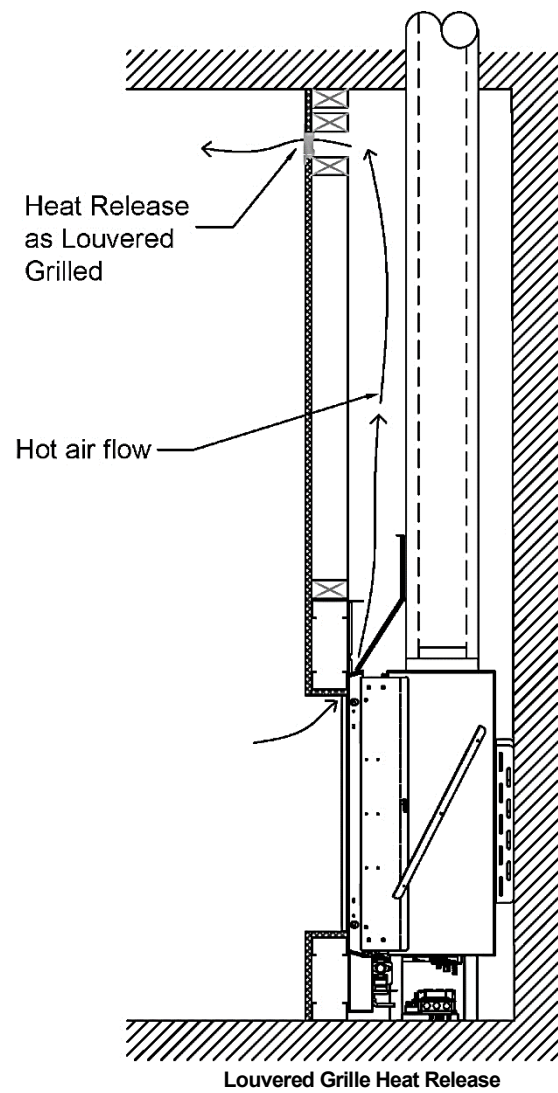
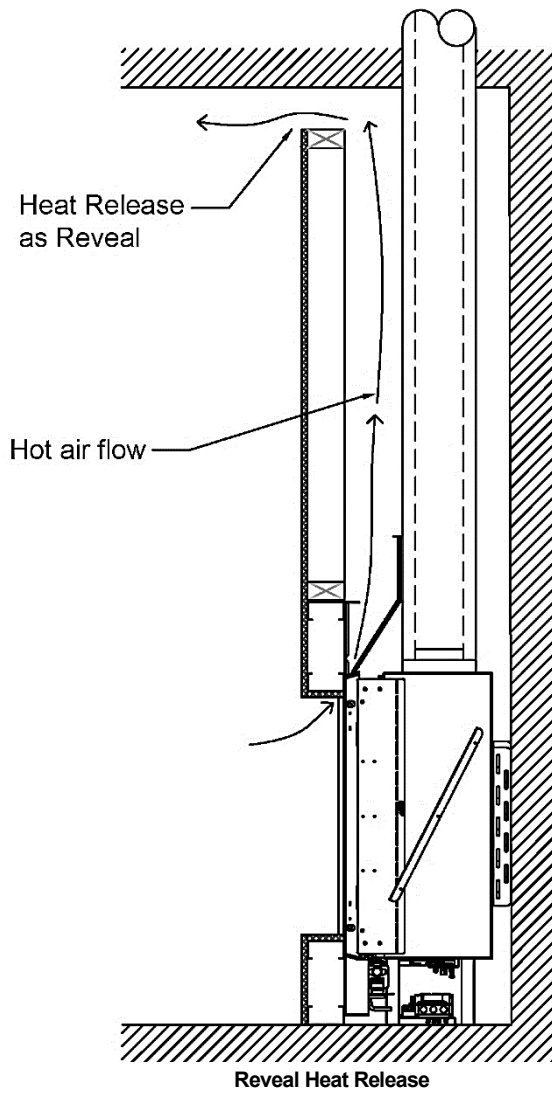
- The heat release must be located at or near the top of the fireplace chase and **start within** 6 inches (0-6 inches max) of the chase ceiling/firestop. It can start at the chase ceiling. It can be located on the front, sides or back of the chase. It can be released into any interior space that shares a wall with the chase.
- Minimum heat release size requirement depends on heat release orientation:

Fireplace Series	Horizontal Heat Release	Vertical Heat Release
Wilderness 31	Minimum 50 sq. in. of free air space	Minimum 65 sq. in. of free air space

- For horizontal heat releases only, the height of the heat release must not exceed 1/3 of the width or it will be considered a vertical heat release requiring a larger sq in space.
- The space the heat release vents into must have a minimum volume of 184 ft<sup>3</sup>.
- The heat release can be in the form of (but not limited to) a louvered ventilation grille, gap, or reveal.
  - For louvered/perforated ventilation grilles, the net free air space allowed in the louvered area must be equal or greater than the minimum number of square inches required per fireplace.
- The interior area of the narrowest part of the fireplace chase (in square inches) must never be less than your required heat release size (see "Chase Area Minimum" section for details).
- The heat release cannot be vented outdoors or to an unconditioned space.

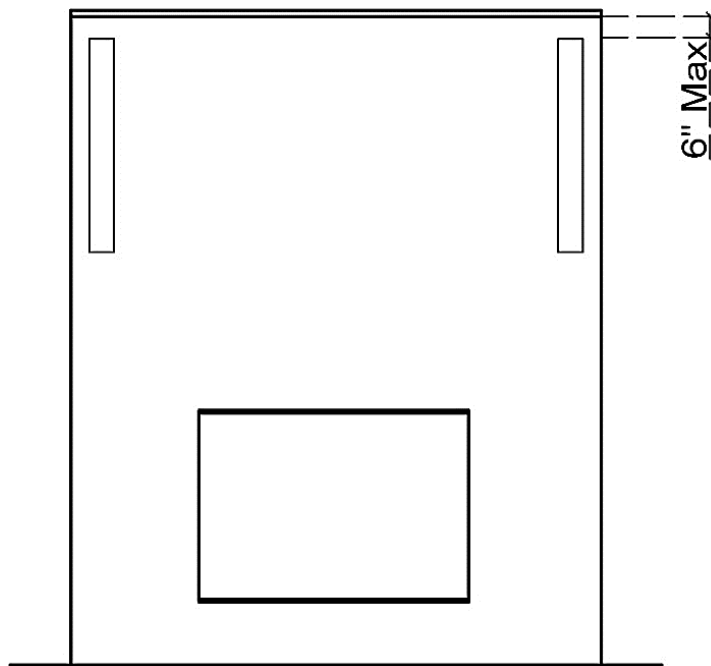
The following diagrams are examples of potential heat release options. These drawings serve as illustrative purposes only.

### **Horizontal Heat Release**



### **Vertical Heat Release: Split Front**

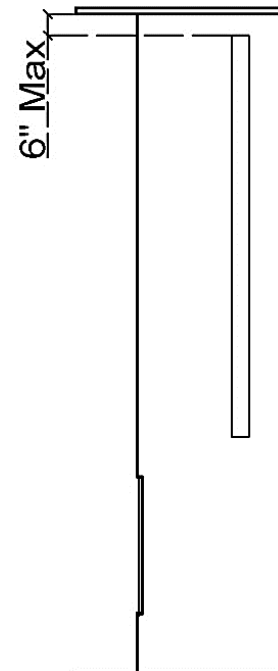
The heat release is oriented vertically and split between the two sides of the chase.



Split Front Vertical Heat Release

### **Vertical Heat Release: Full Side**

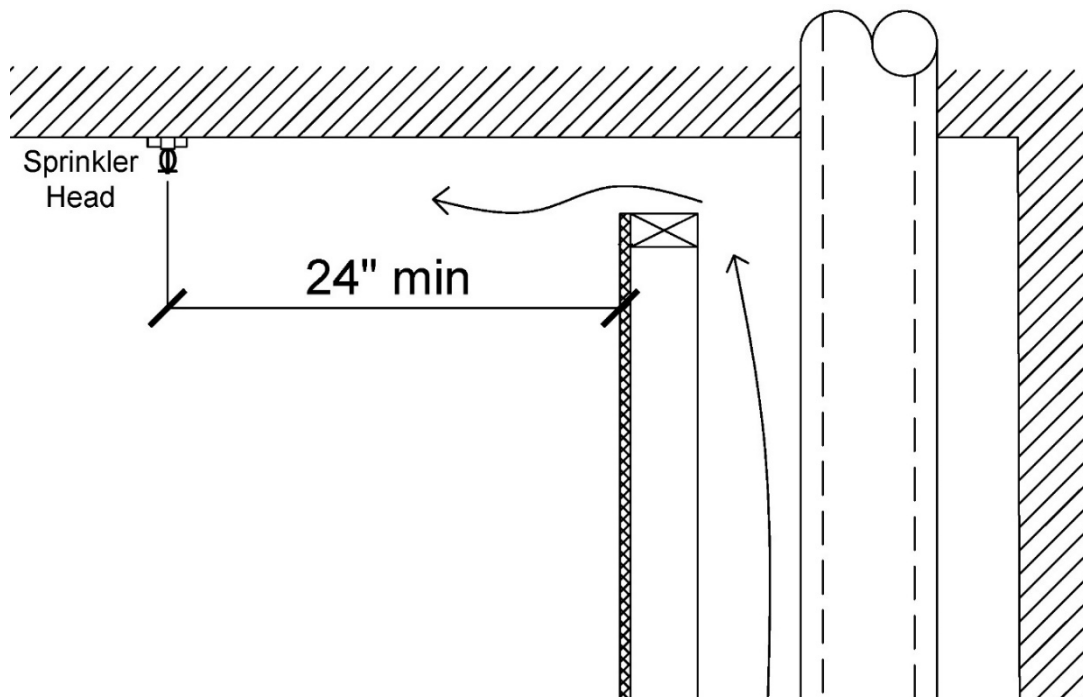
The heat release is oriented vertically. Entire heat release is on one side of the fireplace chase.



Full Vertical Heat Release on One Side

### **Sprinkler Clearance to Heat Release**

In a situation where a sprinkler head is near the heat release, the sprinkler head must be minimum **24 inches** (linear length) from the heat release opening.



## Air Intake Opening

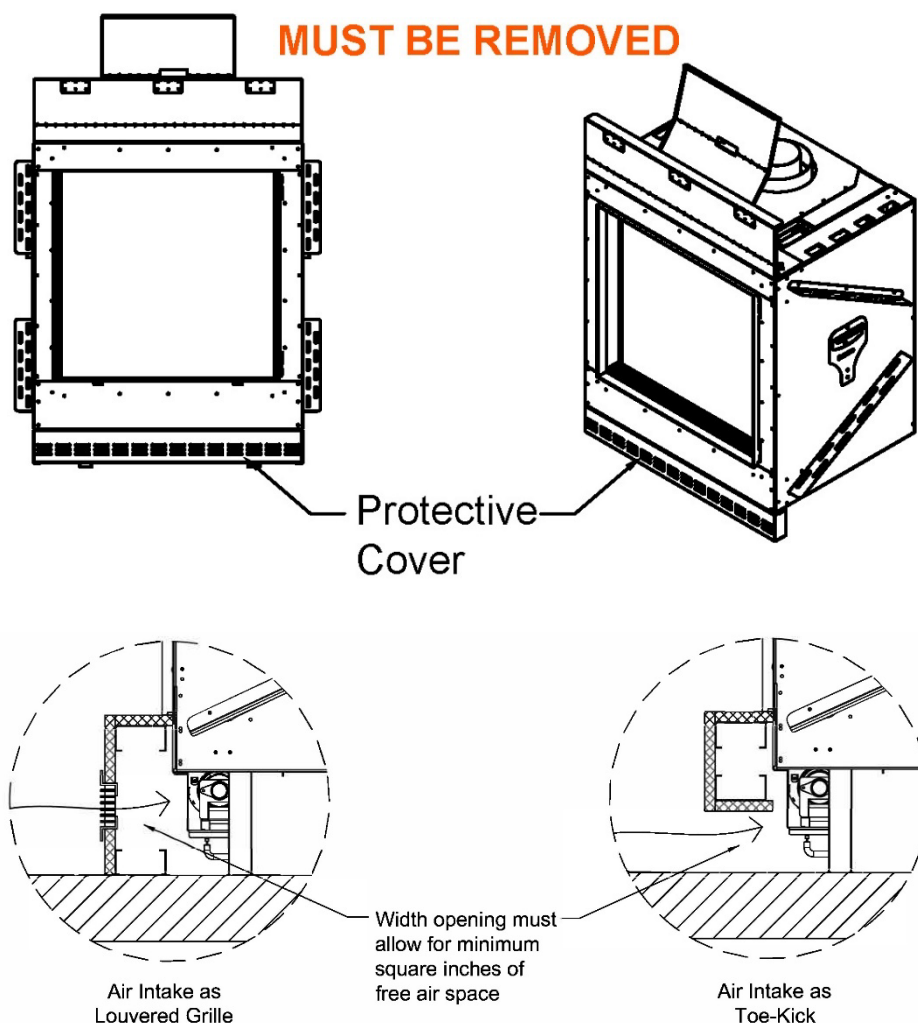
For fireplaces with a double glass heat barrier only, an air intake opening must be incorporated into the framing and finish around the fireplace. The air intake opening is essential to maintain cool air flow between the double glass panels by allowing the double glass fans to circulate room air through the glass panels and up into the chase. The opening must meet the minimum size requirement, as stated in the table below.

Fireplace Series	Air Intake Opening Size
Wilderness 31	Minimum 124 sq. in. of free air space

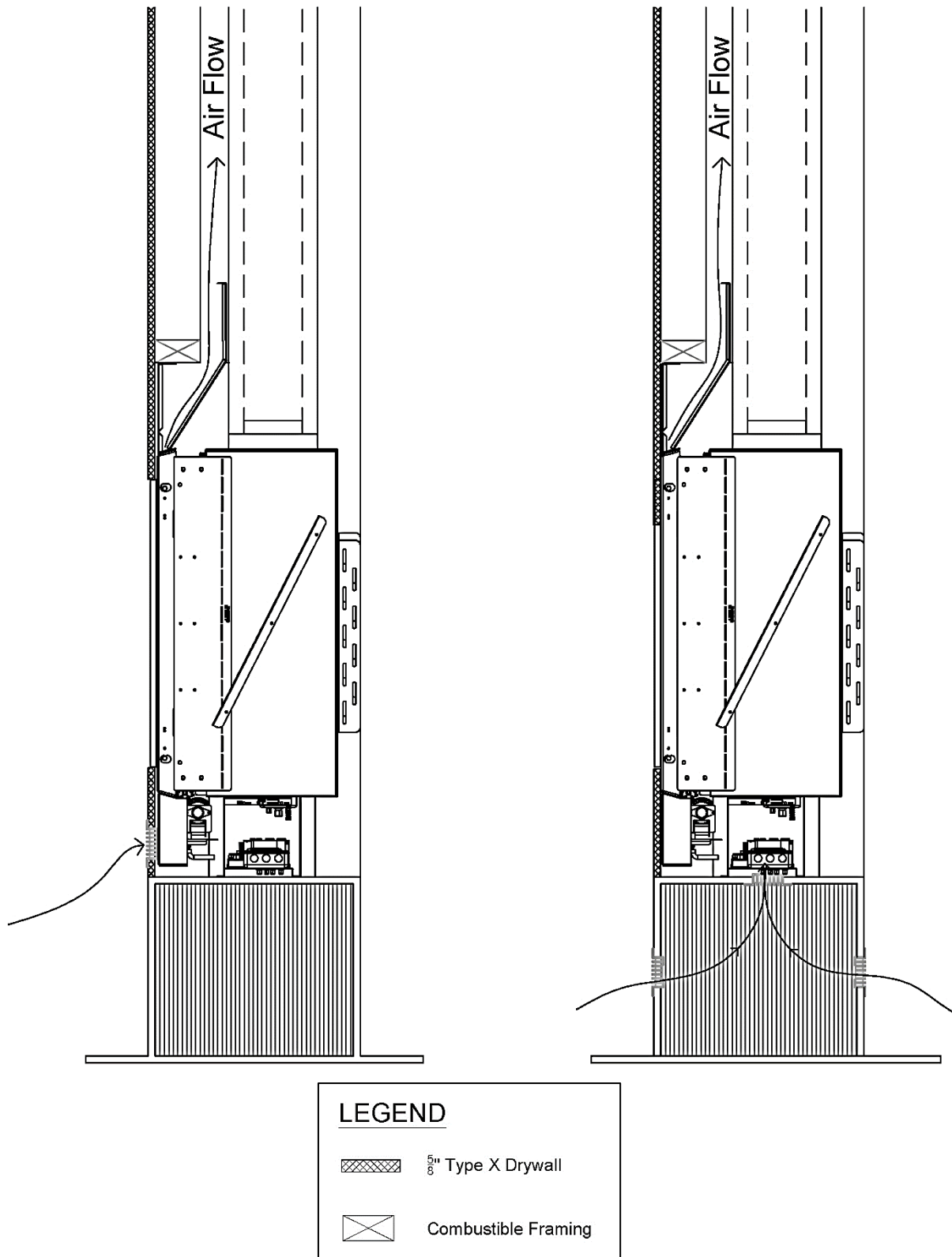
The air intake opening can be finished in the form of a louvered ventilation grille, gap, or toe-kick (reveal). For louvered ventilation grilles, the net free air space allowed in the louvered area must be equal or greater than the minimum number of square inches required per fireplace.

**The entire air intake opening must be located at or below the level of the double glass fans.** The air intake is not required to be on the front wall of the fireplace. The air intake cannot be on a wall that allows air from outside the house directly into the fireplace chase. Air must be from a conditioned space.

**Air flow must be able to get to the double glass fans by removing the protective cover after the unit is set into place.**



## Air Intake for a Platform



**NOTE:** Please refer to the “Chase Floor/Platform” section for details on platform construction.

## Mounting a TV/Artwork

Ortal's Cool Wall Technology engineering that reduces the convective heat from the fireplace and prevents heat buildup inside the fireplace chase, mitigating any damage that may result from the wall reaching high temperatures. Ortal's Cool Wall system provides the option of safely installing artwork, a TV, or other similar electronic components above the fireplace by reducing the wall temperature above the fireplace.

Location	Wall Temperature
0-6 inches above fireplace	100°F - 120°F
6-12 inches above fireplace	90°F - 100°F
12 inches above fireplace	80°F - 90°F

### Maintain the following general requirements to mount a TV or artwork above the fireplace and prevent heat damage:

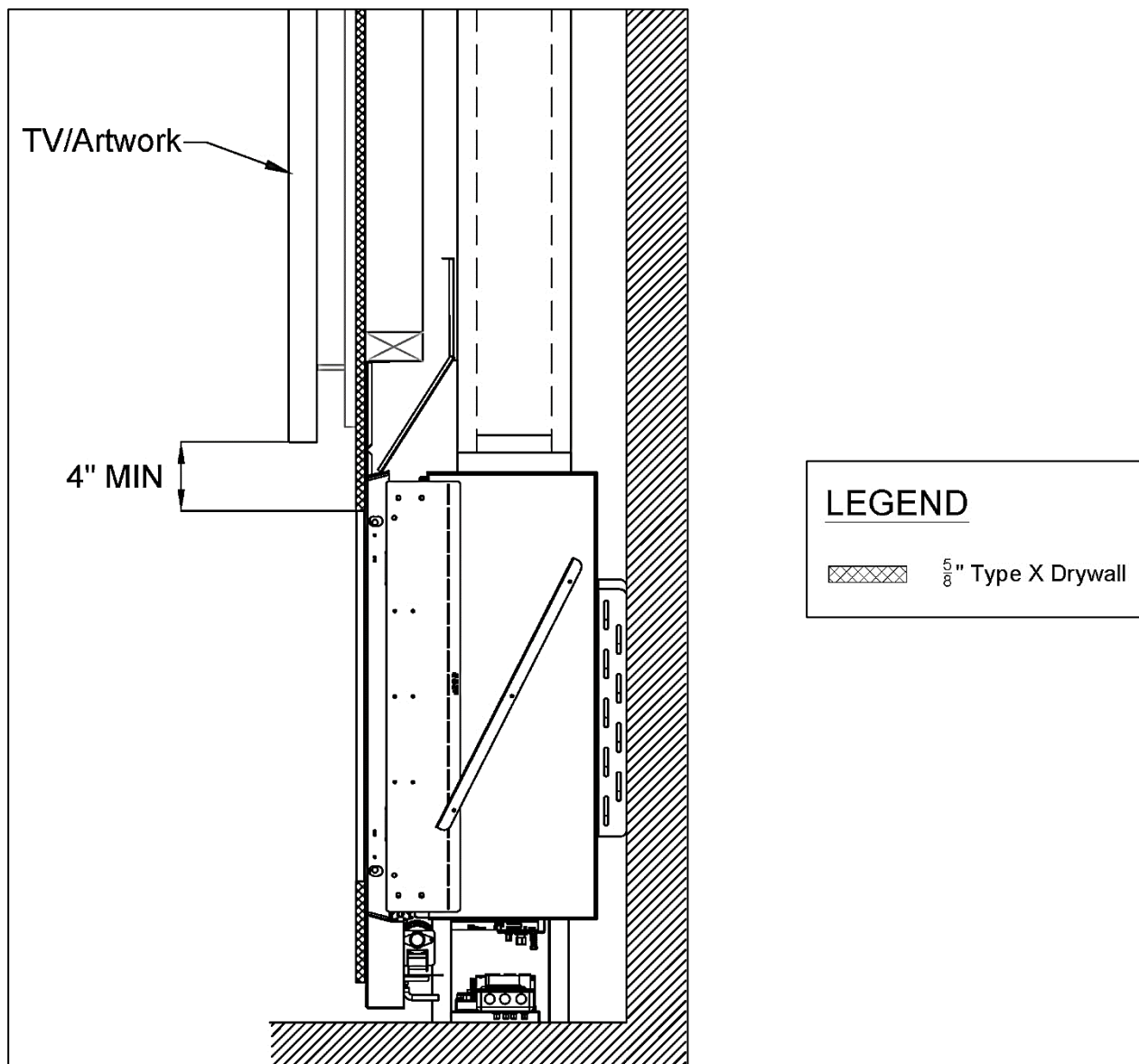
- Mount the TV or artwork at the minimum clearance above the top of the fireplace viewing area. Minimum clearance amount depends on flush or recessed installation. See sections below for more information.
- Wires inside the chase are not permitted to cross over the fireplace. Wires must be installed against a wall.

The decision to install a television above an Ortal fireplace is up to the discretion of the owner. TV and art manufacturers may specify that their product should not be installed on, near or above a heat source. Ortal will not be held liable for any adverse effects on a TV, artwork or other equipment located near the Ortal fireplace. It is the owner's responsibility to verify that their TV or artwork can withstand the wall temperatures as outlined in the above wall temperature chart.

The following diagrams can be used as a guide for customers who do decide to locate their TV and artwork above their Ortal fireplace. These drawings illustrate ways of reducing the amount of heat impact to the area surrounding the fireplace.

### Flush Mounted TV/Artwork

When the TV is mounted on a wall that is flush to the fireplace, the TV must be at least **4 inches** from the top of the fireplace glass viewing area. Ensure all clearances are maintained. See diagram below for details.

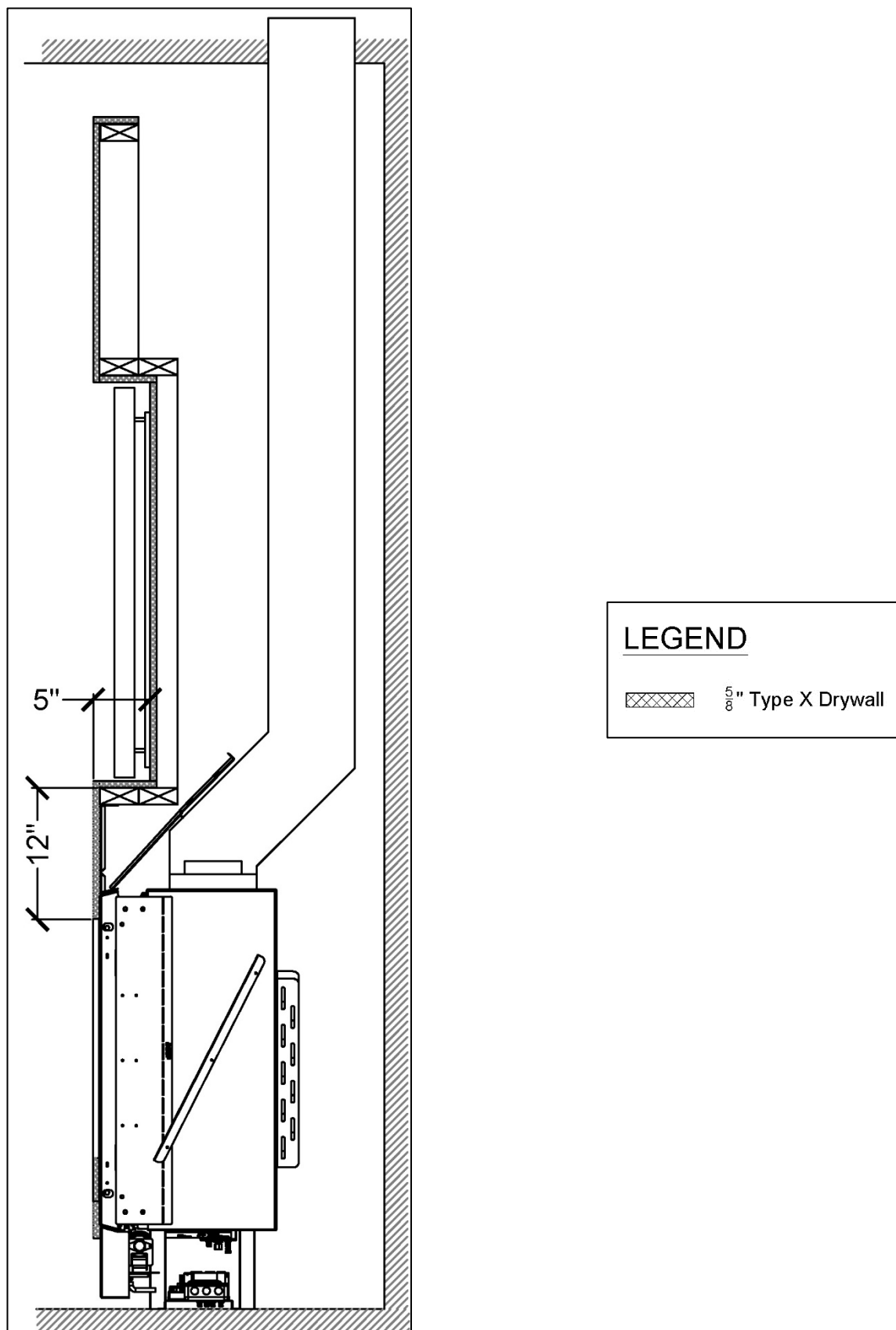




## Recessed TV/Artwork

When the TV is mounted on a wall that recesses over the fireplace, the TV must be at least **12 inches** from the top of the fireplace glass viewing area.

At 12 inches above the fireplace viewing area, maximum possible recess is 5 inches. A deeper recess will interfere with required clearances to venting. Maximum possible recess increases at greater than 12 inches above the viewing area when venting is offset (as shown in diagram below).



**NOTE:** Vent clearances must be maintained. See "Vent Clearances" section for details.

## Access Panel

An access panel, or some other form of clear access to the chase, is not required (see note below for exception), but it is **highly recommended**. It allows for access to the fireplace's gas and electrical components for servicing.

**NOTE:** Access panel, or some other form of clear access to the chase, is required for power-vented fireplaces.

Access Panel Size and Location Recommendations:

- Size: as large as possible depending on application. Minimum is 10"x10".

Located within 36 inches of the pilot to the side or back of the fireplace (see "Routing the Gas Line" section).

The size and location of the access panel may vary, but in all cases, it must allow the technician to comfortably access and service the fireplace's gas and electrical components. These components are attached to the pilot on a flexible gas line and can be moved within 36 inches of the pilot (located at the center front of the burner) to the side or back of the fireplace.

For ease of access, move the fireplace's gas and electrical components as close to the access panel as possible. **If there is any distance between the access panel and the gas and electrical components, the access panel size must be increased accordingly.** Prior to installation, fireplace dealers/installers should work with the owner, builder, project architects and/or interior designers to determine the best size and location of their access panel.

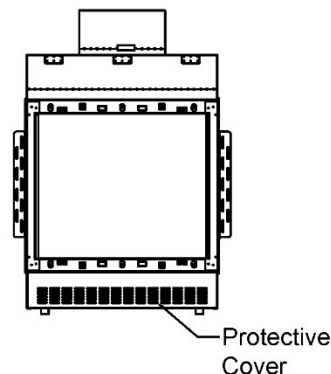
If an access panel cannot be incorporated, the alternative method of servicing the gas and electrical components is through the fireplace. This procedure requires removing the glass panel(s) and interior design media, and lifting the grill, burner, and bottom pressure release valve. This will increase service time and difficulty. An access panel is always preferred. Fireplace dealers/installers are advised to consult with their clients regarding the advantages and disadvantages of each service option.

**NOTE:** If local code requires an access panel, defer to local code requirements.

## Protective Cover for Double Glass Fans

Fireplaces with double glass heat barrier comes equipped with a protective cover to protect the fans from shipping damage. When installed, this protective cover blocks service access to gas and electrical components. The protective cover is installed under the front and sides of the fireplace.

**The protective cover must be removed when the fireplace is set into positioning.**



## Chase Area Minimum

To ensure the convective heat within the chase passively moves to the heat release at an optimal rate, all parts of the interior of the chase must at least the same size as the fireplace heat release (see "Heat Release" section to determine your model's required heat release size) at size at any given point. To determine if your chase meets this requirement, use the following equation at the narrowest part of the chase.

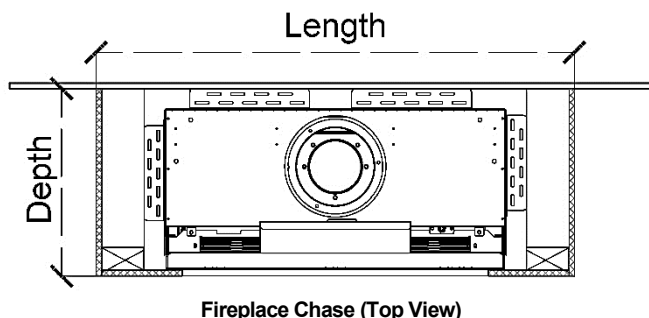
$$\text{Chase Area} = (\text{Chase Length} \times \text{Chase Depth}) - (\text{Area of the Pipe})$$

### Area of the Pipe:

5"x8" venting = 50.27 in<sup>2</sup>

3"x5" venting\* = 19.63 in<sup>2</sup>

\*Used for Power Venting only

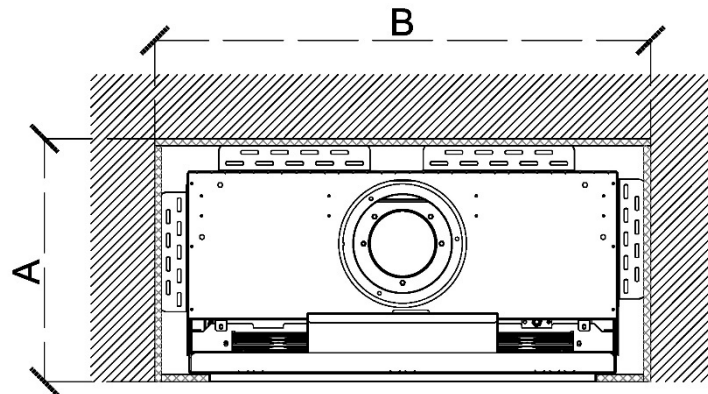


If the heat release is split into 25/75 portions due to an oversized ledge, the chase only needs to be the size of 75% of the heat release because 25% of the heat is already being released at the ledge (see "Recessed Ledge Detail" section for details).

## Recessed Ledge Detail

A ledge over the top of a fireplace that is less than 24 inches from the top of the fireplace viewing area must maintain a minimum of **12 inches from the top of the viewing area to the top of the framing**. Entire structure must be **non-combustible (framing and finish)**.

Ledge Size:  $A \times B \leq 220 \text{ sq. in.}$

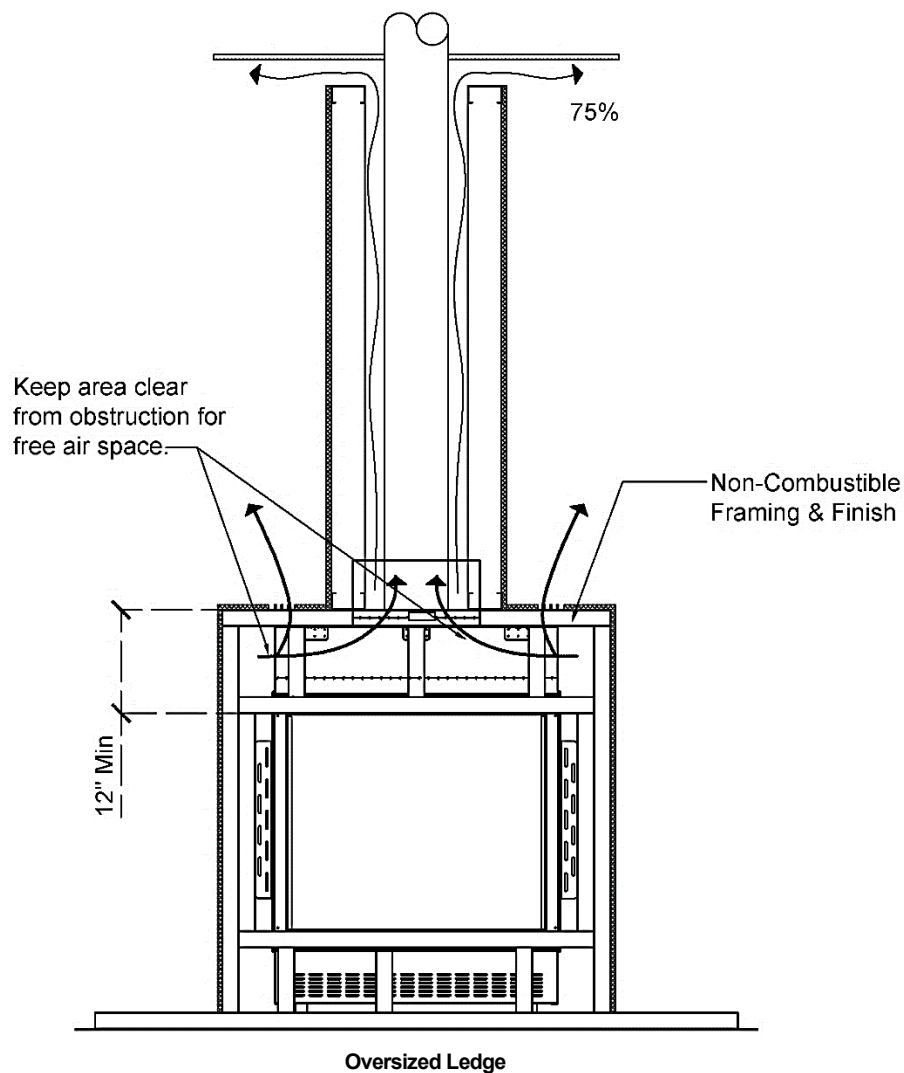


A = ledge depth, B = ledge width (Top View)

## Oversized Ledge

If ledge surface area exceeds the values shown in the chart above, the heat release must be divided between the ledge and the chase ceiling.

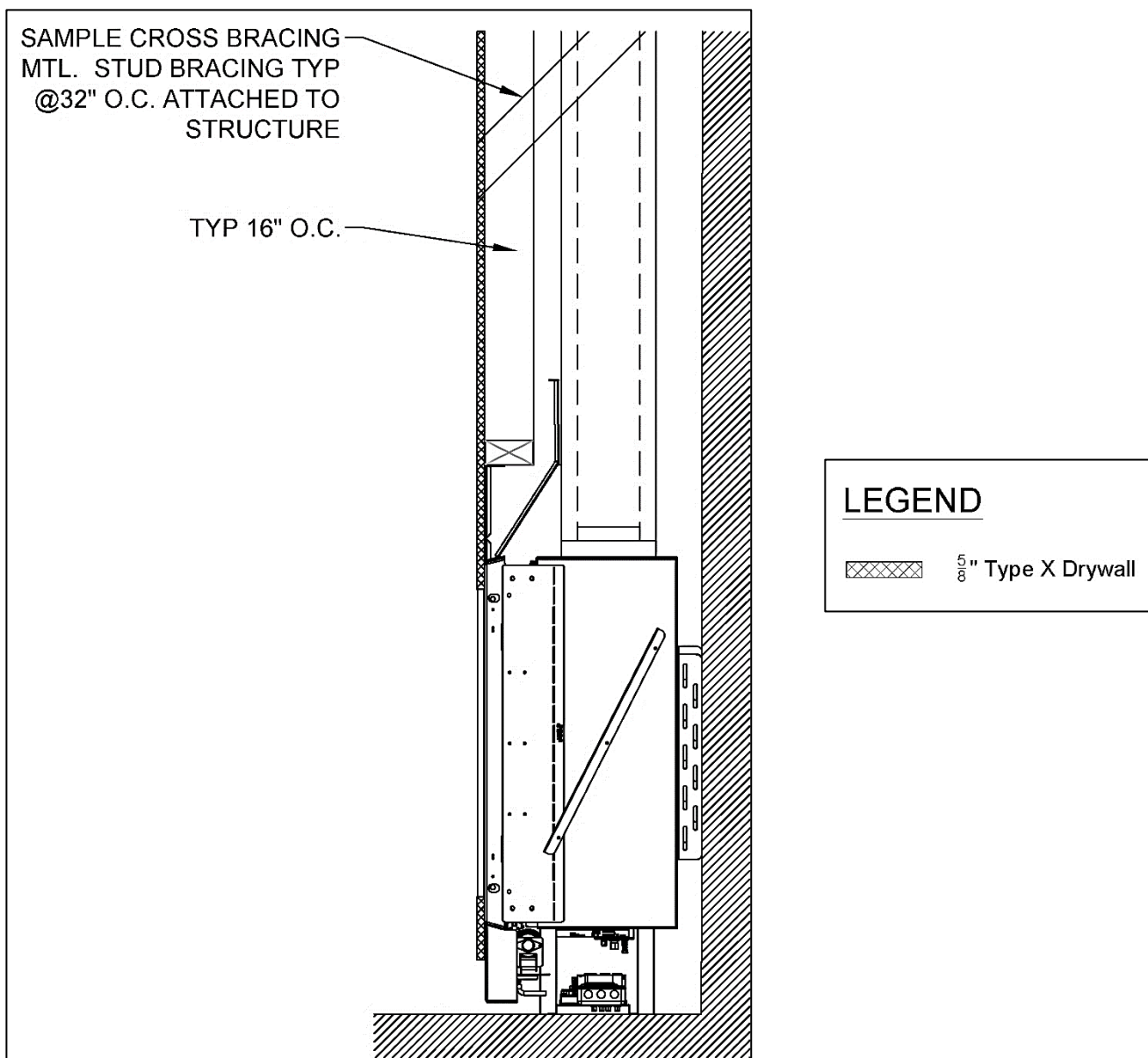
**NOTE:** Chase area minimum requirements must be met throughout the entire fireplace chase. See "Chase Area Minimum" section above for details.



## Structural Weight Support

The fireplace must not carry any structural weight. The framing must be supported by another surface. Consult with the project structural engineer and refer to your local building codes for proper wall support.

The following drawing shows a recommended approach to this type of installation. Please note that these drawings are not to scale. All fireplace drawings with correct dimensions are available on the Ortal website.



## Finishing

The following diagrams show various finishing applications. **Diagrams apply to both combustible and non-combustible finish material.**



### IMPORTANT NOTES:

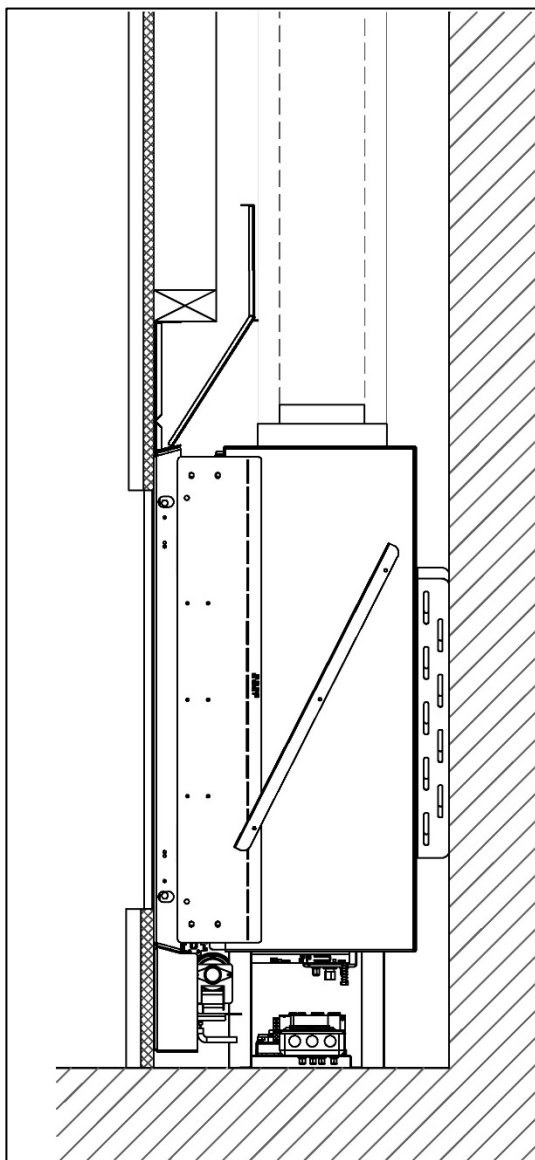
- All recessed installations must comply with applicable maximum overhang limit and side wall clearances. See "Maximum Overhang/Mantel Depth" and "Clearance to a Side Wall" sections for details.
- No material is permitted to extend past the metal lip surrounding the fireplace viewing area. This area must be unobstructed to allow the heat barrier and inside glass panel to be removable.





**WARNING:** Wood finish or floor/hearth extension may dry out, crack, warp or become discolored over time. Consult with floor manufacturer for required clearances to a heat source.

## Flush Installation

Diagram applies to both combustible and non-combustible finish material.

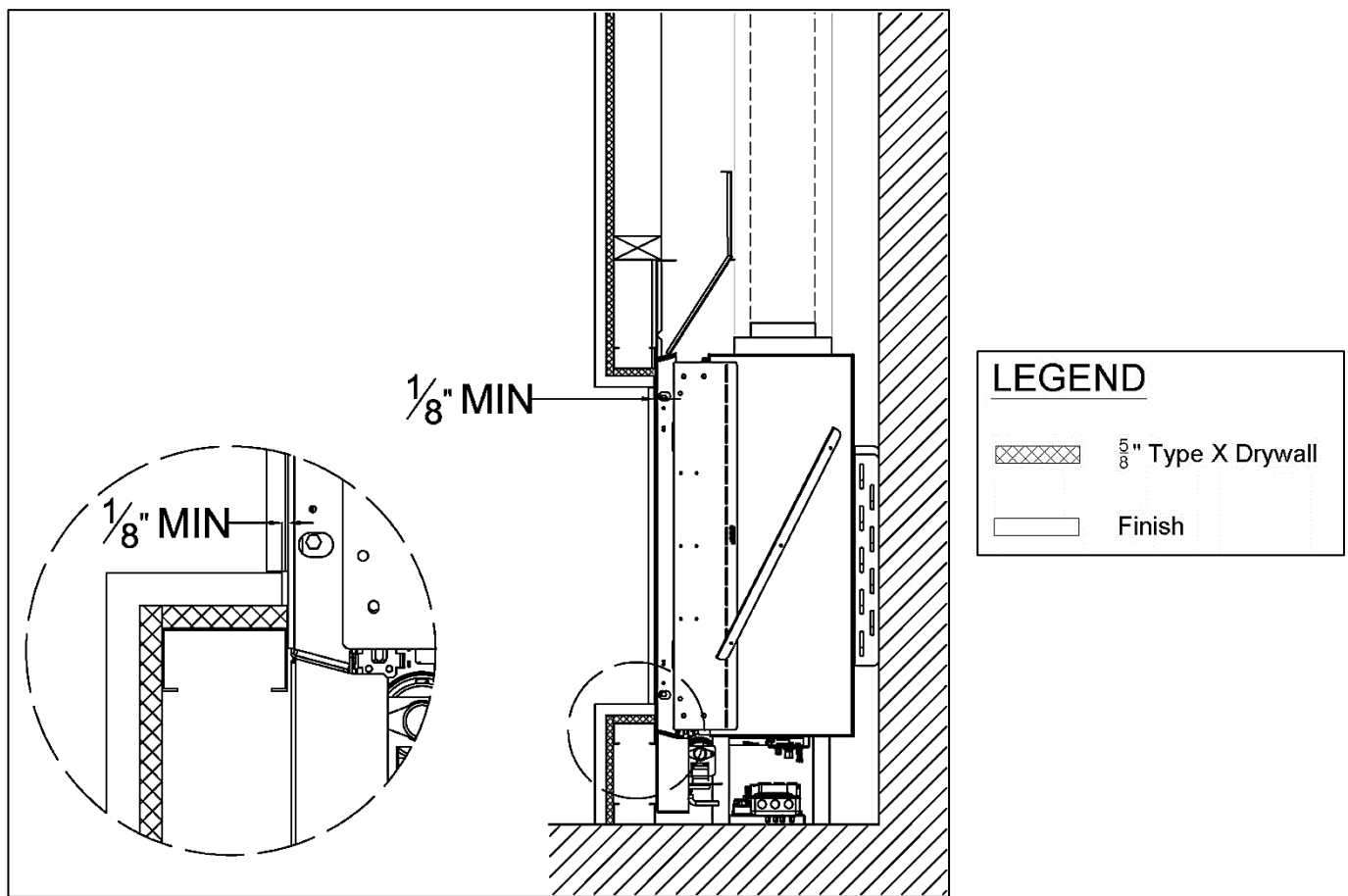


### LEGEND

	5/8" Type X Drywall
	Finish

## Recessed Installation

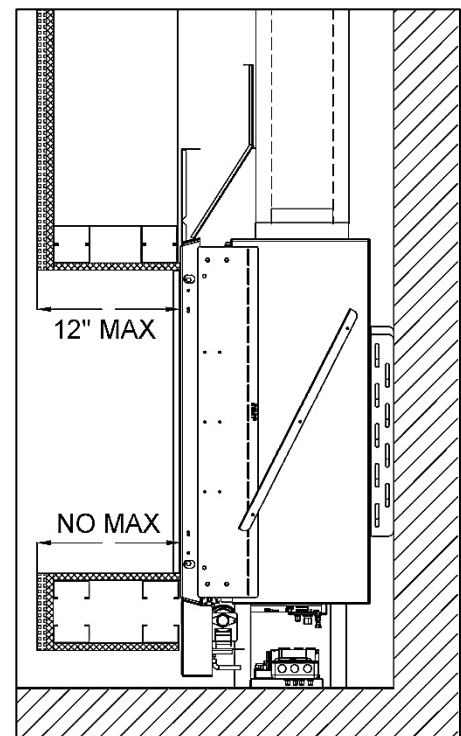
Diagram applies to both combustible and non-combustible finishing material. The finish must maintain at least a  $\frac{1}{8}$ " clearance to the fireplace to both the top and bottom recesses.



## Maximum Overhang/Mantel Depth

Overhang (aka Mantel) depth of a recessed fireplace must not exceed **12 inches**. Overhang depth is measured from the edge of the fireplace lip to the out-most part of the wall (including finish material). Finishing material on the underside of the overhang can be combustible or non-combustible. **Metal studs must be used for framing overhangs.**

Bottom recess (or "hearth extension") has no minimum or maximum depth requirement. If bottom recess depth exceeds 12 inches, ensure the structure is capable of supporting the weight of a fireplace technician for servicing.




# Venting

## General Venting Requirements

The fireplace operates using a direct vent system and requires co-axial direct vent pipe. The fireplace must be properly connected to an approved vent system. Venting is not provided with the fireplace and must be sourced from one of the approved vent manufacturers mentioned in the table below. Proper installation, use, and maintenance of venting is determined by and can be acquired from the vent manufacturer.

Vent Requirements			
Fireplace Model	Direct Vent Type	Vent Size	Approved Vent Manufacturers
Wilderness 31 Front Wilderness 31H Front	Passive Vent (standard)	5x8 co-axial direct vent pipe (5" interior, 8" exterior)	Olympia: Ventis DuraVent: Direct Vent Pro ICC: EXCELDirect BDM: Pro-Form Direct Vent System Selkirk: Direct-Temp System
	Enervex Power Vent (optional)		
	Ortal Power Vent (optional)*	3x5 co-axial direct vent pipe (3" interior, 5" exterior)	DuraVent: CVS line ICC: EXCEL PV Pipe

\*Power Vent: a fan-assisted direct vent system that boosts airflow for vent configurations with too much constriction. Review "Vent Configurations" below to determine if your fireplace needs a power vent.

 **ORTAL POWER VENT NOTE:** See the Ortal Power Vent Manual for more details on power venting.

 **ENERVEX POWER VENT NOTE:** See Ortal's Enervex Power Vent Manual for more details on power venting with an Enervex power vent.


 **TERMINATION CAP NOTE:** Low Profile Termination Cap and Sconce Termination Cap can negatively impact flame appearance and are not recommended for use with the fireplace.

 **WARNING:** Do not combine vent components from different vent manufacturers. Please follow the manufacturer's instructions for vent system installation.

## Vent Configurations

The following sections provide information for calculating vent configuration distances and elbows. For vent configurations that cannot conform to these guidelines, consider Ortal's Power Vent System, or contact Ortal for assistance. Power Vent information can be found in the Power Vent Installation Manual.

Allowable Maximum Horizontal Runs	
Wilderness 31 Series	
V minimum = 3 feet	
Vertical (V)	Max Horizontal (H)
3 ft	7 ft
6 ft	15 ft
9 ft	20 ft
12 ft	19 ft
15 ft	19 ft
18 ft	15 ft
21 ft	15 ft
24 ft	15 ft
27 ft	15 ft
30 ft	15 ft
33 ft	15 ft
36 ft	6 ft
39 ft	0 ft
42 ft	0 ft
45 ft	0 ft

 **CHART NOTE:** Do not include the space elbows take up when calculating your vertical and horizontal distances.



## Please consider the following guidelines when determining vent configuration.

### Elbows

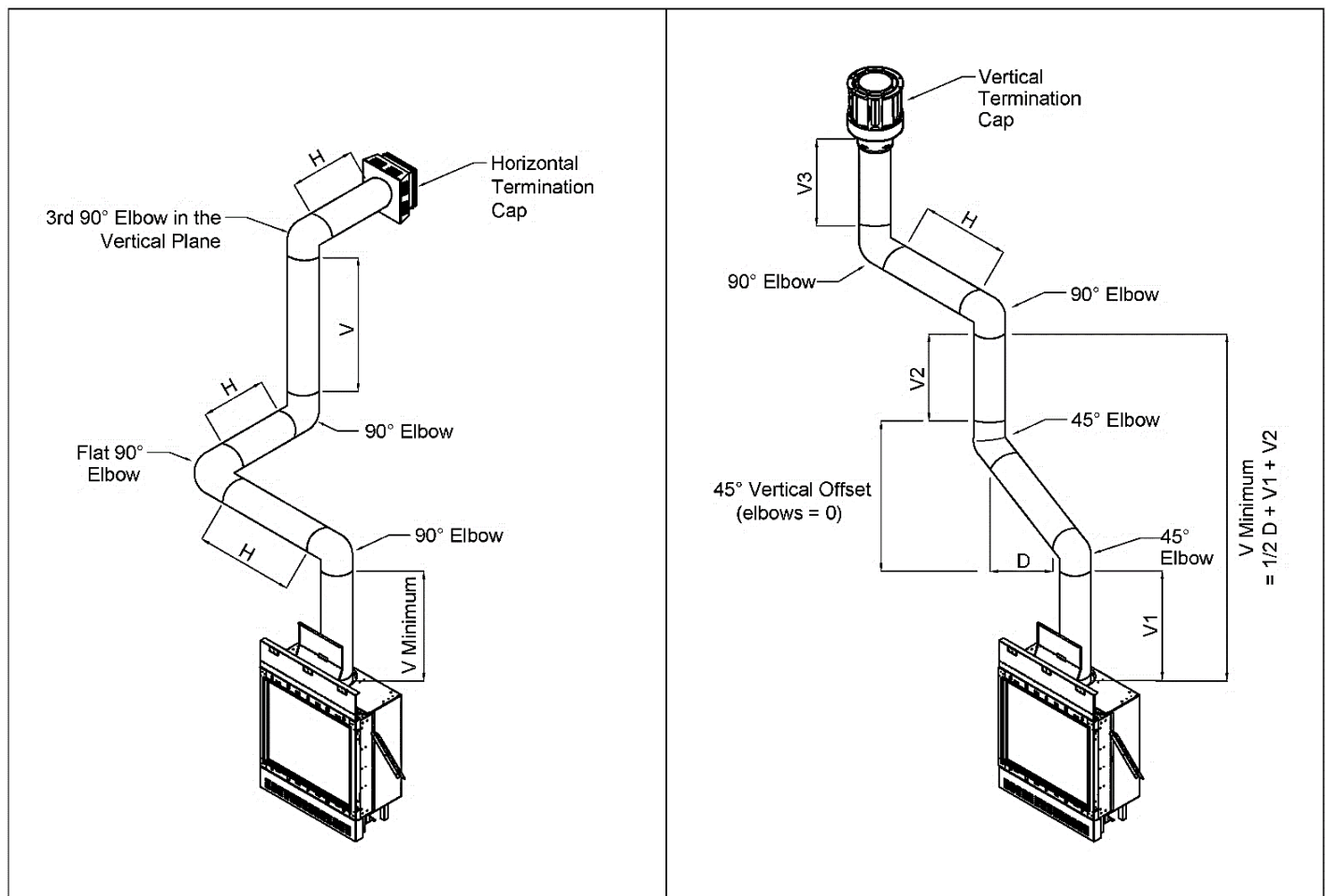
- **Maximum Elbows:** Up to **four** 90° elbows can be used in the vent configuration. Two 45° elbows = one 90° elbow.
  - **45° Vertical Offset Exception:** Two 45° elbows in the vertical plane with a diagonal run in between is equal to **0 elbows**. They are not counted with other elbows in the vent configuration. This offset exception is applicable immediately on the top of the fireplace and anywhere else within the vent configuration.  
**The diagonal run between the two 45° elbows must be included when calculating vertical and horizontal distances.**
  - **45° Horizontal Offset:** Two 45° elbows that begin and end in the horizontal plane, with a diagonal run in between, is equal to **one 90° elbow**. Additionally, **3 feet** must be reduced from the total allowable horizontal run.  
**The diagonal run between the two 45° elbows must be included when calculating vertical and horizontal distances**
- **Flat 90° Elbows:** For every flat 90° elbow (a 90° elbow that stays in the horizontal plane), **6 feet** must be reduced from the total allowable horizontal run. Up to two flat elbows are allowed.
  - Example: If max allowable horizontal run is 24 feet and 1 flat elbow is added, max run is reduced to 18 feet.

### Diagonal Runs

- **Calculating Diagonal Runs (D):** Diagonal (45°) vent runs have an equal combination of vertical and horizontal aspects. To include diagonal portions of your desired vent configuration when determining overall vent limitations, divide the diagonal distance in half. Add this value to the total vertical rise and total horizontal run distances in your vent configuration. Include these values when utilizing the Vent Configuration Tables below.
  - Example: 6 feet diagonal run = 3 feet vertical rise & 3 feet horizontal run

### Other

- **V Minimum:** This is the minimum amount of vertical rise required before the first *completely* horizontal (not diagonal) run.
- Any vent configuration that does not meet these parameters requires Ortal's review and approval.



## Vent Restrictor Chart

The restrictor sizing tables in this section determine the recommended restrictor for your vent configuration. These tables show Ortal's recommendations only. The Environment, gas type and other factors may affect the best restrictor choice.

### How to use the "Recommended Restrictor" tables:

1. Find the total vertical rise in your vent configuration along the y-axis.
2. Find the horizontal run in your vent configuration along the x-axis.
3. Follow the desired rise and run values within the table until they meet. This value is the recommended restrictor size (in inches) for your vent configuration.

### Legend:

X: Vent configuration is not allowed. Power vent required.

0: No restrictor required.

Numbers other than 0: Represents the recommended restrictor (by width).

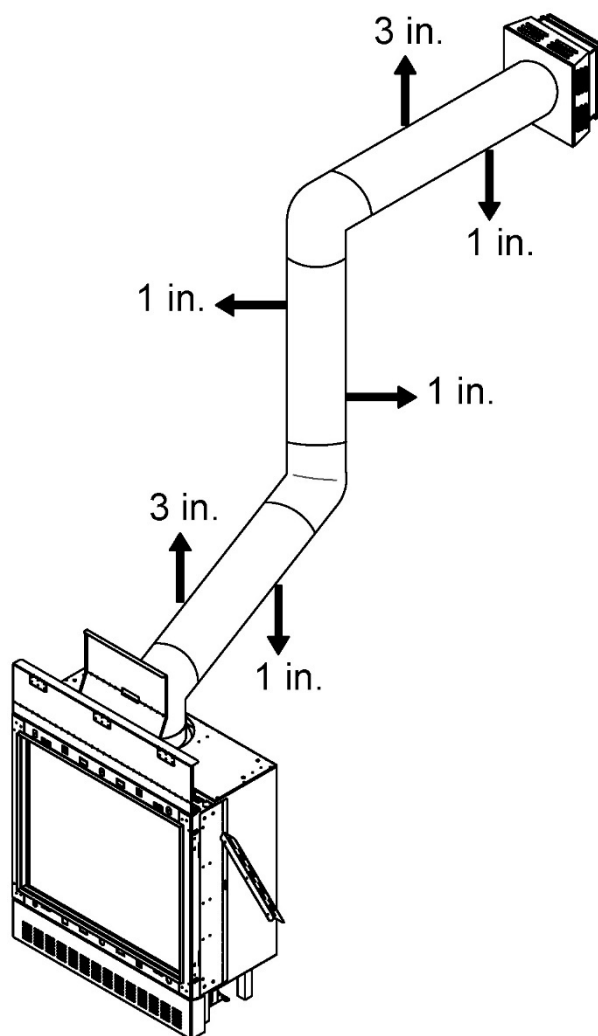
### Restrictor Sizes:

- 20mm (0.79")
- 30mm (1.18")
- 40mm (1.57")
- 50mm (1.97")
- 70mm (2.75")
- 85mm (3.35")

		Wilderness 31 Series											
		V Minimum = 3 Feet											
Total Vertical Vent Rise	45'	2.75"	X	X	X	X	X	X	X	X	X	X	
	42'	2.75"	X	X	X	X	X	X	X	X	X	X	
	39'	2.75"	X	X	X	X	X	X	X	X	X	X	
	36'	2.75"	2.75"	1.97"	X	X	X	X	X	X	X	X	
	33'	2.75"	2.75"	1.97"	1.97"	1.57"	1.18"	X	X	X	X	X	
	30'	2.75"	2.75"	1.97"	1.97"	1.57"	1.18"	X	X	X	X	X	
	27'	2.75"	2.75"	1.97"	1.97"	1.57"	1.18"	X	X	X	X	X	
	24'	2.75"	2.75"	1.97"	1.97"	1.57"	1.18"	X	X	X	X	X	
	21'	2.75"	1.97"	1.97"	1.57"	1.57"	1.18"	X	X	X	X	X	
	18'	2.75"	1.97"	1.97"	1.57"	1.57"	1.18"	X	X	X	X	X	
	15'	1.97"	1.97"	1.57"	1.57"	1.18"	0	0	X	X	X	X	
	12'	1.97"	1.97"	1.57"	1.57"	1.18"	0	0	X	X	X	X	
9'	1.57"	1.57"	1.18"	1.18"	0	0	0	X	X	X	X		
6'	1.57"	1.18"	1.18"	0	0	0	X	X	X	X	X		
3'	0	0	0	X	X	X	X	X	X	X	X		
0'	X	X	X	X	X	X	X	X	X	X	X		
		0'	3'	6'	9'	12'	15'	18'	21'	24'	27'	30'	33'
Horizontal Vent Run													

## Vent Clearances

The following clearances apply to the vent system regardless of vent manufacturer.

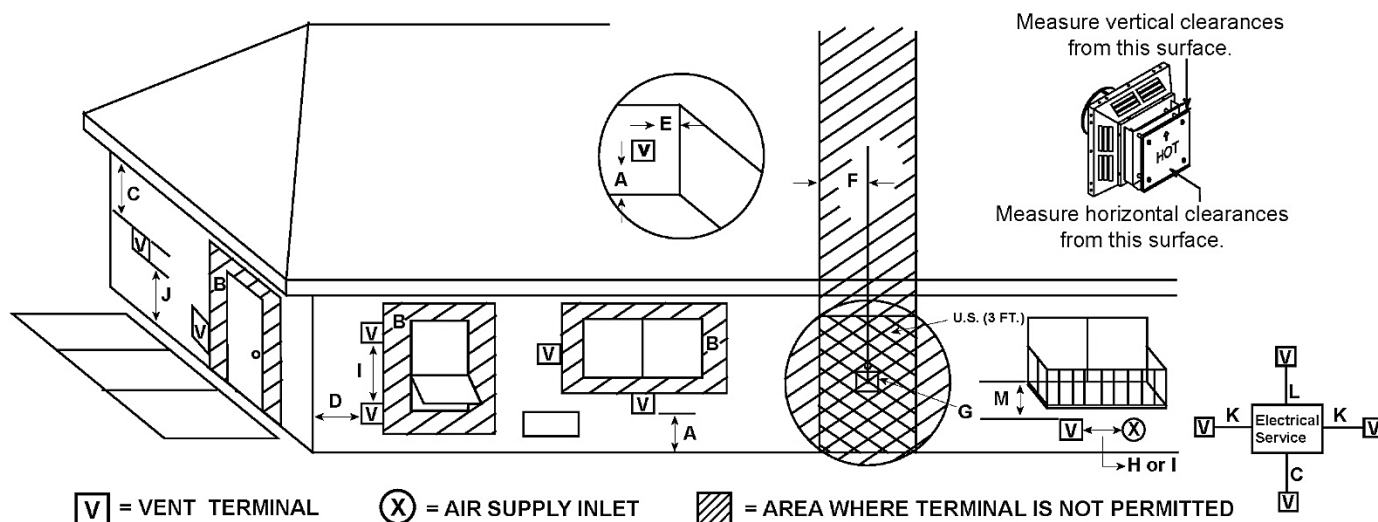


Vent Clearances	
Sides: 1"	Applies to entire circumference when venting is oriented vertically. Clearance is to <b>any</b> material.
*Top: 3"	Applies to venting oriented horizontally or at an angle. Clearance is to <b>any</b> material.
Bottom: 1"	

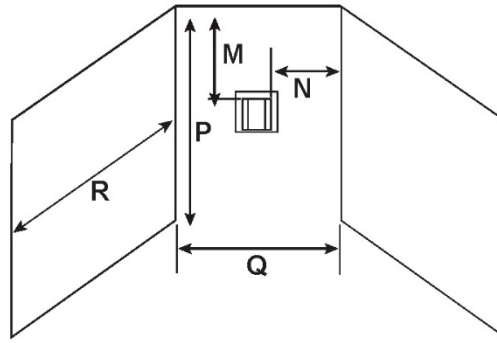
**\*Exception:** Wall thimble top clearance to any material is 1".

# Vent Termination

## Horizontal Termination Clearance Diagram



Location	Country	Minimum Clearance	Description
A	US & Canada	12 inches	Clearance above grade, veranda, porch, deck, or balcony. NOTE: On private property where termination is less than 7 feet above a sidewalk, driveway, deck, porch, veranda, or balcony, use of a listed cap shield is suggested.
B	US	≤ 50,000 BTU: 9 inches > 50,000 BTU: 12 inches	Clearance to an operable window or door. NOTE: Zero clearance to an inoperable window or door.
	Canada	12 inches	
C	US & Canada	24 inches	Vertical clearance to a <b>ventilated</b> soffit located above the vent termination.
		18 inches	Vertical clearance to an <b>unventilated</b> soffit located above the vent termination.
		42 inches	Vertical clearance to vinyl clad soffits and below electrical service.
D	US & Canada	9 inches	Clearance to an outside corner.
E	US & Canada	6 inches	Clearance to an inside corner.
F	US	N/A	Not to be installed above a gas meter/regulator assembly within 3 feet (90 cm) horizontally from the center-line of the regulator.
	Canada	3 feet	
G	US & Canada	3 feet	Clearance to gas service regulator vent outlet.
H	US	9 inches	Clearance to a non-mechanical air supply inlet to the building or the combustion air inlet to any other appliance. NOTE: Termination in a covered alcove space (spaces open only on one side and with an overhang) are permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. 1. There must be 3 feet minimum between termination caps. 2. All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap. 3. All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.
	Canada	12 inches	
I	US	3 feet	Clearance to a mechanical (powered) air supply inlet. NOTE: Termination in a covered alcove space (spaces open only on one side and with an overhang) are permitted with the dimensions specified for vinyl or non-vinyl siding and soffits. 1. There must be 3 feet minimum between termination caps. 2. All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap. 3. All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.
	Canada	6 feet	
J*	US & Canada	7 feet	Clearance above paved sidewalk or a paved driveway located on <b>public</b> property. NOTE: On private property where termination is less than 7 feet above a sidewalk, driveway, deck, porch, veranda, or balcony, use of a listed cap shield is suggested. *a vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.
K	US & Canada	6 inches	Clearance from sides of electrical service. NOTE: Location of the vent termination must not interfere with access to the electrical service.
L	US & Canada	12 inches	Clearance above electrical service. NOTE: Location of the vent termination must not interfere with access to the electrical service.



Covered Alcove: spaces open only on one side and with an overhang

Horizontal Termination Clearances Continued: Covered Alcove Application			
Location	Country	Minimum Clearance	Description
COVERED ALCOVE APPLICATION	M	US & Canada	16 inches
	Clearance under <b>non-vinyl</b> veranda, porch, deck, balcony, or overhang. NOTE: Termination in a covered alcove space is permitted with the dimensions specified. 1. There must be 3 feet minimum between termination caps. 2. All mechanical air intakes within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap. 3. All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.		
	N	US & Canada	6 inches
			12 inches
	P	US & Canada	8 feet
	Q	US & Canada	See table below.
	R	US & Canada	See table below.
			Alcove width (dependent on number of caps in the space).
			Alcove depth (dependent on number of caps in the space).

# Vent Caps	$Q_{\text{MINIMUM}}$	$R_{\text{MAXIMUM}}$
1 vent cap	3 feet	$2 \times Q_{\text{ACTUAL}}$
2 vent caps	6 feet	$1 \times Q_{\text{ACTUAL}}$
3 vent caps	9 feet	$\frac{2}{3} \times Q_{\text{ACTUAL}}$
4 vent caps	12 feet	$\frac{1}{2} \times Q_{\text{ACTUAL}}$
$Q_{\text{MIN}} = \# \text{ vent caps} \times 3$		$R_{\text{MAX}} = (\frac{2}{\# \text{ vent caps}}) \times Q_{\text{ACTUAL}}$

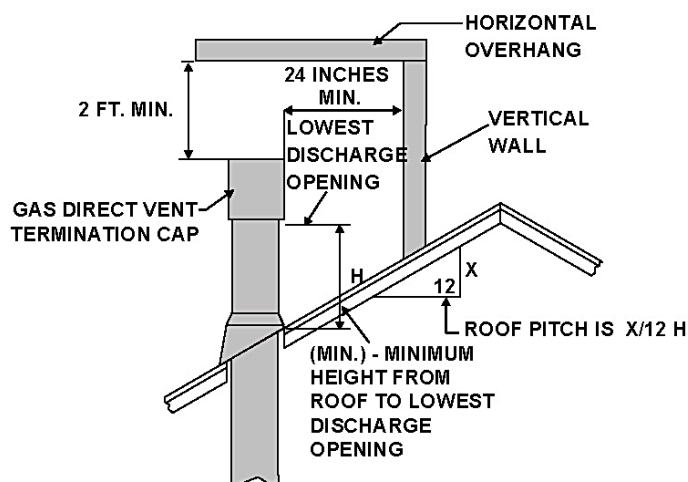


#### HORIZONTAL TERMINATION CAP CLERANCES - NOTES:

- If exterior walls are finished with vinyl siding, it is required that a vinyl protector kit be installed.
- Vent system termination is not permitted in screened porches.
- Vent system termination is permitted in porch areas with two or more sides open. You must follow all side walls, overhang and ground clearances as stated.
- Termination caps may be hot. Consider their proximity to doors or other traffic areas.

## Vertical Termination Clearance Diagram

### Minimum Height From Roof To Lowest Discharge Opening

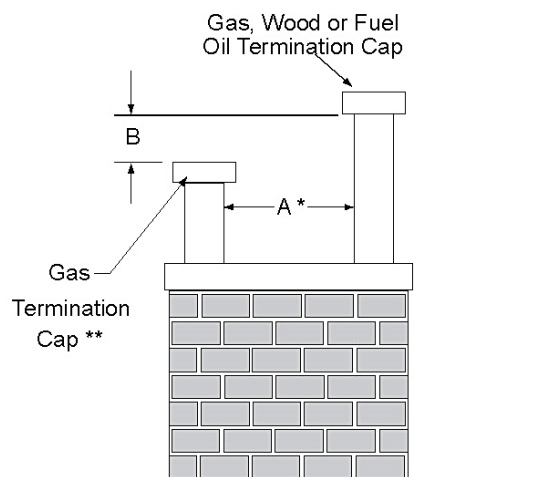


Roof Pitch	H (Min.) Ft.
Flat to 6/12.....	1.0*
Over 6/12 to 7/12.....	1.25*
Over 7/12 to 8/12.....	1.5*
Over 8/12 to 9/12.....	2.0*
Over 9/12 to 10/12.....	2.5*
Over 10/12 to 11/12.....	3.25
Over 11/12 to 12/12.....	4.0
Over 12/12 to 14/12.....	5.0
Over 14/12 to 16/12.....	6.0
Over 16/12 to 18/12.....	7.0
Over 18/12 to 20/12.....	7.5
Over 20/12 to 21/12.....	8.0

\*H min. may vary depending on regional snowfall. Refer to local codes.

### Staggered Termination Caps

A	B
6 in. (minimum) up to 24 in.	18 in. minimum
24 in. and over	0 in. minimum



\* If using decorative cap cover(s), this distance may need to be increased. Refer to the installation instructions supplied with the decorative cap cover.

\*\* In a staggered installation with both gas and wood or fuel oil terminations, the wood or fuel oil termination cap must be higher than the gas termination cap.

#### Notes:

1. Maintain a minimum of 2 feet clearance between edge of vertical termination and perpendicular wall.
2. If terminating near window, keep minimum of 2 feet clearance between window and vent termination.
3. All mechanical air intakes (such as an Enervex power vent) within 10 feet of a termination cap must be a minimum of 3 feet below the termination cap.
4. All gravity air intakes within 3 feet of a termination cap must be a minimum of 1 foot below the termination cap.

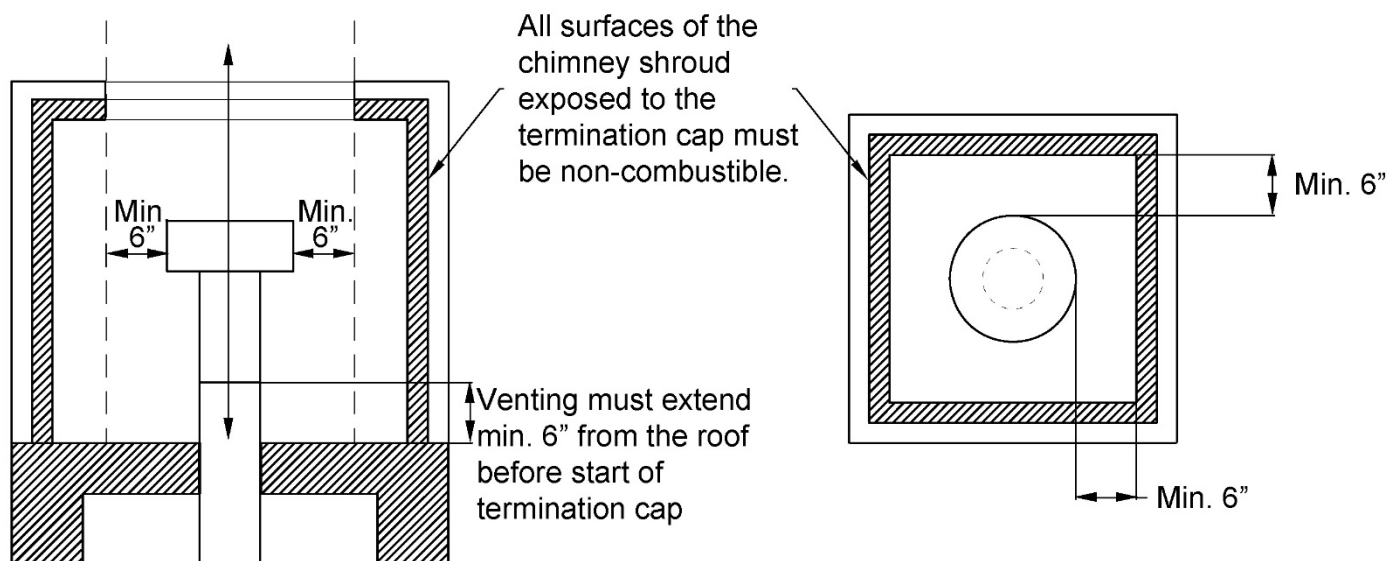
**NOTE:** This chart does not apply to a chimney shroud application. See the "Chimney Shroud" section for more information.

**TERMINATION CAP NOTE:** A Low-Profile Termination Cap can negatively impact flame appearance and is not recommended for use with the fireplace.

## Chimney Shroud

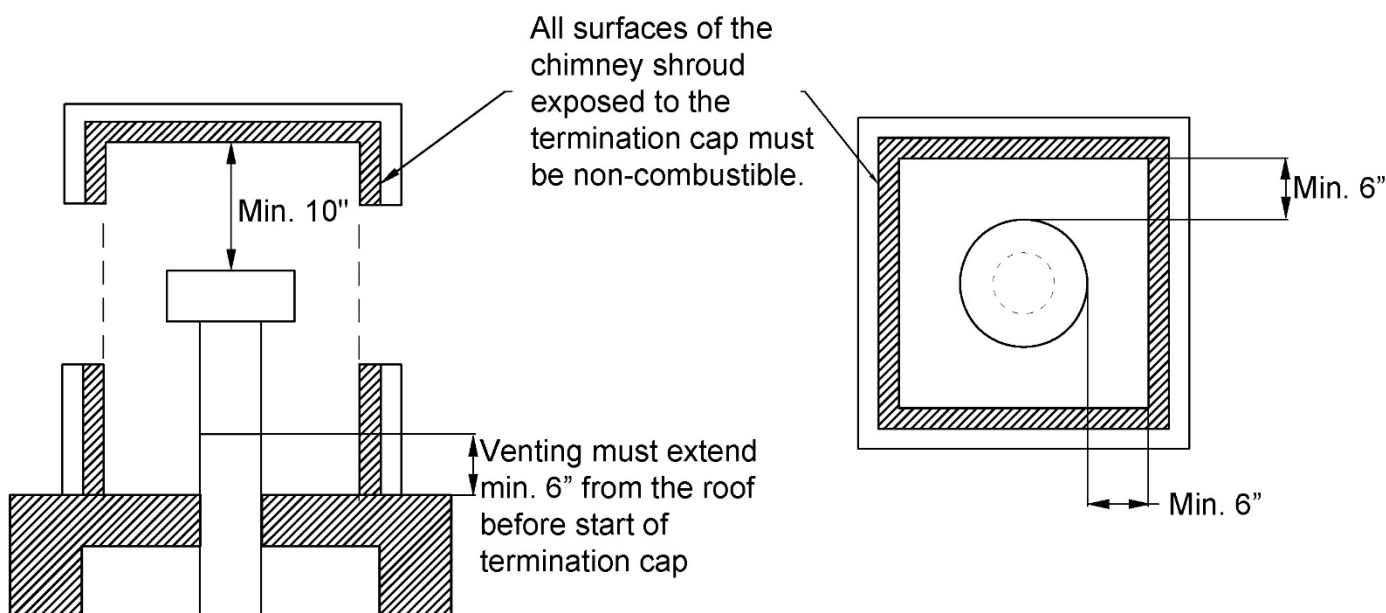
### Top Open

Keep a minimum **6-inch** clearance around the diameter of the cap's side edge and extending above and below the cap.



### Sides Open

Keep a minimum **6-inch** clearance around the diameter of the cap's side edge, and a minimum **10-inch** clearance above the top of the cap. For openings in the shroud, make sure to allow for enough air flow space to release the exhaust gases and allow the vent to operate properly.



## Vent Installation

Venting must be installed to meet the requirements as detailed in the following sections in conjunction with the vent system manufacturer's installation instructions. Venting must be supported by the structural surrounding and not by the fireplace. Each offset (elbow) must be strapped to reduce movement or possible disconnection.

The first section of venting must be secured to the fireplace starter collar with a minimum of 3 sheet metal screws no longer than 1/2". DO NOT use silicone to seal the sections. If sealing is required by the vent manufacturer or local code, use Mil-Pac sealant or equivalent.

 **WARNING:** Do not combine vent components from different vent manufacturers. Please follow the manufacturer's instructions for vent system installation.



## Vent Maintenance

Regular inspection of the vent system by a qualified service technician is recommended every six months. The following maintenance routing is recommended:

- Inspect for excessive condensation, e.g., water droplets forming in the inner lining, and subsequently dripping from the joints. This can cause corrosion in the system.
- Check for corrosion in areas exposed to the elements. Components with rust spots or holes must be immediately replaced.
- Ensure that there is no foreign material in the vents. Survey by removing the cap and shining a light down the vent.
- If possible, check all vent joints to make sure nothing has been disturbed or loosened.

## Co-Axial to Co-Linear Conversion

This section explains how the fireplace can be inserted into an existing solid fuel burning fireplace chimney by converting the co-axial venting to co-linear.



### IMPORTANT NOTES:

- The fireplace must be vented vertically to the outside and must use one of the approved co-linear flexible ducting systems or a co-axial flexible ducting system.
- Air intake (as applicable) and heat release is still required per installation guidelines (even when venting through a chimney). All other building requirements still apply.
- Restrictor use is not required when using co-linear venting.



### WARNINGS:


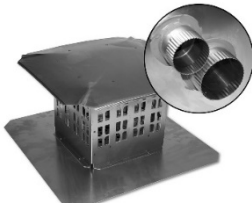
- If the vent system of this appliance is disconnected for any reason, the vent and air intake systems must be properly reassembled and resealed before this appliance is put into use.
- Proper installation of the vent system, as required in this manual, is vital to the performance of this appliance. Oversights or failure to conform to all installation requirements will void the applicable warranty.
- This appliance must be properly connected to a venting system in accordance with the Ortal's installation instructions. Operation of this appliance when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possibly death.
- Co-linear flexible aluminum venting must be professionally inspected periodically for corrosion and damage and replaced when necessary. If the installation does not allow for future inspection or replacement of the flexible aluminum venting, then stainless steel vent liners should be used.
- Co-linear portion of vent system may only be installed within a solid-fuel burning fireplace and chimney.
- The appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.

The plan to install a gas fireplace inside an existing solid fuel burning fireplace chimney must include inspection and cleaning of the fireplace cavity and the entire chimney system. The chimney top, especially masonry chimneys and wood framed chimney tops must be inspected, and the top surface must be repaired or replaced, if necessary. Unlined chimney flues are the most vulnerable to mortar corrosion and damage. These flues must be inspected, and repair must be done before dropping the flex vent liner for this Insert.

If you encounter a badly deteriorated or completely damaged firebox, do not proceed. These damaged structures must be reviewed by structural Engineers and Local Building Code officials must approve the repair work prior to this Insert being installed in such a damaged cavity.

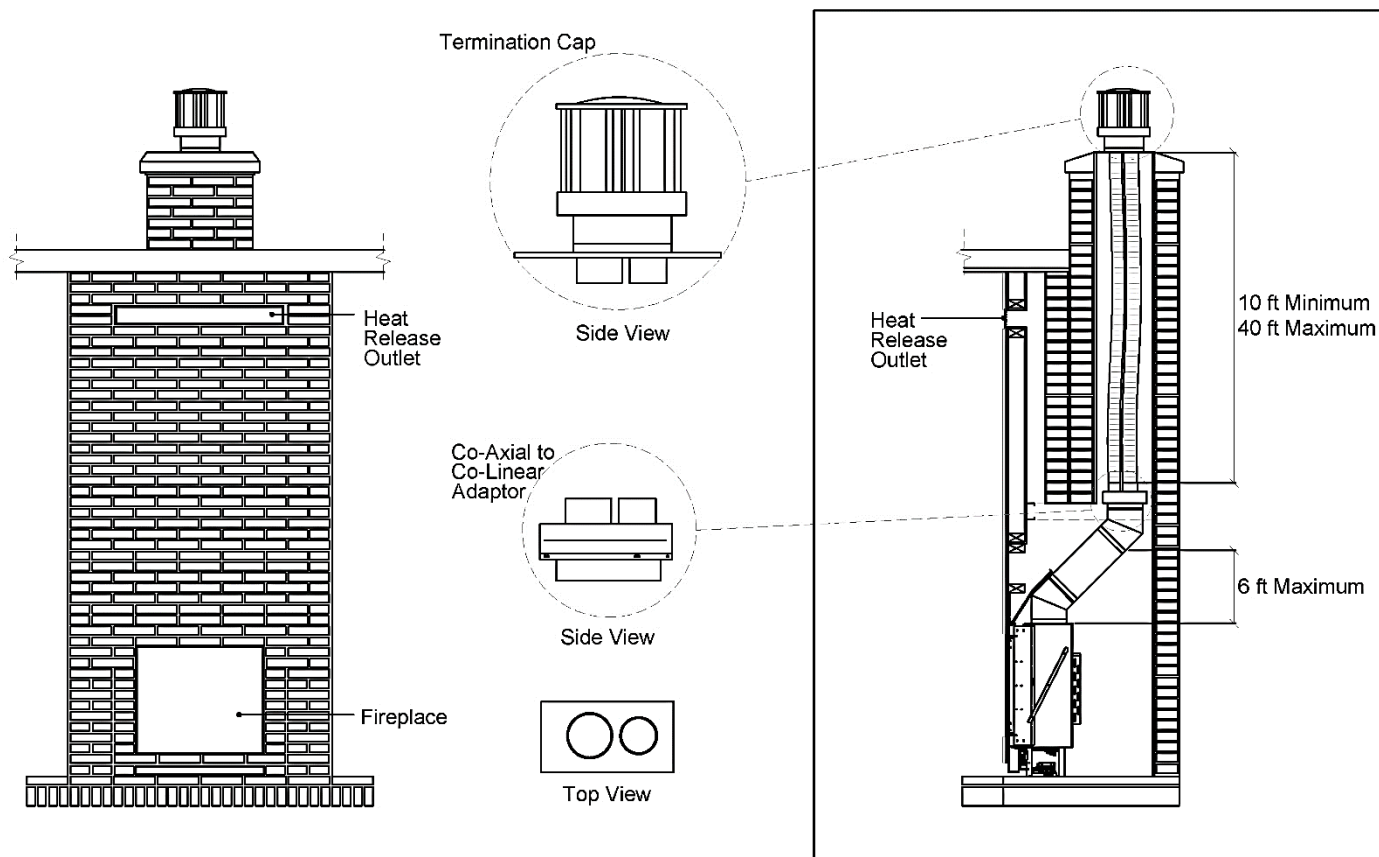
Series	Vent Size	Adapter (BDM or equivalent*)	Split Pipe Size	Termination Cap (BDM or equivalent*)
Wilderness 31	5"x8"	5"x8" to 4"x3" (DVR8-A34)	4"x3"	4"x3" (PV3-VCS34B)

\*BDM component part numbers are offered as a suggestion. Components from the following companies may also be used: DuraVent, Olympia, ICC, and Selkirk.

Example of Co-axial to Co-linear Appliance Adapters (BDM)	Example of Co-linear Terminal (BDM)
	

## Vent Configuration

- **Minimum Vertical Rise:** 10 feet (see diagram below)
- **Maximum Vertical Rise:** 40 feet (see diagram below)
- **Offsets:** Two 45° offsets may be used directly on the fireplace with up to a 6-foot section between them. The minimum vertical rise starts above them (see diagram below). No other offsets are permitted in the vent configuration. Offsets are not required to have.



## Gas

The fireplaces are approved for use with natural gas (NG) or propane (LP) only. No other fuel types are permitted.

## Gas Pressures

Fireplace Series	Burner	Gas Type	Inlet Pressure		Manifold Pressure	Heat Input (BTU/hr)		Orifice Size* (by log)
			Min	Max		Min	Max	
Wilderness 31	Chopped Wood or Dark Brown Firelogs	Natural Gas	7.0	11.0	4.7	12,613	29,861	220-160-220 180
		Propane	11.0	13.0	4.7	18,120	24,130	90-60-90 80
	Driftwood, Valley Oak, or Birch Firelogs	Natural Gas	7.0	11.0	3.7	16,781	32,768	320-180-320 260
		Propane	11.0	13.0	3.7	18,745	27,645	80-60-80 90

\*Orifice Size, Top Row (left to right): Left log, center log, right log. Bottom Row: Bottom of burner.

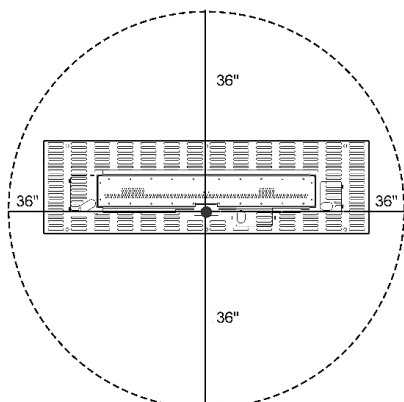


**NOTE:** It can take up to 20 minutes for the flames to turn yellow.

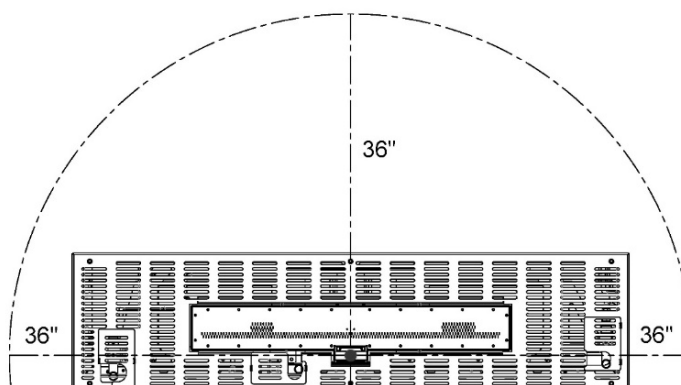
## Routing the Gas Line

Correctly size and route the gas supply line from the supply regulator to the area where the access panel is located (or to the burner area if no access panel is available), as per the requirements outlined in the latest edition of the National Fuel Gas Code, NFPA 54 (USA) or CAN/CSA-B1491 (Canada).

The gas and electrical components are attached to the pilot on a flexible gas line and can be kept directly under the fireplace or, depending on the model, moved to the left, right, or back of the fireplace within 36 inches of the pilot (located at the center front of the burner). See images below for details.



Wilderness 31 Front, Screen : Front, Back, Left, Right



Wilderness 31 Front, Double Glass : Left, Right, Back

Gas line should be routed to the access panel area (see "Access Panel" section for details). If no access panel is planned, gas line should be routed to the most accessible area within the 36" radius.

A gas shut-off valve and a 12" gas flex connector is provided with every fireplace. The location of the gas shut-off valve is dependent on local codes and requirements. Check with your authority having jurisdiction for more information.

**WARNING:** The main gas valve must be installed to allow complete disconnection of the fireplace from the gas supply piping system for servicing purposes.

## Gas Conversion

For gas conversion (NG to LP or LP to NG) in the field, Firelogs for the desired gas type must have been ordered and on site before gas conversion can occur. Firelog installation and gas conversion must be performed only by technicians who have specific authorization by Oortal to change these components. The Firelog Set must be supplied by Oortal. Using parts from other manufacturers or having an unauthorized party performing the conversion will void your fireplace's warranty. Conversion instructions are supplied with the kit. Below are the conversion kit part numbers which include the orifices, pilots spud & log set:

Dark Brown Firelog Set for Natural Gas: FR31: **SKU: GCLNDB450-US**  
 Dark Brown Firelog Set for Natural Gas: FR31H: **SKU: GCLNDB45E-US**  
 Dark Brown Firelog Set for Propane: FR31: **SKU: GCNLDB450-US**  
 Dark Brown Firelog Set for Propane: FR31H: **SKU: GCNLDB45E-US**

Chopped Wood Firelog Set for Natural Gas: FR31: **SKU: GCLNCW450-US**  
 Chopped Wood Firelog Set for Natural Gas: FR31H: **SKU: GCLNCW45E-US**  
 Chopped Wood Firelog Set for Propane: FR31: **SKU: GCNLCW450-US**  
 Chopped Wood Firelog Set for Propane: FR31H: **SKU: GCNLCW45E-US**

Driftwood Firelog Set for Natural Gas: FR31: **SKU: GCLNDW450-US**  
 Driftwood Firelog Set for Natural Gas: FR31H: **SKU: GCLNDW45E-US**  
 Driftwood Firelog Set for Propane: FR31: **SKU: GCNLDW450-US**  
 Driftwood Firelog Set for Propane: FR31H: **SKU: GCNLDW45E-US**

Valley Oak Firelog Set for Natural Gas: FR31: **SKU: GCLNVLYOKB453LO**  
 Valley Oak Firelog Set for Natural Gas: FR31H: **SKU: GCLNVLYOKB45ELO**  
 Valley Oak Firelog Set for Propane, FR31: **SKU: GCNLVLYOKB453LO**  
 Valley Oak Firelog set for Propane, FR31H: **SKU: GCNLVLYOKB45ELO**

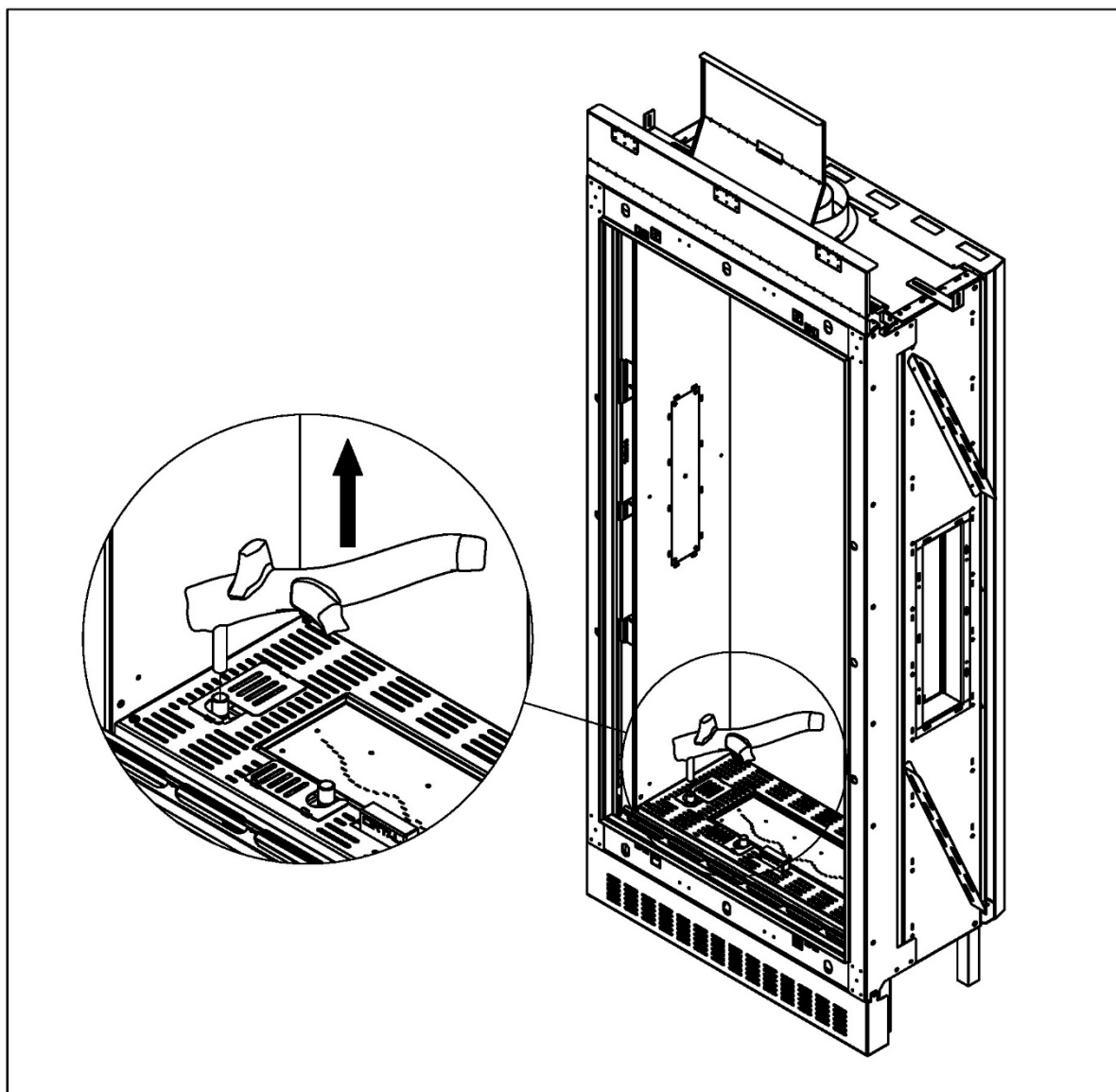
Birch Firelog Set for Natural Gas: FR31: **SKU: GCLNBIRCHB453LO**  
 Birch Firelog Set for Natural Gas: FR31H: **SKU: GCNLBIRCHB453LO**  
 Birch Firelog Set for Propane: FR31: **SKU: GCLNBIRCHB45E3LO**  
 Birch Firelog Set for Propane: FR31H: **SKU: GCNLBIRCHB45E3LO**

### NOTES:

- Log sets for NG and LP have different SKUs. Please consult the price list to ensure you have the correct SKU.
- FR31 & FR31H have different Propane SKUs due to different style orifices. FR31H has elbow style orifices while FR31 uses the olive nut.
- LP logs do not contain nickel strands inside the logs. NG logs do contain nickel strands.

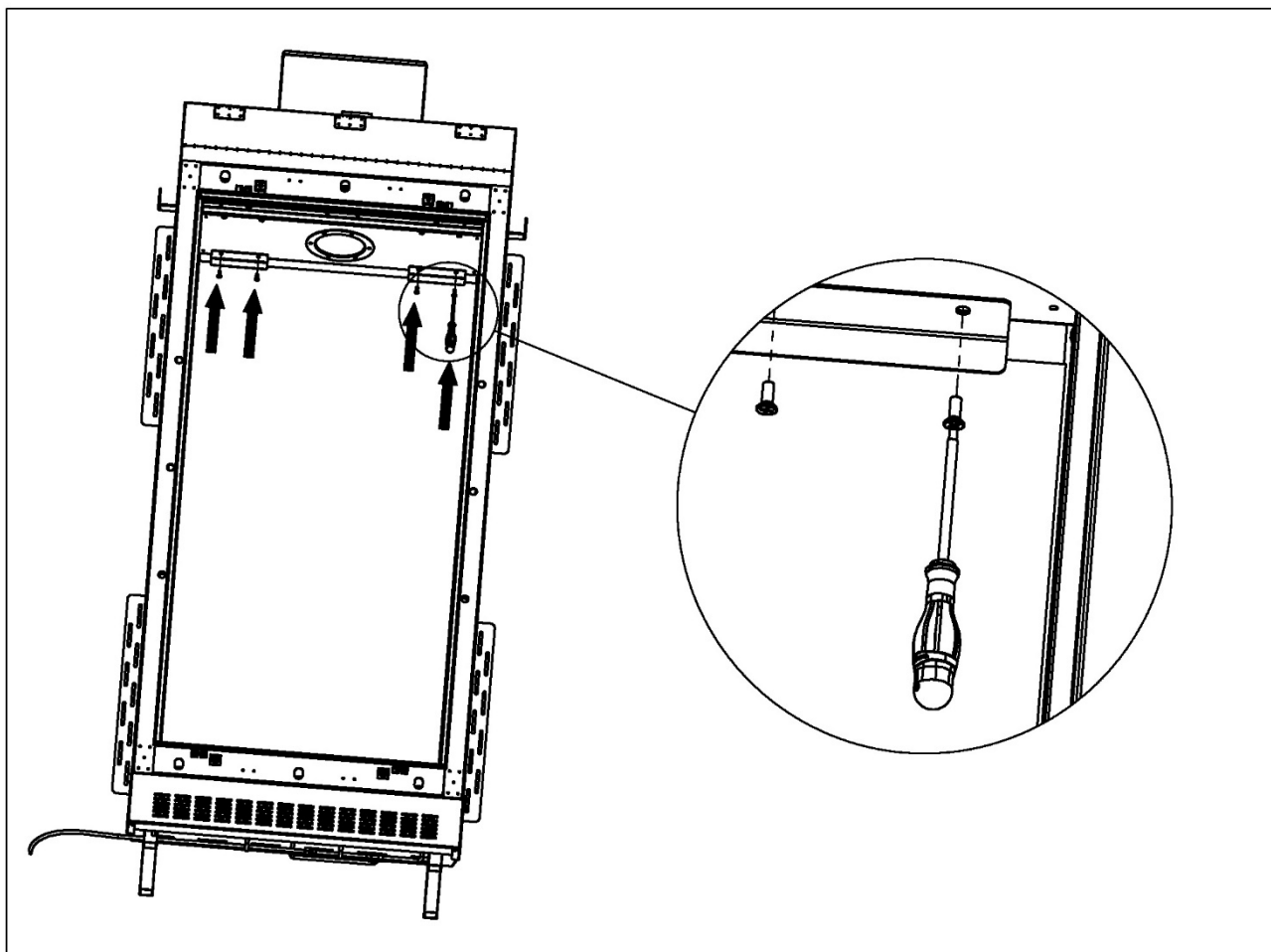
**1- Remove the heat barrier and inner glass.**

**2- Pull the log up to remove from base, as shown in figure (1).**



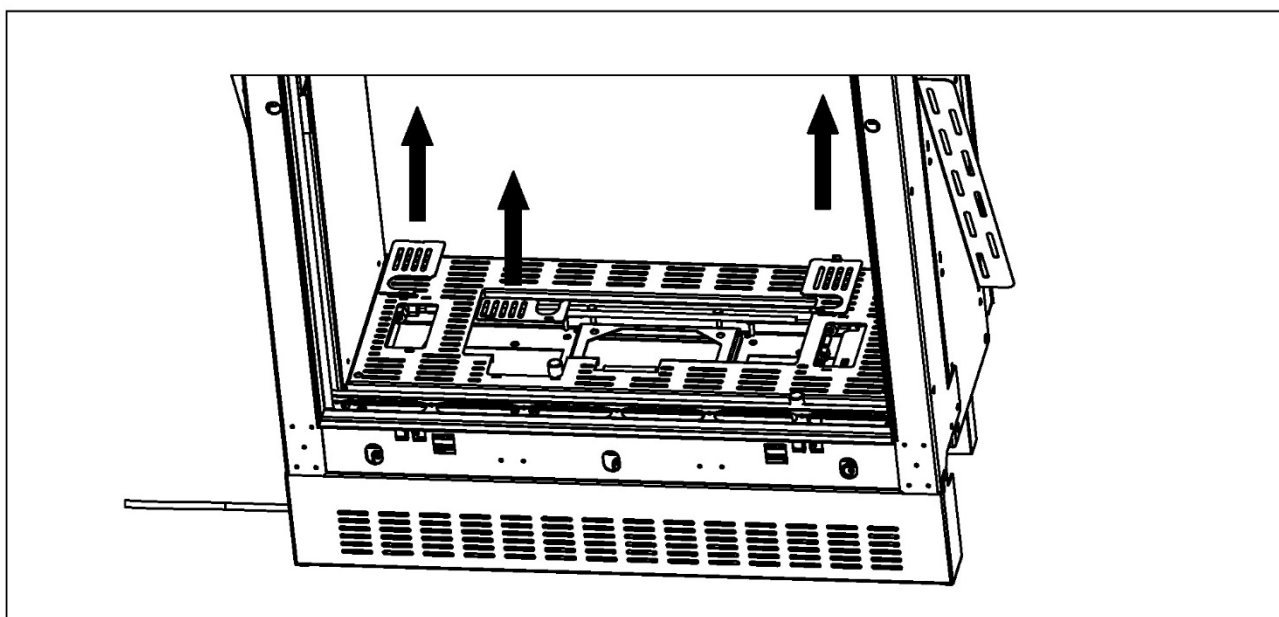
Figure(1)

**3- Remove the screws (qty 4) attaching the mirror holder brackets and then take out the mirror panels as shown figure (2).**



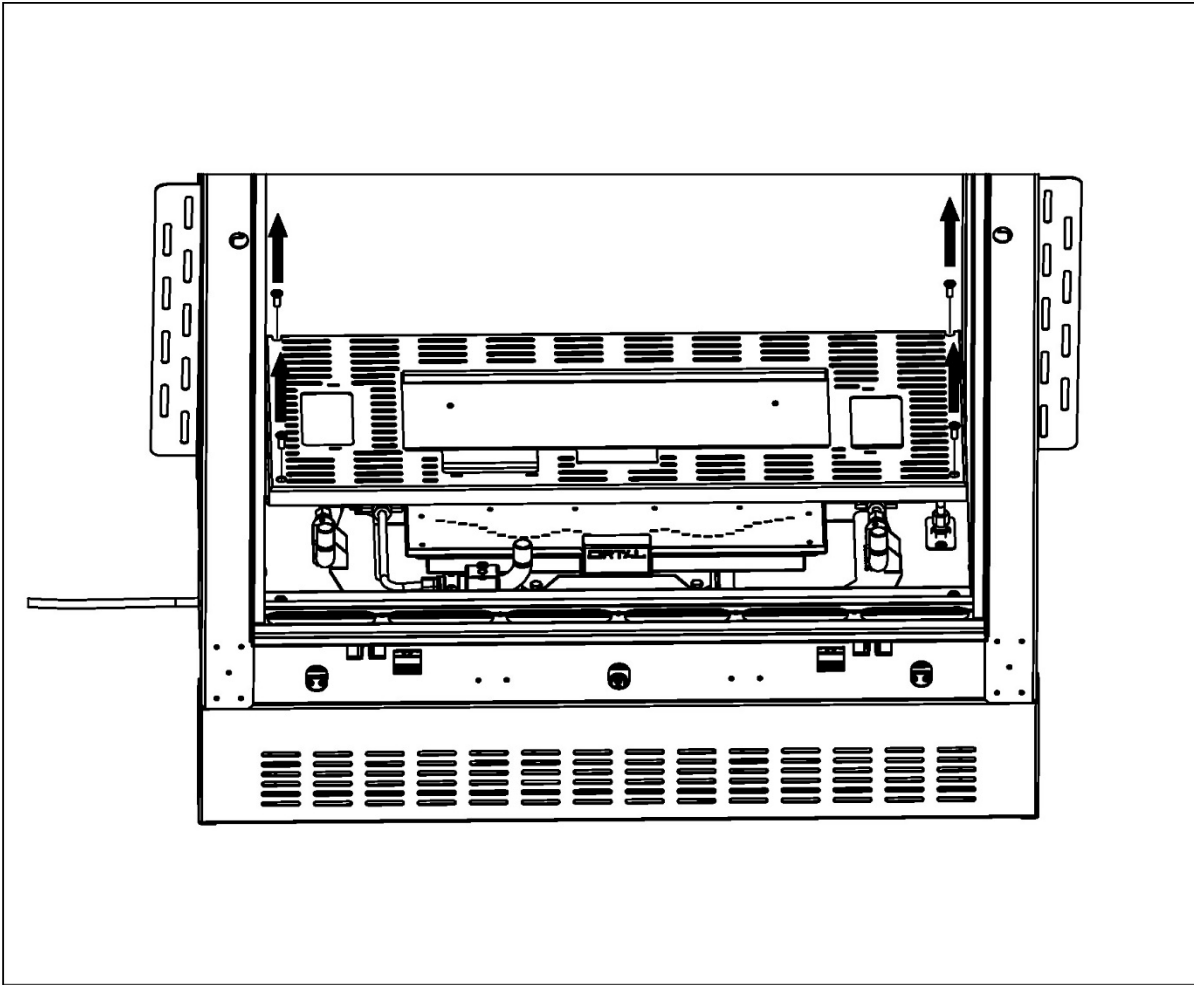
Figure(2)

**4 -Pull up to remove the grill covers as shown in figure (3).**



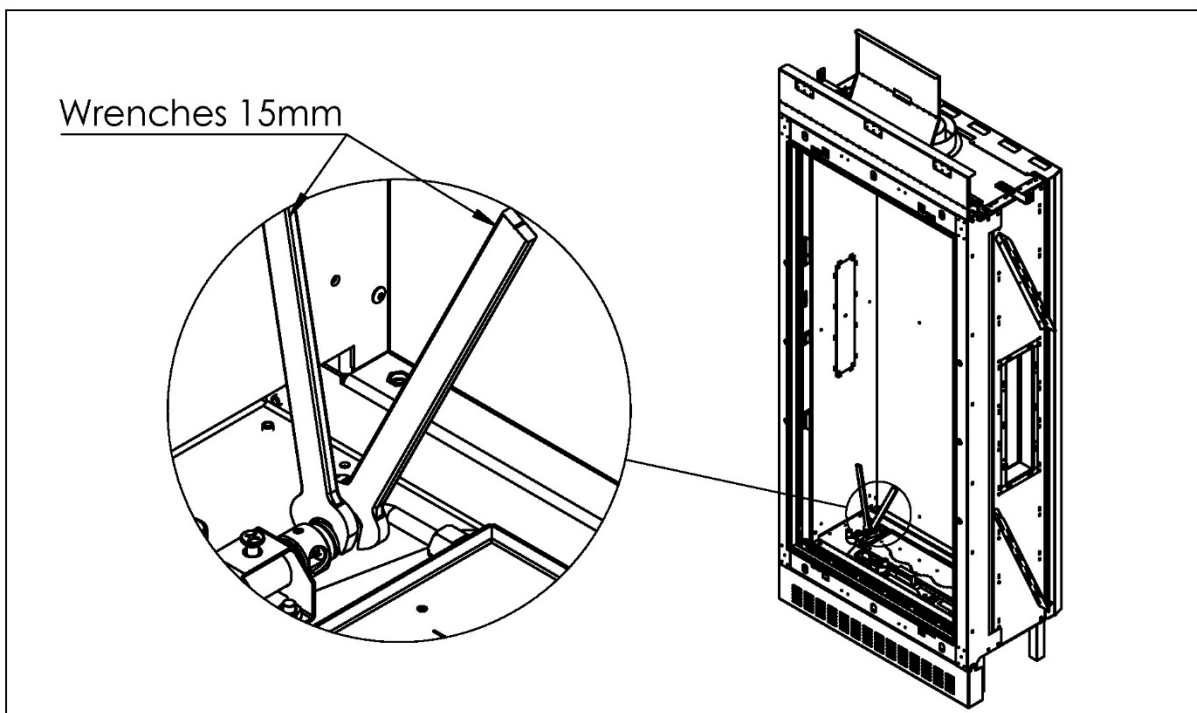
Figure(3)

**5- Remove the 4 grill screws and remove the grill as shown in figure (4).**



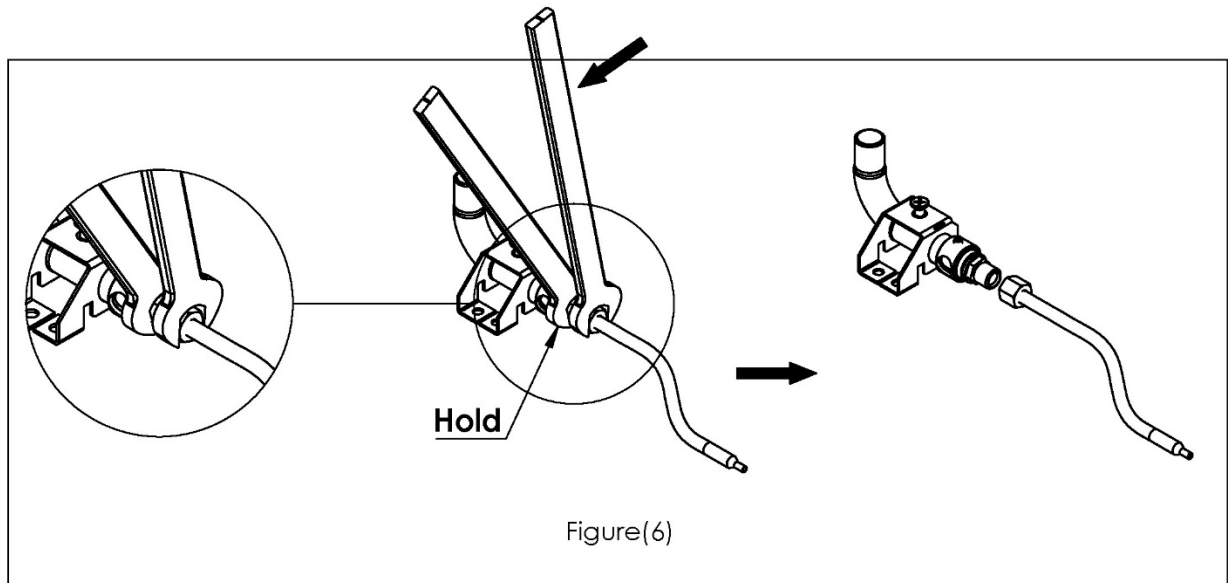
Figure(4)

**6- Insert a 15mm wrench to the pipe connector, and a 15mm wrench to the orifice as shown in figure (5).**

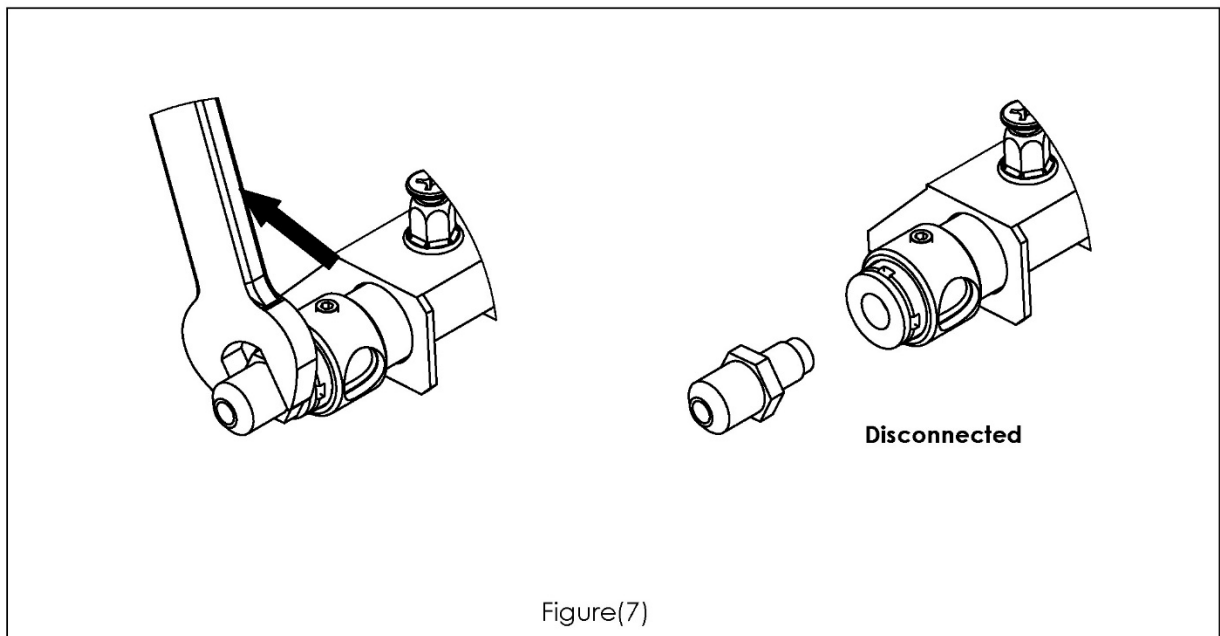


Figure(5)

**7- Hold the wrench attached to the orifice, and push the wrench to loosen the pipe connector and pull to release the pipe as shown in figure (6).**

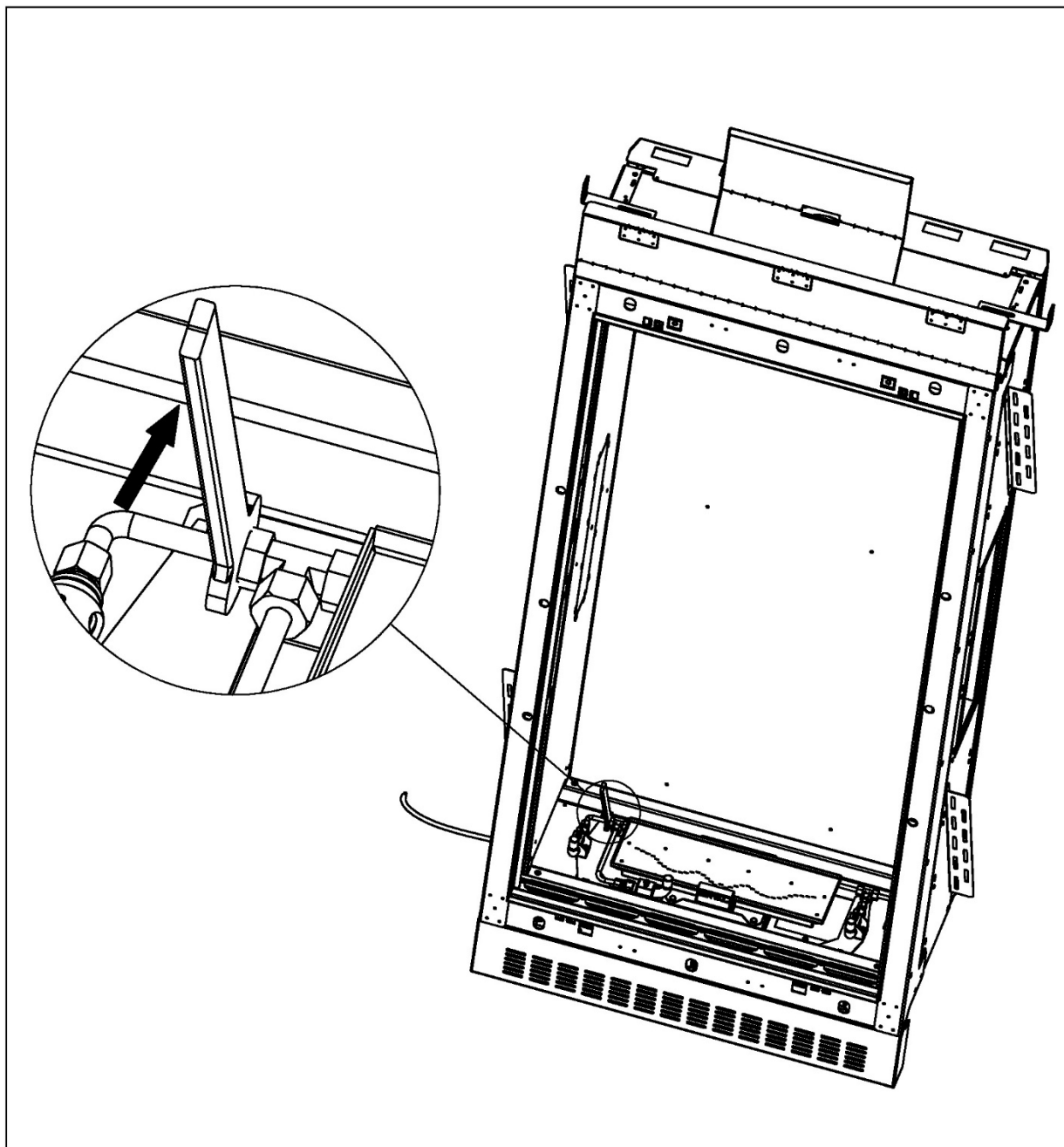


**8- Using 15 mm wrench disconnect the orifice until its released as shown in figure (7).**



**9- Repeat steps 6,7 and 8 disconnect the middle and right log bases.**

- 10- Insert 15mm wrench to the (T)connector nut and hold the (T) connector by hand, then push the wrench using the other hand as shown in figure (9).

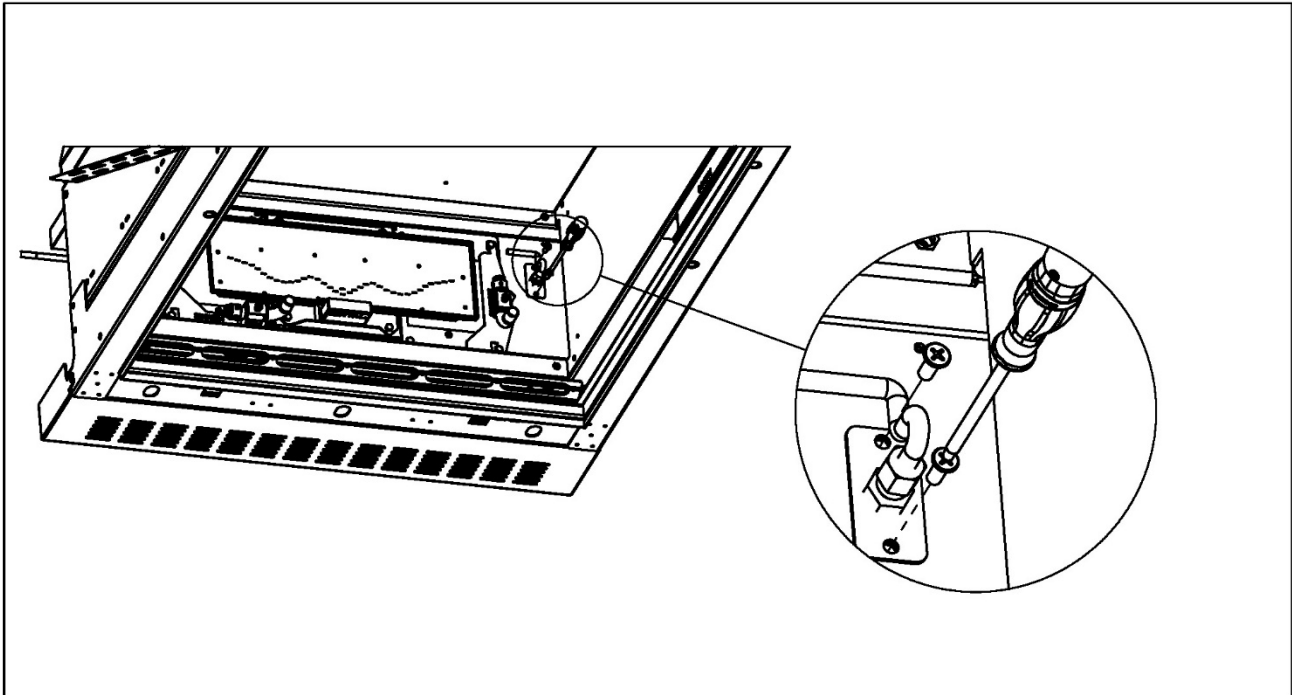


Figure(9)

- 11- Repeat step 10 to disconnect all the (T)connectors nuts from all pipes.

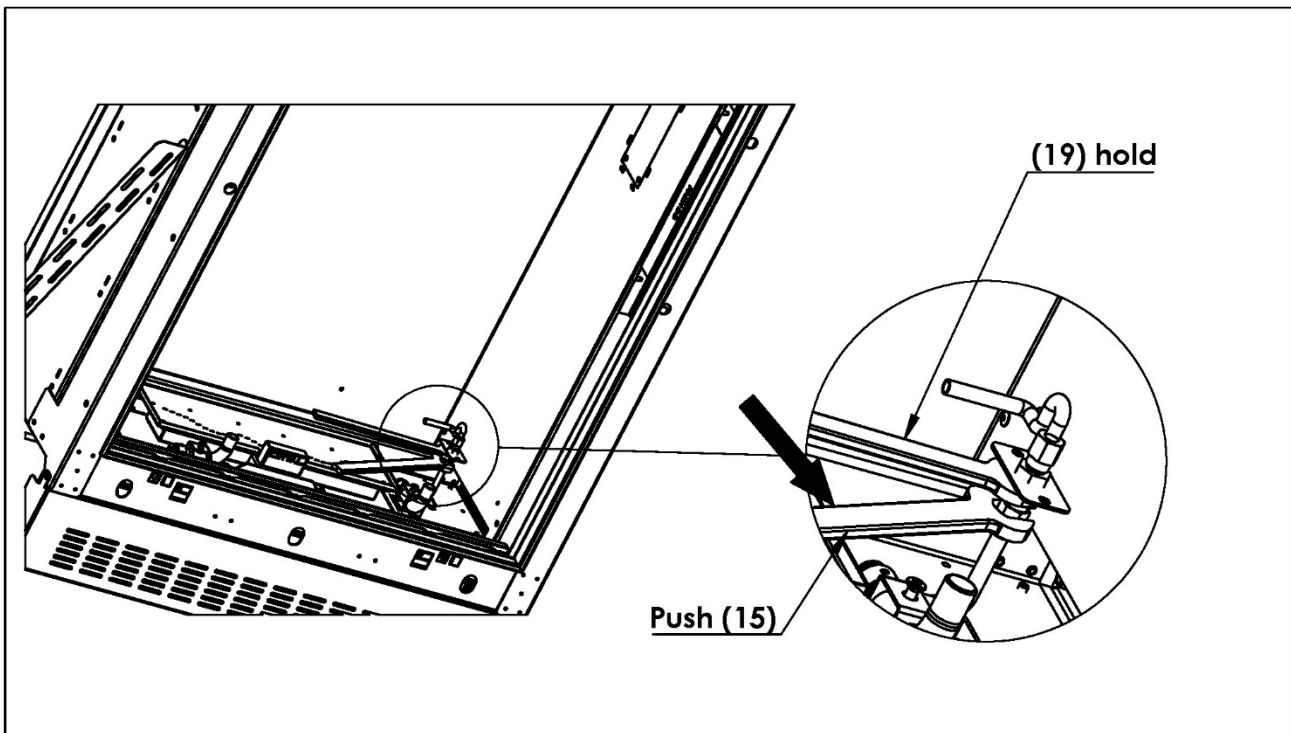


- 12- Using a screwdriver remove the two screws that holding the gas sealing bracket as shown in figure (10).



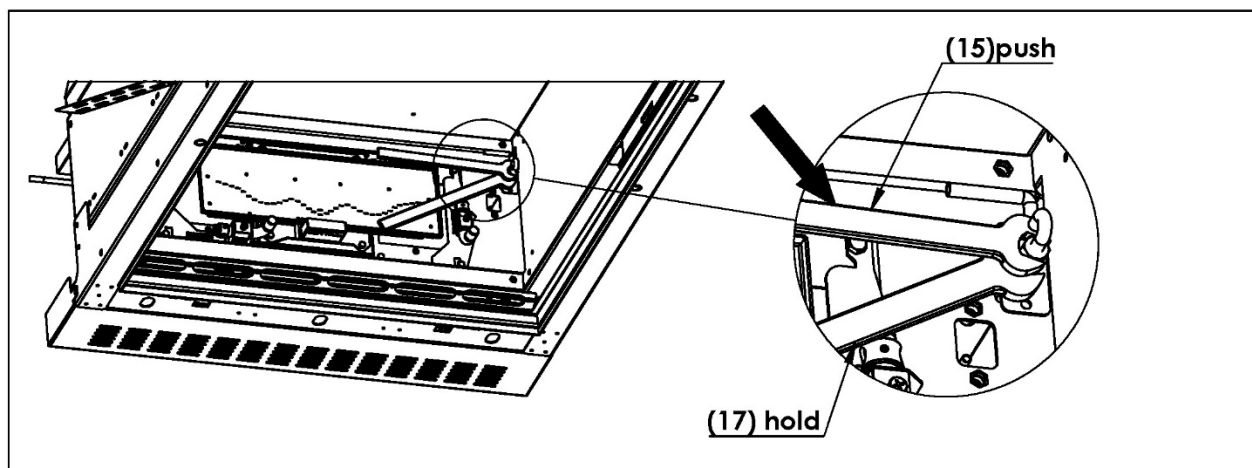
Figure(10)

- 13- Pull the pipe to be able to reach the connections then insert wrenches 19 and 15 mm. hold the 19 and move the wrench 15 to loosen the lower pipe connector as shown in figure (11).



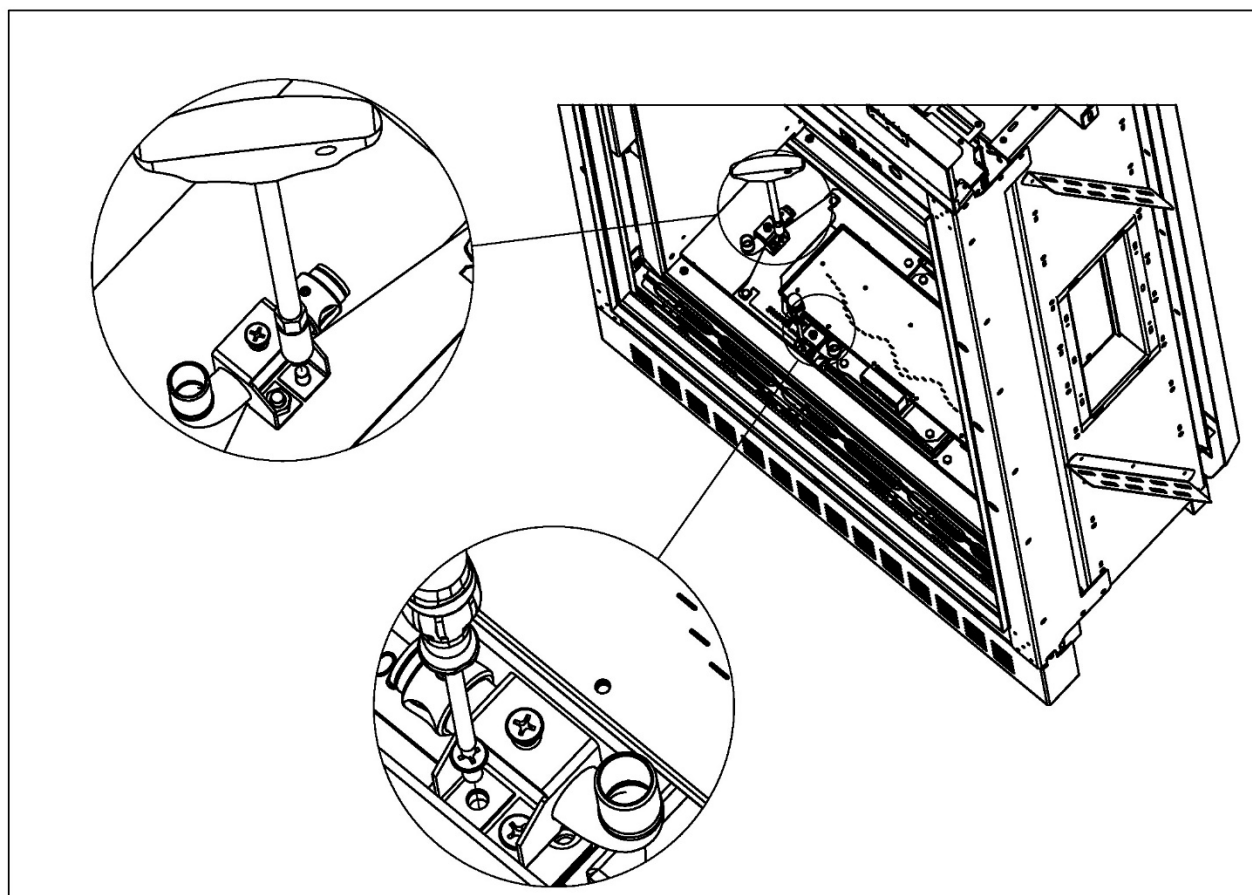
Figure(11)

- 14- Insert two wrenches 17 & 15 mm, hold the 15mm wrench and move the 17mm wrench to loosen the upper pipe connector as shown in figure (12).



Figure(12)

- 15- Using 10mm key remove the nuts holding the left and right bases (two per each). For the middle base use screwdriver to remove the screws holding the base to the body, as shown in figure (13).



Figure(13)

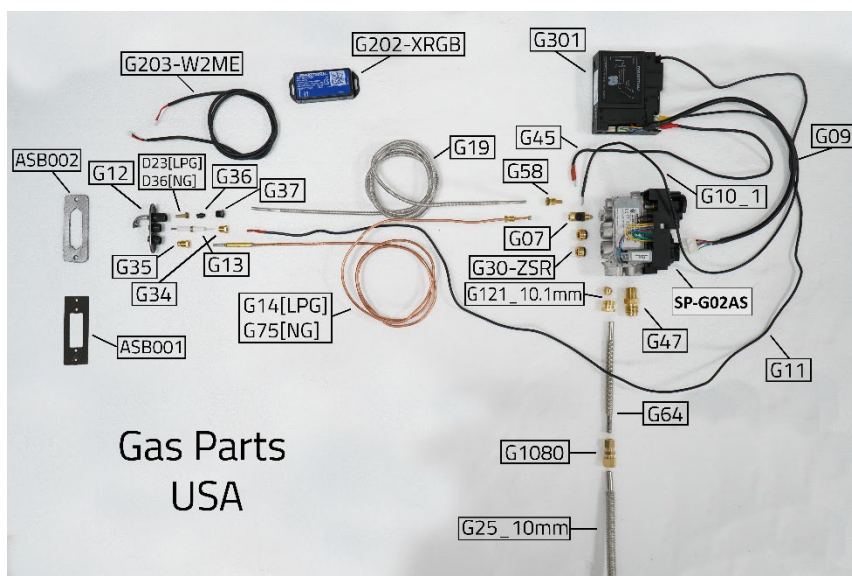
## High Altitude Requirements

For elevations above 2,000 feet, the fireplace shall be re-rated 4% for each 1,000 feet above sea level.

In Canada: Input ratings are certified without a reduction of input rate for elevations up to 4500 feet above sea level. Please consult provincial and/ or local authorities having jurisdiction for installations at elevations above 4500 feet.

## Gas and Electrical Components

Assemblies and components are listed and described in the tables following the figure.



Part Number	Description
ASB001	Pilot Bracket
D23	Orifice LPG
D36	Orifice NG
SP-G02AS	Mertik Gas Valve
G301	Symax Receiver
G202-XRGB	Symax Wi-Fi Box
G203-W2ME	Symax Wi-Fi Box Cable
G07	Thermocouple Block
G09	Wire Harness for Receiver and Gas Valve
G10_1	Yellow Cable
G11	Spark Wire
G12	Pilot Base
G75 G14	Thermocouple NG Thermocouple LPG

Part Number	Description
ASB002	Pilot Gasket
G13	Electrode Target Type
G121	Main Burner Gas Fitting
G25	Burner Gas Tube
G19	Pilot Gas Tube
G34	Spark Plug Connector
G35	Thermocouple Connector
G36	OLIVE D.4 Pilot gas tube compression ring valve
G37	Pilot gas tube fitting burner side
G38	Pilot Assembly Gasket
G45	Red Cable
G58	Connection fitting 4mm One-piece
G47	Fitting for main line inlet to gas valve GV60

The manufacturer of Ortal's gas and electrical components is Mertik Maxitrol. For information on these components, please visit the manufacturer's website: [www.mertikmaxitrol.com](http://www.mertikmaxitrol.com)

## Electrical



**WARNING:** Disconnect the power supply before servicing any electrical components.

## Electrical Requirements

A duplex receptacle with two outlets (not included) must be installed in the location where the gas and electrical components will be placed, which must be to the side or back of the fireplace within **36 inches** of the pilot (see diagram in "Routing the Gas Line" section). Electrical work should be performed by a qualified licensed electrician, per local code.

Outlet Type	Power Requirements
1 Duplex Receptacle (2 outlets)	120V, 15 amp, 60Hz





**NOTE:** Any device that functions using the same radio frequency as the handset will be affected when remote-controlled handset is in use.

## Pairing the Remote and Receiver

To set up the remote-control device to operate the fireplace, follow the following guidelines to pair the remote and receiver unit on the same radio frequency.

1. Press and hold the receiver's reset button until you hear two beeps. The first beep is short, and the second beep is long. After the second beep, release the reset button.



2. Within the subsequent 20 seconds, press the following button depending on the mode of operation:
  - **10-Button Handset:** Press the  button. "CONN" and a running number from 1 to 8 will appear on the handset display confirming that the synchronization and data exchange are in process.
  - **Puck Handset:** Press and hold the  button approximately 4 seconds.
  - **Wall Switch:** Use the 10-button handset to synch with the receiver. Once the remote and receiver are paired, the wall switch will function normally.
  - **MyFire App:** Use the 10-button handset to synch with the receiver. Once the remote and receiver are paired, the App will function normally.
3. You will hear two short beeps confirming the connection.



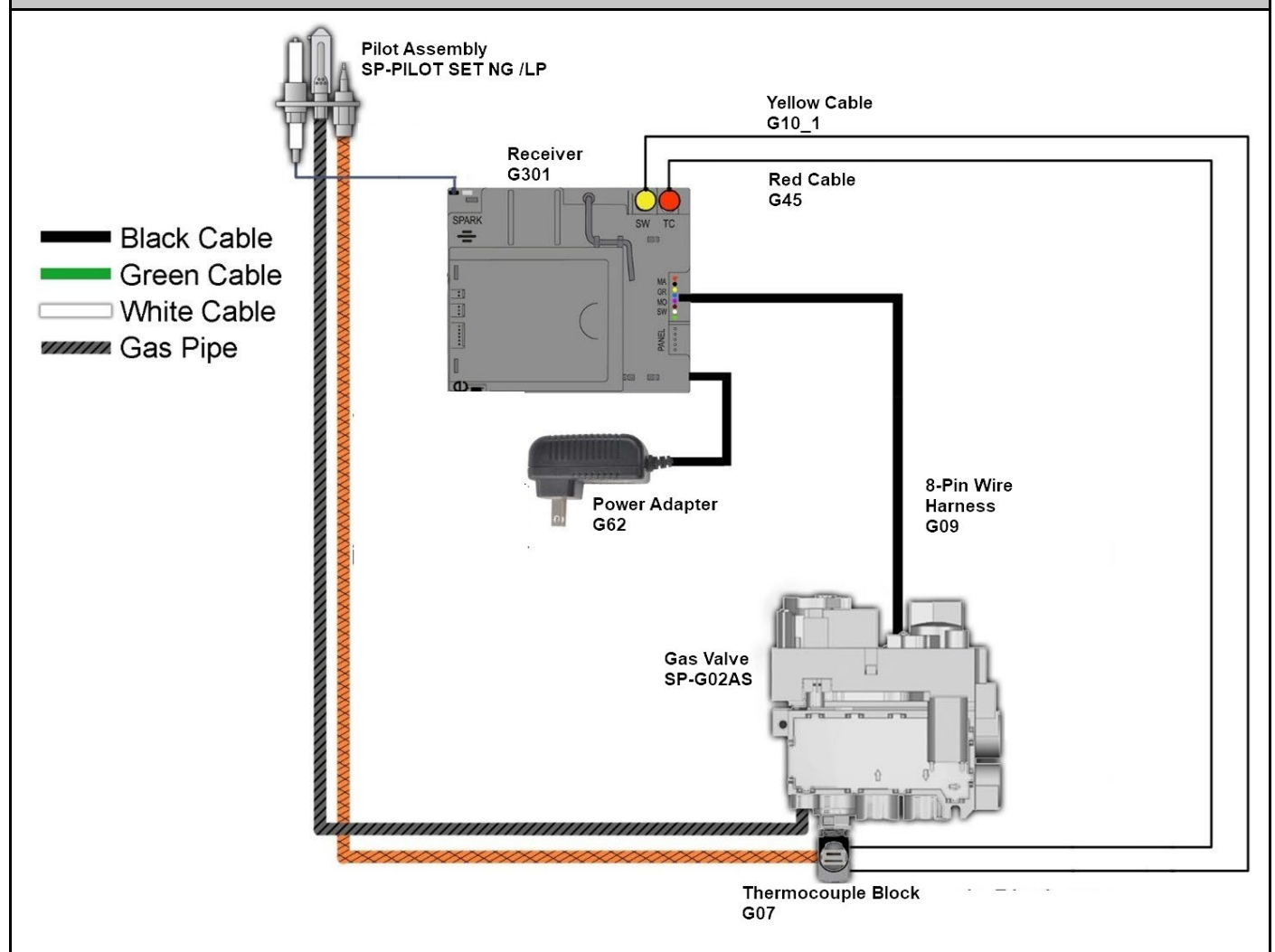
### NOTES:

- If you hear one long beep, this indicates the connection has failed or the wiring is incorrect.
- The connection between remote and receiver only needs to be made once and is not required after changing the batteries in the remote.

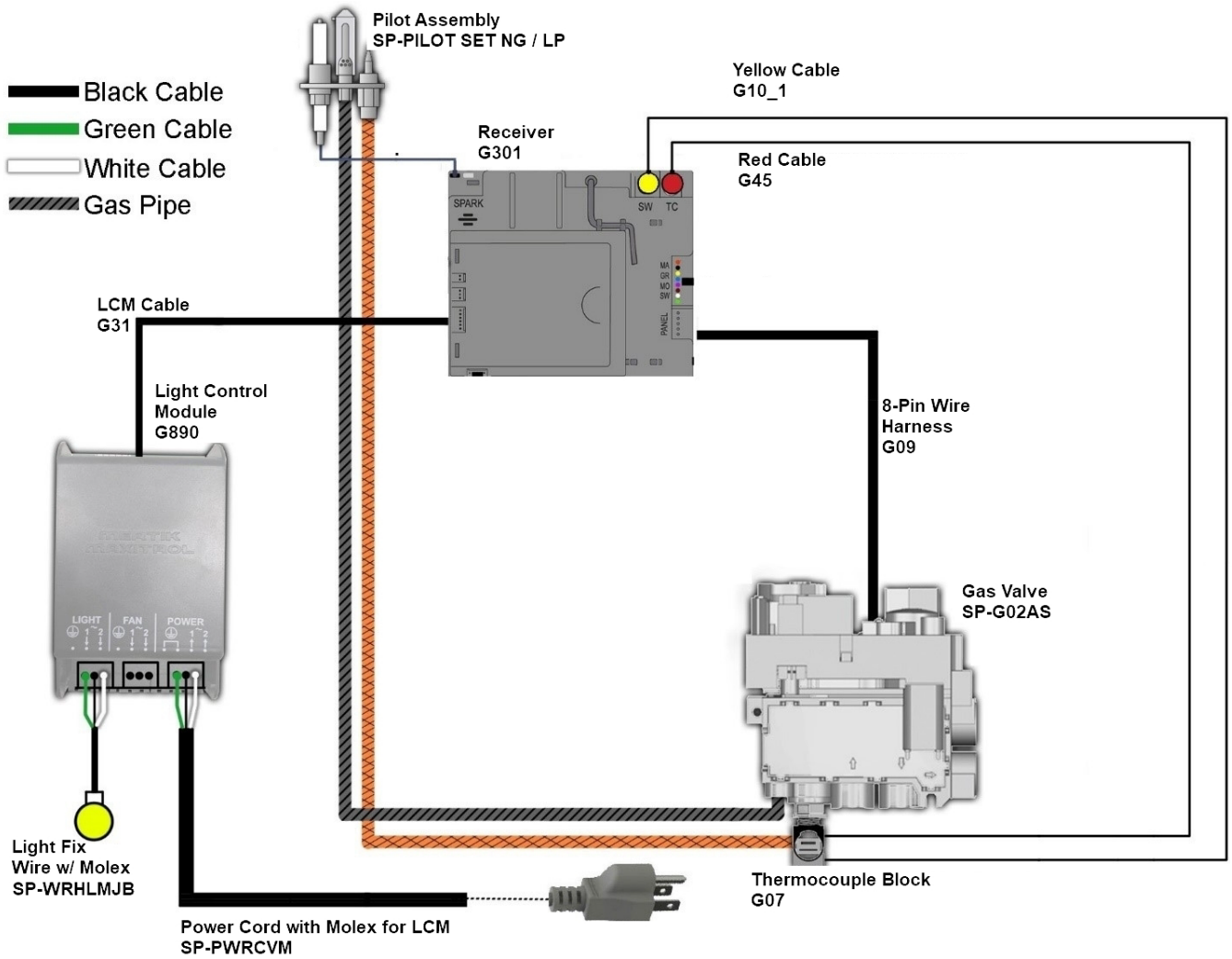
## Wiring Diagrams

The following diagrams show the electrical wiring required for different feature combinations. For wiring diagrams with Ortal or Enervex power vent, refer to the applicable power vent manual. For wiring diagrams with CO shutoff kit, refer to CO Shutoff Kit spec sheet at [www.ortalheat.com](http://www.ortalheat.com).

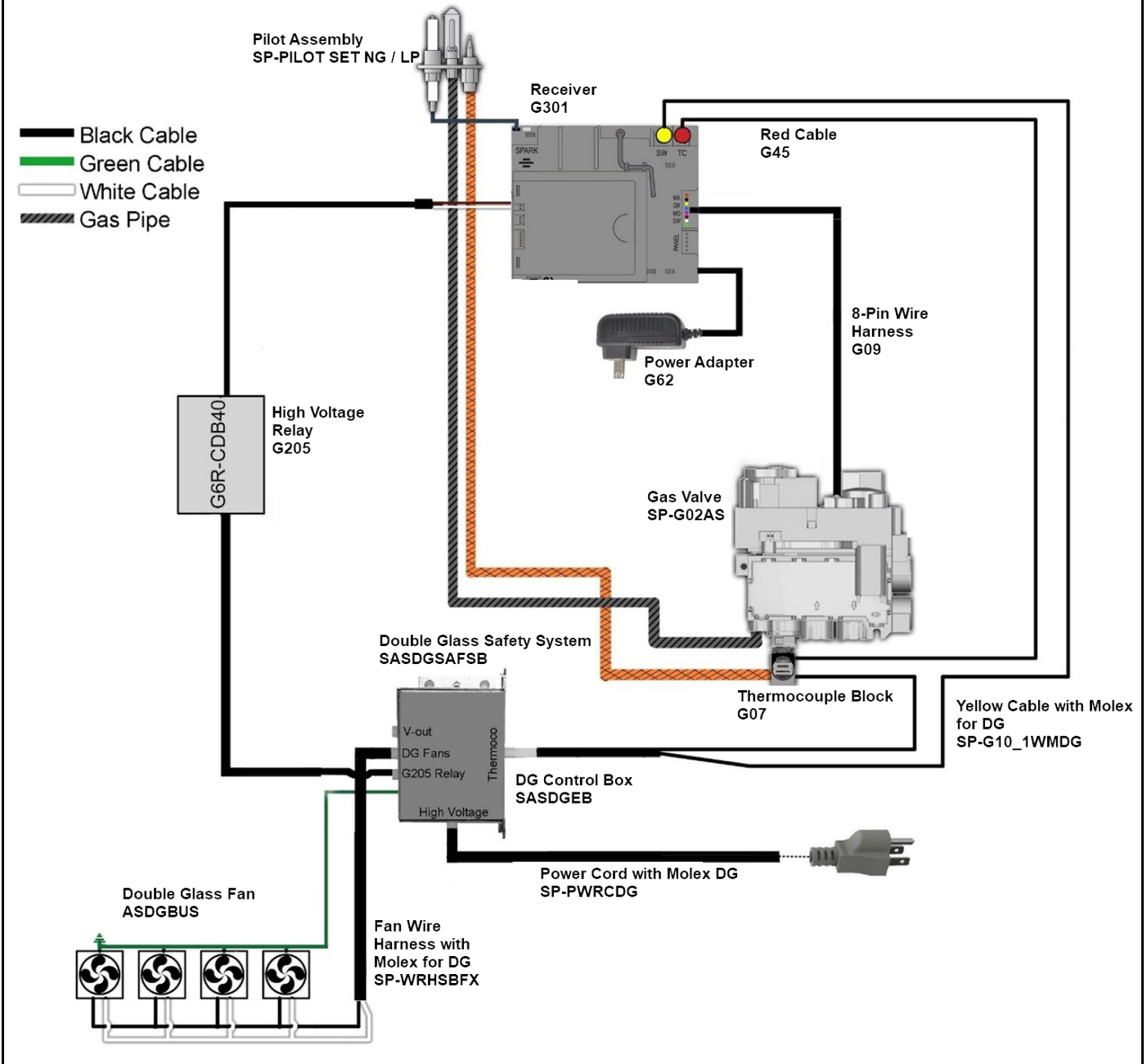
**Wiring Diagram: Screen Fireplace with NO internal Lighting (FR31H)**



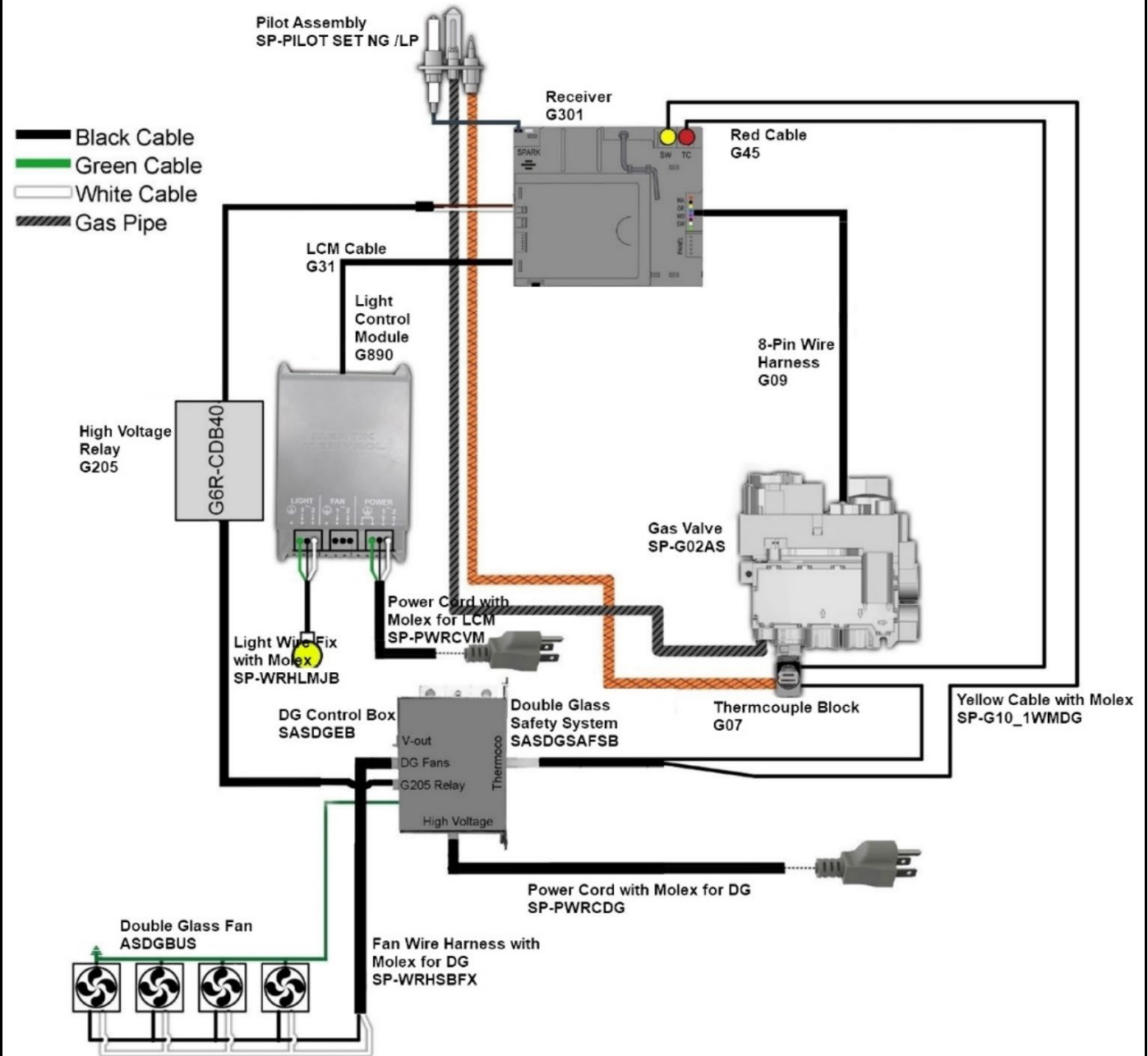
# Wiring Diagram: Screen Fireplace with Interior Lighting (FR31)



# Wiring Diagram: Double Glass Fireplace with NO Interior Lighting (FR31H)



## Wiring Diagram: Double Glass Fireplace with Interior Lighting (FR31)





# Home Automation Wiring Diagram

Use the following wiring diagram to connect fireplace control to a hardwired home automation system.

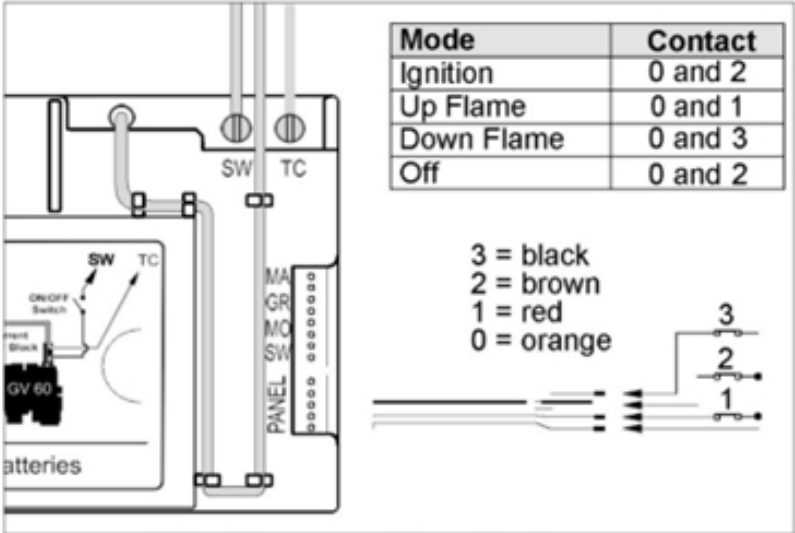
Contacts Options/Operation

**Ignition:** Close contacts 0 (orange) and 2 (brown) simultaneously for 1 second. The fireplace automatically goes to high after ignition.

**Up Flame:** Close contacts 0 (orange) and 1 (red) simultaneously. The contact needs to be closed for 12 seconds to turn the motor from end-stop to end-stop.

**Down Flame:** Close contacts 0 (orange) and 3 (black) simultaneously. The contact needs to be closed for 12 seconds to turn the motor from end-stop to end-stop.

**Off:** Close contacts 0 (orange) and 2 (brown) simultaneously for 1 second.



The diagram shows a fireplace control unit with terminals SW, TC, MA, GR, MO, and SW. It is connected to a control panel with terminals 0, 1, 2, and 3. A legend indicates: 3 = black, 2 = brown, 1 = red, 0 = orange. A table lists the modes and their corresponding contacts: Ignition (0 and 2), Up Flame (0 and 1), Down Flame (0 and 3), and Off (0 and 2). A note states: 3 = black, 2 = brown, 1 = red, 0 = orange.

Mode	Contact
Ignition	0 and 2
Up Flame	0 and 1
Down Flame	0 and 3
Off	0 and 2

3 = black  
2 = brown  
1 = red  
0 = orange

Wiring Diagram and Operation Sequence

**Mode of Operation:** The external source provides ON and OFF operation only. The Timer/Thermostat handset provides all other functions.

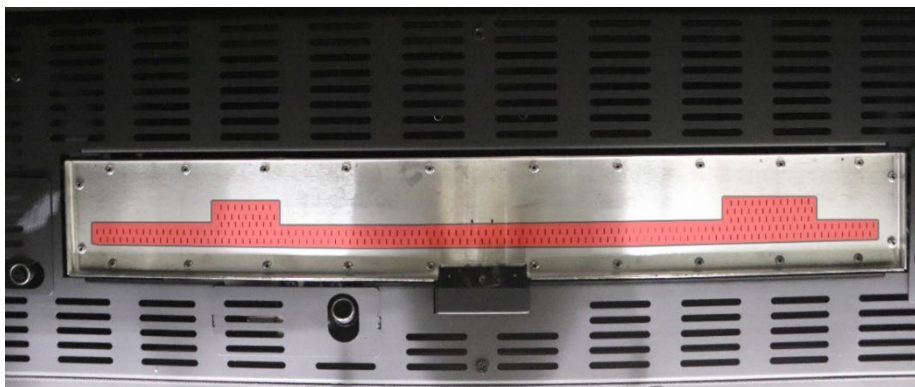
**NOTICE:** The Timer/Thermostat handset in Thermostatic Model controls the room temperature even if the fire is turned on by the external source. If the handset is in Manual Mode, the fire will go to High Fire in the next cycle of external operation.

**NOTE:** This wiring diagram is for hardwired home automation systems only and will not connect the fireplace to a wireless system.

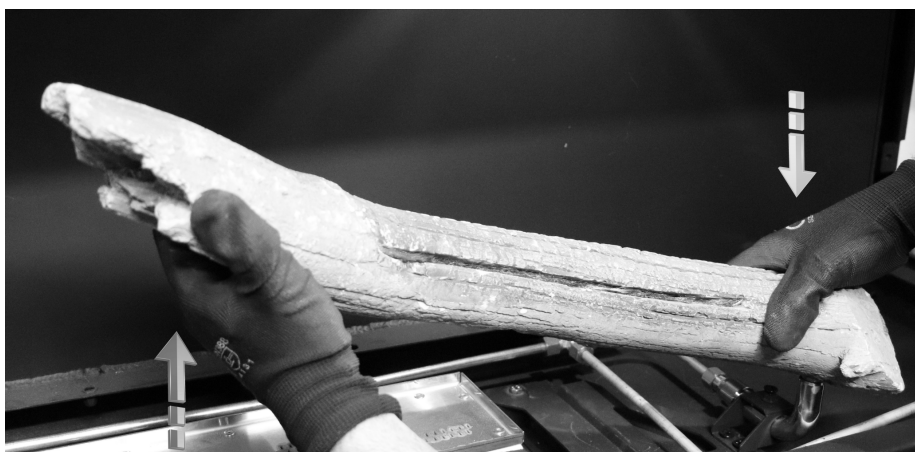
# Firelog Setups

## Firelog Installation Warnings

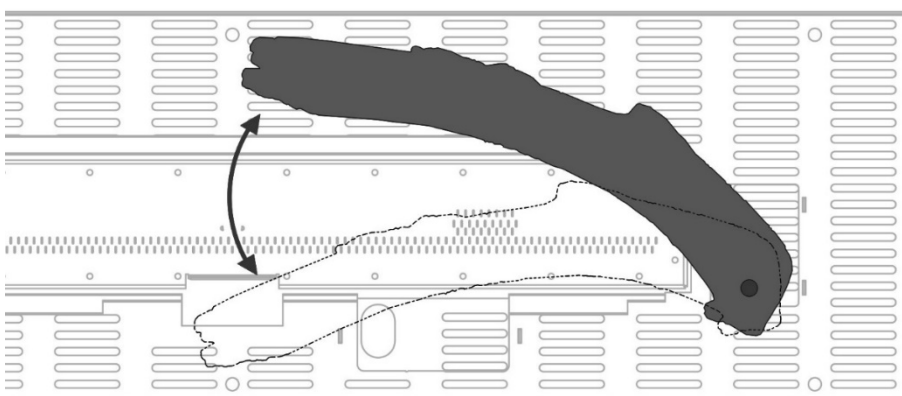
1. **Firelogs are fragile.** Handle them gently to prevent damage to their paint or to the fireplace.
2. **Arrange firelogs as shown in the section below.** Do not arrange them in any other way. If firelogs are not installed per installation instructions, flame impingement and improper combustion may occur and result in soot and/or excessive production of carbon monoxide (CO). Carbon monoxide is a toxic, colorless, and odorless gas.
3. **Do not install the firelog media until** fireplace installation is complete, the gas line is connected and tested for leaks, and initial burner operation has been inspected and approved.
4. **Keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.** Contact between the nickel strands and the spark plug cable may lead to failure operating the fireplace.
5. Do **not cover the main burner holes** (marked in the image below) unless otherwise stated in this manual. Blocking the holes can cause a gas release that could cause an explosion in the fireplace.



6. Placing the log onto the log base/tube:  
**Step 1:** Grasp the log at both ends as shown in the picture.



**Step 2:** Insert the tube coming out of the log into its base while making gentle rotational movements back and forth around its axis for easy insertion/removal. See figure below.



Top View



**WARNING:** Using force when installing the log onto its base/gas tube may result in breakage or damage to the log that will require its replacement.

## Dark Brown Firelogs

Wilderness Dark Brown Firelogs are designed for use in the Wilderness series fireplaces only. No other interior design media options are permitted for Wilderness series fireplaces. The following Dark Brown Firelog sets are permitted for the Wilderness 31 series fireplaces:

### DARK BROWN FIRELOG SETS ARE DIFFERENT FOR NG AND LP:

- Firelog sets for NG and LP have different SKUs. Please ensure you have correct SKU for desired gas type prior to ordering.
- LP logs do not contain nickel strands inside the logs. NG logs do contain nickel strands.
- FR31 & FR31H have different Propane SKUs for Dark Brown due to different style orifices. FR31H has elbow style orifices while FR31 uses the olive nut.



**NOTE:** It can take up to 20 minutes for the flames to turn yellow.



**WARNING:** The fireplace is not designed to burn real wood. Any attempt to do so could cause irreparable damage to the fireplace and may result in property damage, personal injury and/or loss of life.

Firelogs must be arranged as detailed in the following pages. Alternative log arrangement will affect fireplace safety, operation, and performance. Handle logs gently to avoid paint damage. **Firelog placement directions vary depending on gas type. Follow correct directions carefully.** Setup can take up to 1 hour to complete.

The following items are included with the Dark Brown Firelog set for Wilderness 31 series fireplaces.



Items supplied with Dark Brown Firelog Set

## Dark Brown Firelog Placement: Natural Gas & Propane

### STEP 1: Nickle Strands

1. Use your fingers to separate the nickel strands (supplied 2x20" long) as shown in the image below. It is recommended to cut the nickel strips into 10 equal strips to make it easier to separate them.



Left: Nickel strands as supplied | Right: Nickel strands ready to use

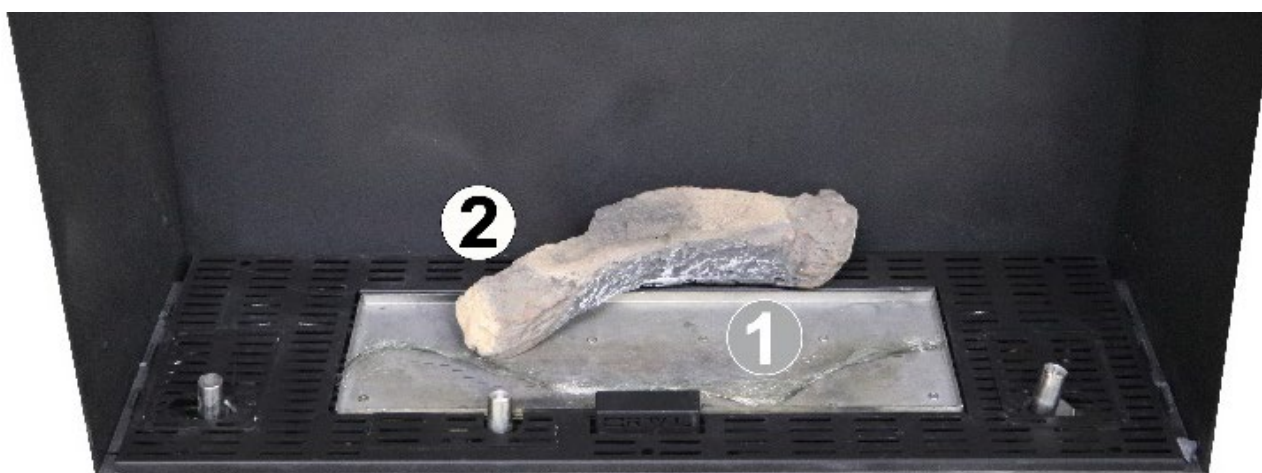
2. Place nickel strands on top of the burner holes. Keep nickel strands a minimum of 1 inch from the pilot.



**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

Arrange firelogs as shown in Steps 2-12.

### STEP 2





### STEP 3



### STEP 4



The base of log #4 can be adjusted to fit the position shown in the pictures above (see “Log Base Position Adjustment” section for details).

### STEP 5



### **STEP 6**



### **STEP 7**



The base of log #7 can be adjusted to fit the position shown in the pictures above (see “Log Base Position Adjustment” section for details).

### **STEP 8**





## STEP 9



**!** IMPORTANT: The slits with the nickel strands in logs #7 and #11 must be placed towards the glass.



## STEP 10



### STEP 11



The base of log #11 can be adjusted to fit the position shown in the pictures above (see “Log Base Position Adjustment” section for details).

### STEP 12



### STEP 13

Add charcoal pieces to the remainder of the burner. Do not cover any burner holes. Maintain minimum 1-inch clearance around the pilot behind pilot hood.



**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

**⚠ WARNING:** To prevent log breakage, follow these log instructions carefully. The gas logs **MUST** be supported by additional logs as directed as they were not designed to support their own weight solely from the gas supply tube.



## Chopped Wood Firelogs

Wilderness Chopped Wood Firelogs are designed for use in the Wilderness series fireplaces only. No other interior design media options are permitted for Wilderness series fireplaces. The following Chopped Wood Firelog sets are permitted for the Wilderness 31 series fireplaces:

### CHOPPED WOOD FIRELOG SETS ARE DIFFERENT FOR NG AND LP:

- Firelog sets for NG and LP have different SKUs. Please ensure you have correct SKU for desired gas type prior to ordering.
- LP logs do not contain nickel strands inside the logs. NG logs do contain nickel strands.
- FR31 & FR31H have different Propane SKUs for Chopped Wood due to different style orifices. FR31H has elbow style orifices while FR31 uses the olive nut.

**NOTE:** It can take up to 20 minutes for the flames to turn yellow.

**WARNING:** The fireplace is not designed to burn real wood. Any attempt to do so could cause irreparable damage to the fireplace and may result in property damage, personal injury and/or loss of life.

Firelogs must be arranged as detailed in the following pages. Alternative log arrangement will affect fireplace safety, operation, and performance. Handle logs gently to avoid paint damage. **Firelog placement directions vary depending on gas type. Follow correct directions carefully.** Setup can take up to 1 hour to complete.

The following items are included with the Chopped Wood Firelog set for Wilderness 31 series fireplaces.



Items supplied with Chopped Wood Firelog set

## Chopped Wood Firelog Placement: Natural Gas & Propane

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### Nickle Strands

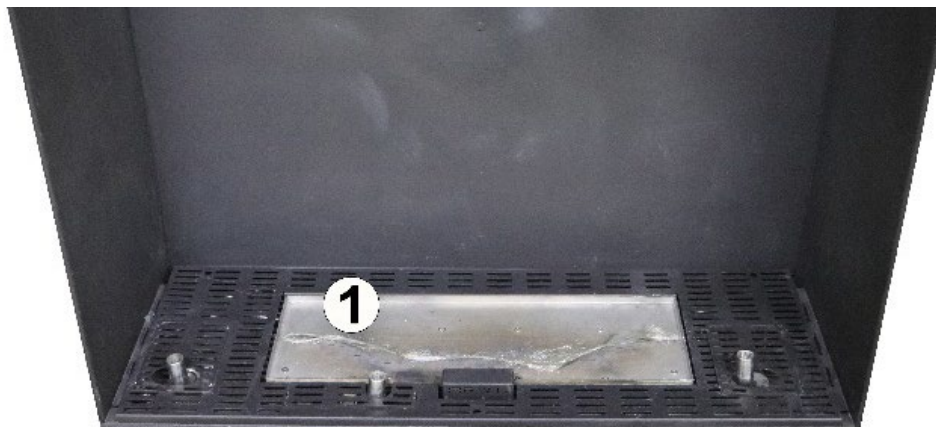
#### STEP 1

1. Use your fingers to separate the nickel strands (supplied 2x20" long) as shown in the image below. It is recommended to cut the nickel strips into 10 equal strips to make it easier to separate them.



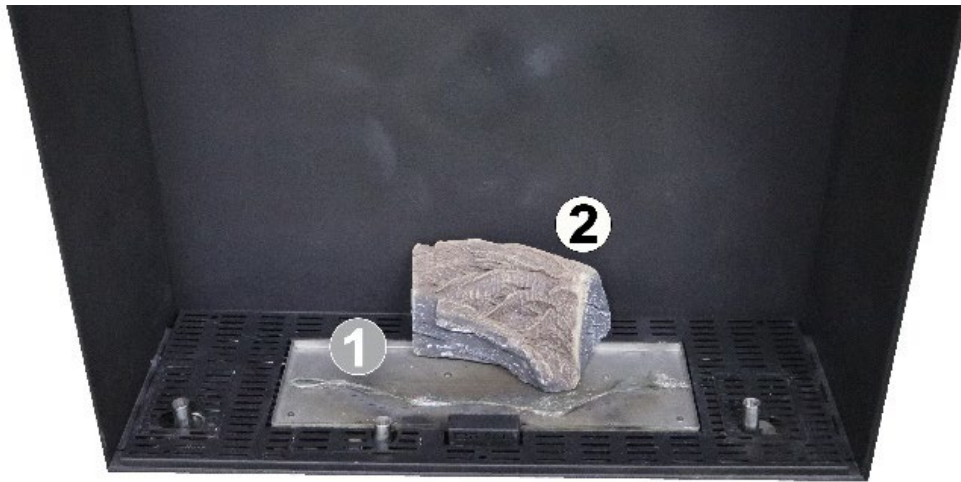
Left: Nickel strands as supplied | Right: Nickel strands ready to use

2. Place nickel strands on top of the burner holes. Keep nickel strands a minimum of 1 inch from the pilot.



**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

## STEP 2



## STEP 3



The base of log #3 can be adjusted to fit the position shown in the picture (see “Log Base Position Adjustment” section for details).

## STEP 4



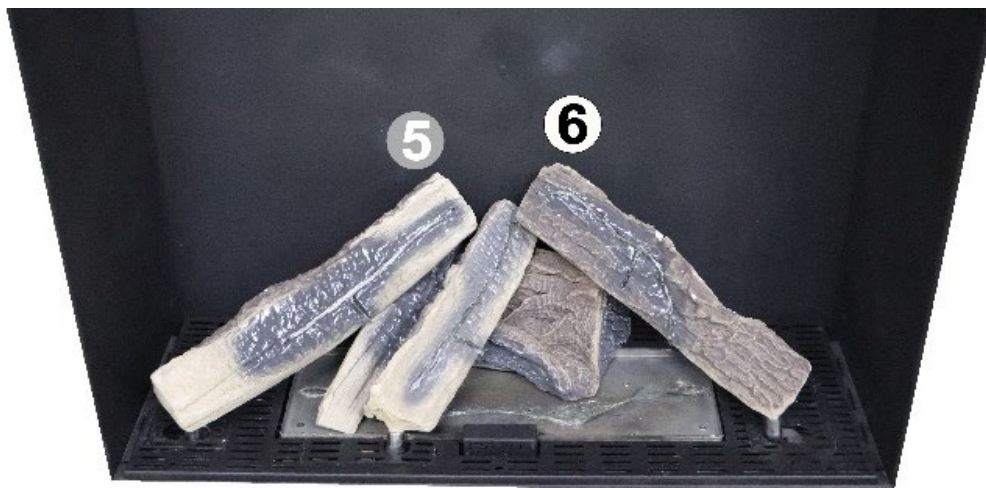


### **STEP 5**



The base of log #5 can be adjusted to fit the position shown in the picture (see “Log Base Position Adjustment” section for details).

### **STEP 6**



The base of log #6 can be adjusted to fit the position shown in the picture (see “Log Base Position Adjustment” section for details).

### **STEP 7**



### STEP 8



### STEP 9



### STEP 10



Add the charcoal pieces to the remainder of the burner. Do not cover burner holes. Maintain minimum 1-inch clearance around the pilot behind pilot hood.

**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

**⚠ WARNING:** To prevent log breakage, follow these log instructions carefully. The gas logs **MUST** be supported by additional logs as directed as they were not designed to support their own weight solely from the gas supply tube.

## Driftwood Firelogs

Wilderness Driftwood Firelogs are designed for use in the Wilderness series fireplaces only. No other interior design media options are permitted for Wilderness series fireplaces. The following Driftwood Firelog sets are permitted for the Wilderness 31 series fireplaces:

### DRIFTWOOD FIRELOG SETS ARE DIFFERENT FOR NG AND LP:

- Firelog sets for NG and LP have different SKUs. Please ensure you have correct SKU for desired gas type prior to ordering.
- LP logs do not contain nickel strands inside the logs. NG logs do contain nickel strands.
- FR31 & FR31H have different Propane SKUs for Driftwood due to different style orifices. FR31H has elbow style orifices while FR31 uses the olive nut.



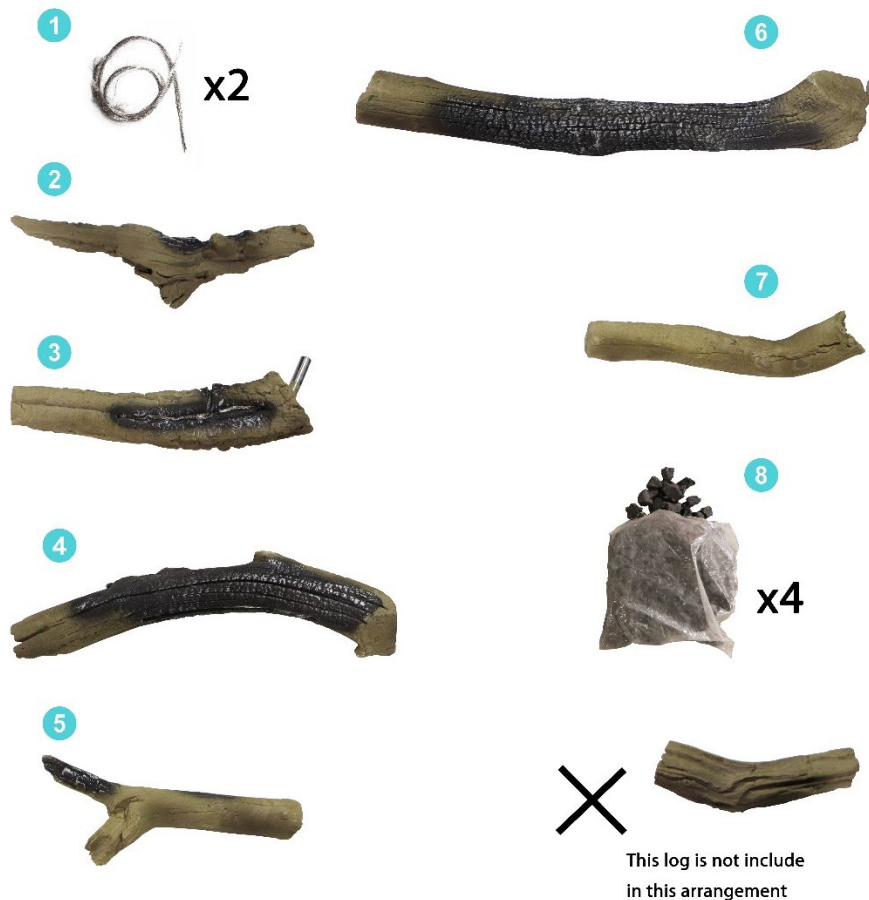
**NOTE:** It can take up to 20 minutes for the flames to turn yellow.



**WARNING:** The fireplace is not designed to burn real wood. Any attempt to do so could cause irreparable damage to the fireplace and may result in property damage, personal injury and/or loss of life.

Firelogs must be arranged as detailed in the following pages. Alternative log arrangement will affect fireplace safety, operation, and performance. Handle logs gently to avoid paint damage. **Firelog placement directions vary depending on gas type. Follow correct directions carefully.** Setup can take up to 1 hour to complete.

The following items are included with the Driftwood Firelog set for Wilderness 31 series fireplaces.





## Driftwood Firelog Placement: Natural Gas & Propane

### Nickle Strands

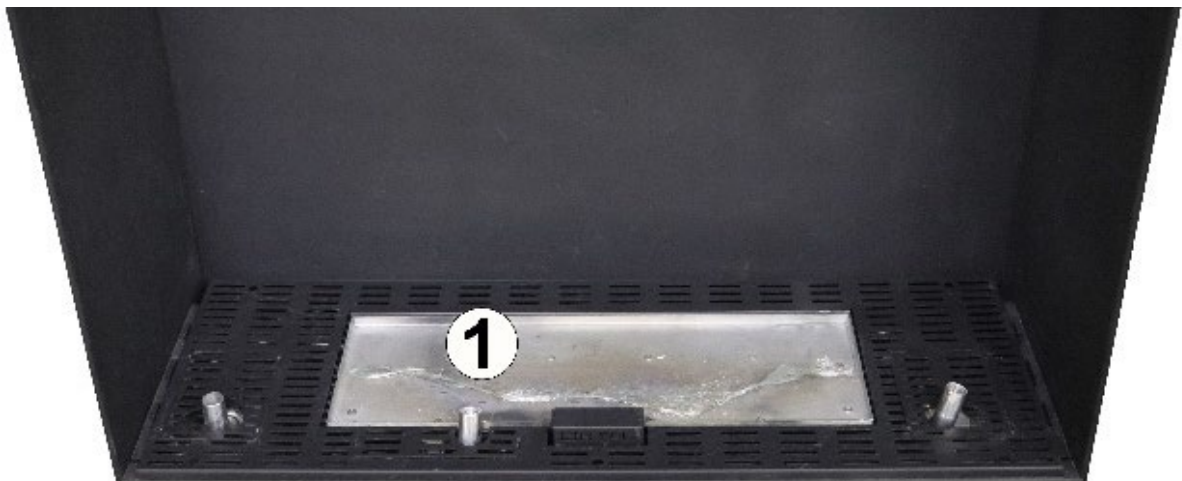
#### STEP 1

1. Use your fingers to separate the nickel strands (supplied 2x20" long) as shown in the image below. It is recommended to cut the nickel strips into 10 equal strips to make it easier to separate them.



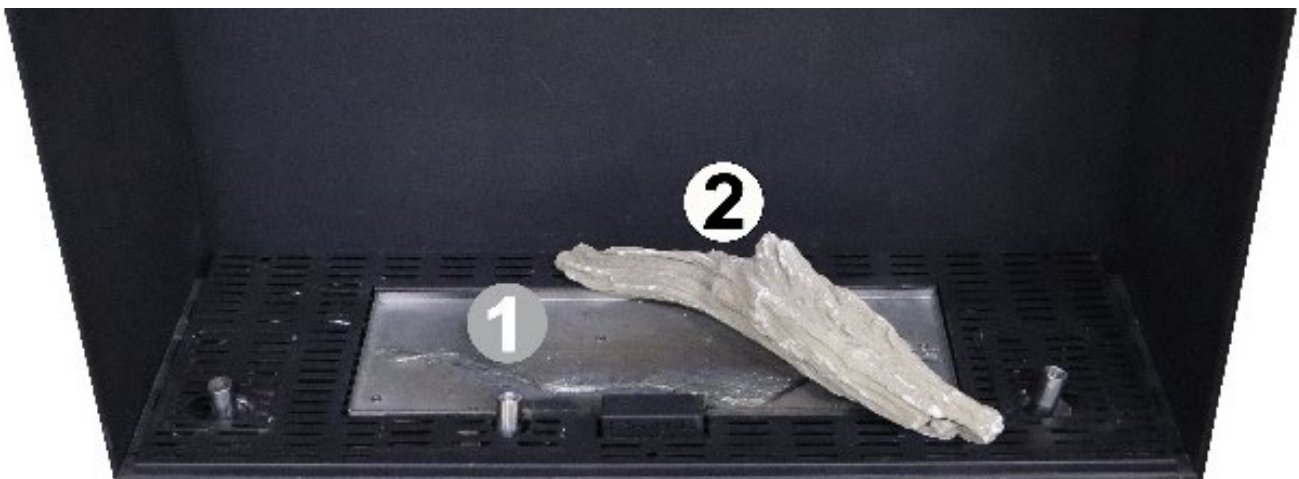
Left: Nickel strands as supplied | Right: Nickel strands ready to use

2. Place nickel strands on top of the burner holes. Keep nickel strands a minimum of 1 inch from the pilot.

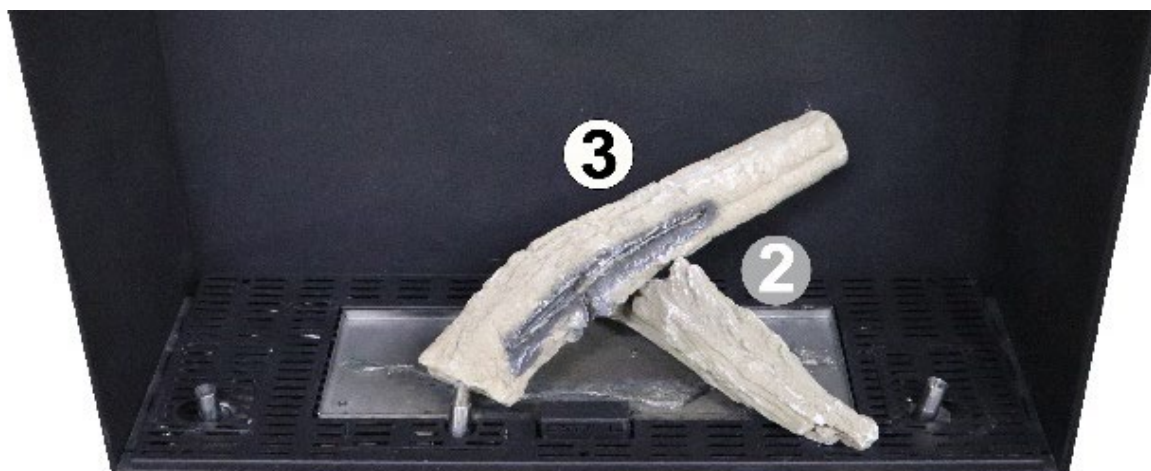


**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

#### STEP 2

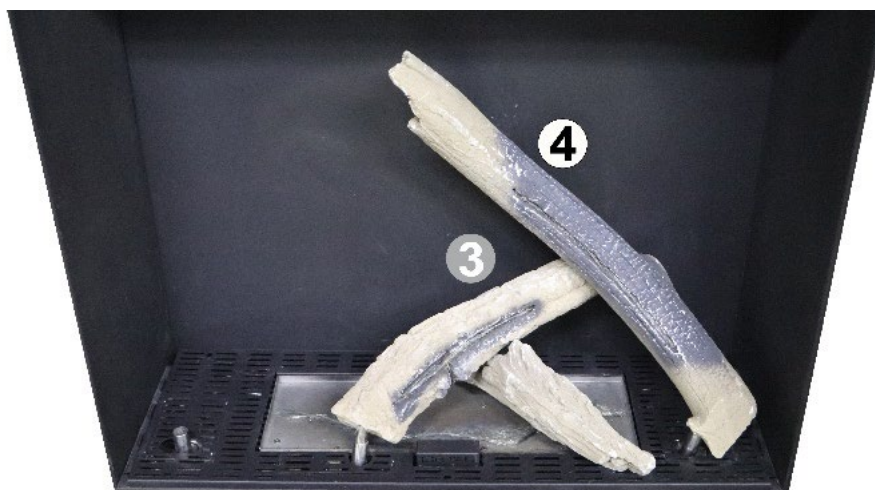


### **STEP 3**



The base of log #3 can be adjusted to fit the position shown in the picture above (see “Log Base Position Adjustment” section for details).

### **STEP 4**



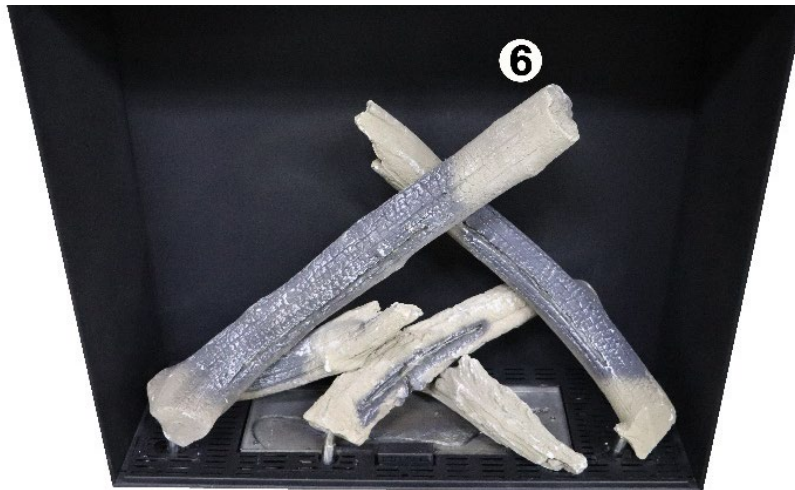
The base of log #4 can be adjusted to fit the position shown in the picture above (see “Log Base Position Adjustment” section for details).

### **STEP 5**



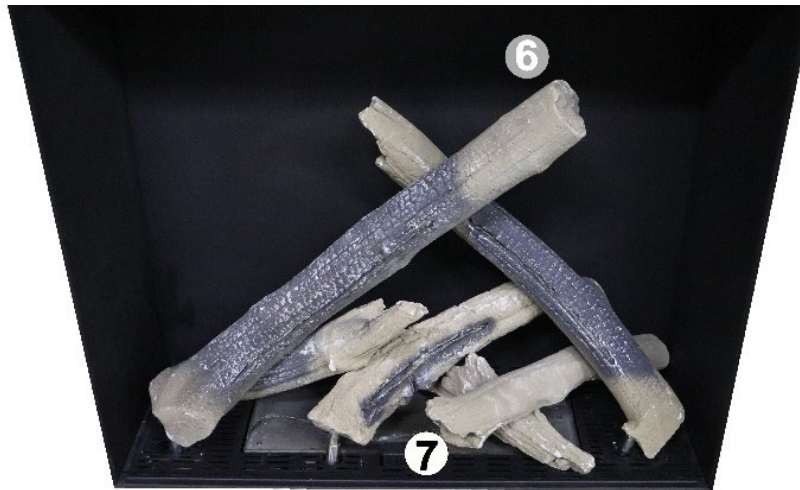


## STEP 6



The base of log #6 can be adjusted to fit the position shown in the picture above (see “Log Base Position Adjustment” section for details).

## STEP 7



## STEP 8

Add the charcoal pieces to remainder of the burner. Do not cover burner holes. Maintain minimum 1-inch clearance around the pilot (behind pilot hood).



**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

**⚠ WARNING:** To prevent log breakage, follow these log instructions carefully. The gas logs ***MUST*** be supported by additional logs as directed as they were not designed to support their own weight solely from the gas supply tube.

## Valley Oak Firelogs

Wilderness Valley Oak Firelogs are designed for use in the Wilderness series fireplaces only. No other interior design media options are permitted for Wilderness series fireplaces. The following Valley Oak Firelog sets are permitted for the Wilderness 31 series fireplaces:

### VALLEY OAK FIRELOG SETS ARE DIFFERENT FOR NG AND LP:

- Firelog sets for NG and LP have different SKUs. Please ensure you have correct SKU for desired gas type prior to ordering.
- FR31 & FR31H have different Propane SKUs for Valley Oak due to different style orifices. FR31H has elbow style orifices while FR31 uses the olive nut.
- LP logs do not contain nickel strands inside the logs. NG logs do contain nickel strands.



**NOTE:** It can take up to 20 minutes for the flames to turn yellow.



**WARNING:** The fireplace is not designed to burn real wood. Any attempt to do so could cause irreparable damage to the fireplace and may result in property damage, personal injury and/or loss of life.

Firelogs must be arranged as detailed in the following pages. Alternative log arrangement will affect fireplace safety, operation, and performance. Handle logs gently to avoid paint damage. **Firelog placement directions vary depending on gas type. Follow correct directions carefully.** Setup can take up to 1 hour to complete.

The following items are included with the Valley Oak Firelog set for Wilderness 31 series fireplaces.

1



Nickel strands

2



3



4



5



6



7



8



9



10



Black coals

## Valley Oak Firelog Placement: Natural Gas & Propane

### Nickle Strands

#### STEP 1

1. Use your fingers to separate the nickel strands (supplied 2x20" long) as shown in the image below. It is recommended to cut the nickel strips into 10 equal strips to make it easier to separate them.



Left: Nickel strands as supplied | Right: Nickel strands ready to use

2. Place nickel strands on top of the burner holes. Keep nickel strands a minimum of 1 inch from the pilot.



**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

#### STEP 2





### STEP 3



### STEP 4



The base of log #4 can be adjusted to fit the position shown in the picture above (see “Log Base Position Adjustment” section for details).

### STEP 5



## STEP 6



## STEP 7



## STEP 8



The base of log #8 can be adjusted to fit the position shown in the picture above (see “Log Base Position Adjustment” section for details).



## STEP 9



The base of log #9 can be adjusted to fit the position shown in the picture above (see “Log Base Position Adjustment” section for details).

## STEP 10



Add the charcoal pieces to the remainder of the burner. Do not cover burner holes. Maintain minimum 1-inch clearance around the pilot (behind pilot hood) completely clear of any media or debris.

**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

**⚠ WARNING:** To prevent log breakage, follow these log instructions carefully. The gas logs **MUST** be supported by additional logs as directed as they were not designed to support their own weight solely from the gas supply tube.

## → Birch Firelogs

Wilderness Birch Firelogs are designed for use in the Wilderness series fireplaces only. No other interior design media options are permitted for Wilderness series fireplaces. The following Birch Firelog sets are permitted for the Wilderness 31 series fireplaces:

### BIRCH FIRELOG SETS ARE DIFFERENT FOR NG AND LP:

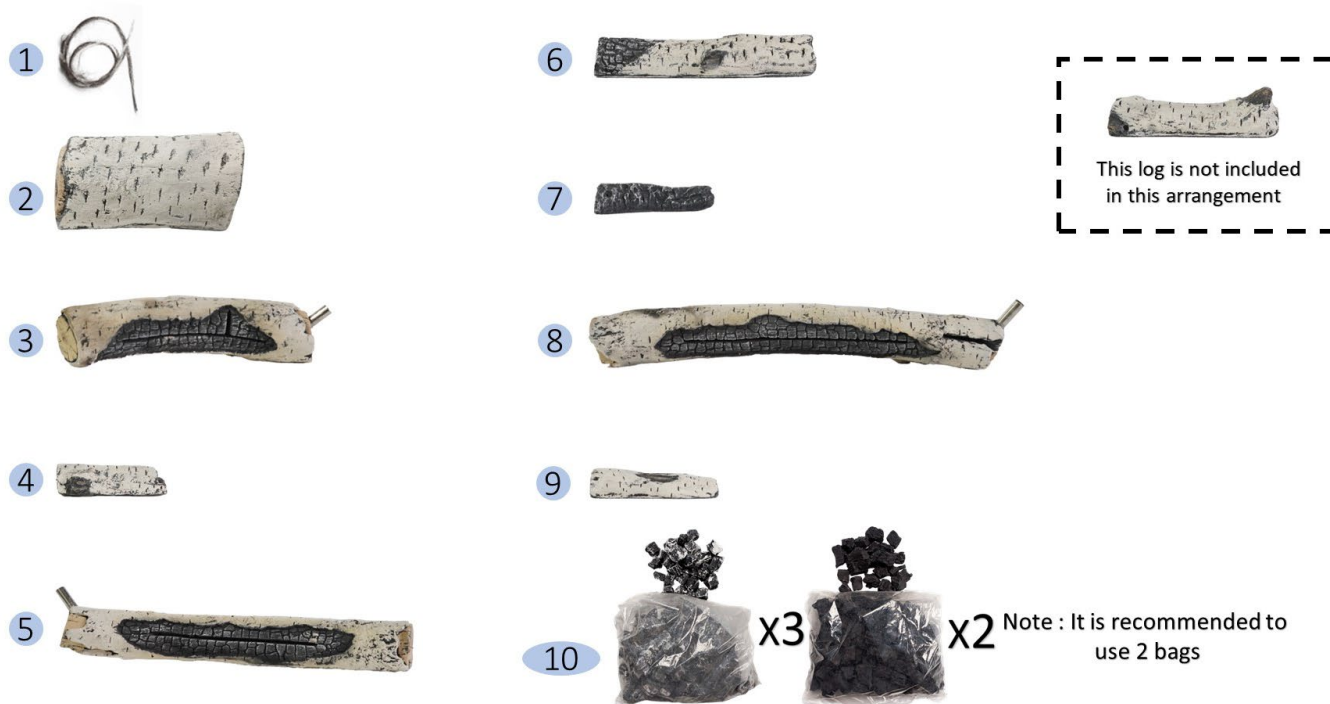
- Firelog sets for NG and LP have different SKUs. Please ensure you have correct SKU for desired gas type prior to ordering.
- FR31 & FR31H have different Propane SKUs for Birch due to different style orifices. FR31H has elbow style orifices while FR31 uses the olive nut.
- LP logs do not contain nickel strands inside the logs. NG logs do contain nickel strands.

**NOTE:** It can take up to 20 minutes for the flames to turn yellow.

**WARNING:** The fireplace is not designed to burn real wood. Any attempt to do so could cause irreparable damage to the fireplace and may result in property damage, personal injury and/or loss of life.

Firelogs must be arranged as detailed in the following pages. Alternative log arrangement will affect fireplace safety, operation, and performance. Handle logs gently to avoid paint damage. **Firelog placement directions vary depending on gas type. Follow correct directions carefully.** Setup can take up to 1 hour to complete.

The following items are included with the Birch Firelog set for Wilderness 31 series fireplaces.



## Birch Firelog Placement: Natural Gas & Propane

### Nickle Strands

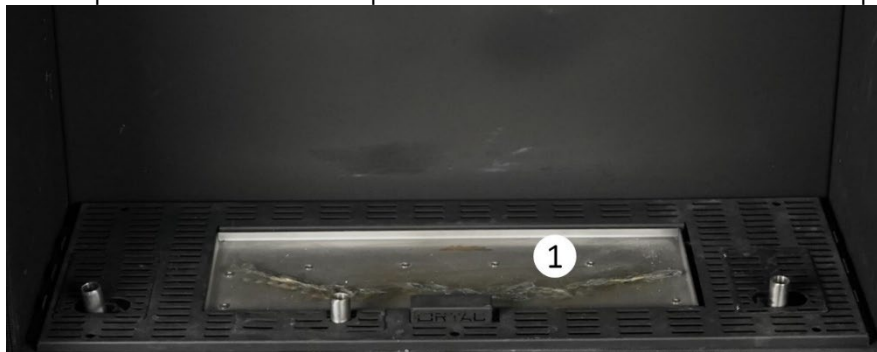
#### STEP 1

- Use your fingers to separate the nickel strands (supplied 2x20" long) as shown in the image below. It is recommended to cut the nickel strips into 10 equal strips to make it easier to separate them.



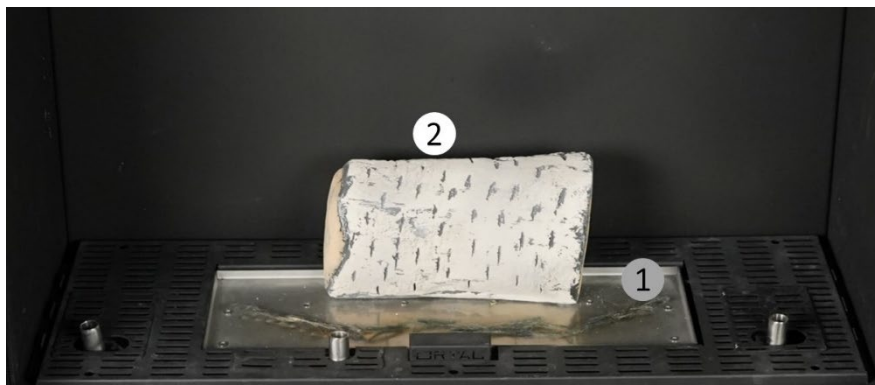
Left: Nickel strands as supplied | Right: Nickel strands ready to use

2. Place nickel strands on top of the burner holes. Keep nickel strands a minimum of 1 inch from the pilot.

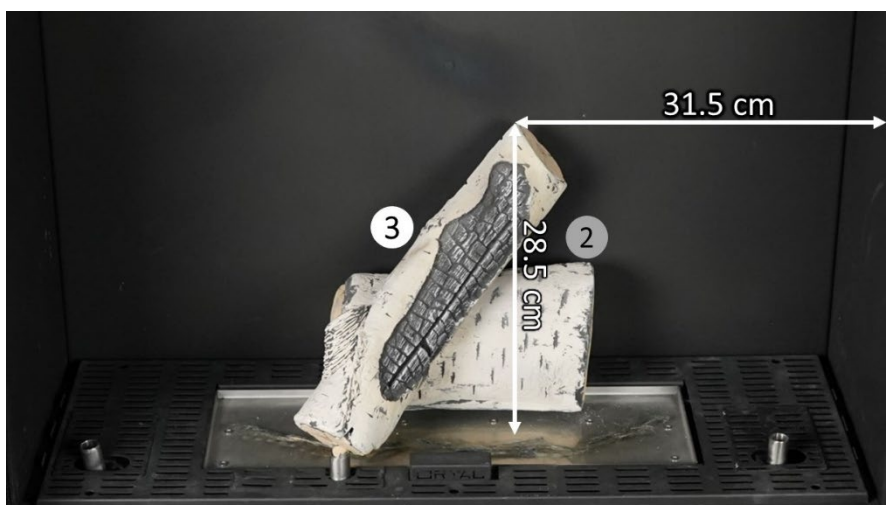


**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

#### **STEP 2**



#### **STEP 3**



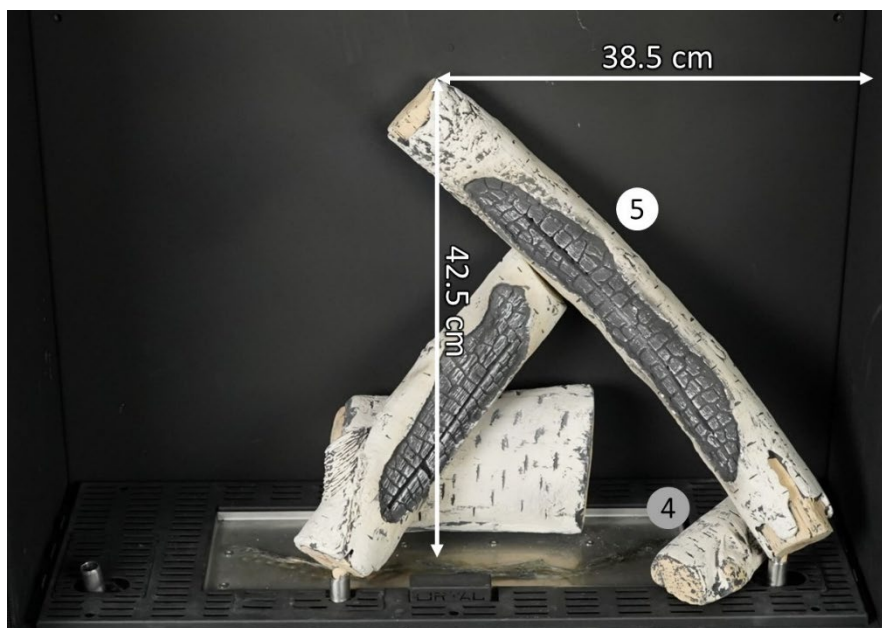
The base of log #3 can be adjusted to fit the position shown above (see “Log Base Position Adjustment” section for details).

#### **STEP 4**



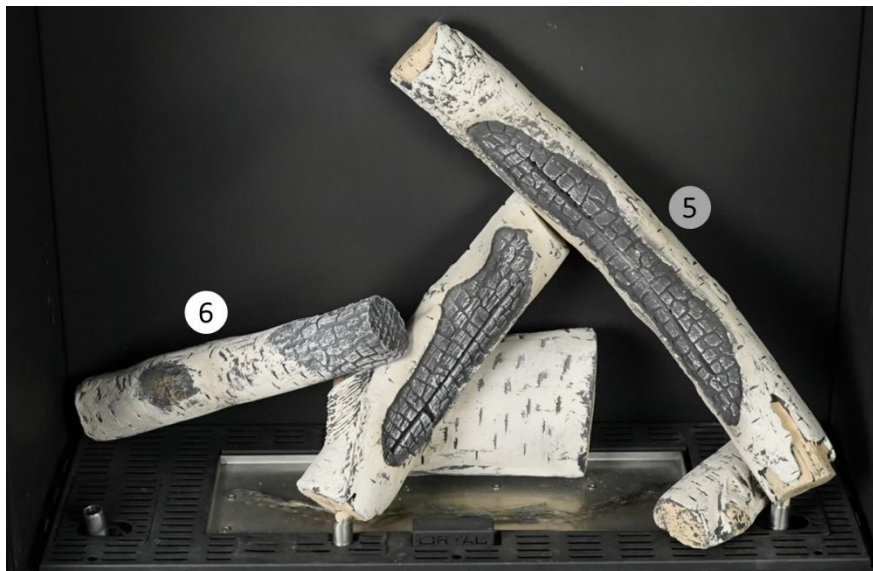


## STEP 5



The base of log #5 can be adjusted to fit the position shown above (see “Log Base Position Adjustment” section for details).

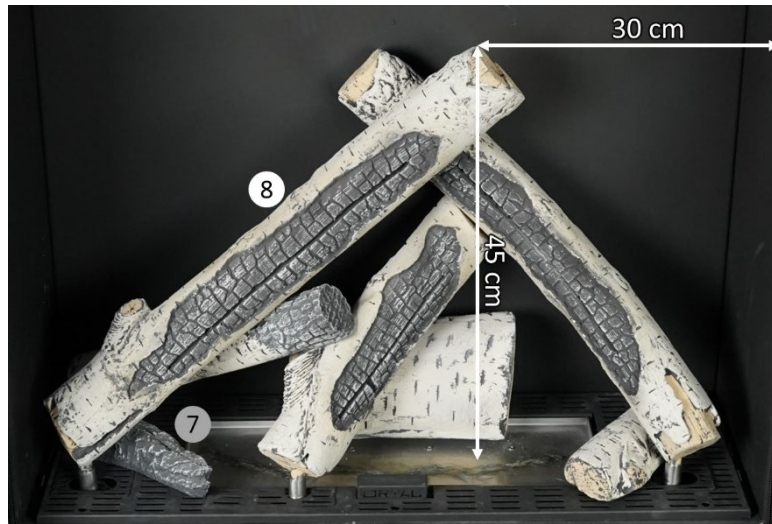
## STEP 6



## STEP 7

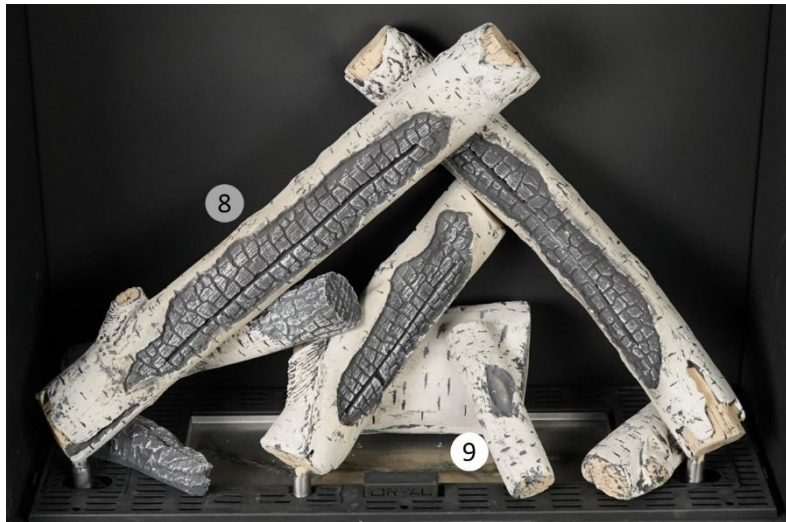


## STEP 8



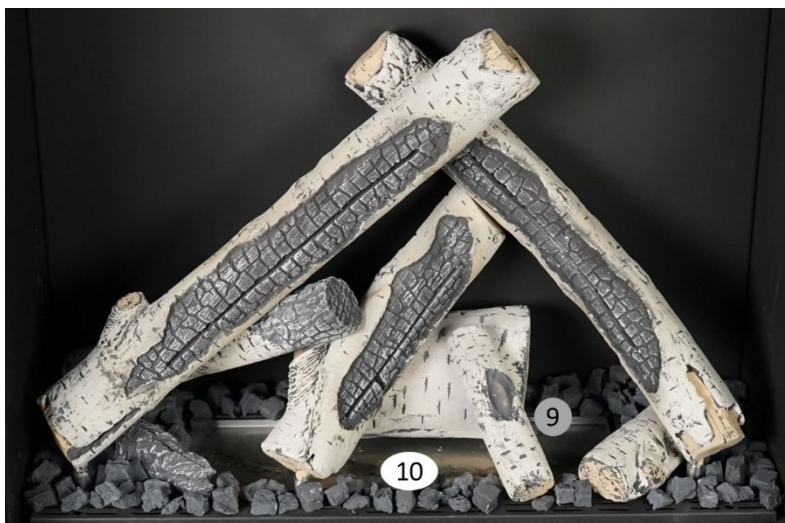
The base of log #8 can be adjusted to fit the position shown above (see “Log Base Position Adjustment” section for details).

## STEP 9



## STEP 10

Add the charcoal pieces to the remainder of the burner. Do not cover burner holes. Maintain minimum 1-inch clearance around the pilot (behind pilot hood) completely clear of any media or debris.



**⚠ WARNING:** For safety and optimal fireplace function, keep 1 inch around the pilot (behind pilot hood) completely clear of any media or debris.

**⚠ WARNING:** To prevent log breakage, follow these log instructions carefully. The gas logs **MUST** be supported by additional logs as directed as they were not designed to support their own weight solely from the gas supply tube.

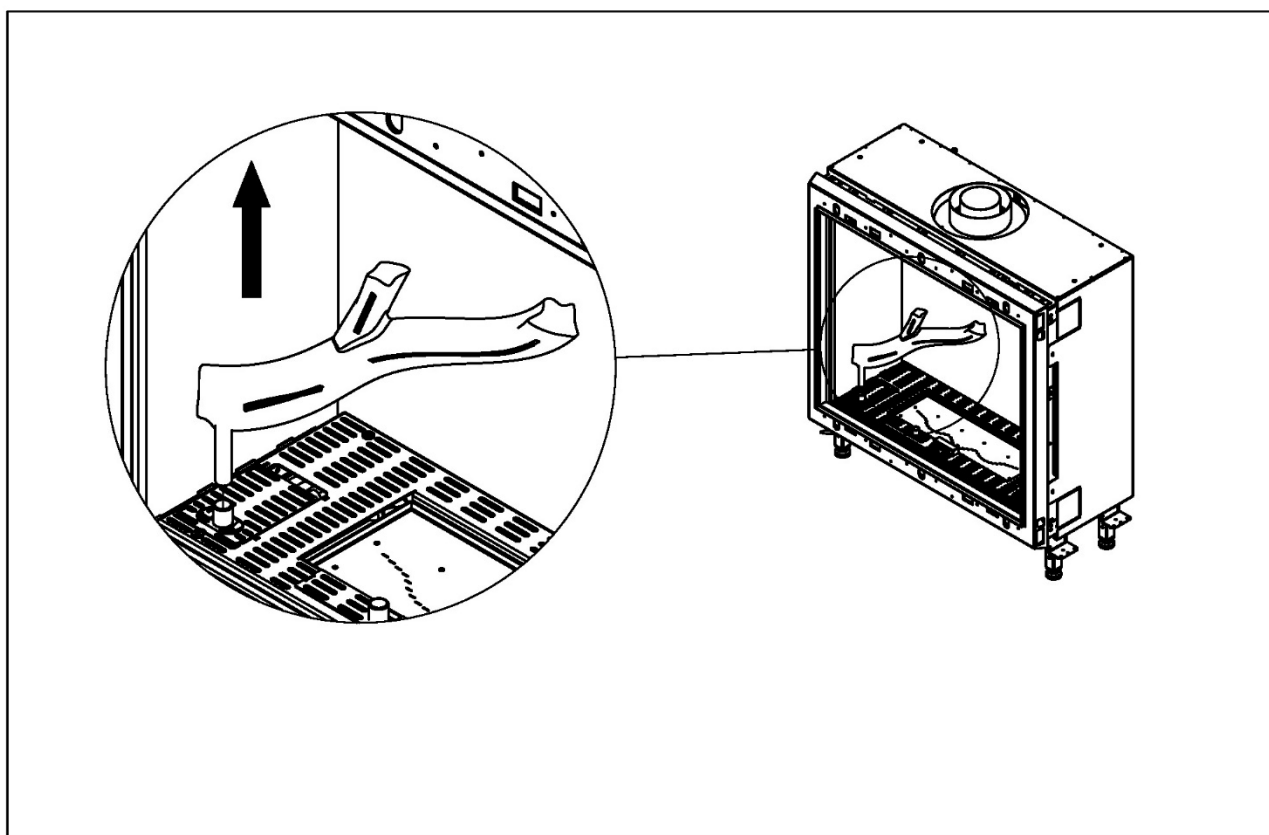
## Log Base Position Adjustment

### Adjustment Instructions

**!** NOTE: The following images are for illustrative purposes only. The zero-clearance stand-offs are not shown on the fireplaces in these diagrams, but the instructions for adjusting the firelogs still apply to Wilderness 31 series fireplaces.

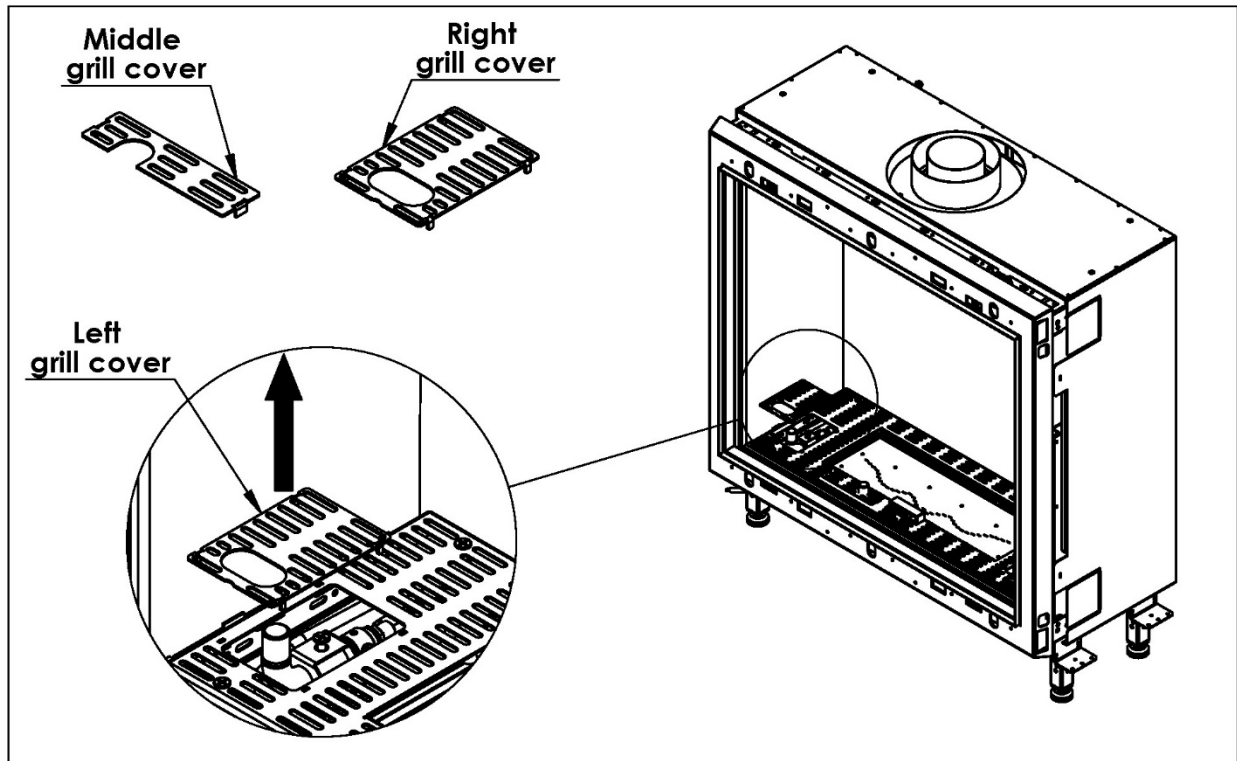
**1- Remove the heat barrier and inner glass.**

**2- Pull the log up to remove from base, as shown in figure (1).**



Figure(1)

**3- Pull up on the left grill cover to remove, as shown in figure (2) below. Repeat for the middle and right grill covers.**

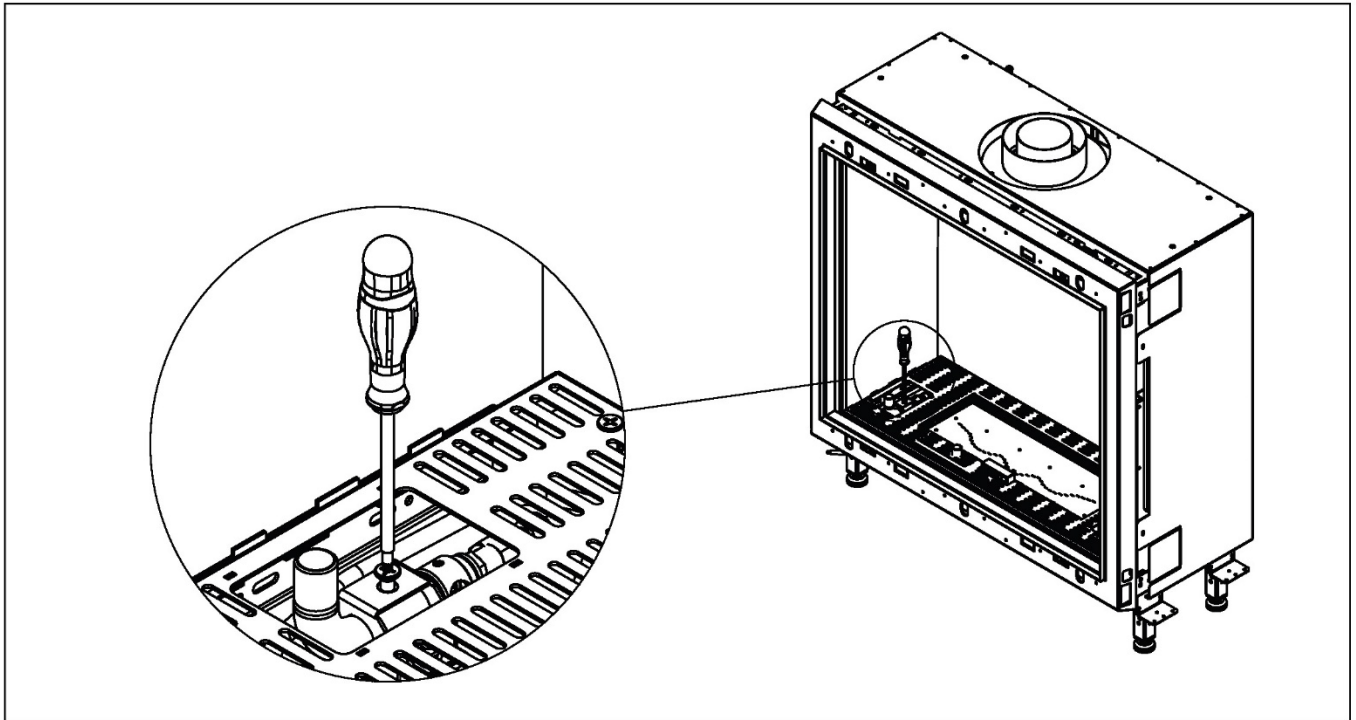


Figure(2)



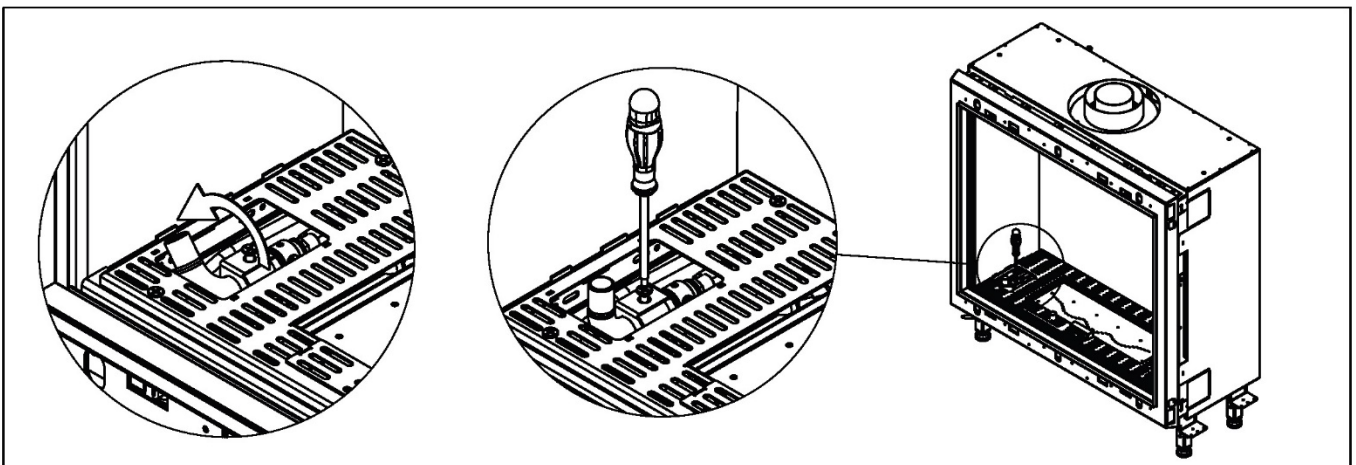
## Adjusting the Log Position:

4- Using a phillips head screwdriver, loosen the log tube screw to change its orientation as shown in figure (3).



Figure(3)

5- Adjust the orientation as needed, as shown in figure (4), then tighten the screw to keep the log in the desired position.



Figure(4)

## Log Base Aeration

**NOTE:** The following images are for illustrative purposes only. The zero-clearance stand-offs are not shown on the fireplaces in these diagrams, but the instructions for adjusting the firelogs still apply to Wilderness 31 series fireplaces.

### Adjusting the log base aeration :

#### **Step 1**

Loosen the log base aeration screw, as shown in figure (1) below.

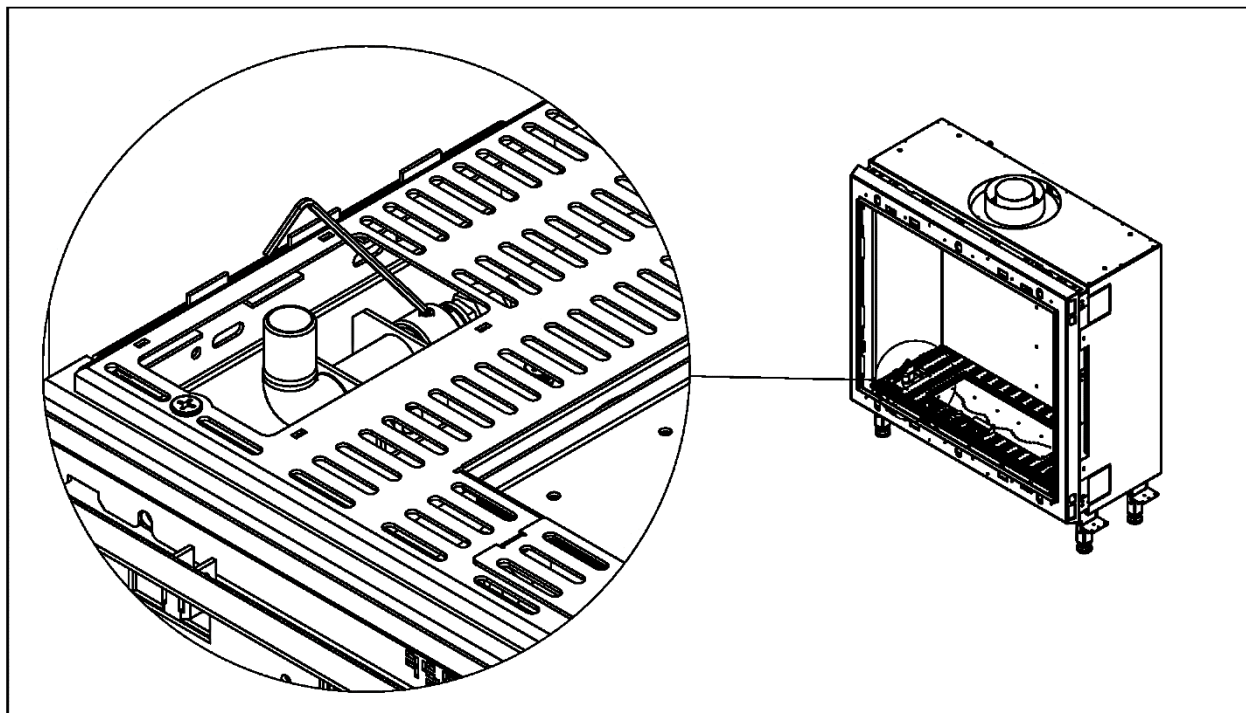


Figure (1)

#### **Step 2**

To adjust the aeration level, rotate the air shutter as needed, as shown in figure (2) below. Tighten screw to keep desired shutter position.

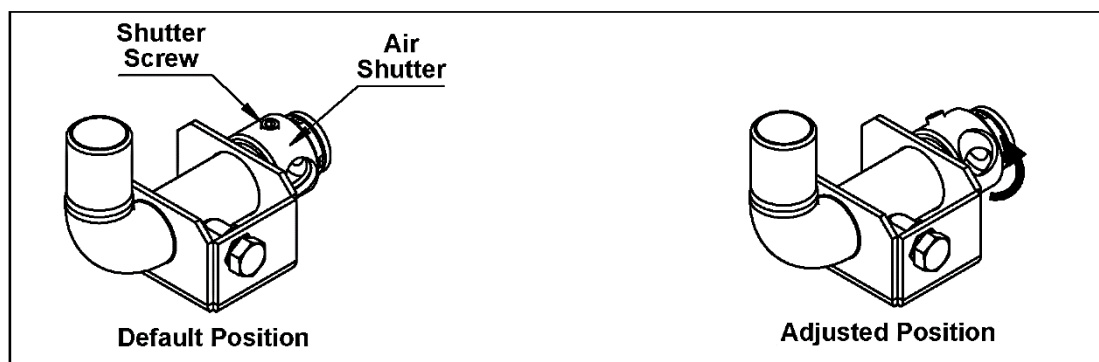


Figure (2)

# Operation

**WARNING** – Read these instructions carefully before lighting the fireplace.

Four operation options are available for use with the fireplace:

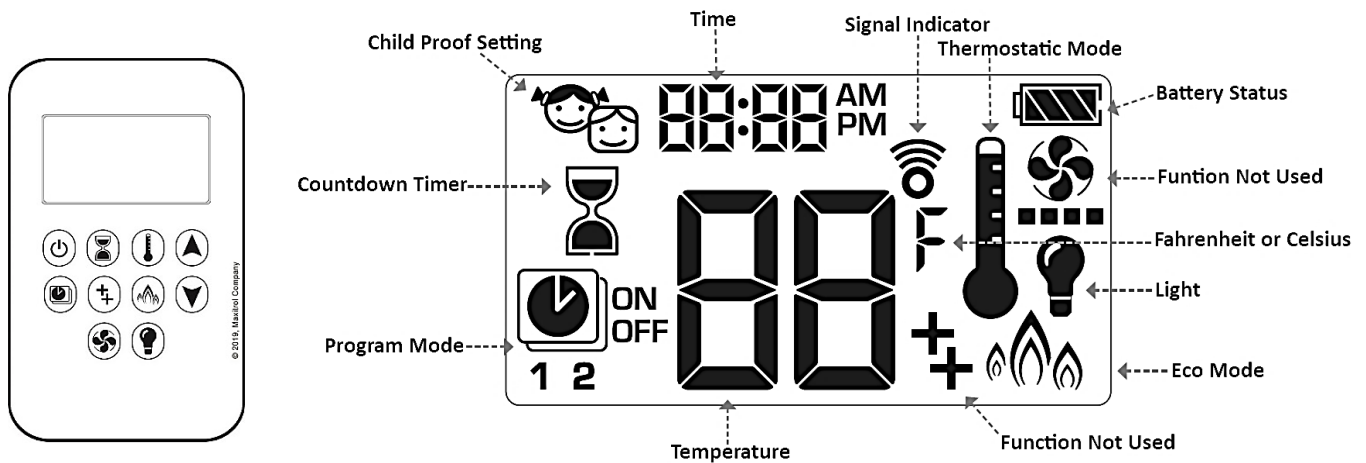
- 10-Button Remote Control Handset (default option, always included with the fireplace)
- Puck Handset (optional accessory)
- Wall Switch (optional accessory)
- MyFire Application (optional accessory)

**IMPORTANT:** The 10-Button remote control handset is always included with the fireplace regardless of which operation option is chosen. **DO NOT DISCARD.** The 10-Button remote must be kept within 26 feet of the fireplace at all times.

## NOTES:

- Wiring of valve and receiver must be completed before starting ignition. Failure to do so could damage the electronics.
- If operating the fireplace without an AC adapter, battery replacement is recommended at the beginning of each heating season.
- Fireplaces with double glass, power vent, and/or interior lighting features must operate using the AC Adapter and therefore will not operate during a power failure.
- Only the Mertik Maxitrol AC Adapter is permitted for use with the fireplace. Use of other adapter brands can render the system inoperable. The handsets, receivers, wall switches are not interchangeable with other electronics.
- Batteries must be kept within their recommended temperature limits (32°F to 131°F).

## 10-Button Remote Control Handset



Control Option	Radio Frequency	Power Supply	
10-Button Handset	918.0 MHz (U.S. & Canada)	2 x 1.5V AAA batteries (quality alkaline recommended)	Replace batteries after 2 years or when low battery indicator appears on handset display
<b>IMPORTANT: For safety/communication purposes, 10-button handset must be located within 26 feet of the receiver.</b>			

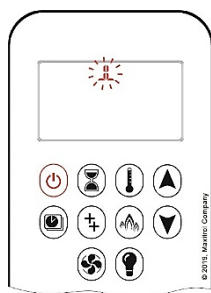
**NOTE:** Any device that functions using the same radio frequency as the handset will be affected when handset is in use.


## Operating Instructions

Instructions for operating the 10-Button Handset are shown below. For more in-depth instructions, please refer to the "Homeowner's Fireplace Operation Manual" or "Remote Operation Instructions".

**NOTE:** Some options on the remote may not be available for all fireplaces.

## Turning the Fireplace On

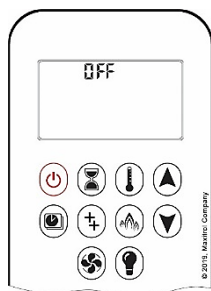



1. Press the  button until you hear continuous beeping, and a blinking series of lines confirms the start sequence has begun; release buttons.
2. Main gas flows once pilot ignition is confirmed.
3. The system automatically goes into Manual Mode after main burner ignition.

**NOTE:** When pilot ignition is confirmed, motor turns automatically to maximum flame height.

**NOTE:** If the Timer function has been set and the fireplace is manually turned on, the Timer function will need to be reset.

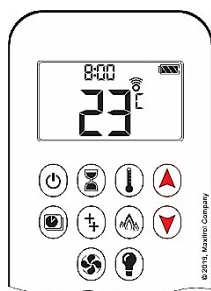
## Turning the Fireplace Off



1. Press the  button to turn the fireplace off.

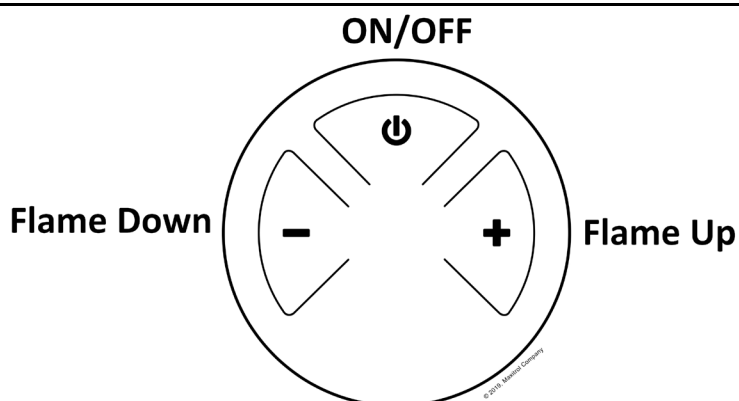
**NOTE:** The fireplace may be turned on again after the OFF icon stops flashing.

## Flame Height Adjustment



1. To increase flame height, press and hold the  button to desired flame height.
2. To decrease flame height, or to set fireplace to pilot flame only, press and hold the  button.

## Puck Handset



Control Option	Radio Frequency	Power Supply	
Puck Handset	918.0 MHz (U.S. & Canada)	2 x 1.5V AAA batteries (quality alkaline recommended)	Replace batteries after 2 years or when low battery indicator appears on handset display

**IMPORTANT:** For safety/communication purposes, Puck handset must be located within 26 feet of the receiver.

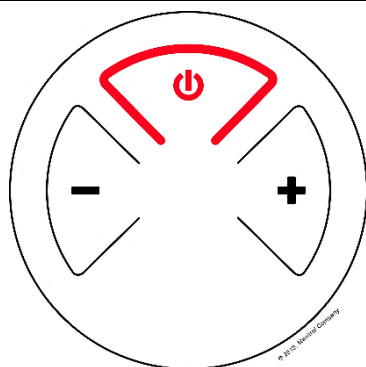
**NOTE:** Any device that functions using the same radio frequency as the handset will be affected when handset is in use.




## Operating Instructions

Instructions for operating the Puck Handset are shown below.


### Turning the Fireplace On/Off



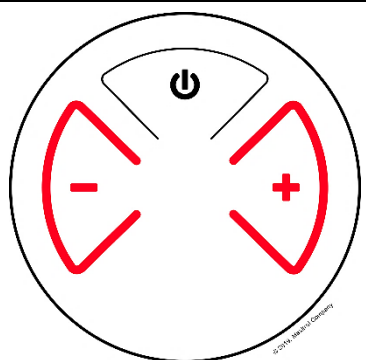
#### ON:

- Firmly press and hold the  button until two short beeps confirms the start sequence has begun; release button.

#### OFF:

- Firmly press the  button.

### Increase/Decrease Flame Height



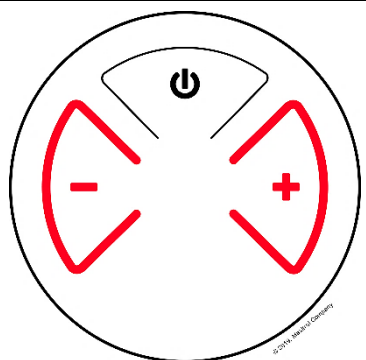
#### INCREASE:

- To increase flame height, press and hold **+** button.

#### DECREASE:

- To decrease flame height, press and hold **-** button.
- Holding the **-** button long enough sets the fireplace to pilot flame (Standby Mode).

### Designated Flame Settings



#### DESIGNATED LOW FLAME SETTING

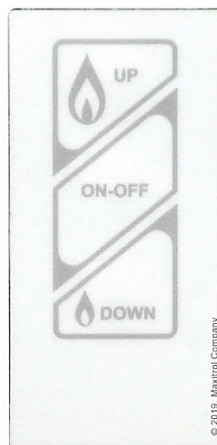
- To go to designated low flame setting, double-click **-** button.

 **NOTE:** Flame goes to High Flame before going to Low Flame.

#### DESIGNATED HIGH FLAME SETTING

- To go to designated high flame setting, double-click **+** button.

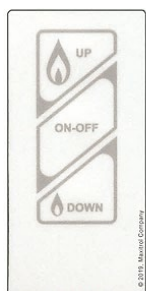
## Wall Switch



Control Option	Radio Frequency	Power Supply
Wall Switch	N/A	N/A
<b>IMPORTANT:</b> For safety/communication purposes, the 10-button handset must be located within 26 feet of the receiver.		

## Operating Instructions

### Turning the Fireplace On/Off

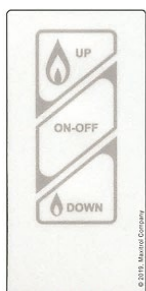


ON/OFF

**ON:** Press and hold the **ON-OFF** button until two short beeps confirms the start sequence has begun; release button.


**OFF:** Press the **ON-OFF** button.


### Flame Height Adjustment




Flame Up

Flame Down

**INCREASE:** To increase flame height, press and hold  (up flame) button.

**DECREASE:** To decrease flame height, press and hold  (down flame) button.

Holding the  (down flame) button long enough sets the fireplace to pilot flame (Standby Mode).

## MyFire App

The MyFire app requires the Wi-Fi kit to operate with the fireplace. The Wi-Fi kit does not automatically come with the fireplace and must be ordered.



**IMPORTANT:** For safety/communication purposes, the 10-button handset must be located within 26 feet of the receiver.

To download the MyFire app, search “MyFire” at the Apple App Store or Google Play.

## Operating Instructions

For setup and operating instructions of the MyFire app, see the Homeowner’s Fireplace Operation Manual, or visit the Ortal website or [www.myfireapp.com](http://www.myfireapp.com).

## MyFire Wi-Fi Box

The MyFire Wi-Fi router box provides the Wi-Fi connection that allows the MyFire App to operate the fireplace. This part is included with the optional Wi-Fi kit. Wi-Fi kit does not automatically come with the fireplace and must be ordered.



Part	Radio Frequency	Power Supply	Wireless Communication
MyFire Wi-Fi Box	2.4 GHz	Connects to Receiver	WPA2 authentication AES 256-bit encryption security Compatible with IEEE 802.11 b/g/n

# Fireplace Maintenance

## General Maintenance

All servicing, maintenance, interior cleaning and handling of the fireplace, parts and glass must be performed by an authorized Ortal dealer service technician only.

## Servicing

- Turn off the gas and electricity **BEFORE** servicing the fireplace.
- It is recommended that a routine inspection is performed at the beginning of each heating season.
- When removing glass from multisided fireplaces, only one side of glass can be removed at a time. Glass must be re-installed before removing glass from a different side.

## Metallic Noise

- Noise is caused by metal expanding and contracting as it heats up and cools down, like noise produced from a furnace. The noise does not affect the operation or longevity of the fireplace.
- These minor expansion, contractions or movement of parts causing noise are normal. Complaints related to these noises are not covered by the warranty.

## Burner and Vent Inspections

- Periodic checks should be made of the burner for correct position and condition. Visually check the flame of the burner, making sure that the flames are steady.
- The vent system must be inspected before use. Annual inspection must be scheduled to ensure the flow of combustion and ventilation air.

## Submerged Parts

- Do not use the fireplace if any part has been under water, or if you suspect that it may have been under water. The Ortal dealer service technician must inspect and, if necessary, replace any parts of the control system and any gas controls which have been underwater.

## Handling the Glass

The inner glass panel is 5mm ceramic glass. Exterior double glass panel is 3/16" tempered glass. Tempered glass can be sourced locally if replacement becomes necessary. Ceramic glass must be provided by Ortal.

- When removing glass from multisided fireplaces, only one side of glass can be removed at a time. Glass must be re-installed before removing glass from a different side.
- **NEVER** operate the fireplace without the glass properly secured in place.
- Only an Ortal certified installer is authorized to remove the glass. Glass must be removed using an 8-inch glass-handling suction cup. Lower the glass to rest in a safe place to prevent damage to the glass edges.

## Cleaning the Fireplace

- Only an Ortal dealer service technician can open the fireplace to clean interior surfaces.
- **ALWAYS** turn off the gas valve before cleaning.
- Do **NOT** clean when hot. Make sure the fireplace has had time to cool prior to cleaning any surface or component, interior or exterior.
- Keep the fireplace clean by brushing and/or vacuuming at least once a year. This can only be performed by an Ortal dealer service technician.
- When removing glass from multisided fireplaces, only one side of glass can be removed at a time. Glass must be re-installed before removing glass from a different side.
- Clean the glass when it starts to look cloudy. Use a damp cloth for cleaning the fireplace and the door.
- Verify correct operation after servicing.

## Maintenance Frequency and Equipment Checklist

- Under normal circumstances, the factory recommendation is to have the fireplace serviced at least once a year. Fireplaces meeting the following conditions should have more frequent service:
  - Fireplaces installed in commercial/public spaces should be serviced every 3 months.
  - Fireplaces installed in climates near the ocean or in other settings where corrosion buildup is more likely should be serviced every 6 months.
- Thermocouple Maintenance:
  - The thermocouple should be replaced annually or as needed in all commercial installations, and in any residential fireplace where the fireplace is operated for an average of 10 hours or more per day.
  - For all other installations, the thermocouple should be replaced every three years or as needed.

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