



Installation and Operation Manual



OT - GAS FIREPLACE INSERTS



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The FLAME direct vent (and THE FLAME Fan Exhaust with separate manual) gas appliances have been tested and approved by CSA for safety and efficiency for use with either Natural Gas (NG) or Propane (LPG).

Standard references:

- EN 613
- EN 613:2000/A1

Patent Pending for screen barrier glass bracket: USSN 60/040,074



NOTE: Diagrams and illustrations in this manual are not to scale. All fireplace drawings with correct dimensions are available on our website under Products>Downloads>Diagram.



NOTE: For additional details about installing Curve Island units and/or units with Fan Exhaust s, please refer to the specific manuals supplied with the product.



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Introduction and Company Profile

Welcome to THE FLAME.

The Flame, providing heating solutions for over 25 years, is well known for its wide selection of modern gas fireplaces, produced with close attention to detail, finishing, heating efficiency and quality. The Flame's products combine traditional and modern design with the technology innovation that ensures a green product with high efficiency ratings. Our advanced technology produces eye catching fires that are safe, beautiful and economical. Our product sophistication allows installation in more locations inside the home.

The Flame offers a large selection of modern gas fireplaces available in an array of sizes to suit design and architectural needs, integrating heat into the aesthetics of life. Our high-quality fireplaces are CE certified. The Flame fireplaces are available throughout Europe via selected distributors and dealers who each have a strong commitment to offer the best installation and service.



Green Statement: The Flame offers a green, environmentally friendly heating solution for the modern era.

With The Flame's high efficiency ratings and contemporary designs, you don't have to sacrifice form for function. The unique design maximizes the fireplace's radiant heat. Additional efficient components include The Flame's use of direct vent technology, electronic ignition (instead of a standing pilot) and low maintenance requirements.

We appreciate you choosing THE FLAME for your fireplace needs.

Thank you,



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Fireplace Safety, Warnings and General Fitting Information

This section provides safety guidelines and instructions. It is important to **SAVE THESE INSTRUCTIONS** and to make yourself fully aware of all the safety protocols and the many features of the The Flame direct vent gas fireplace appliance.

- **INSTALLER:** Please read this manual carefully before installation or use, and leave this manual with the customer for storage in a safe place for future reference.
- **OWNER:** Keep this manual for future reference.



NOTE: ALL the warnings and instructions below apply to ALL the models.



WARNING –FIREPLACE TEMPERATURE

This appliance is designed as an efficient heating device and all parts become very hot during use. Except for the control knob and the control access door, which are designed to stay cool, all parts are working surfaces and should not be touched. Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies. **All combustible material such as clothes, curtains, etc. should not be positioned within 1 meter of the appliance.**

The appliance is not designed as a dryer and should not be used in such a manner. Do not place any articles within 30 cm of the appliance, as this may result in damage to the articles.

Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at-risk individuals out of the room and away from hot surfaces. Additional barriers may be required to deal with the special hazards that exist in nurseries and other places where there are young children or aged or infirm persons.



WARNING –APPLIANCE OPERATION

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

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

The appliance should not be used if the glass is broken, and should never be used with the door open.



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If the Flame Supervision Device is extinguished either intentionally or unintentionally, no attempt should be made to re-light the gas until at least 3 minutes have elapsed.



WARNING –GLASS HANDLING

The glass must ONLY be removed by an authorized and/or qualified installer. The authorized technician should ONLY remove the glass with the suction cups supplied by the manufacturer. To prevent damage to the glass edges, lower the glass to rest in a safe place.

Follow these guidelines for glass handling:

- **Step 1:** Prepare a safe place for the glass to rest.
- **Step 2:** Remove the glass using the suction cup.
- **Step 3:** The glass can now be rested safely.



WARNING –IF YOU SMELL GAS

If you smell gas, take the following action immediately:

- Do not try to light any appliance.
- Do not touch any electrical switch.
- Do not use any phone in your building.
- Call your gas supplier from a neighbor's phone, and follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.



WARNING –SERVICING

For all service issues, please contact your local dealer.

The combustion chamber of the stove should be opened and serviced by a registered gas installer only.

Installation and repairs must be done by an authorized qualified installer service agency or gas supplier. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control apartments, burners and circulating air passageways of the appliance be kept clean.

Any alteration to the product that causes soot or carbon to form and results in damage is not the responsibility of the manufacturer.

This appliance has a ceramic fire-bed arrangement that contains Refractory Ceramic Fibers, which are man-made vitreous silicate fibers. Excessive exposure to these materials can cause irritation to eyes, skin and respiratory organs. Hence, we recommend that when handling these materials the release of dust should be kept to a minimum. During installation and servicing we recommend that a HEPA filtered vacuum be used to remove any dust and soot in and around the fire. If any of the ceramic fire-bed components need to be replaced we recommend that the removed parts be sealed in a heavy-duty polythene bag, and be labelled as RCF waste. RCF is not "Hazardous waste" and can be disposed of at a licensed tipping site for the disposal of industrial waste.



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WARNING –ELECTRICAL CONNECTIONS

The power cord plug should be accessible to the user for disconnection purposes of the system

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

These Direct Vent appliances must be electrically grounded in accordance with the local codes.



WARNING –GAS APPLIANCE

This appliance is for use only with the type of gas indicated on the rating plate. These appliances are not convertible for use with other gases, unless a certified kit is used and the conversion is performed by an authorized qualified technician.

The appliance incorporates a permanent pilot. This is located on the front of the burner, and must not be adjusted by the installer. This system must not be put out of operation, and if any parts require changing, only original manufacturer parts shall be used.

This appliance is designed to be used either Natural or LPG gas. However, each individual appliance is only capable of running off the type of gas specified at the time of purchase. It is important to note that once a type of gas has been specified the stove cannot run off any other type. The type of gas that your stove is capable of burning is stated on the data information panel.

This appliance has been designed, tested and approved to meet standards in place for product use, performance and safety. Installation of your appliance must comply with current building regulations. It is therefore recommended that a registered gas installer be employed for this task. The engineer will provide you with information about the safety limits of the installation and should fix a notice plate in a place where it can be readily seen.

General Fitting Information

- Inlet pipe connection: 8mm compression
- Chimney requirement: Balanced flue
- Flame monitor: Permanent pilot

User control: Variable rotary control inc. integrated Piezo ignition, Permanent pilot facility, Flame failure device and Oxygen Depletion Cut-out.

Before installation of these appliances, the area into which the fire is to be fitted must be cleared of all debris (including dust), in particular combustible material.

The appliance must sit on a hearth (or base surface) sufficient to support its weight.



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Product Listing

This chapter presents certifications, installation requirements, and a list of models and burners.

Certifications and Codes

The appliance must be properly connected to an approved chimney venting system. Refer to the specific appliance to determine vent size and pathway requirements. In addition, adhere to the following pre-installation guidelines:

- Approved vent system manufacturers are:
 - Ontop/Metalotherm
 - Modinox
 - Poujolat
 - Jeremias
- Consult the authority having jurisdiction to determine the need for a permit **PRIOR** to starting the installation.
- It is the responsibility of the installer to ensure that this fireplace is installed in compliance with the manufacturer's instructions and all the applicable codes.
- Before starting, take careful note of **ALL** the **WARNINGS** in this manual.

Installation Requirements

A certified and or qualified installer is required to install the appliance.

The installation must be carried out in accordance with the following regulations:

- The Building Regulations issued by the Department of the Environment, the Building Standards (Scotland) (Consolidation) Regulations issued by the Scottish Development Department.
- BS 1251, BS 5440 part 1, BS 5871 part 2, BS 6461 part1, BS 6891 and BS 8303.
- In the Republic of Ireland the installation must also conform to the relevant standards, particularly in regard to flue sizing and ventilation. Refer to documents IS813, ICP3, IS327 and any other rules in force.

This appliance must be installed in accordance with the rules in force and used only in a sufficiently ventilated space, and is intended for use on a gas installation with a governed meter.

Before installation, ensure that the local distribution conditions (identification of the type of gas and pressure) and the adjustment of the appliance are compatible.

Product List: Models and Burners

The following table lists burners and venting for models using the installation codes EN613 for vented gas fireplace heaters. Adaptors are not required.

Table 1: Burner Sizes: Vented Gas Fireplace Heaters



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UNIT SERIES	BURNER	MODELS	CHIMNEY SIZE	Appliance Type
40	30	<ul style="list-style-type: none"> • Clear 40 Front/ RS/LS/TS/ Tunnel • Stand Alone 40 TS • Clear 4070H Front/RS/LS/TS/Tunnel • Clear 4090H Front/RS/LS/TS/Tunnel • Small Square, • Classic Corner, Modern Corner • Modern Classic 	100/150	C11-C12-C31-C52-C61-C91
60/75/80	45	<ul style="list-style-type: none"> • Clear 60x80 Front/ Tunnel • Clear 75 Front/RS/LS/TS, • Clear 75 SA Front/TS • Space Creator 75 • Clear 75H Front/RS/LS/TS/HARK, • Clear 7565 Front/Tunnel • Clear 7565H Front/Tunnel • Oval 60x80, Oval 120 • Minimal 110, Minimal 130, • Classic F, Island 70 • Circle 70, Circle 270 	100/150	C11-C12-C31-C52-C61-C91
90	70	<ul style="list-style-type: none"> • Clear 90 Front/RS/LS/TS/Tunnel • Clear 90H Front/RS/LS/TS/Tunnel • Space Creator 90 	130/200	C11-C12-C31-C52-C61-C91
110/120/130	100	<ul style="list-style-type: none"> • Clear 110 Front/RS/LS/TS/Tunnel • Clear 110 Stand Alone • Clear 110H Front/ RS/LS/TS/Tunnel • Clear 110HH Front/Tunnel • Clear 130 Front/RS/LS/TS/Tunnel • Clear 130H Front/RS/LS/TS/Tunnel • Clear 140 Front/RS/LS/TS • Island 130 • Space Creator 120 /Mini/Midi 	130/200	C11-C12-C31-C52-C61-C91
140/150/170	135	<ul style="list-style-type: none"> • Clear 150 Front/RS/LS/TS/Tunnel • Clear 150H Front/RS/LS/TS/Tunnel • Space Creator 150 • Clear 150 Stand Alone • Clear 170 Front/RS/LS/TS/Tunnel • Clear 170H Front/RS/LS/TS/Tunnel • Island 150 	130/200	C11-C12-C31-C52-C61-C91
200/250	160	<ul style="list-style-type: none"> • Clear 200 Front/RS/LS/TS/Tunnel • Clear 200H Front/RS/LS/TS/Tunnel • Space Creator 200 • Clear 250 Front/RS/LS/TS/Tunnel • Clear 250H Front/RS/LS/TS/Tunnel 	130/200	C11-C12-C31-C52-C61-C91
200/250	180	<ul style="list-style-type: none"> • Clear 200 Front/RS/LS/TS/Tunnel • Clear 200H Front/RS/LS/TS/Tunnel • Space Creator 200 • Clear 250 Front/RS/LS/TS/Tunnel • Clear 250H Front/RS/LS/TS/Tunnel 	130/200	C11-C12-C31-C52-C61-C91



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Wilderness	Dark Brown	<ul style="list-style-type: none"> • Wilderness 7565 Front • Wilderness 75H Front/RS/LS/TS • Wilderness 75 Front RS/LS/TS • Wilderness 75HH RS/LS • Wilderness 70 Front • Wilderness Minimal 110 • Wilderness 90H Front 	130/200	C11-C12-C31-C52-C61-C91
Wilderness	Driftwood 45-3	<ul style="list-style-type: none"> • Wilderness 7565 Front • Wilderness 75H Front/RS/LS/TS • Wilderness 75 Front RS/LS/TS • Wilderness 75HH RS/LS • Wilderness 90H FR/RS/LS/TS/SC • Wilderness 110 H/HH FR/RS/LS/TS/SA • Wilderness 130 H/HH FR/RS/LS/TS • Wilderness 150 H/HH FR/RS/LS/TS/SA/SC • Wilderness 170 H/HH FR/RS/LS/TS 	130/200	C11-C12-C31-C52-C61-C91
Wilderness	Driftwood 70-3	<ul style="list-style-type: none"> • Wilderness 90H FR/RS/LS/TS/SC • Wilderness 110 H/HH FR/RS/LS/TS/SA • Wilderness 130 H/HH FR/RS/LS/TS • Wilderness 150 H/HH FR/RS/LS/TS/SA/SC • Wilderness 170 H/HH FR/RS/LS/TS 	130/200	C11-C12-C31-C52-C61-C91
Wilderness	Driftwood 100-3	<ul style="list-style-type: none"> • Wilderness 110 H/HH FR/RS/LS/TS/TU/SA • Wilderness 120 SC • Wilderness 130 H/HH FR/RS/LS/TS/TU • Wilderness 150 H/HH FR/RS/LS/TS/TU/SC/SA • Wilderness 170 H/HH FR/RS/LS/TS 	130/200	C11-C12-C31-C52-C61-C91
Wilderness	Driftwood 135-3	<ul style="list-style-type: none"> • Wilderness 150 H/HH FR/RS/LS/TS/TU/SC/SA • Wilderness 170 H/HH FR/RS/LS/TS/TU • Wilderness 200 H/HH FR/RS/LS/TS/TU/SC • Wilderness 250 H/HH FR/RS/LS/TS/TU 	130/200	C11-C12-C31-C52-C61-C91
Wilderness	Driftwood 135-5	<ul style="list-style-type: none"> • Wilderness 150 H/HH FR/RS/LS/TS/TU/SC/SA • Wilderness 170 H/HH FR/RS/LS/TS/TU • Wilderness 200 H/HH FR/RS/LS/TS/TU/SC • Wilderness 250 H/HH FR/RS/LS/TS/TU 	130/200	C11-C12-C31-C52-C61-C91
Wilderness	Driftwood 180-5	<ul style="list-style-type: none"> • Wilderness 200 H/HH FR/RS/LS/TS/TU/SC • Wilderness 250 H/HH FR/RS/LS/TS/TU 	130/200	C11-C12-C31-C52-C61-C91
Wilderness	Driftwood 220-5	<ul style="list-style-type: none"> • Wilderness 200 H/HH FR/RS/LS/TS/TU/SC • Wilderness 250 H/HH FR/RS/LS/TS/TU 	130/200	C11-C12-C31-C52-C61-C91



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Fireplace Clearances

This chapter provides information, diagrams and recommendations related to mounting, minimum clearances, television installation and more:

- Appliances Clearances: Overview on page 13
- Firebox Clearance Diagrams on page 16
- Diagrams for Mantel Clearances on page 22
- Cool Wall Technology on page 24
- Television and Fireplace Installation on page 25
- The Flame Fireplaces with Double Glass on page 27
- Mounting of Stand Alone Models on page 98

Appliances Clearances: Overview

The appliance is approved with maintained minimum clearance to combustible materials, as shown in the diagrams provided in this chapter.

Non-combustible materials: Materials applicable for the installation of The Flame fireplaces within the specified clearance dimensions are described as non-combustible materials. An exception is made only for fire rated 16 mm non-combustible or heat resistant gypsum wallboard, CE authorized or equivalent, where a non-combustible material may be used.

Non-combustible materials, such as surrounds and other appliance trim, may be installed on the appliance face as long as the minimum clearances are maintained between the appliance and the non-combustible material. Surrounding material is not allowed to transfer weight to the unit or be connected in any way to the unit. It may be fastened to the frame with 2.5 cm self-tapping drywall screws 40.5 cm on center, with a minimum of 6.5 cm from the glass lip. It must not transfer weight to the fireplace or cover any portion of the removable glass panel or the control compartment.

The minimum clearances (air space) to combustible materials must be adhered to. It is of the greatest importance that the fireplace and vent system be installed only in accordance with these instructions.

These appliances are designed with the “Firebox” raised up off the ground level by the built in “Base unit”. Thus, the appliances require no special Hearth arrangements, as the floor will not get hot and is protected by the steel construction of the “Base unit”.

The appliance must not be fitted against a rear wall constructed from a combustible material. A clearance of 300mm should be given above the fireplace and 50mm from sides and back before combustible materials may be used in the wall construction. Clearance from viewing areas is 500mm to combustibles.

Concepts and Definitions

- **Access Panels:** These are typically required for all The Flame fireplaces. They allow for efficient and comfortable access to the fireplace receiver and valves, which is required to service the unit(s). Also, access panels can be uniquely placed and designed to not disturb the aesthetic incorporation of the fireplace to its surrounding living space. The size of the Access Panel may vary, but in all cases must allow the fireplace technician to effectively access and service the valve and receiver if required.
- **Framing and Drywall:** The fireplace chase may be framed with metal studs or wood studs. Wood must be covered completely with non-combustible material. The framing of the fireplace chase wall must be designed to carry the entire weight of the wall, including the weight of other finish materials placed on it.



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NOTE: The Flame fireplaces must not carry any structural weight. The framing must be supported by another surface, not by the firebox. Please consult with your structural engineer and refer to your local building code for proper wall support.

- **Heat Release:** Heat release is required for all models except the Stand Alone. This allows for heat building up within the fireplace chase to be released back into the space, helping to keep the fireplace wall cool. It must be located at the top of the fireplace chase and be placed a maximum of 15.2 cm below the fireplace chase ceiling. It can be located on the front, sides or back of the fireplace chase, as long as it is being released into an interior space and not outdoors. A minimum air space is required per series:
 - Minimum 320 square cm of free air space for Series 40-75
 - Minimum 800 square cm of free air space for Series 90-130
 - Minimum 1290 square cm of free air space for Series 150-200
 - Minimum 1600 square cm of free air space for Series 250

These air space values are the minimum required- they can always be greater. The heat release can be added as a louver or as a reveal. If using a louver, make sure that the free airspace allowed in the louvered area is equal or greater than the minimum number of square cm required per unit.

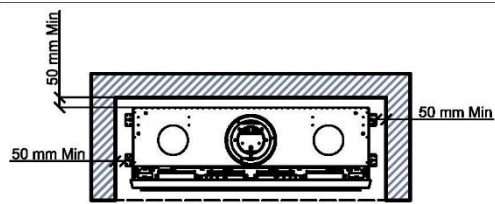
- **Fireplace Legs:** All The Flame built-in fireplaces (Clear Front, LS, RS, TS, and Space Creator) come standard with legs that measure:
 - **Standard and Protective screen units:** 21 cm from the bottom of the fireplace glass opening to the floor
 - **Double glass units:** 25 cm from the bottom of the fireplace glass opening to the floor

This is the minimum height for the firebox to rest on the floor. **The legs cannot be removed.**

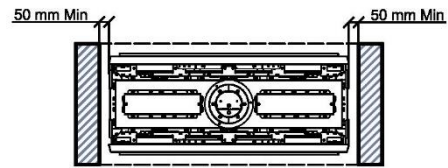


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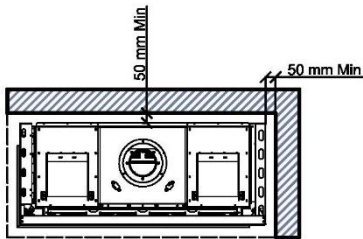
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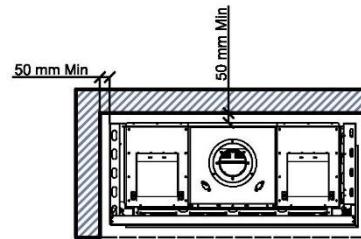
Front & Traditional



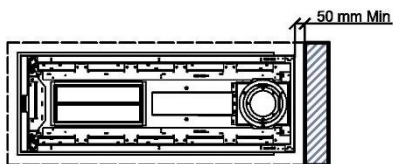
Tunnel



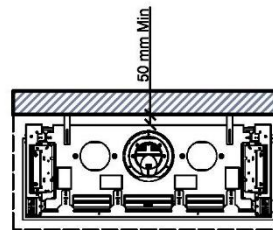
Corner: Left Side



Corner: Right Side



Space Creator



Three Side



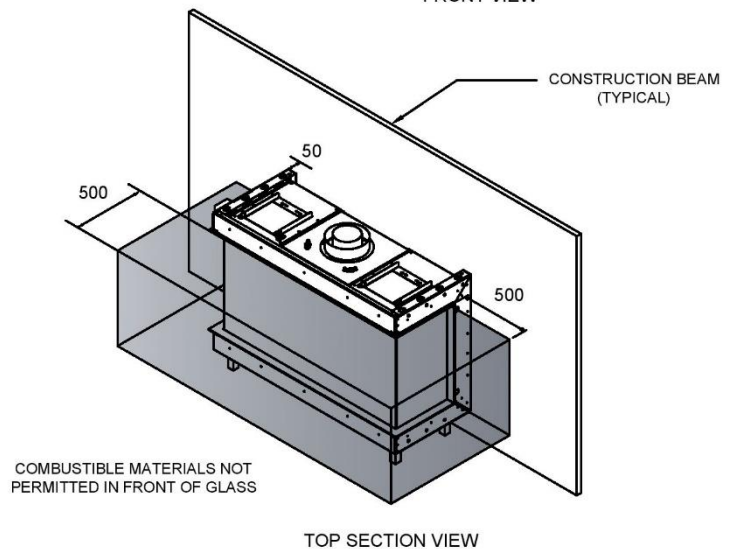
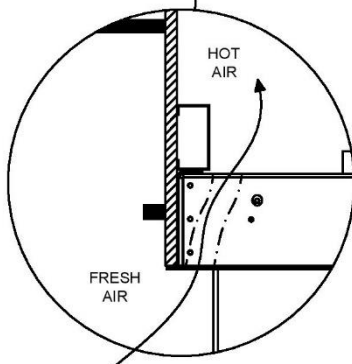
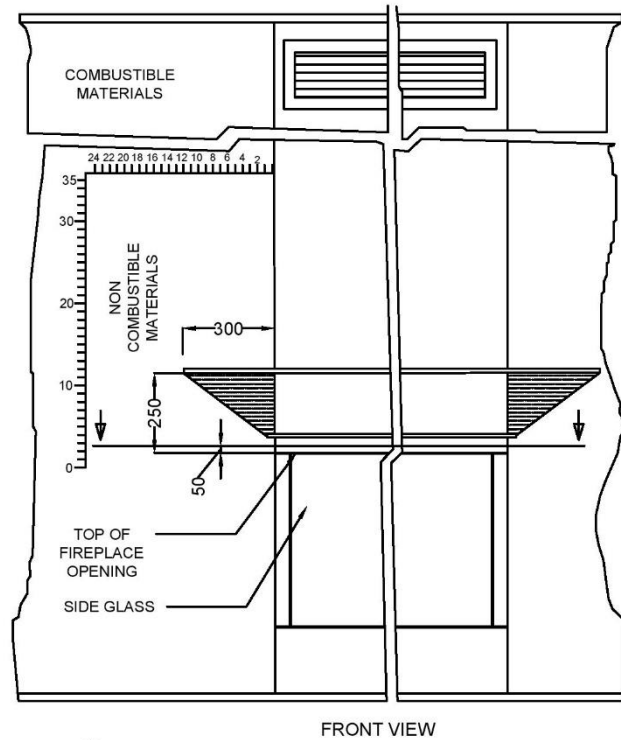
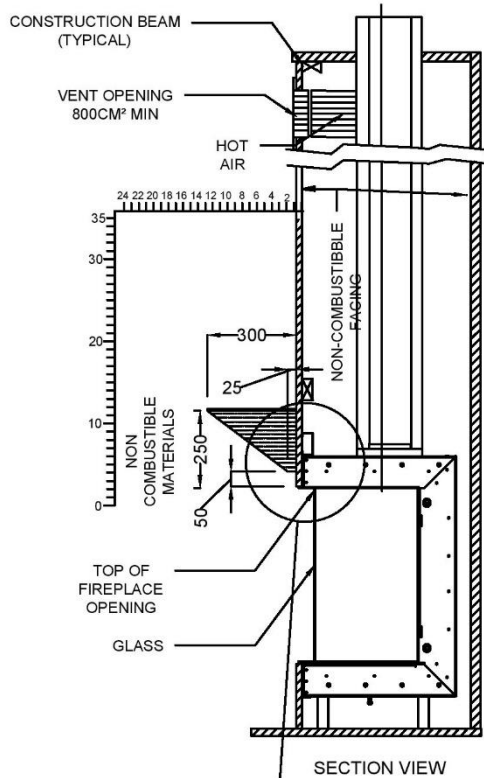
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Firebox Clearance Diagrams

Maintain clearances as shown in the figures below. Clearances are to non-combustible and heat resistant materials.

3 SIDES FIREPLACE



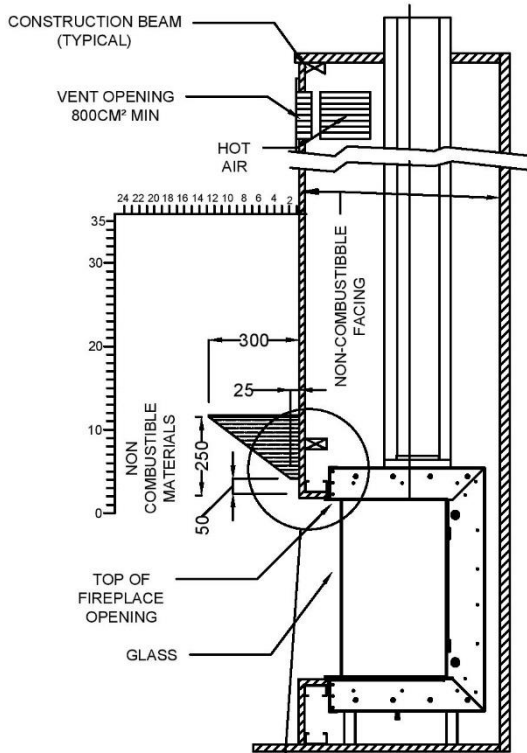
 The air flow area must be free from any obstruction, to allow heat from the chase to be released.



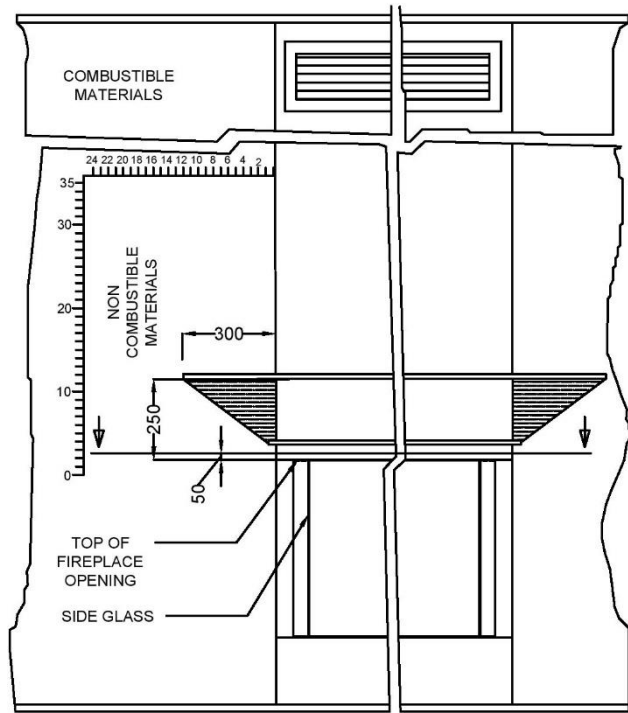
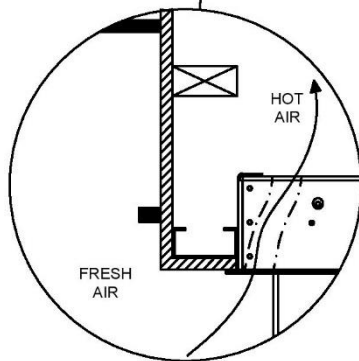
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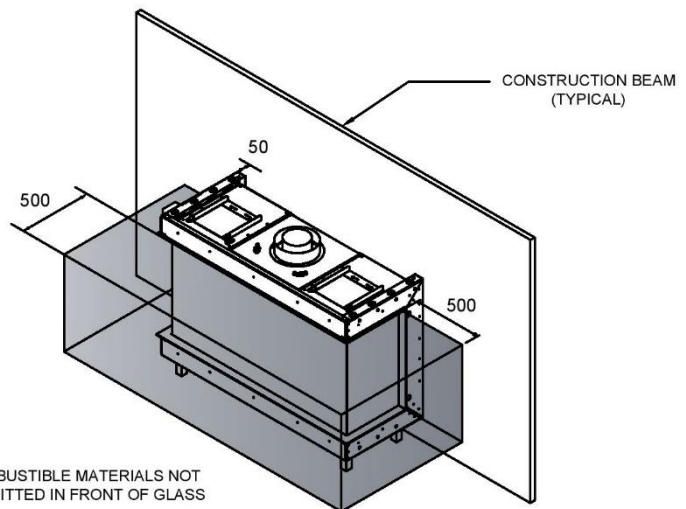
3 SIDES OFFSET FIREPLACE



SECTION VIEW



FRONT VIEW



TOP SECTION VIEW



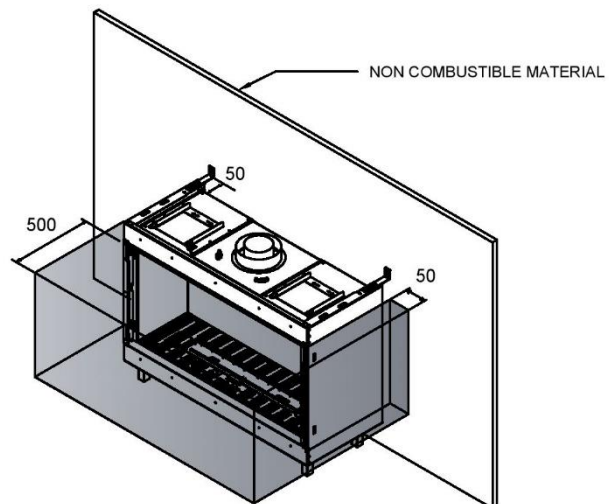
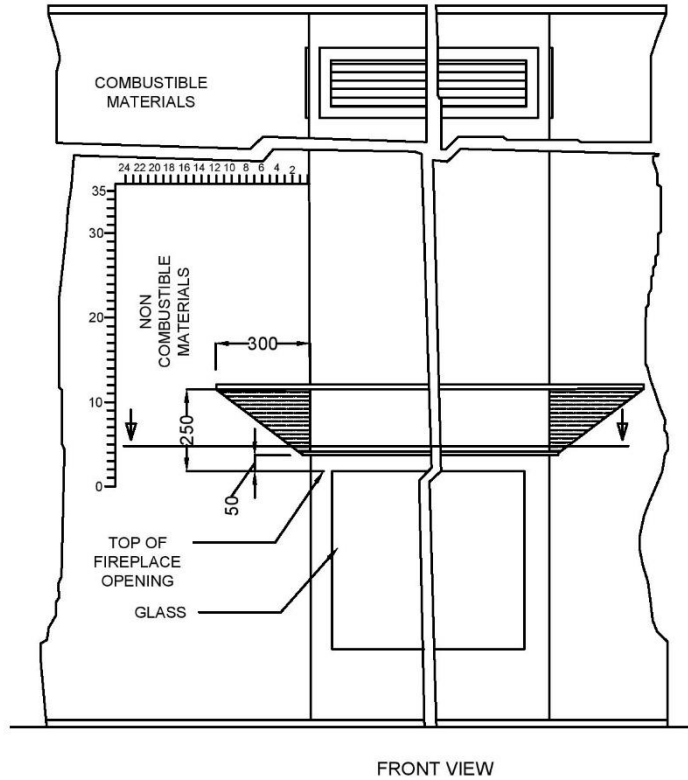
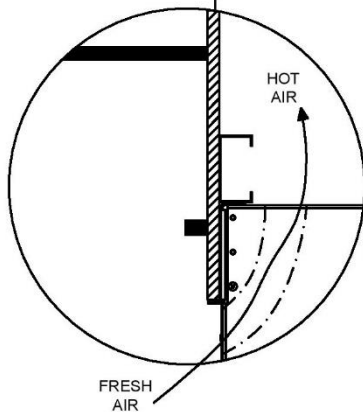
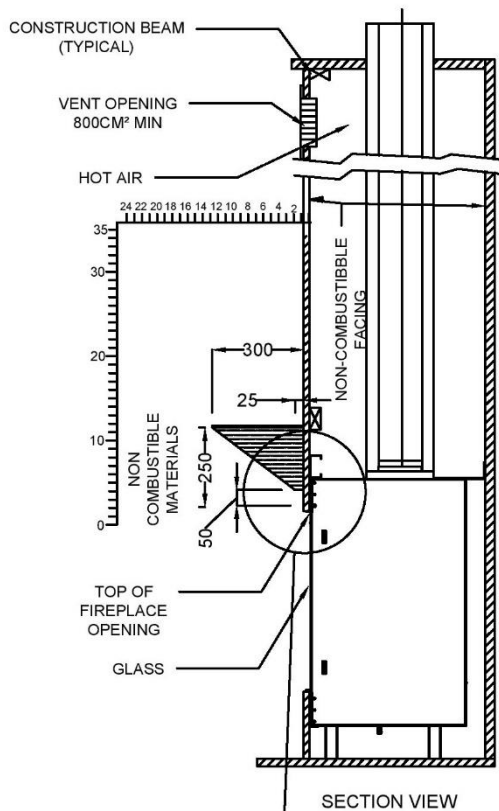
The air flow area must be free from any obstruction, to allow heat from the chase to be released.



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CLEAR FRONT FIREPLACE



COMBUSTIBLE MATERIALS NOT PERMITTED IN FRONT OF GLASS

TOP SECTION VIEW



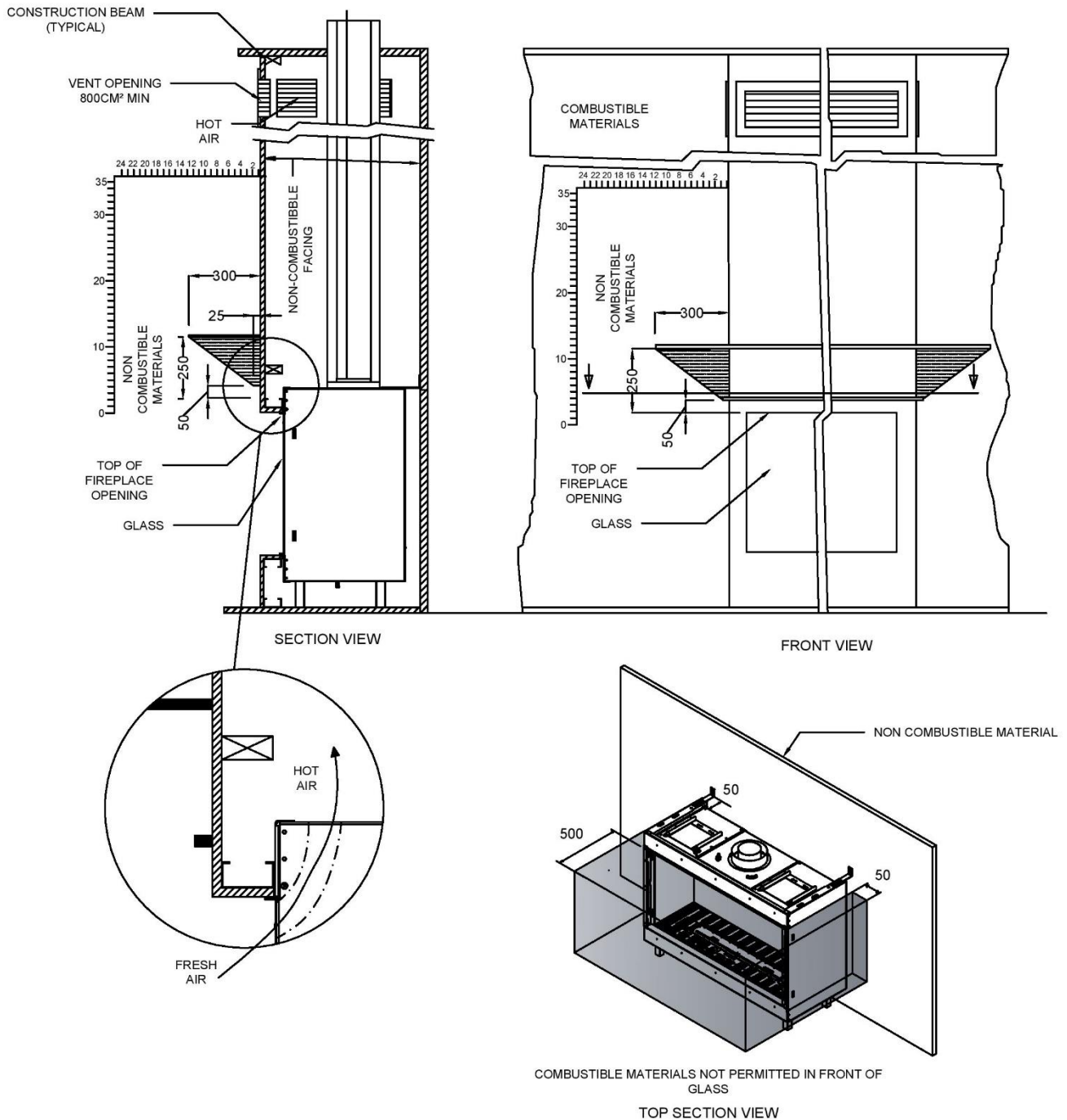
The air flow area must be free from any obstruction, to allow heat from the chase to be released.



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CLEAR FRONT OFFSET FIREPLACE



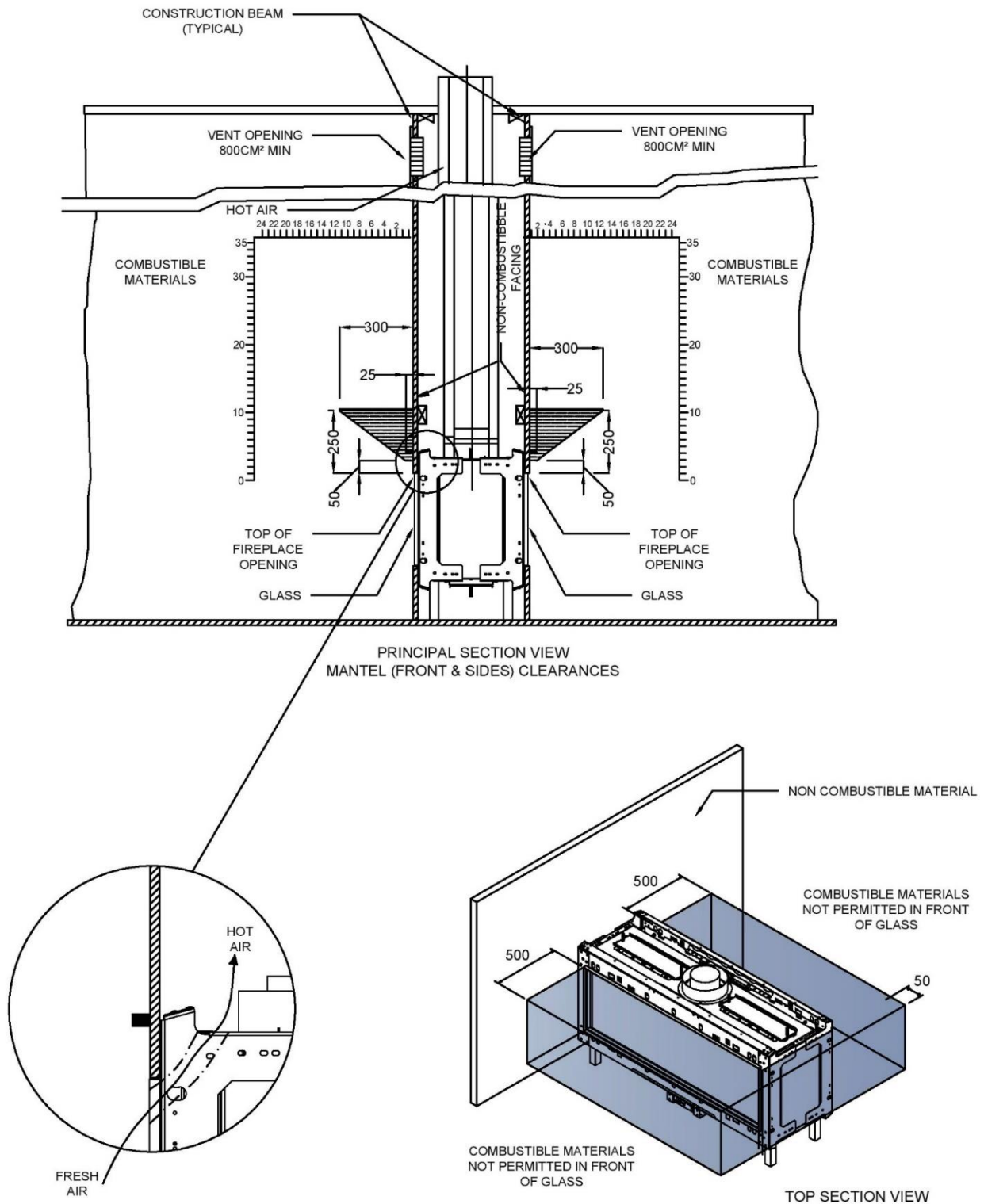
! The air flow area must be free from any obstruction, to allow heat from the chase to be released.



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TUNNEL FLAT FIREPLACE



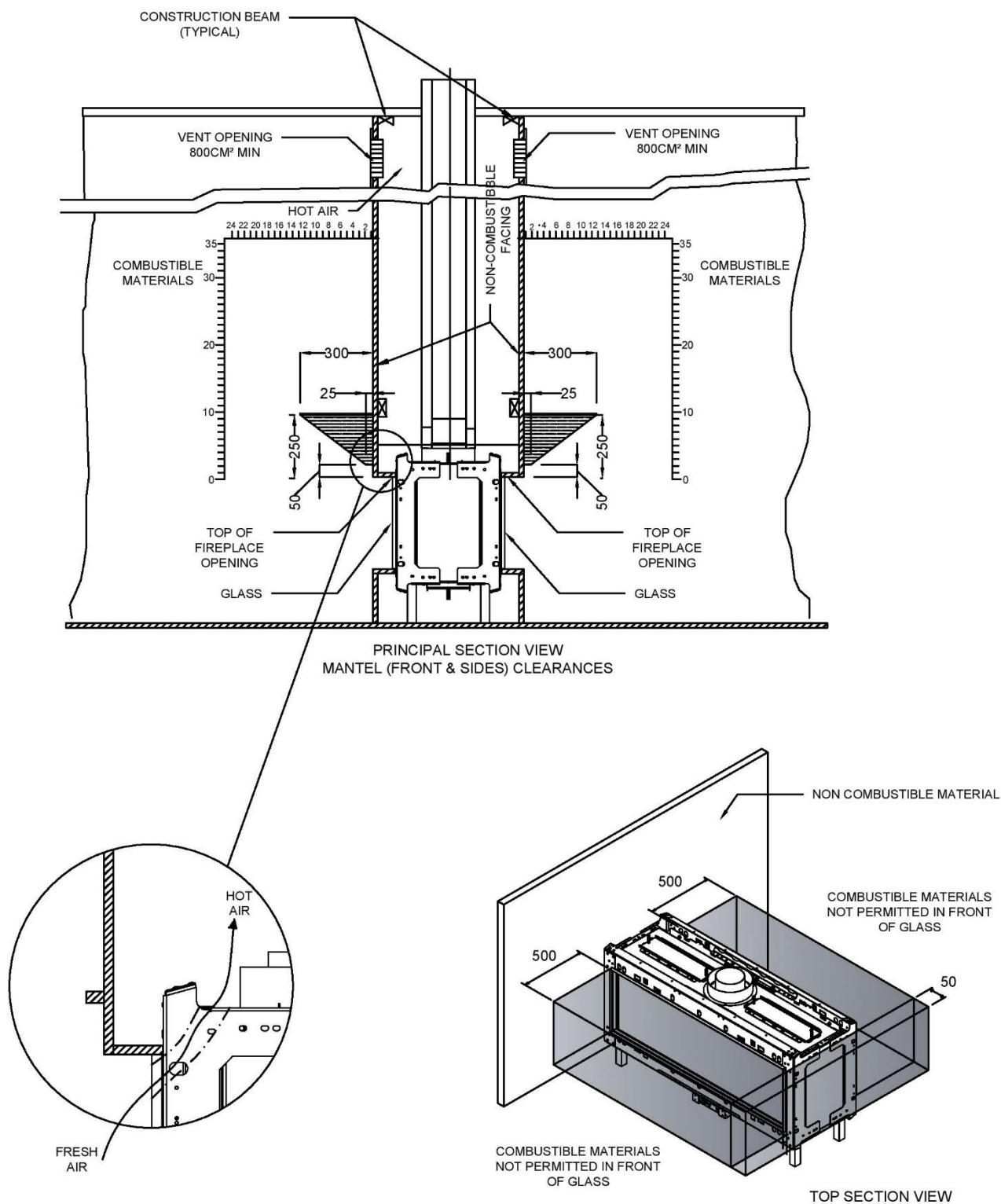
! The air flow area must be free from any obstruction, to allow heat from the chase to be released.



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TUNNEL OFFSET FIREPLACE



 The air flow area must be free from any obstruction, to allow heat from the chase to be released.



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Diagrams for Mantel Clearances and Shelf Details

The following sections present clearance diagrams for different fireplace options. Please note that these drawings are not to scale. All fireplace drawings with correct dimensions are available on our website under **Products>Downloads>Diagram**

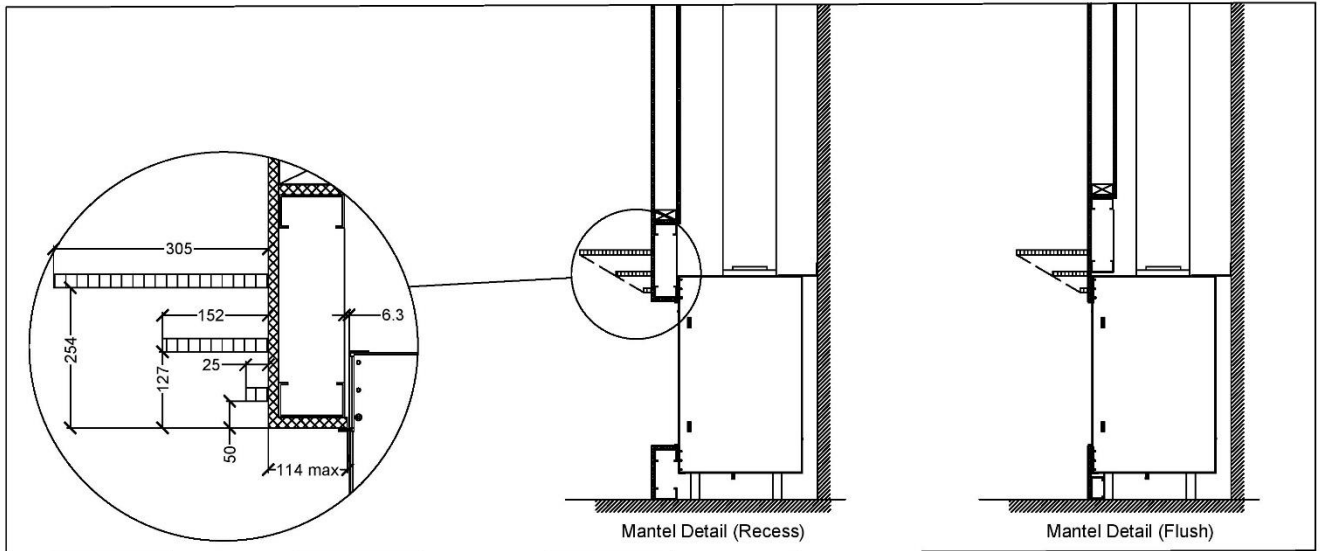






Figure 1: Mantel Clearances: Recess and Flush Finishes

LEGEND:

	16 mm non-combustible or heat resistant gypsum board		Wood framing
	Combustible material		Metal framing



The air flow area must be free from any obstruction, to allow heat from the chase to be released.

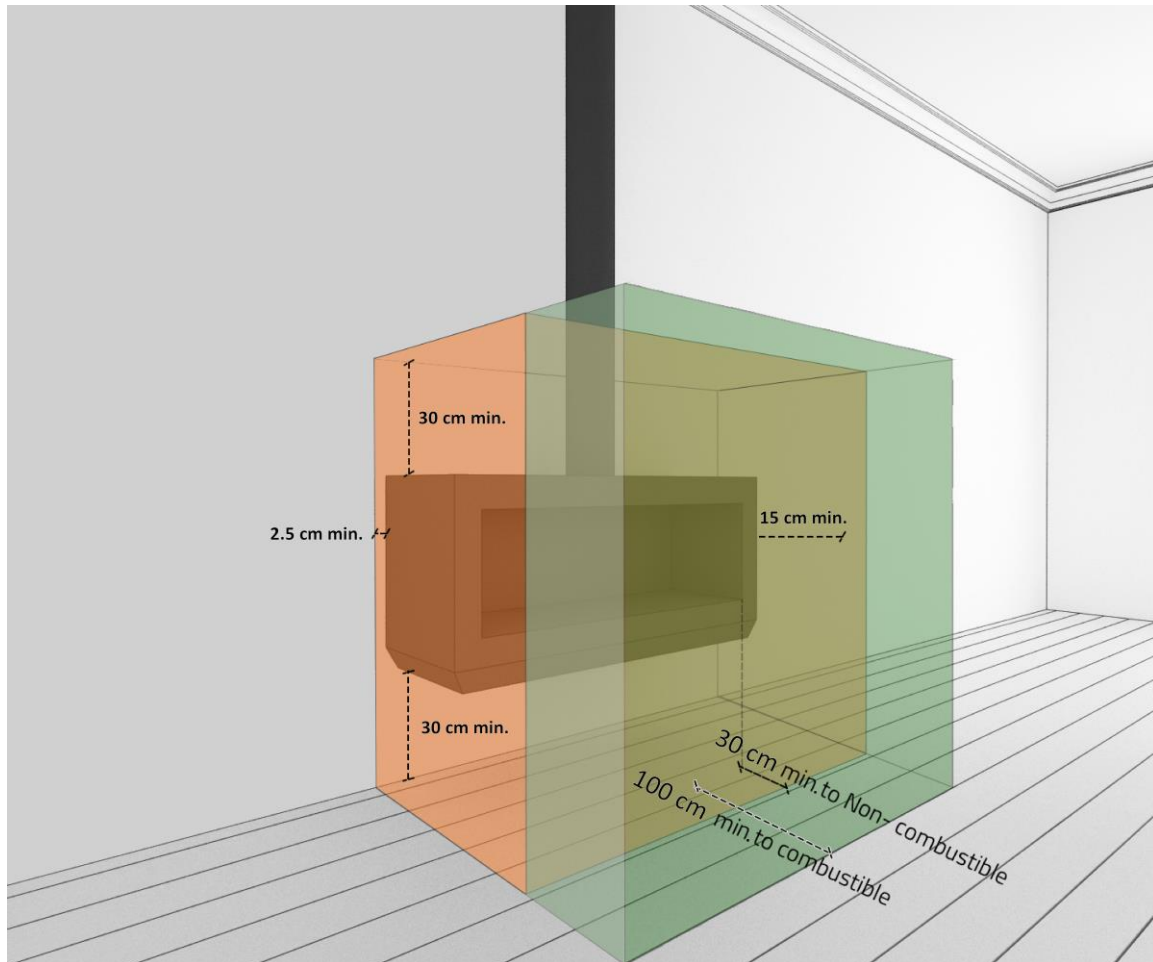


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Stand Alone Clearances

For Stand Alone models keep the following clearances all around the appliance





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Cool Wall Technology

The Flame's unique Cool Wall technology is a technique that reduces the heat from the glass and the firebox and prevents excessive heat buildup, thereby avoiding any damage that may result from high heat temperatures. The Flame's cool wall system enables the option of installing a TV or other similar electronic components above the fireplace, as well as the ability to use finishing materials that a hot wall surface would prohibit.

An The Flame fireplace is surrounded by cool walls the first time every time. In addition, Cool Wall technology avoids the need for a fan to keep the walls cool. A fan requires more power, an additional outlet near the fireplace, and may result in a dull noise in the background whenever the fan is operating.

The following table shows wall temperatures achieved by The Flame Heating Solutions.

Table 2: Wall Temperatures Above the Firebox

Location	Wall Temperature
0-15 cm above the firebox	70°-100° C
15 -30 cm above the firebox	70° C
Recommended minimum clearance between bottom edge of TV or other similar device and top of firebox opening is 30.48 cm.	
30 cm above the firebox	30° C

Excessively high wall temperatures surrounding the firebox can contribute to the following conditions:

- Distortion of the wall surface
- Peeling or color change of the paint on the finished wall
- Falling wall tiles (glue will no longer hold at temperatures above 115 degrees C)
- Puckering, bending and/or splintering of wood paneling
- Cracking of marble
- Noncompliance of electrical components

The following table summarizes types of damage that can be caused by excessive heat around the firebox opening.

Table 3: Material Damage Caused by Excessive Heat

Material	Temperature at which material is damaged	Damage
Marble	Approximately 138° C (lots of variety is reported; ask your supplier)	Cracking
Tile/Glue	115° C (From MSDS sampling of a variety of products)	Tiles aren't held by the glue and will fall
Paint	76° C (From MSDS sampling of a variety of products)	Peeling, color change
Wood	Varies according to dryness/moisture content	Warping, cracking, bowing, drying, burn/fire hazard

NOTE: Make sure to review and understand all of The Flame's installation manuals, details and clearances before installation. Also be sure to consult the product guides and manuals for whatever products or devices will be used as part of the installation to ensure compliant installation for all products.



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Television and Fireplace Installation

The following sections provide guidelines and diagrams for installing a television above the fireplace:

- TV Placement Considerations on page 25
- TV Installation Clearance Diagrams on page 26

TV Placement Considerations

Most TV manufacturers specify in their instructions that the TV should not be installed on, near or above a heat source. However, the decision of where to place the TV ultimately rests solely with the homeowner. The Flame will not be held liable for any adverse effects on a TV or other equipment located near The Flame fireplaces.

The material from which the wall and mantle are made will also affect the operating temperature of the TV. It is the customer's responsibility to verify that their TV mounting and mantel design will not exceed the listed maximum operating temperature of their electronic goods.

The homeowner should also be careful to consider the placement of the equipment's power and signal lines. If these lines are in or near the chase, they need to be protected from heat.

The drawings in the following sections can be used as a guide for those consumers who do decide to locate their TVs above The Flame fireplaces. These drawings illustrate ways of reducing the amount of heat impact to TVs placed above the fireplace.



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TV Installation Clearance Diagrams

The following diagrams show TV clearances for different fireplace options. Please note that these drawings are not to scale.

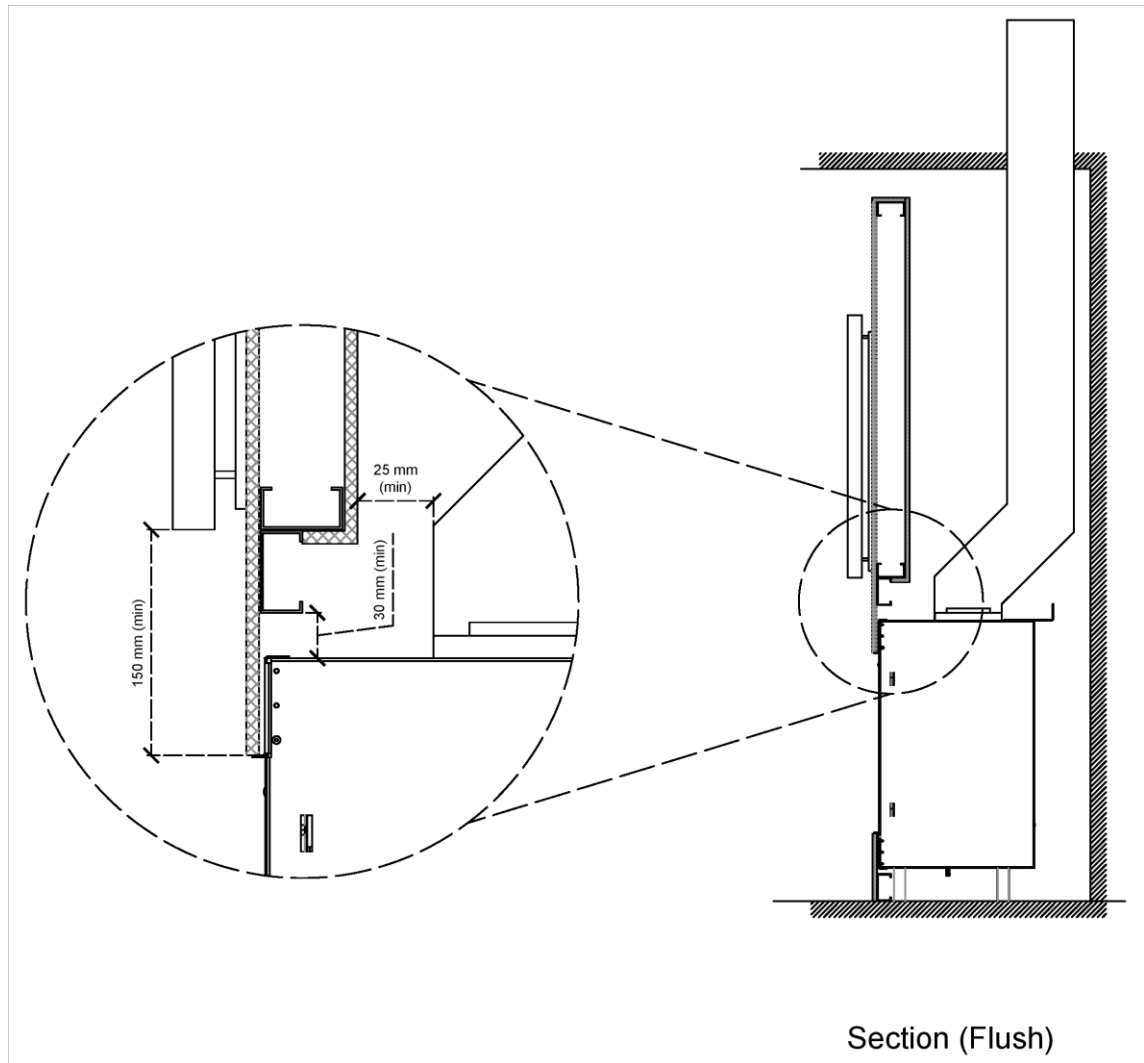






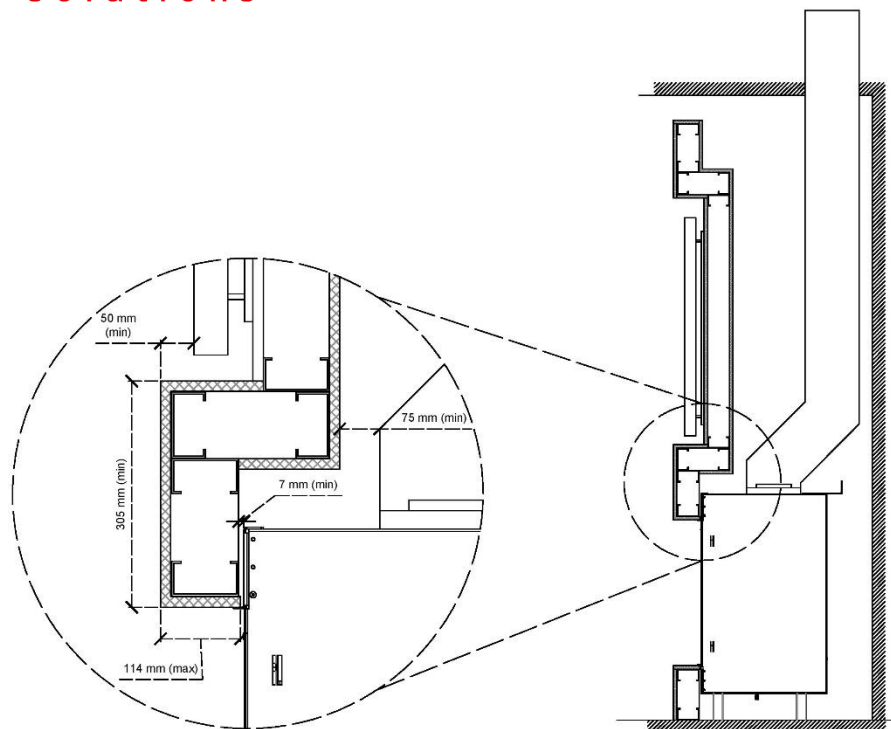
Figure 2: Fireplaces with Flush Finish: TV Clearances

LEGEND:

	16 mm non-combustible or heat resistant gypsum board		Wood framing
	Combustible material		Metal framing







The air flow area must be free from any obstruction, to allow heat from the chase to be released.



Section (Flush)

Figure 3: Fireplaces with Recess Finish: TV Clearances

LEGEND:

	16 mm non-combustible or heat resistant gypsum board		Wood framing
	Combustible material		Metal framing

 **The air flow area must be free from any obstruction, to allow heat from the chase to be released.**

THE FLAME Fireplaces with Double Glass

When installing double glass fireplaces, it is essential to maintain cool air flow between the glass panels and through the chase cavity.

In order to maintain air flow between the glass panels and to allow cool room air to enter into the chase cavity, an opening must be provided in the exterior finish surface underneath the firebox. This opening needs to be made before closing the wall surface below the fireplace.



POWER REQUIREMENT: Make sure to prepare a 230 volt 50 hz dedicated power line (outlet) at the bottom area of the unit to provide power for the fan that circulates air between the panels and through the chase.

The diagrams below show two options for constructing the chase cavity air intake. Please note that these drawings are not to scale.



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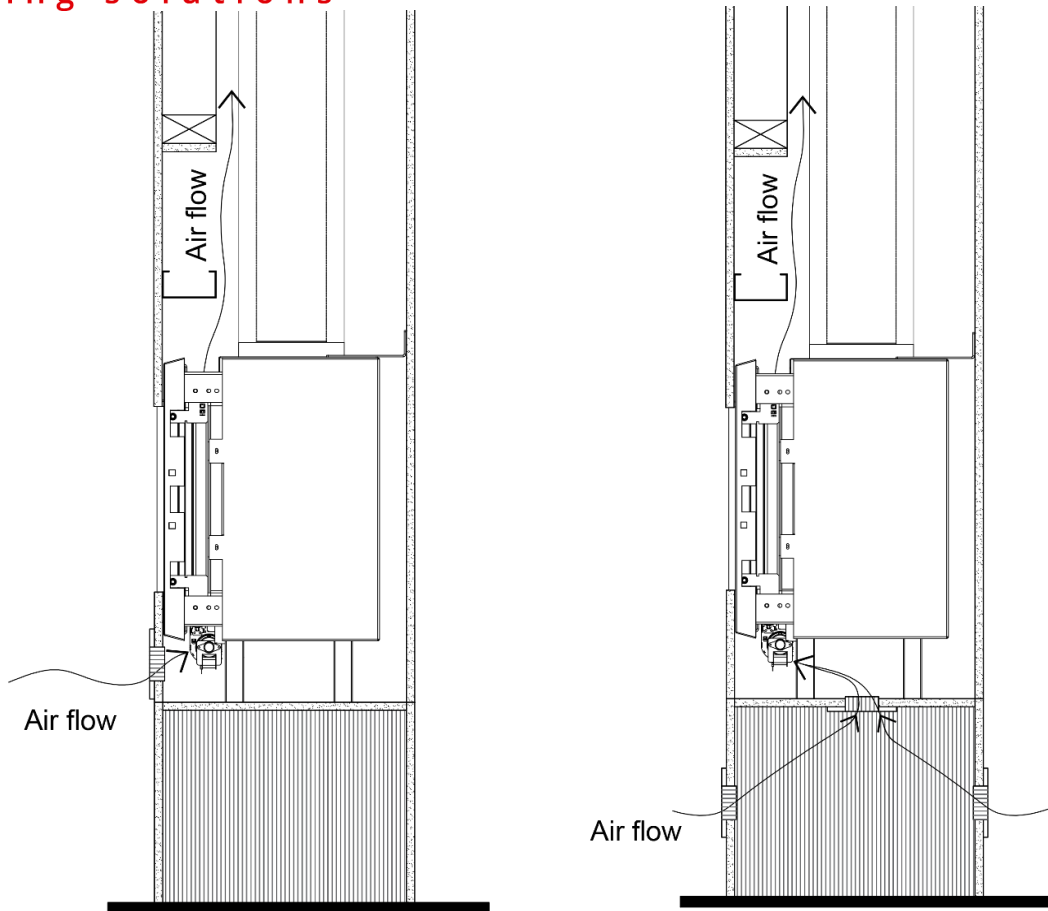






Figure 4: Chase Cavity Air Intake Options

LEGEND:

	16 mm non-combustible or heat resistant gypsum board		Wood framing
	Combustible material		Metal framing



The air flow area must be free from any obstruction, to allow heat from the chase to be released.



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Gas Setup

The Flame fireplaces are closed direct vent systems that can operate with natural gas (NG) or propane (LPG). The following sections present detailed information about gas routing, pressures, conversion, maintenance and more:

- Gas Line Routing on page 30
- Gas Pressure and Heat Input Chart on page 31
- Gas Control Assemblies and Components on page 34
- Gas Conversion on page 35



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Gas Line Routing

Correctly size and route the gas supply line from the supply regulator to the area where the appliance is to be installed.

⚠ WARNING –The main gas valve must be installed to allow complete disconnection of the appliance from the gas supply piping system for servicing purposes.

Control Connections

For information on remote and electronic systems, please visit the manufacturer's website:

<http://www.mertikmaxitrol.com/>



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Gas Pressure and Heat Input Charts

The following tables lists gas pressures and heat input values for models using the installation codes EN613 for vented gas fireplace heaters.

Table 4: Gas Pressures and Heat Input: Vented Gas Fireplace Heaters (One Phase Burner)

MODELS	ONE PHASE BURNER								
	Burner Size	Injectors	Pilot Inject or	Manifold Pressure (mbar)	Gas Consumption (m3/h)	Heat Input (KW)	Heat Output (KW)	Efficiency (%)	Chimney Size
	cm	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	mm
Clear 40 Front, Clear 40 RS/LS/TS, Clear 40 Tunnel, Clear 40 SA TS, Clear 40H70 Front, Clear 40H70 RS/LS/TS, Clear 40H70 Tunnel, Clear 40H90 Front, Clear 40H90 RS/LS/TS, Clear 40H90 Tunnel, Small Square, Classic corner, Modern corner, Modern Classic	30	650/220	36/23	6.7/14.4	0.53/0.15	5.0/4.8	4.2/3.9	84.9/79.9	100/150
Clear 75 Front, Clear 75 RS/LS/TS, Clear 75H RS/LS/TS (HARK), Clear 75 SA, Clear 75 SA TS, Space Creator 75, Clear 7565 Front, Clear 7565Tunnel, Clear 7565H Front, Clear 7565HTunnel, Clear 6080 Front, Clear 6080 Tunnel, Minimal 110, Minimal 130, Oval 60x80, Oval 120, Island 70, Circle 70, Circle 270	45 ONLY NG	650	36	10.8	0.74	7	5.6	80.3	100/150
Clear 110 Front, Clear 110 RS/LS/TS, Clear 110 Tunnel, Clear 110H Tunnel, Clear 110 Stand Alone, Clear 110H Front, Clear 110H RS/LS/TS, Clear 110HH Front, Clear 110HH Tunnel, Clear 130 Front, Clear 130 RS/LS/TS, Clear 130 Tunnel, Clear 130H Front, Clear 130H RS/LS/TS, Clear 130H Tunnel, Clear 140 Front, Clear 140 RS/LS/TS, Space Creator 120, Space Creator 120 Mini, Space Creator 120 Midi, Island 130	100	1200/260	36/23	7.4/19.5	0.976/0.232	9.2/7.5	7.8/5.4	84.1/72.1	130/200
Clear 150 Front, Clear 150 RS/LS/TS, Clear 150 Tunnel, Clear 150 Stand Alone, Clear 150H Front, Clear 150H RS/LS/TS, Clear 150H Tunnel, Space Creator 150, Clear 170 Front, Clear 170 RS/LS/TS, Clear 170 Tunnel, Clear 170H Front, Clear 170H RS/LS/TS, Clear 170H Tunnel, Island 150	135	1400/380	36/23	5.7/26.2	1.106/0.476	10.4/11.9	9.1/7.8	86.8/65.1	130/200
Clear 200 Front, Clear 200 RS/LS/TS, Clear 200 Tunnel, Clear 200H Front, Clear 200H RS/LS/TS, Clear 200H Tunnel, Space Creator 200, Clear 250 Front, Clear 250 RS/LS/TS, Clear 250H Front, Clear 250H RS/LS/TS, Clear 250 Tunnel, Clear 250H Tunnel	160	1400/380	36/23	8.8/26.2	1.335/0.390	12.6/12.6	10.4/9.1	82.5/72.5	130/200
Clear 200 Front, Clear 200 RS/LS/TS, Clear 200 Tunnel, Clear 200H Front, Clear 200H RS/LS/TS, Clear 200H Tunnel, Space Creator 200, Clear 250 Front, Clear 250 RS/LS/TS, Clear 250H Front, Clear 250H RS/LS/TS, Clear 250 Tunnel, Clear 250H Tunnel	180	1400/500	36/23	11.9/20.0	1.508/0.353	14.3/11.4	11.0/8.8	77.0/77.4	130/200



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Table 5: Gas Pressures and Heat Input: Vented Gas Fireplace Heaters (Dual Phase Burner)

MODELS	DUAL PHASE BURNER								
	Burner Size	Injectors	Pilot Injector	Manifold Pressure (mbar)	Gas Consumption (m3/h)	Heat Input (KW)	Heat output (KW)	Efficiency (%)	Chimney Size
	cm	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	NG/LPG	mm
Clear 75 Front, Clear 75 RS/LS/TS, Clear 75H RS/LS/TS (HARK), Clear 75 SA, Clear 75 SA TS, Space Creator 75, Clear 7565 Front, Clear 7565Tunnel, Clear 7565H Front, Clear 7565HTunnel, Clear 6080 Front, Clear 6080 Tunnel, Minimal 110, Minimal 130, Oval 60x80, Oval 120, Island 70, Circle 70, Circle 270	45D	2x380 2x120	36/23	9.1/16.1	0.70/0.19	6.6/6.0	5.5/5.2	83.5/85.8	100/150
Clear 90, Clear 90 , RS/LS/TS, Clear 90 SC, Clear 90H, Clear 90H RS/LS/TS, Minimal 110, Minimal 110 RS/LS/TS, Minimal 130, Minimal 130 RS/LS/TS	70D	650/380 180/160	36/23	8.7/17.5	0.91/0.26	8.4/8.4	6.9/7.1	82.2/85.3	130/200
Clear 110 Front, Clear 110 RS/LS/TS, Clear 110 Tunnel, Clear 110H Tunnel, Clear 110 Stand Alone, Clear 110H Front, Clear 110H RS/LS/TS, Clear 110HH Front, Clear 110HH Tunnel, Clear 130 Front, Clear 130 RS/LS/TS, Clear 130 Tunnel, Clear 130H Front, Clear 130H RS/LS/TS, Clear 130H Tunnel, Clear 140 Front, Clear 140 RS/LS/TS, Space Creator 120, Space Creator 120 Mini, Space Creator 120 Midi, Island 130	100D	2x650 2x220	36/23	5.8/14	0.88/0.26	8.3/8.3	7.0/7.1	84.7/84.5	130/200
Clear 150 Front, Clear 150 RS/LS/TS, Clear 150 Tunnel, Clear 150 Stand Alone, Clear 150H Front, Clear 150H RS/LS/TS, Clear 150H Tunnel, Space Creator 150, Clear 170 Front, Clear 170 RS/LS/TS, Clear 170 Tunnel, Clear 170H Front, Clear 170H RS/LS/TS, Clear 170H Tunnel, Island 150	135D	650/800 2x220	36/23	8.6/16.8	1.19/0.32	11.2/10.2	8.8/8.4	78.7/81.7	130/200
Clear 200 Front, Clear 200 RS/LS/TS, Clear 200 Tunnel, Clear 200H Front, Clear 200H RS/LS/TS, Clear 200H Tunnel, Space Creator 200, Clear 250 Front, Clear 250 RS/LS/TS, Clear 250H Front, Clear 250H RS/LS/TS, Clear 250 Tunnel, Clear 250H Tunnel	160D	650/800 2x220	36/23	11.5/22	1.344/0.413	12.7/13.3	11.1/11.0	86.9/82.3	130/200



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The Wilderness Line

Models	Gas	Injectors	Manifold Pressure (mbar)	Gas Consumption (m3/h)	Heat Input (kW)	Heat Output (kW)	Efficiency (%)
Wilderness Dark Brown Wilderness 7565 FR/RS/LS/TS Wilderness 75 H/HH FR/RS/LS/TS Wilderness 90H	NG	220-160-220 180	11.7	0.724	6.9	5.5	79.7
	LPG	60-60-60 80	13.6	0.227	7.4	5.9	79.8
Driftwood 45-3 Wilderness 7565 FR/RS/LS/TS Wilderness 75 H/HH FR/RS/LS/TS Wilderness 90H	NG	320-180-320 260	9.2	0.927	9.6	7.65	79.7
	LPG	80-60-80 90	12.2	0.308	8.1	6.51	80.4
Wilderness Driftwood 70-3 Wilderness 90H FR/RS/LS/TS/SC Wilderness 110 H/HH FR/RS/LS/TS/SA Wilderness 130 H/HH FR/RS/LS/TS Wilderness 150 H/HH FR/RS/LS/TS/SA/SC Wilderness 170 H/HH FR/RS/LS/TS Wilderness 200 H/HH FR/RS/LS/TS/TU Wilderness Traditional 90 Wilderness Traditional 110	NG	320-160-320 380	12.5	0.969	9.42	7.66	81.4
	LPG	90-60-90 180	11.7	0.282	9.2	7.38	80.2
Driftwood 100-3 Wilderness 110 H/HH FR/RS/LS/TS/TU/SA Wilderness 120 SC Wilderness 130 H/HH FR/RS/LS/TS/TU Wilderness 150 H/HH FR/RS/LS/TS/TU/SC/SA Wilderness 170 H/HH FR/RS/LS/TS/TU Wilderness 200 H/HH FR/RS/LS/TS/TU/SA Wilderness 250 H/HH FR/RS/LS/TS/TU	NG	650-180-500 500	12.5	1.477	15.2	11.89	78.2
	LPG	180-60-120 260	16.4	0.527	13.8	10.97	79.5
Driftwood 135-3 Wilderness 150 H/HH FR/RS/LS/TS/TU/SC/SA Wilderness 170 H/HH FR/RS/LS/TS/TU Wilderness 200 H/HH FR/RS/LS/TS/TU/SC Wilderness 250 H/HH FR/RS/LS/TS/TU	NG	1200-380-800 650	12.6	1.775	18.3	15.06	82.3
	LPG	260-80-180 320	12.3	0.564	14.8	11.69	79.0
Driftwood 135-5 Wilderness 150 H/HH FR/RS/LS/TS/TU/SC/SA Wilderness 170 H/HH FR/RS/LS/TS/TU Wilderness 200 H/HH FR/RS/LS/TS/TU/SC Wilderness 250 H/HH FR/RS/LS/TS/TU	NG	800-320-320-320-650 650	13.0	1.777	18.3	14.4	78.7
	LPG	260-60-60-60-180 320	12.3	0.624	16.4	12.81	78.1
Driftwood 180-5 Wilderness 200 H/HH FR/RS/LS/TS/TU/SC/SA Wilderness 250 H/HH FR/RS/LS/TS/TU/SC/SA	NG	650-260-260-260-500 1200	6.0	1.913	19.8	15.8	79.8
	LPG	180-60-60-60-120 380	15.1	0.767	20.1	15.96	79.4
Driftwood 220-5 Wilderness 200 H/HH FR/RS/LS/TS/TU/SC/SA Wilderness 250 H/HH FR/RS/LS/TS/TU/SC/SA	NG	800-320-320-320-650 1200	8.0	2.272	24.0	18.94	78.9
	LPG	180-60-60-60-120 500	15.0	0.816	21.4	16.73	78.2

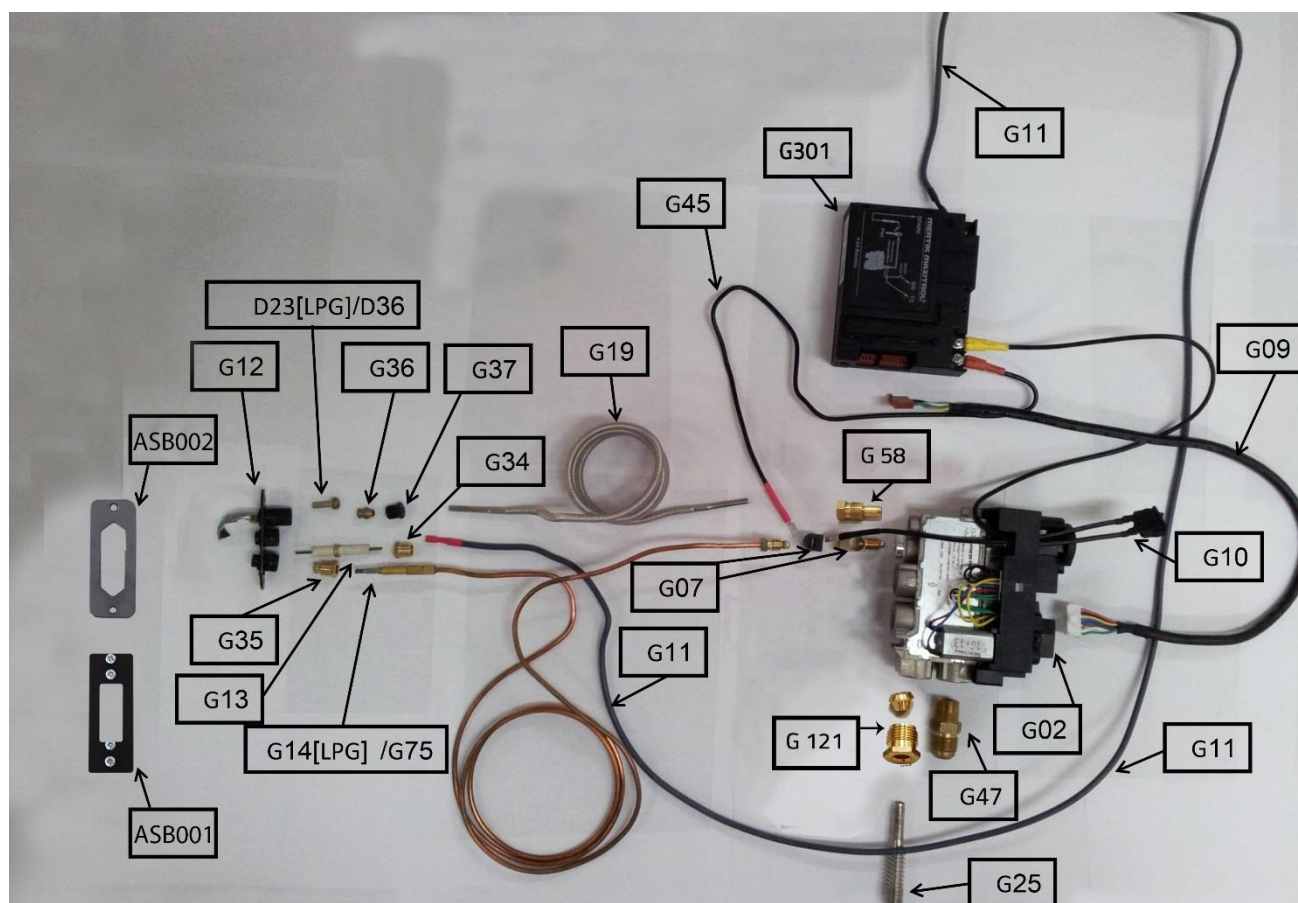


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Gas Control Assemblies and Components

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



CAT. NR.	DESCRIPTION
D23	Propane pilot orifice
D36	Natural gas pilot orifice
G02	Mertik gas valve
G301	Mertik receiver
G07	Thermocouple block
G09	8-wire cable 500 mm
G10	Switch w cables 180/500 mm
G11	Spark wire
G12	Pilot
G13	Spark plug
G75	Thermocouple NG
G14	Thermocouple LPG

CAT. NR.	DESCRIPTION
G121	Main burner gas fitting
G25	Burner gas tube
G19	Pilot gas tube
G34	Spark plug connector
G35	TC connector
G36	Olive D.4
G37	Nut for olive D.4
ASB001	Bracket for Pilot Gasket
ASB002	Pilot Gasket
G45	Cable
G58	Connection fitting 4mm One-piece
G47	Fitting for main line inlet to gas valve GV60



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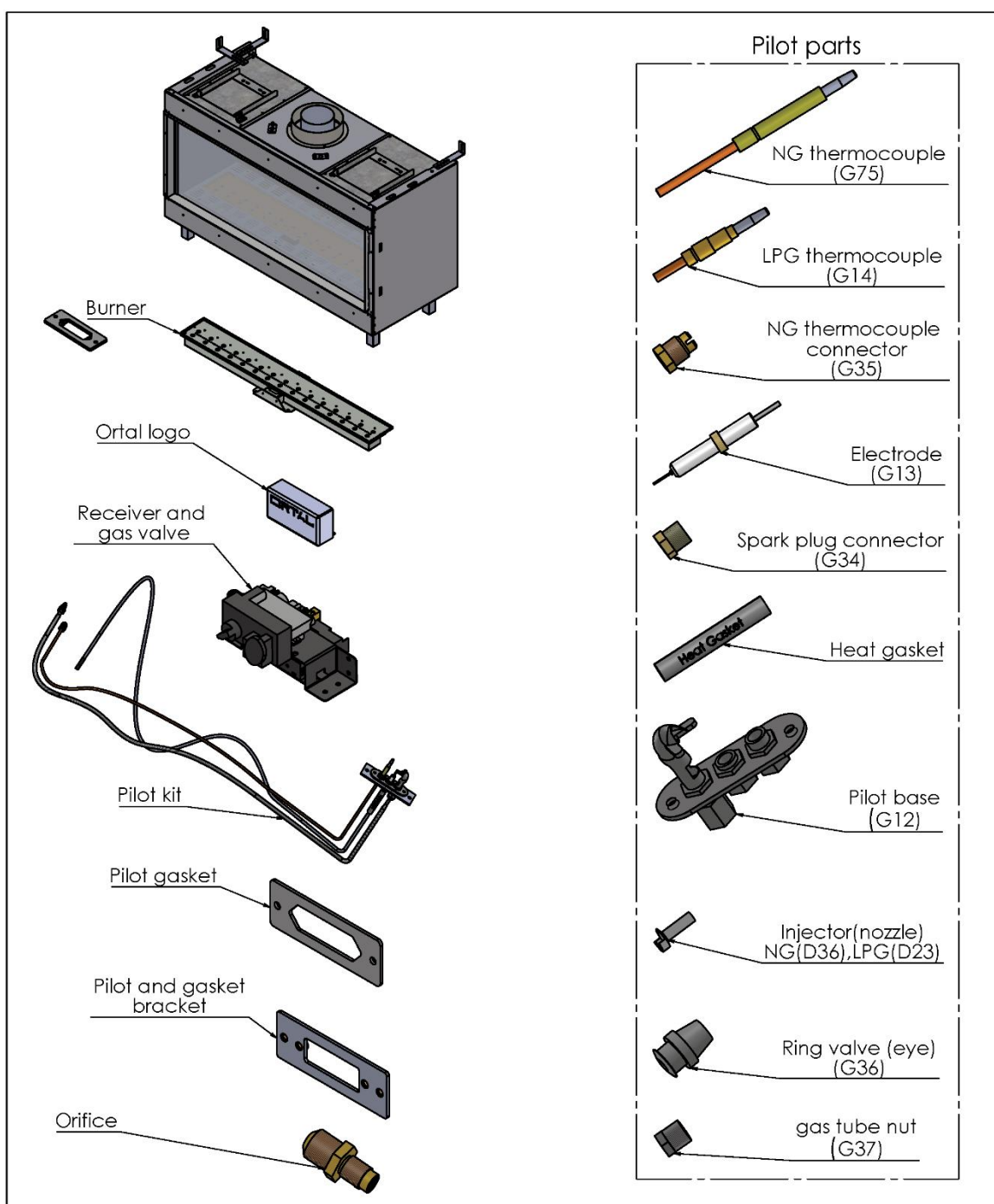
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Gas Conversion

To change the gas source of a fireplace, a gas conversion kit is required. Gas conversion can be performed only by technicians who have specific authorization to change these components. The actual change must be done by the authorized technician. Not all installers are authorized to provide gas conversion services.

The following procedure is a guide for NG-LPG conversion both for The Flame and Wilderness lines. For additional information specific for the Wilderness line (replacement of orifices and gas components), refer to Wilderness appliance installation manual.

NG - LPG Conversion Guide



Warning : Before starting this procedure, make sure to disconnect the main gas and high voltage power supply to the unit .

1. Remove the front heat barrier and glass.

See the heat barrier and glass removal guide for more details.

2. Remove the burner.

See the burner removal guide for more details.

3. Removing the pilot kit :

3a. Remove pilot screws as shown in figure (1) .

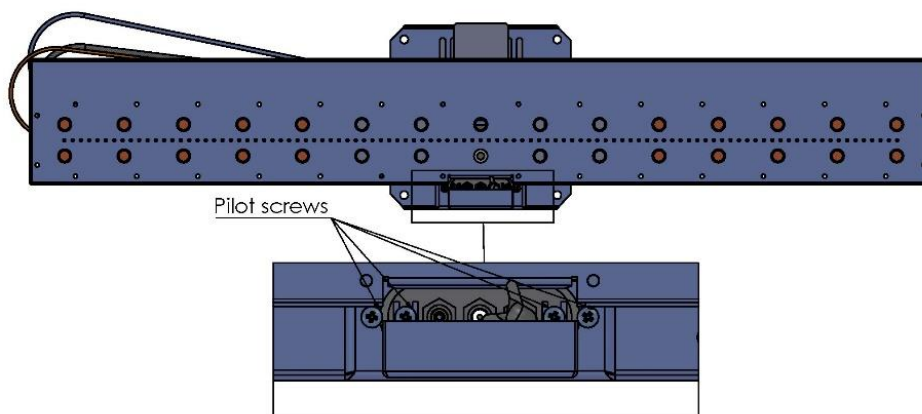


Figure (1)

3b. Pull the pilot down until it is released from the burner .

3c. Pull the receiver and the gas valve out ,
(as shown in figure (2)) .

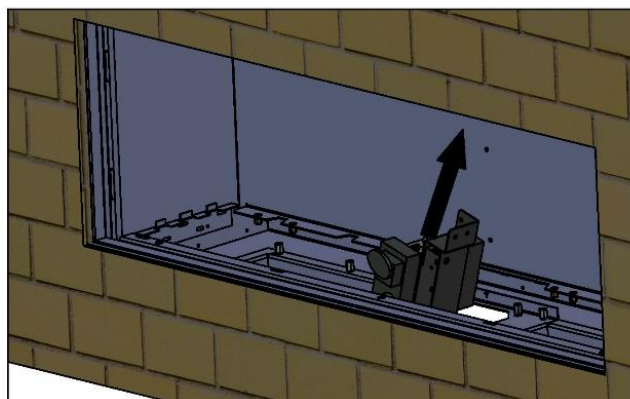


Figure (2)

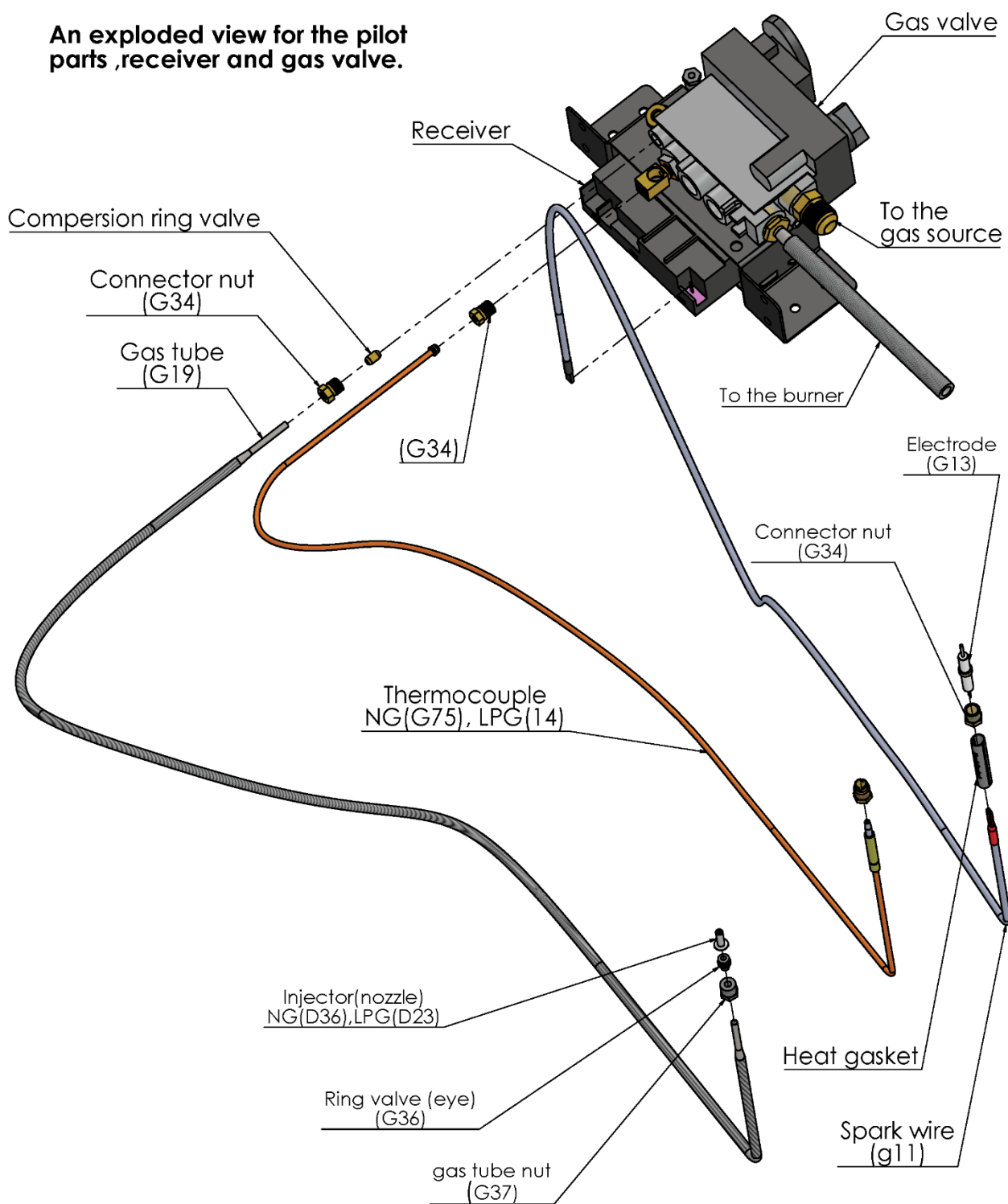
Note : See the exploded view in the next page to have a background about the next steps.



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An exploded view for the pilot parts ,receiver and gas valve.





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- 3d. Pull the wire to disconnect it from the receiver , (as shown in figure (3)).

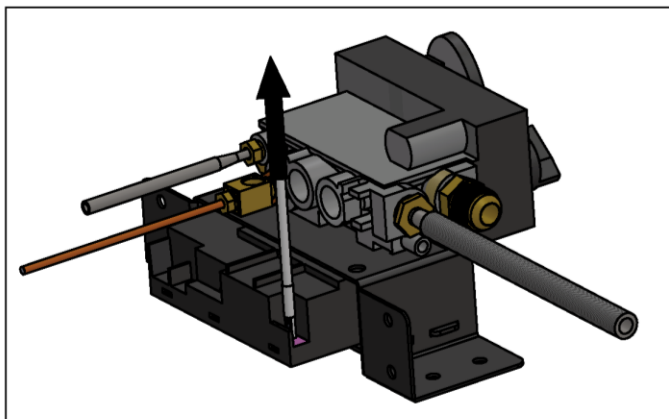


Figure (3)

- 3e. Remove the nut which is holding the thermocouple pipe, and pull the pipe out, (as shown in figure (4)).

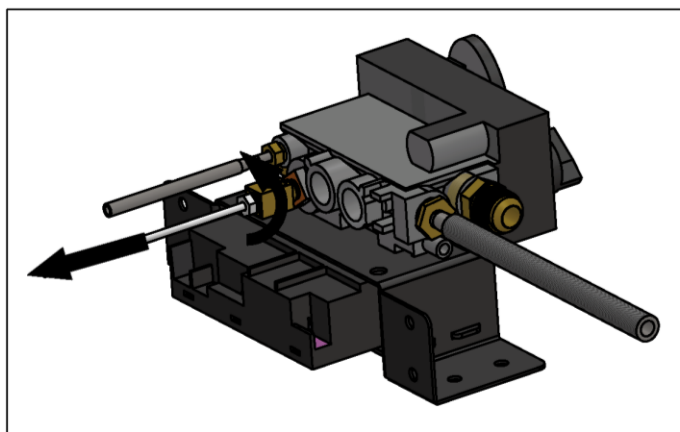


Figure (4)

- 3f. Remove the nut which is holding the gas pipe , and pull the pipe out , (as shown in figure (5)).

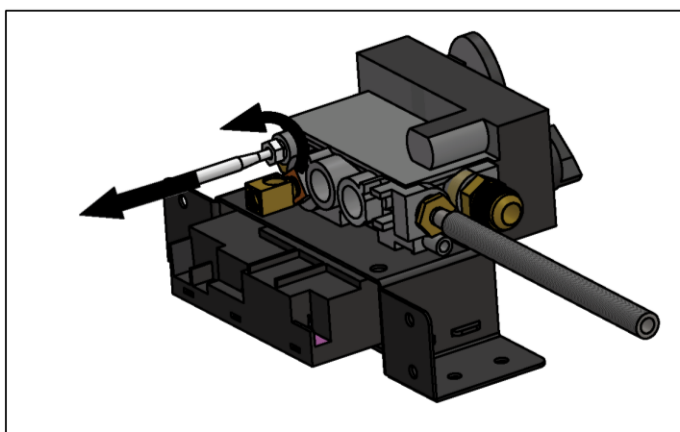


Figure (5)



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Note: step (4) explains how to assemble the pilot kit ,
so if you have a full new kit ignore it and move
to step (5) .

4. Assembling the pilot parts :

4a. Assemble the Injector (Nozzle) with the
ring valve (Eye) and the gas tube nut
(as shown in figure (6)).

4b. Attach the parts in figure (6) to
the pilot base then tight the nut
as shown in figure (7) .

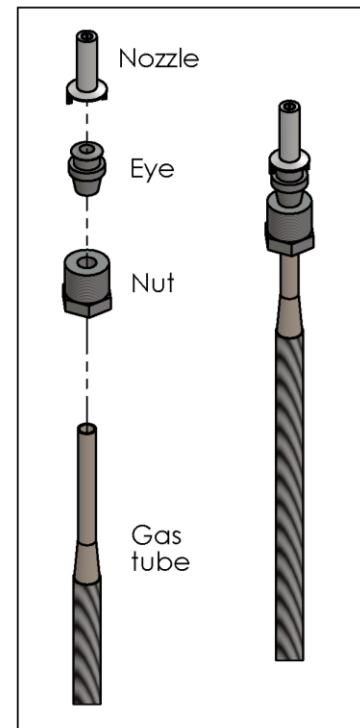


Figure (6)

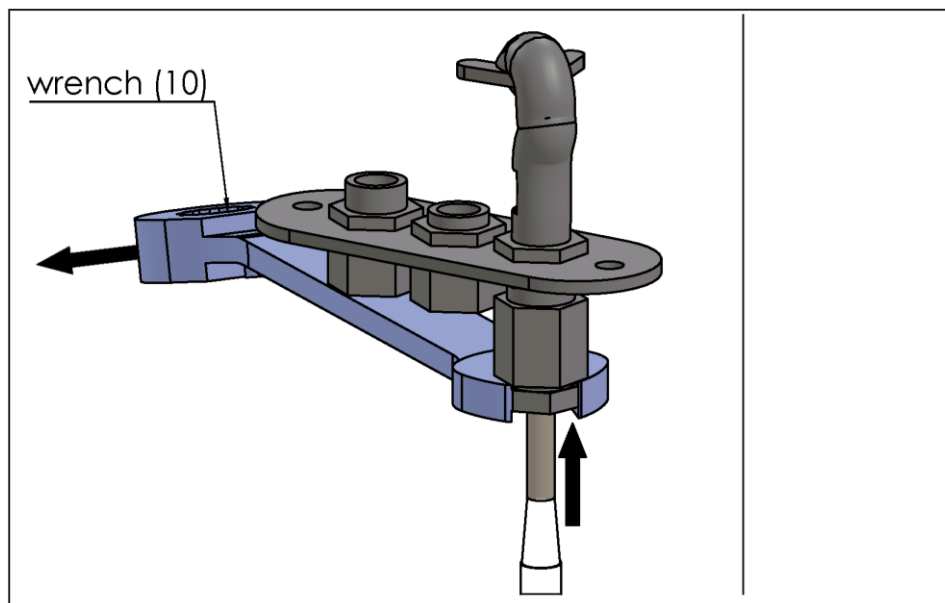


Figure (7)



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Notice : The LPG nozzle contains a red dot in the hole (.36 mm) ,the NG hole is (.23 mm) and a different shape , (see figure (8)) .

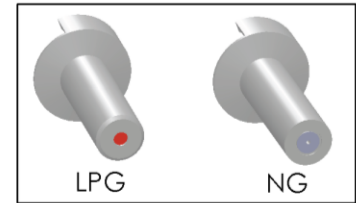


Figure (8)

4c. Assemble the Electrode with the spark plug connector and Heat gasket with the wire, (as shown in figure (9)).

4d. Use lighter to Dissolve the Heat gasket to reinforce the parts .

4e. Attach the parts in figure (9) to the pilot base then tight the connector nut , (as shown in figure (10)) .

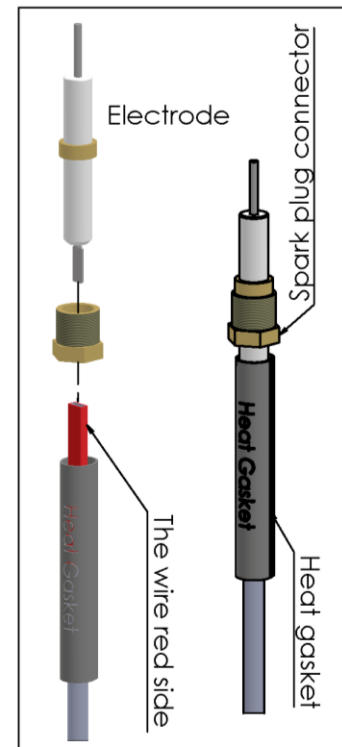


Figure (9)

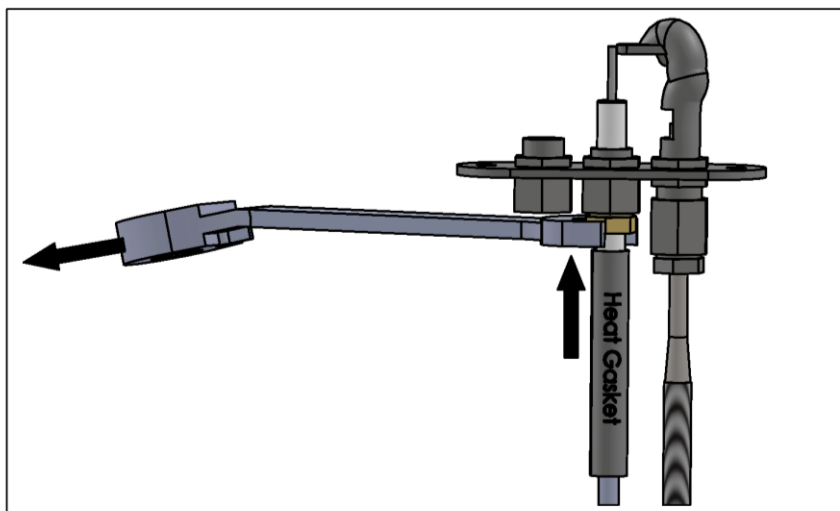


Figure (10)



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- 4e. Assemble the thermocouple pipe, notice that in the NG case , the pipe contains just one connector nut, so you have to insert the second, (as shown in figure (11)) .

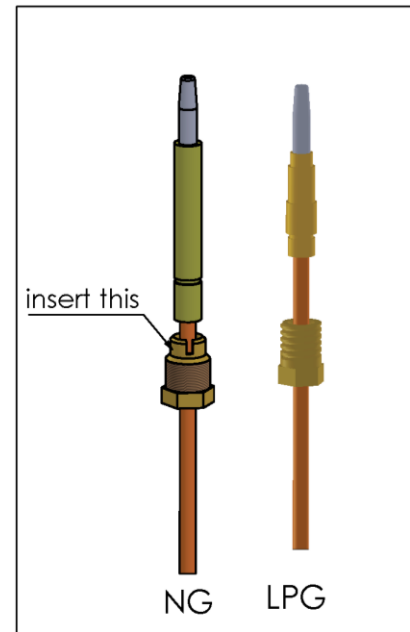


Figure (11)

- 4f. Attach the thermocouple pipe to the pilot base then tight the connector nut (as shown in figure (12)) .

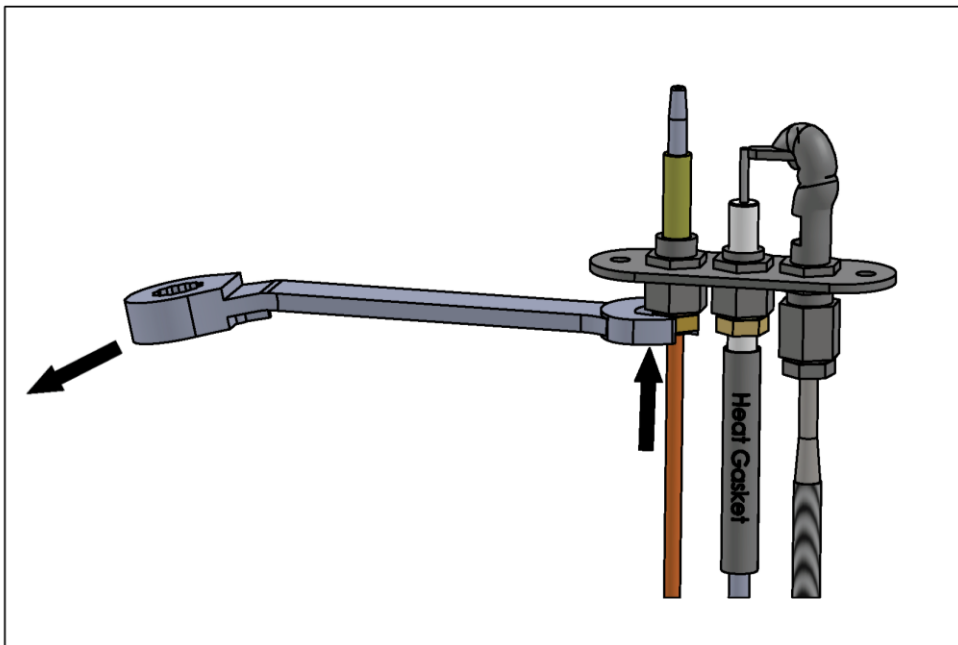


Figure (12)



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- 5 . Change the base pilot gasket every time you open the pilot base .(See figure (13)).

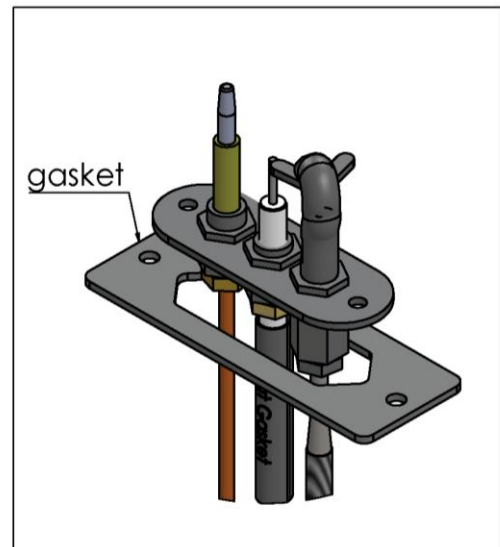


Figure (13)

6. To change the orifice Use wrench (15) to take out the orifice from the burner as shown if figure (14) .

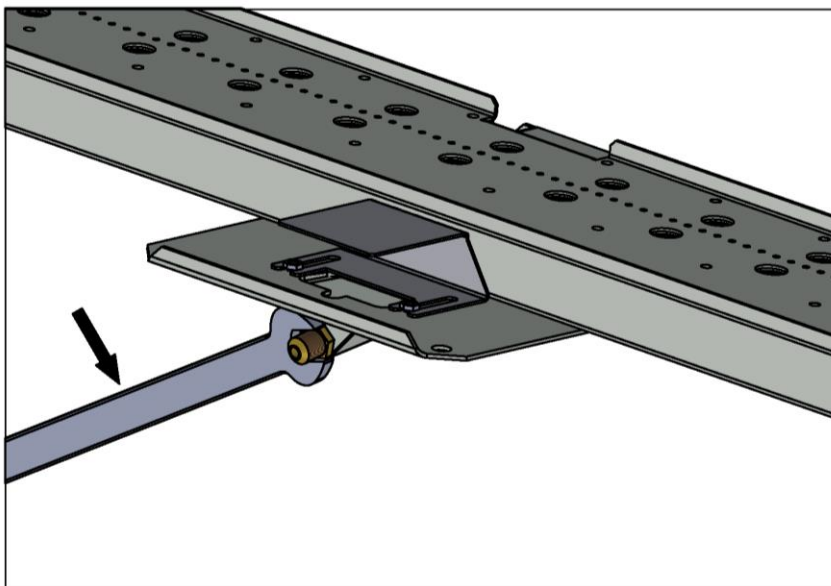


Figure (14)



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7. Burner venturi adjustment :

7a. Loosen the venturi nuts ,
(as shown in figure (15)) .

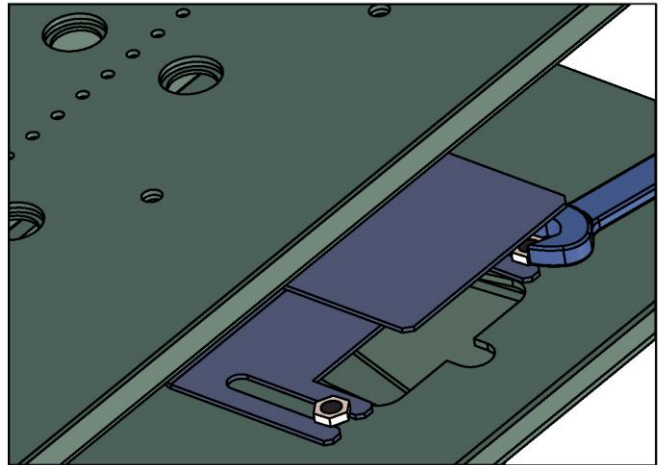


Figure (15)

7b. Adjust the venturi as
shown in figure (16) ,
then tight the nuts .

Note: For burners B70, remove the venturi from the burner.

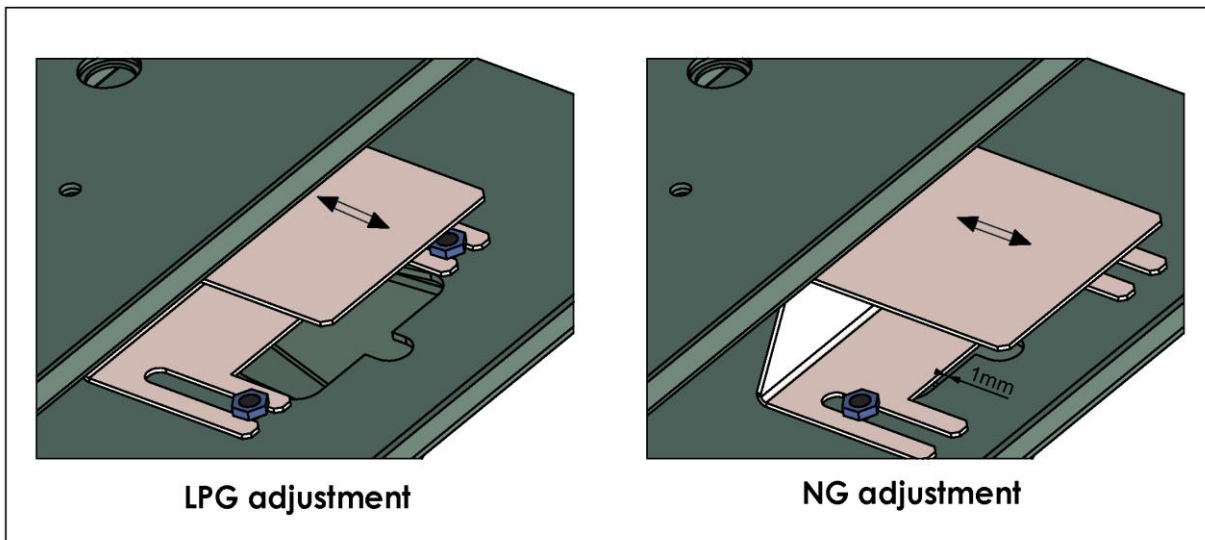


Figure (16)

To reinstall reverse the above procedure .



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Burner Inspection

The burner comes complete with all necessary parts assembled, including the main aeration, nozzle, pilot, thermocouple and spark plug. The parts are pre-set for the specific gas type (natural/propane), and no field adjustments are necessary.

During installation, the burner and its accessories must be inspected for cleanliness and completeness. Do **NOT** disassemble the components.

Burner Maintenance

Remove the media and vacuum all debris from the firebox, burner and grill area at least once a year (quarterly for commercial installations).

A visual check should be done when operating the flame from the burner. The appearance should be candle-like with blue and yellow coloring.

Pilot and Thermocouple Maintenance

The pilot flame must be visually checked. The pilot flame has two distinct flames. One engulfs the thermocouple, and the other reaches the main burner. Both flames must be present.

The area around the injector should be inspected. Any foreign material must be removed with a brush or vacuum.



Figure 5: Thermocouple Injector

 **Always be present when the fireplace is in operation.**

Thermocouple Maintenance

Thermocouple integrity and operation must be checked. The installer needs to confirm that the thermocouple is in place and that it is not cracked or damaged.



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Electrical Guidelines

This chapter details electrical and wiring requirements for installation of The Flame fireplaces.

Electrical Requirements

Provide a single gang (two outlet) box with 230v 50Hz, in the area where the controls will be located. This work should be done by a qualified licensed electrician, per local code.

⚠ WARNING: Be sure to disconnect the power supply before servicing any electrical components.

Wiring Diagrams

The following diagrams show the electrical wiring required for different combinations of options.

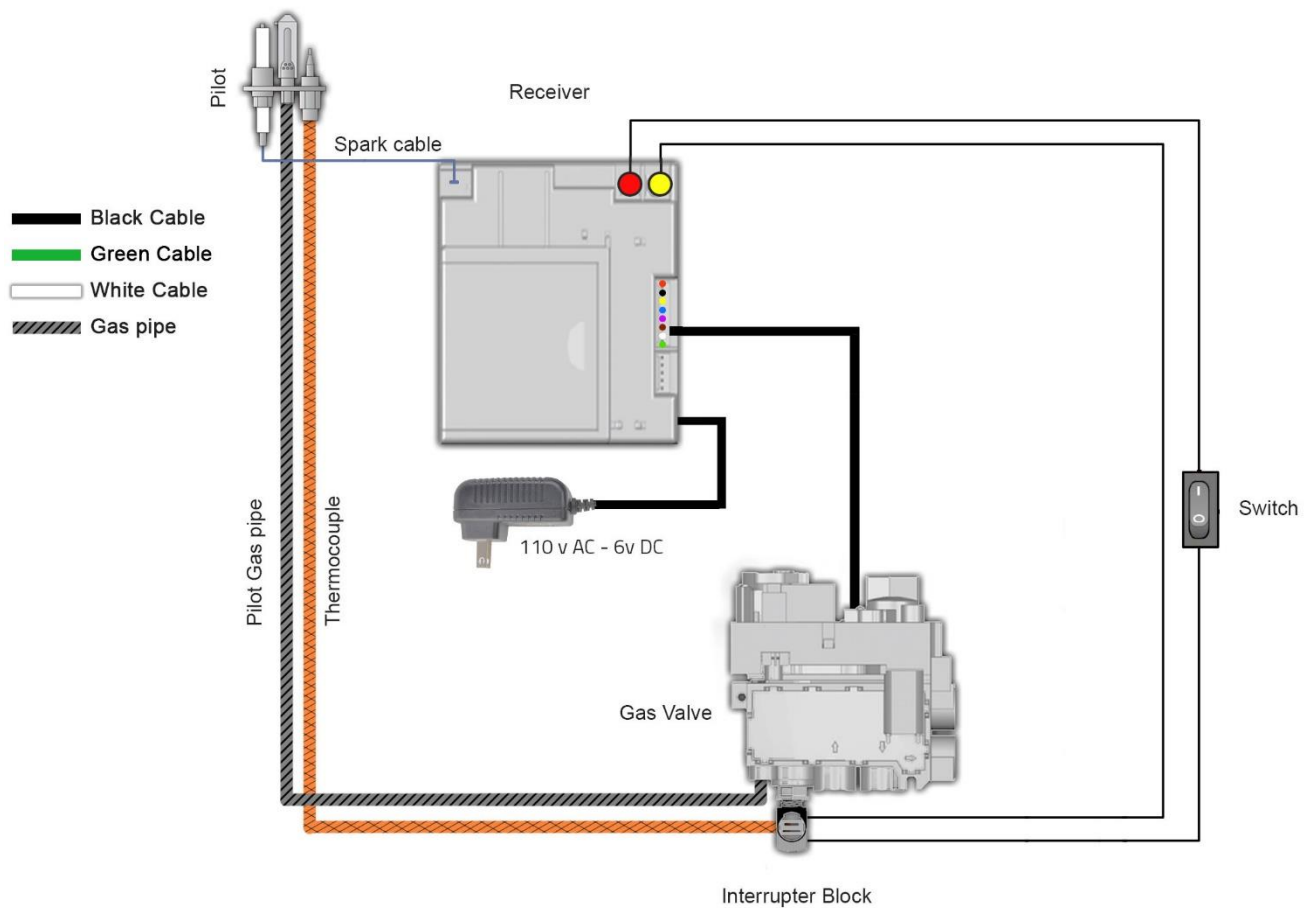


Figure 6: Basic wiring



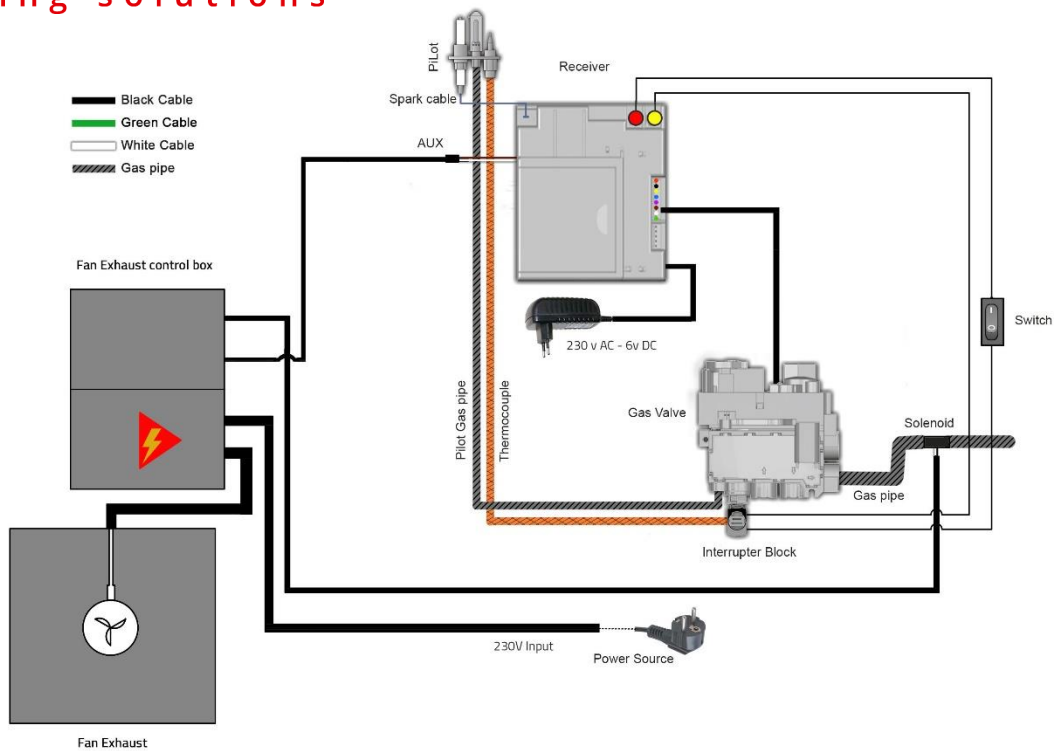


Figure 8: Units with Fan Exhaust

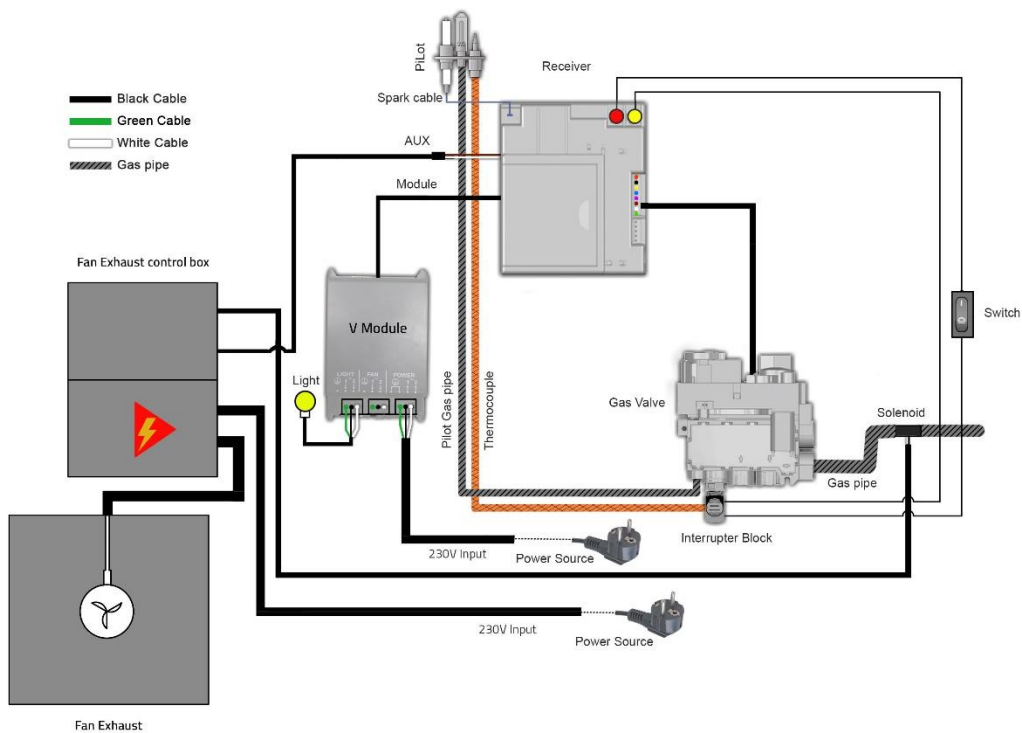


Figure 9: Units with Light and Fan Exhaust

Electrical Wiring: Double Glass Options

Double Glass

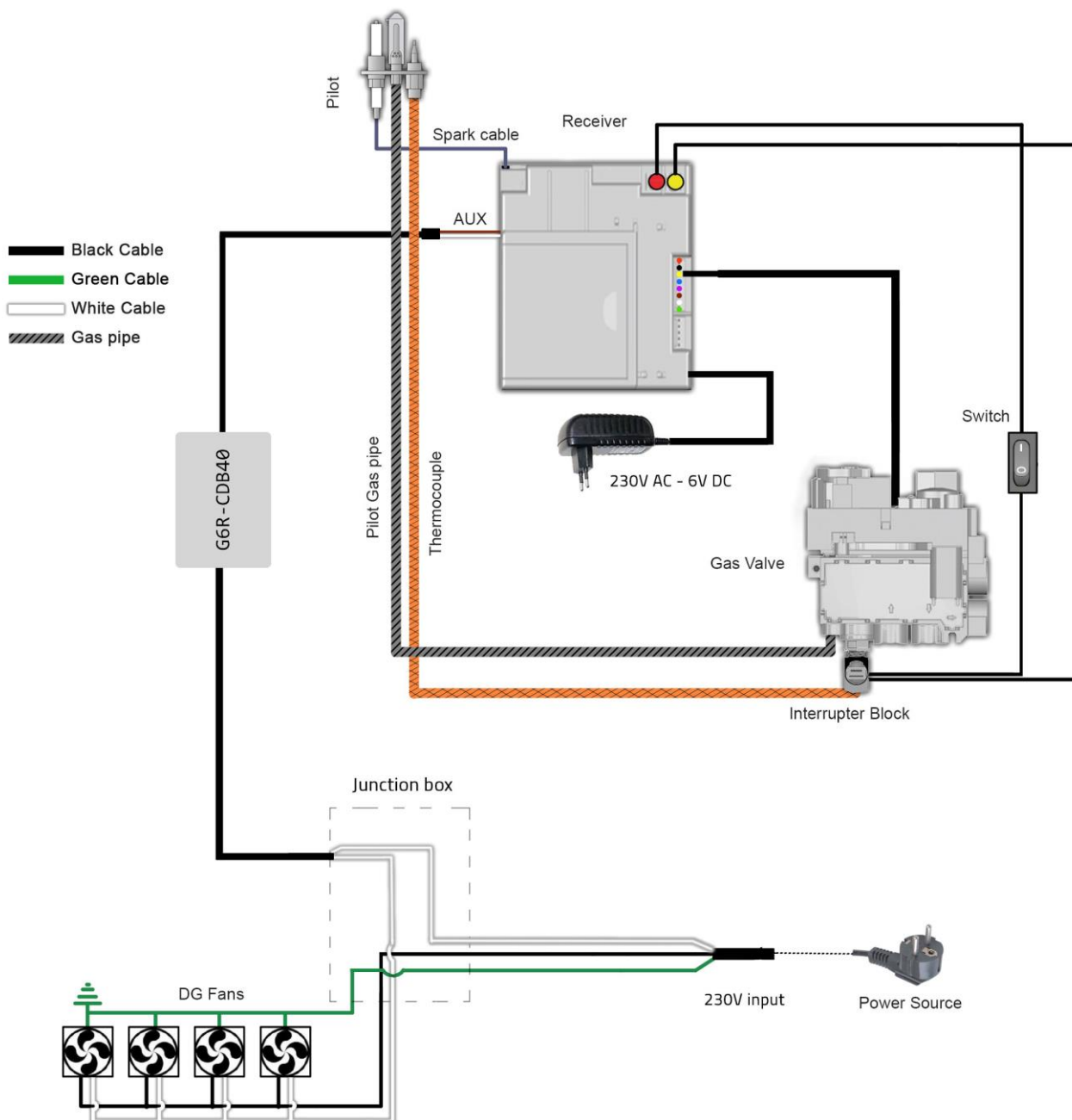


Figure 10: Electrical Wiring: Double Glass Units

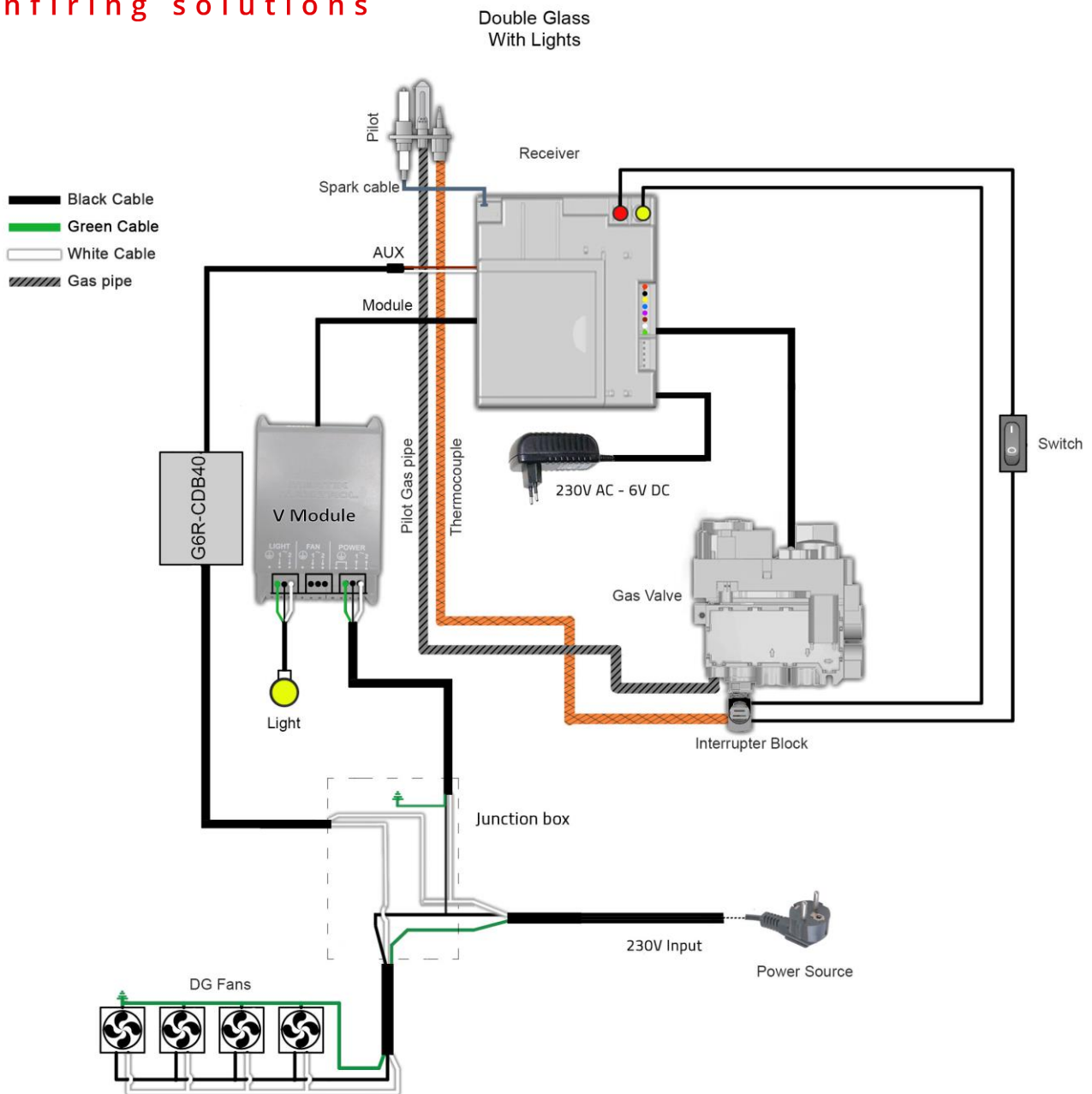


Figure 11: Electrical Wiring: Double Glass Units with Lights

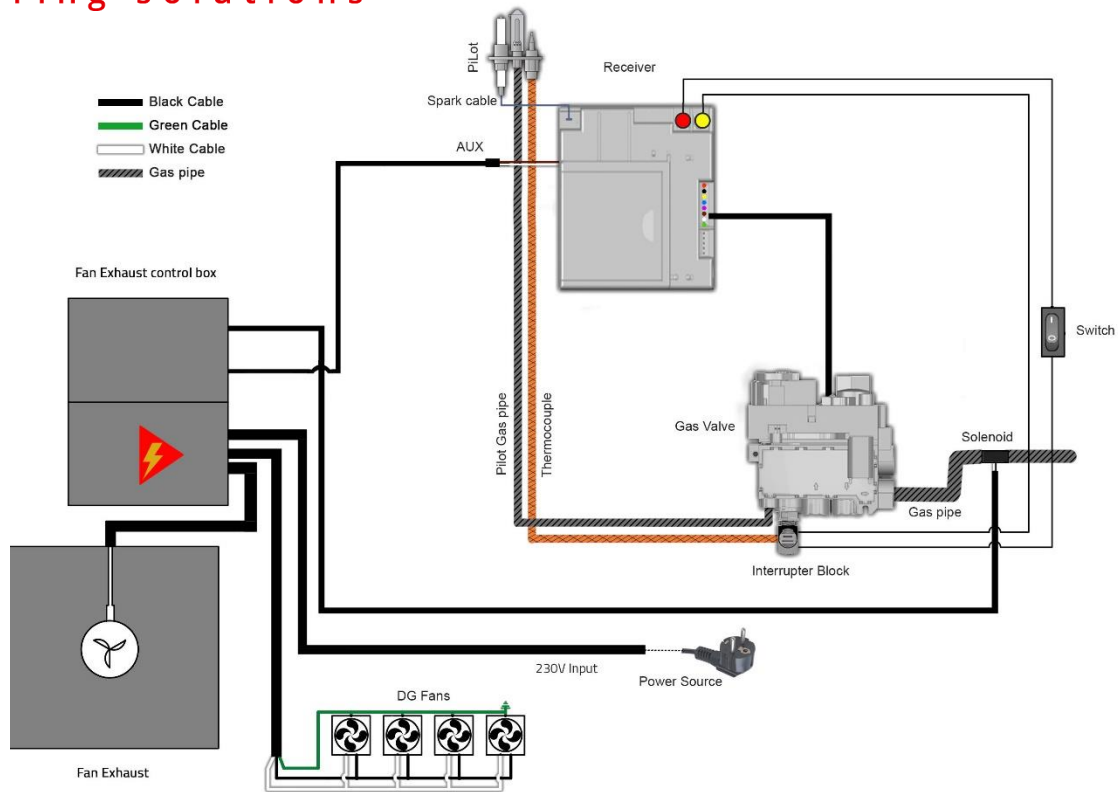


Figure 12: Electrical Wiring: Double Glass Units with Fan Exhaust

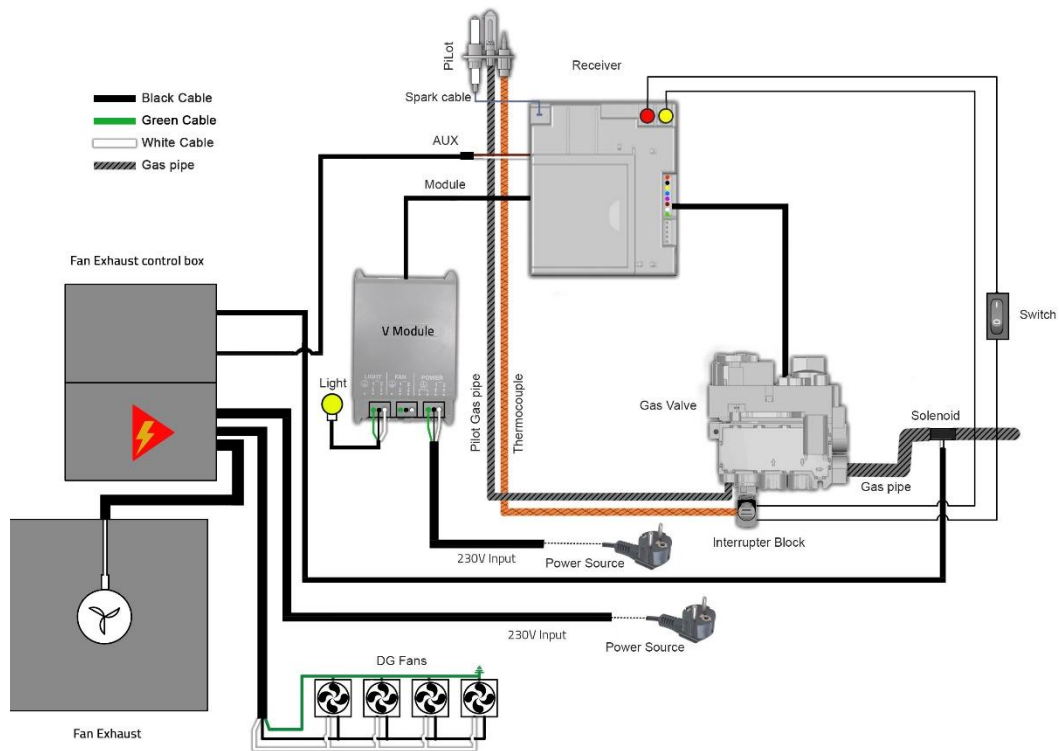


Figure 13: Electrical Wiring: Double Glass Units with Lights and Fan Exhaust



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Vent System Information

The following sections provide details related to vent installation and care:

- Venting Requirements on page 51
- Working with Vertical Elbows on page 59
- Fireplace Restrictors and Vent Arrangement on page 61
- Vent Installation and Clearances on page 56
- Flue Termination on page 59
- Vent Maintenance on page 59



NOTE: For information about the 100/150 and 130/200 direct vent pipe installation and specs, please visit the appropriate manufacturer's website.



NOTE: If the appliance has a Fan Exhaust system, please refer to the The Flame Fan Exhaust manual for more information.




NOTE: Do NOT combine vent components from different manufacturers with these appliances. Please follow the manufacturer's instructions for vent system installation.

Venting Requirements

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

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, **1 meter** 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
 - **Exceeding two 90° Elbows:** For more than two 90° elbows, the minimum total vertical rise is **2 meters** for 90-250 models. This does not apply to 40-75 models.
 - **Flat 90° Elbows:** For every flat 90° elbow (a 90° elbow that stays in the horizontal plane), **2 meters** must be reduced from the total allowable horizontal run. Up to two flat elbows are allowed.
 - Example: If max allowable horizontal run is 8 meters and 1 flat elbow is added, max run is reduced to 6 meters.
 - **3rd 90° Elbow in the Vertical Plane:** The 3rd elbow in the vertical plane reduces **1 meter** from total allowable horizontal run. Do not include flat elbows when determining which 90° elbow in your configuration is 3rd in the vertical plane.
-  **Exception:** If the 3rd 90° elbow in the vertical plane turns the vent direction from horizontal to vertical, the total allowable horizontal run does not require a 1-meter reduction.



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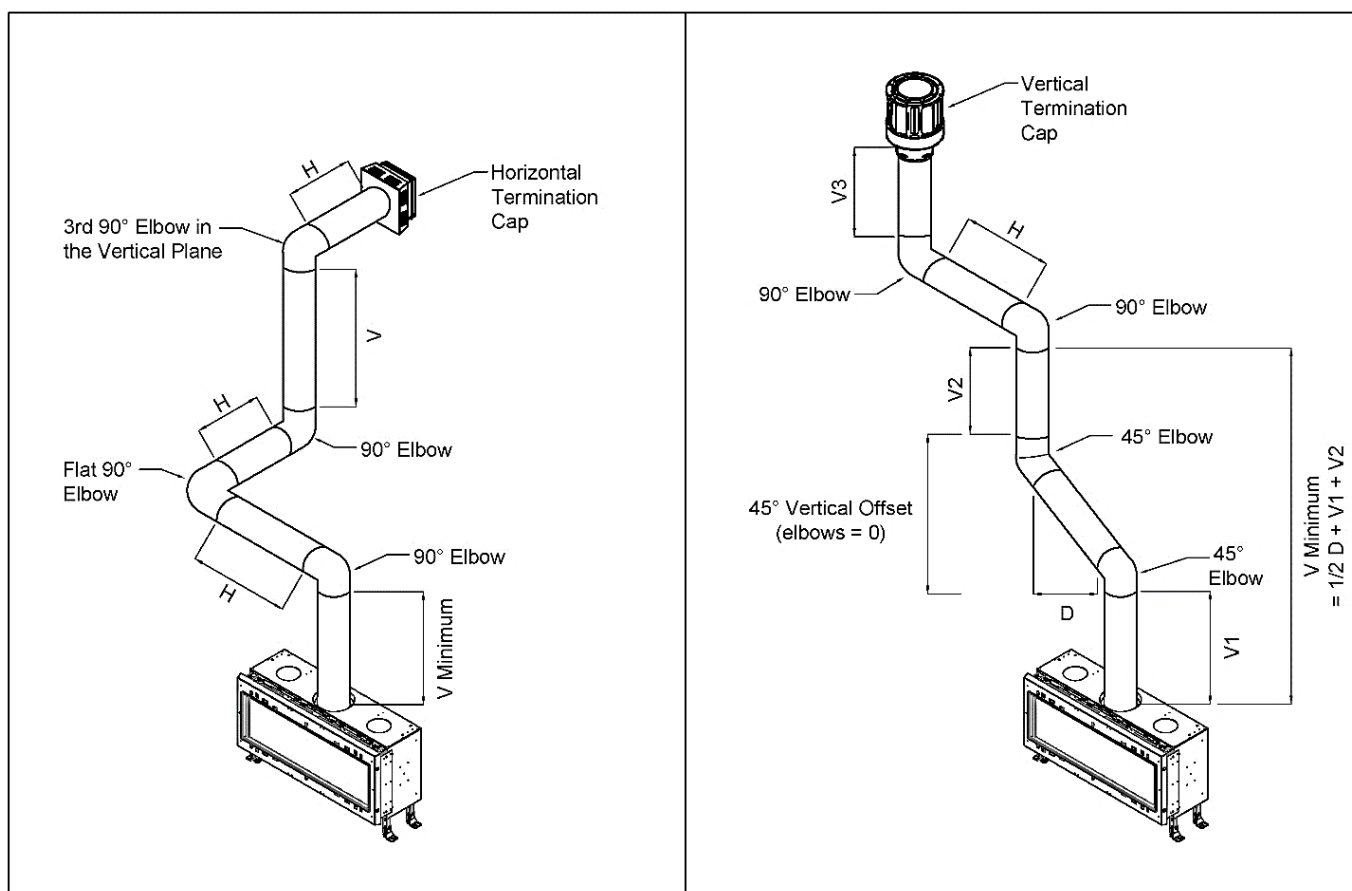
Diagonal Runs

- **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: 2 meters diagonal run = 1 meter vertical rise & 1 meter 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 The Flame's review and approval.



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



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Allowable Maximum Horizontal Runs

Series 40-75		Series 90		Series 110-130	
Burner B30-45 & Traditional		Burner B70		Burner B100	
V minimum = 0 m		V minimum = 1 m		V minimum = 1 m	
Vertical (V)	Max Horizontal (H)	Vertical (V)	Max Horizontal (H)	Vertical (V)	Max Horizontal (H)
0 m	2 m	N/A	N/A	N/A	N/A
0.5 m	4 m	N/A	N/A	N/A	N/A
1 m	9 m	1 m	8 m	1 m	8 m
2 m	11 m	2 m	11 m	2 m	11 m
3 m	11 m	3 m	11 m	3 m	11 m
4 m	11 m	4 m	11 m	4 m	11 m
5 m	9 m	5 m	9 m	5 m	11 m
6 m	9 m	6 m	9 m	6 m	11 m
7 m	8 m	7 m	8 m	7 m	11 m
8 m	7 m	8 m	7 m	8 m	11 m
9 m	6 m	9 m	6 m	9 m	11 m
10 m	6 m	10 m	6 m	10 m	11 m
11 m	4 m	11 m	0 m	11 m	11 m
12 m	0 m	12 m	0 m	12 m	6 m
13 m	0 m	13 m	0 m	13 m	0 m
14 m	0 m	14 m	0 m	14 m	0 m
15 m	0 m	15 m	0 m	15 m	0 m

Series 150-170		Series 200		Series 250	
Burner B135		Burner B160		Burner B180	
V minimum = 1 m		V minimum = 2 m		V minimum = 2 m	
Vertical (V)	Max Horizontal (H)	Vertical (V)	Max Horizontal (H)	Vertical (V)	Max Horizontal (H)
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
1 m	8 m	N/A	N/A	N/A	N/A
2 m	12 m	2 m	6 m	2 m	1 m
3 m	12 m	3 m	6 m	3 m	2 m
4 m	12 m	4 m	6 m	4 m	3 m
5 m	12 m	5 m	6 m	5 m	3 m
6 m	12 m	6 m	6 m	6 m	3 m
7 m	12 m	7 m	6 m	7 m	2 m
8 m	12 m	8 m	6 m	8 m	2 m
9 m	12 m	9 m	6 m	9 m	2 m
10 m	11 m	10 m	6 m	10 m	1 m
11 m	11 m	11 m	6 m	11 m	0 m
12 m	6 m	12 m	0 m	12 m	0 m
13 m	0 m	13 m	0 m	13 m	0 m
14 m	0 m	14 m	0 m	14 m	0 m
15 m	0 m	15 m	0 m	15 m	0 m



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Examples using a 110 Front

<p> $V = V1 + V2 + V3$ $H = H1 + H2 + 3 \text{rd } 90^\circ \text{ elbow}$ $V = 90\text{cm} + 120\text{cm} + 60\text{cm} = 270\text{cm}$ $H = 150\text{cm} + 120\text{cm} + 90\text{cm} = 360\text{cm}$ </p>	<p> $V = V1 + V2$ $H = H1 + H2 + 180\text{cm (for flat elbow)}$ $V = 90\text{cm} + 90\text{cm} = 180\text{cm}$ $H = 150\text{cm} + 60\text{cm} + 180\text{cm} = 390\text{cm}$ </p>
<p> $V = (\frac{1}{2} D1) + V2 + (\frac{1}{2} D2)$ $H = (\frac{1}{2} D1) + H2 + (\frac{1}{2} D2) + 3\text{ft (for horizontal offset)} + H4$ $V = 60\text{cm} + 60\text{cm} + 90\text{cm} = 210\text{cm}$ $H = 60\text{cm} + 60\text{cm} + 90\text{cm} + 90\text{cm} + 150\text{cm} = 450\text{cm}$ </p>	<p> $V = V1$ $H = H1$ $V = 180\text{cm}$ $H = 90\text{cm}$ </p>



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Restrictor Tables

V (m)	Values in mm												
15	0	X	X	X	X	X	X	X	X	X	X	X	
14	0	X	X	X	X	X	X	X	X	X	X	X	
13	0	X	X	X	X	X	X	X	X	X	X	X	
12	0	X	X	X	X	X	X	X	X	X	X	X	
11	50	50	30	0	0	X	X	X	X	X	X	X	
10	50	50	30	30	30	0	0	X	X	X	X	X	
9	50	50	30	30	30	0	0	X	X	X	X	X	
8	50	50	50	30	30	30	0	0	X	X	X	X	
7	50	50	50	50	30	30	30	0	0	X	X	X	
6	50	50	50	50	30	30	30	30	0	0	X	X	
5	50	50	50	50	30	30	30	30	30	0	X	X	
4	50	50	50	50	30	30	30	30	30	0	0	0	
3	50	50	50	50	30	30	30	30	30	0	0	0	
2	50	50	50	50	30	30	30	30	30	0	0	0	
1	50	50	50	50	30	30	30	30	0	0	X	X	
0.5	0	0	0	0	0	X	X	X	X	X	X	X	
0	0	0	0	X	X	X	X	X	X	X	X	X	
	0	1	2	3	4	5	6	7	8	9	10	11	H (m)

Table 6: Restrictor Table: Burner 30-45 – Series 40/60/75/80

V (m)	Values in mm												
15	0	X	X	X	X	X	X	X	X	X	X	X	
14	0	X	X	X	X	X	X	X	X	X	X	X	
13	0	X	X	X	X	X	X	X	X	X	X	X	
12	0	X	X	X	X	X	X	X	X	X	X	X	
11	0	X	X	X	X	X	X	X	X	X	X	X	
10	70	85	70	70	50	30	0	X	X	X	X	X	
9	70	85	70	70	50	30	0	X	X	X	X	X	
8	70	85	70	70	50	50	30	0	X	X	X	X	
7	70	85	70	70	70	50	50	30	0	X	X	X	
6	70	85	70	70	70	50	50	50	30	0	X	X	
5	85	85	70	70	70	50	50	50	30	0	X	X	
4	85	85	70	70	70	50	50	50	30	30	0	0	
3	85	85	70	70	70	50	50	50	30	30	0	0	
2	85	70	70	70	50	50	50	30	30	30	0	0	
1	70	70	70	50	50	50	30	30	0	X	X	X	
	0	1	2	3	4	5	6	7	8	9	10	11	H (m)

Table 7: Restrictor Table: Burner 70 – Series 90



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V (m)	Values in mm													
15	0	X	X	X	X	X	X	X	X	X	X	X	X	
14	0	X	X	X	X	X	X	X	X	X	X	X	X	
13	0	X	X	X	X	X	X	X	X	X	X	X	X	
12	70	50	50	50	30	30	0	X	X	X	X	X	X	
11	70	50	50	50	30	30	30	0	0	0	0	0	X	
10	70	50	50	50	30	30	30	0	0	0	0	0	X	
9	70	50	50	50	30	30	30	30	0	0	0	0	X	
8	70	50	50	50	30	30	30	30	0	0	0	0	X	
7	70	50	50	50	30	30	30	30	0	0	0	0	X	
6	70	50	50	50	30	30	30	30	0	0	0	0	X	
5	70	50	50	50	30	30	30	30	0	0	0	0	X	
4	70	50	50	50	30	30	30	30	0	0	0	0	X	
3	70	50	50	50	30	30	30	30	0	0	0	0	X	
2	70	50	50	30	30	30	30	0	0	0	0	0	X	
1	50	50	50	30	30	30	0	0	0	X	X	X	X	
	0	1	2	3	4	5	6	7	8	9	10	11	12	H (m)

Table 8: Restrictor Table: Burner 100 – Series 110/120/130/140

V (m)	Values in mm													
15	0	X	X	X	X	X	X	X	X	X	X	X	X	
14	0	X	X	X	X	X	X	X	X	X	X	X	X	
13	0	X	X	X	X	X	X	X	X	X	X	X	X	
12	70	50	50	50	30	30	0	X	X	X	X	X	X	
11	70	50	50	50	30	30	30	0	0	0	0	0	X	
10	70	50	50	50	30	30	30	0	0	0	0	0	X	
9	70	50	50	50	30	30	30	30	0	0	0	0	0	
8	70	50	50	50	30	30	30	30	0	0	0	0	0	
7	70	50	50	50	30	30	30	30	0	0	0	0	0	
6	70	50	50	50	30	30	30	30	0	0	0	0	0	
5	70	50	50	50	30	30	30	30	0	0	0	0	0	
4	70	50	50	50	30	30	30	30	0	0	0	0	0	
3	70	50	50	50	30	30	30	30	0	0	0	0	0	
2	70	50	50	30	30	30	30	0	0	0	0	0	0	
1	50	50	50	30	30	30	0	0	0	X	X	X	X	
	0	1	2	3	4	5	6	7	8	9	10	11	12	H (m)

Table 9: Restrictor Table: Burner 135 – Series 150/170



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V (m)	Values in mm												
15	0	X	X	X	X	X	X	X	X	X	X	X	
14	0	X	X	X	X	X	X	X	X	X	X	X	
13	0	X	X	X	X	X	X	X	X	X	X	X	
12	0	X	X	X	X	X	X	X	X	X	X	X	
11	0	X	X	X	X	X	X	X	X	X	X	X	
10	50	30	30	0	0	0	0	X	X	X	X	X	
9	50	30	30	0	0	0	0	X	X	X	X	X	
8	50	50	30	30	0	0	0	X	X	X	X	X	
7	50	50	30	30	0	0	0	X	X	X	X	X	
6	50	50	30	30	0	0	0	X	X	X	X	X	
5	50	50	30	30	0	0	0	X	X	X	X	X	
4	50	50	30	30	0	0	0	X	X	X	X	X	
3	50	50	30	30	0	0	0	X	X	X	X	X	
2	30	30	0	0	0	0	0	X	X	X	X	X	
	0	1	2	3	4	5	6	7	8	9	10	11	H (m)

Table 10: Restrictor Table: Burner 160 – Series 200-250

V (m)	Values in mm												
15	0	X	X	X	X	X	X	X	X	X	X	X	
14	0	X	X	X	X	X	X	X	X	X	X	X	
13	0	X	X	X	X	X	X	X	X	X	X	X	
12	0	X	X	X	X	X	X	X	X	X	X	X	
11	0	X	X	X	X	X	X	X	X	X	X	X	
10	0	0	X	X	X	X	X	X	X	X	X	X	
9	30	0	0	X	X	X	X	X	X	X	X	X	
8	30	0	0	X	X	X	X	X	X	X	X	X	
7	30	0	0	X	X	X	X	X	X	X	X	X	
6	30	30	0	0	X	X	X	X	X	X	X	X	
5	50	30	30	0	X	X	X	X	X	X	X	X	
4	30	30	0	0	X	X	X	X	X	X	X	X	
3	30	0	0	X	X	X	X	X	X	X	X	X	
2	0	0	X	X	X	X	X	X	X	X	X	X	
	0	1	2	3	4	5	6	7	8	9	10	11	H (m)

Table 11: Restrictor Table: Burner 180 – Series 200-250



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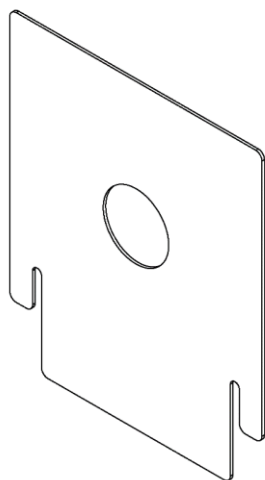


NOTE: Special restrictors must be used for Space Creator units, sizes 120, 150 and 200, installed with Fan Exhausts. (Supplied with all units)

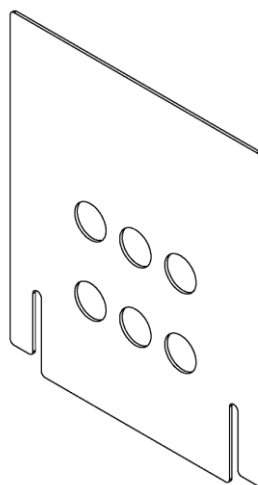
For flue runs 0 to 9 meters long, use restrictor MRS200RD01

For flue runs 9 to 18 meters long, use restrictor MRS200RD02

For flue runs 18 meters to max length, no need to use any restrictors



SKU: MRS200RD01



SKU: MRS200RD02

Vent Installation and Clearances



WARNING – Fire hazard is an extreme risk if these clearances (air space) to combustible materials are not adhered to. It is of the greatest importance that the fireplace and vent system are installed in accordance with these instructions.



NOTE: Do NOT combine vent components from different manufacturers with these appliances. Please follow the manufacturer's instructions for vent system installation.

While it is possible to install room-sealed appliances in timber frame properties, great care needs to be taken to ensure that the flue assembly does not interfere with the weather proofing qualities of any outer wall which it may penetrate. Before attempting this work, further details need to be referenced, (e.g., "Gas Installations in Timber Frame Buildings" from the CORGI installer series in the UK).

Appliance and Vent Clearances to Combustible Materials

The appliance is approved with maintained minimum clearance to combustible materials as shown in the diagrams provided.

Non-combustible materials, such as surrounds and other appliance trim, may be installed on the appliance face. However, they must not cover any portion of the removable glass panel or the control compartment.



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The minimum clearances (air space) to combustible materials must be adhered to. It is of the greatest importance that the fireplace and vent system be installed only in accordance with these instructions.

Vertical installation clearances to combustible mantels vary according to the depth of the mantel. Mantels constructed of non-combustible materials may be installed at any height above the appliance opening, but do not allow anything to hang below the fireplace hood.

The Flame recommends the use of high temperature paint (rated 79° C or higher) on the underside of the mantel.

Installing the Venting

When installing the venting, be sure that the vent pipe is supported by the structural surrounding and not by the firebox. Secure the vent connection to the fireplace with a minimum of 3 self-tapping screws. Each elbow should be strapped to reduce movement or possible disconnection. Follow the instructions of the vent system manufacturer.

Vertical Clearances:

- Maintain 2.5 cm clearance to combustibles on entire circumference.

Horizontal Clearances:

- Maintain 2.5 cm clearance to combustibles on bottom.
- Maintain 7.5 cm clearance to combustibles on top.
- Maintain 1 cm rise per each meter.

Flue Terminations

Flue terminals should be sited to ensure total clearance of the combustion products in accordance with the information provided in this section.

When the products of combustion are discharged, they should not cause discomfort to adjoining or adjacent properties and the terminal should be positioned to prevent damage to other parts of the building. If the outer wall surface is constructed of combustible material, a non-combustible plate should be fitted behind the terminal projecting 25mm beyond the external edges of the terminal.

- **Carport or building extension:** Where a flue terminal is sited within a carport or building extension, it should have at least two completely open and unobstructed sides. The distance between the lowest part of the roof and the top of the terminal should be at least 600mm.



NOTE: A covered passageway should not be treated as a carport. Flues should not be sited in a covered passageway between properties.

- **Basements, light wells and retaining walls:** Flue terminals should not be sited within the confines of a basement area, light well or external space formed by a retaining wall, unless steps are taken to ensure that the products of combustion can disperse safely at all times.

It may be possible to install this balanced flue system in such a location, provided that it is not sited lower than 1m from the top level of that area, to allow combustion products to disperse safely.



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Terminal Locations: Wall Mounting

The following diagram and table provide guidelines for wall mounting terminations.

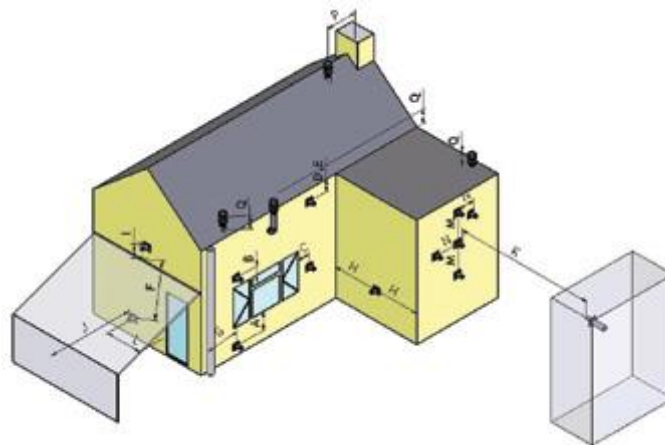


Figure 14: Vent Termination: Wall Mounting Dimensions

DIMENSION	TERMINAL POSITION	DISTANCE mm
A*	Directly below an opening, air brick, opening window, etc.	600
B	Above an opening, air brick, opening window, etc.	300
C	Adjacent to an opening, air brick, opening window, etc.	400
D	Below gutters, soil pipes or drain pipes	300
E	Below eaves	300
F	Below balconies of car port roof	600
G	From a vertical drain pipe or soil pipe	300
H	From an internal or external corner	600
I	Above ground roof or balcony level	300
J	From a surface facing the terminal	600
K	From a terminal facing the terminal	600
L	From an opening in the car port (e.g., door, window into the dwelling)	1200
M	Vertically from a terminal on the same wall	1500
N	Horizontally from a terminal on the same wall	300
P	From a vertical structure on the roof	600

* In addition, the terminal should not be closer than 300mm to an opening in the building fabric formed for the purpose of accommodating a built-in element, such as a window frame.



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Terminal Locations: Roof Termination

The following table lists minimum distances required for positioning of the outlet to avoid adverse effects with respect to:

- A. A ventilation opening serving an occupied room, a toilet or a bathroom.
- B. A heating air supply, when the supply flows through an occupied room.
- C. A window that can be opened and that is near an occupied room, a toilet or a bathroom.

To avoid adverse effects	Distance: outlet- A, B or C
At the same roof level	>6m (*)
At a different roof level	>3m (*) (**)
At a lower positioned wall	>2m (**)
At a higher sloping surface	>6m (***)

(*) If the required distance cannot be achieved, the outlet position rules take precedence.

(**) If the outlet is positioned at least 1 m higher than the intake supply opening, or a window that can be opened.

(***) If the required distance cannot be achieved, the position of the outlet must be at least 1 m above the highest facade/roof.



IMPORTANT: When installing the appliance with a roof termination (classification C31), it is important to fit a 30mm flue restriction strip across the flue outlet inside the stove.

Vent Maintenance

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

1. 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.
2. Check for corrosion in areas exposed to the elements. Components with rust spots or holes must be immediately replaced.
3. Ensure that there is no foreign material in the vents. Survey by removing the cap and shining a light down the vent.
4. If possible, check all joints and pipes to make sure that nothing has been disturbed or loosened.



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Fireplace Installation Instructions

The following sections describe fireplace components and describe installation operations:

- Selecting a Location on page 62

Installation Sequence on page 62

- Working with Glass Panels on page 64
- Interior Design Media on page 65
- Cold Climate Insulation on page 69

Selecting a Location

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

- Minimum clearances to combustible materials must be met (Fireplace Clearances on page 13).
- Adequate clearances for servicing need to be provided.
- Consider the minimum vent vertical and allowed horizontal lengths and number of bends
- Consider framing and finishing requirements (surrounding framing and materials to be completed after fireplace installation).

The appliance must be installed on a flat, solid, continuous surface (e.g., wood, metal, or concrete). This may be the sub-floor or a raised platform.

Installation Sequence

Use the following guidelines to help ensure a smooth and error-free installation. The installation sequence is divided into three phases: planning, installation, and startup.

First Trip to Site: Planning Phase

Consult with the contractor and go over all The Flame requirements:

- Chase and framing requirements
- Drywall or noncombustible inside the chase
- Air intake and heat release
- Access panel size and location
- Gas and electric specs and location
- Venting configuration
- Finishing details

Second Trip to Site: Installation Phase

- Confirm the framing and platform are built to spec.
- Confirm gas and electric are in the correct location.
- Confirm access panel location and size.
- Confirm air intake and heat release locations.
- Make sure there is a clear path to carry in the unit.
- Uncrate the unit and set in place.
- Use the shipping bracket for the legs and seismic brackets to level and secure the unit (see note below).



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- Cut off ALL the zip ties.
- Move the components to the access panel location. Be mindful of the routing for future service needs.
- Install the venting components per the venting manufacturer's instructions and The Flame requirements.
- Go over the infill panel requirements and finishing details with the contractor.
- Protect the fireplace and components from damage.



SECURING THE UNIT: Use the supplied seismic brackets and leg shipping brackets to secure and level the fireplace. If necessary, the brackets can be extended with similar steel components.

It is crucial to the finishing that the unit is stable, level and plumb. The legs are zero clearance. Wood shims are acceptable

Third Trip to Site: Startup Phase

- Perform a visual inspection to confirm that all work was completed per The Flame specifications.
- Confirm that gas and electric are properly connected and live.
- Remove the safety barrier and glass.
- Clean the inside of the unit.
- Confirm operation and remote control setup.
- Set up the media per The Flame specifications.
- Remove protective layers and clean glass.
- Install the glass and safety barrier.
- Go over operation of the unit and remote with the homeowner.
- Set up return visit to clean glass after initial burn off period.

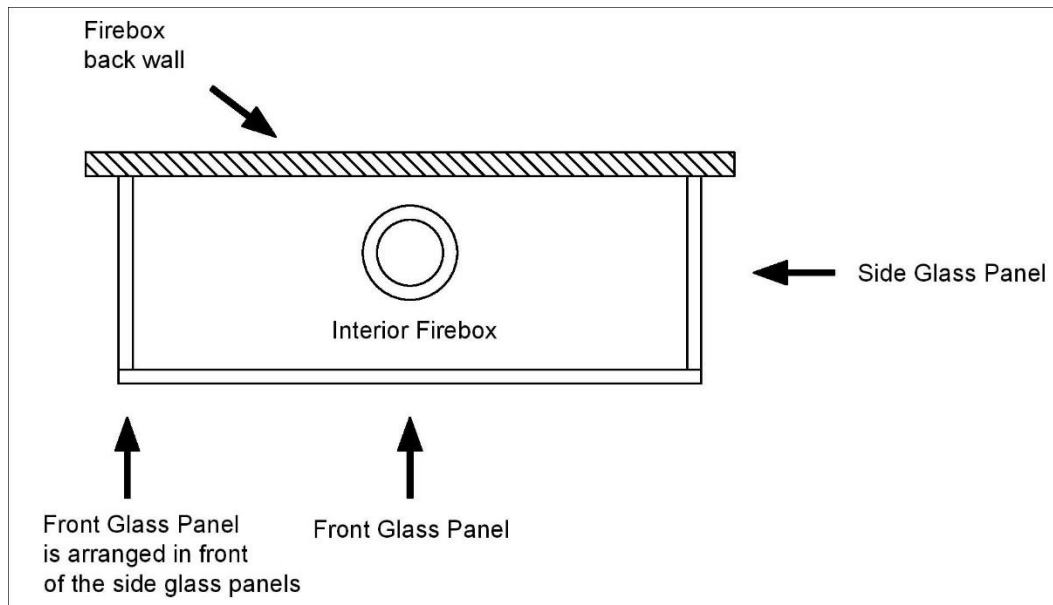


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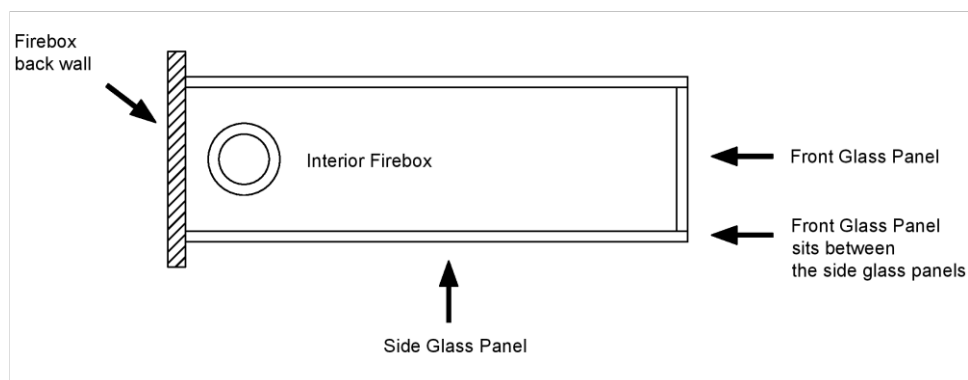
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Working with Glass Panels

5mm ceramic glass front and side panels are provided. Contact The Flame for replacement parts if required.



Three sided and corner models



Space Creator models

Figure 15: Glass Assembly Diagrams



NOTE: Make sure glass panels are tightly connected to each other.



NOTE: Always use appropriate materials and cleaning agents to clean glass. Ammonia free glass cleaners and/or ceramic glass cleaners are recommended.



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Interior Design Media

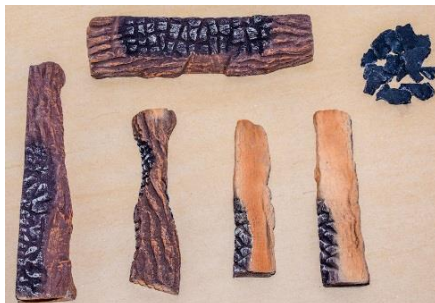
The Flame offers media such as stones, glass and logs that can be provided with the fireplace unit. This section provides guidelines for safe placement of media. The following media is highly recommended:



Birch Log Set (15 pcs per set)
SKU: MYBIRCH



Long or Short Branches w/Beige Embers
SKU: Short-MLENS Long-MLENL



Standard Log Set w/Beige Embers
SKU: MLLG



HD Log (Concrete) Set (6 pcs per set)
SKU: MLHD



Driftwood Log Set w/ Black Embers
SKU: MLRCL



Refractory Clay Log Set (6 pcs per set)
SKU: MLRL



Bonfire Logs w/Black Embers (11 pcs set)
SKU: MYIEULS



Campfire Logs (6 pcs per set)
SKU: MLCRLHR



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Ancient Amber
(1 kg per bag)
SKU: MLCO



Polished Obsidian
(1 kg per bag)
SKU: MLCB



Royal Colbalt
(1 kg per bag)
SKU: MLCL



Brilliant Ice
(1 kg per bag)
SKU: MLCC



Large Gray Pebble Set
(24 pcs per set)
SKU: MLPBG



Small Gray Pebble Set
(50 pcs per set)
SKU: MLSTG



Speckled gray pebbles
(10 pcs per set)
SKU: MLPBG



Large White Pebble Set
(24 pcs per set)
SKU: MLPBW



Small White Pebble Set
(50 pcs per set)
SKU: MLSTW



Silverstone
(10 pcs per set)
SKU: MFOPG



Powderstone
(10 pcs per set)
SKU: MFOPR



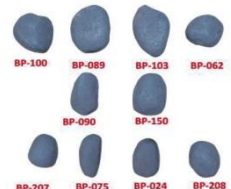
Red River Rock
(10 pcs per set)
SKU: MFOPSR



Sandstone
(10 pcs per set)
SKU: MFOPY



MLPM



MLPBB



WARNINGS –INSTALLING AND HANDLING MEDIA

- DO NOT install the interior design media until appliance installation is complete, the gas line is connected and tested for leaks, and initial burner operation has been inspected and approved.
- ONLY install media provided by the manufacturer or otherwise specifically approved by the manufacturer for installation and operation with the unit.
- The size and position of the media was engineered to give the appliance a safe, reliable and attractive flame pattern. Any attempt to use different media in the fireplace will void the manufacturer's warranty and will result in incomplete combustion, sooting, and poor flame quality.
- Media materials get very hot and will remain hot up to one hour after gas supply is turned off. Handle media only when materials are cool.
- If media are not installed according to the installation instructions, flame impingement and improper combustion could occur and result in soot and/or excessive production of carbon monoxide (CO). Carbon monoxide is a colorless, odorless and toxic gas.



The appliance is NOT designed to burn wood. Any attempt to do so could cause irreparable damage to the appliance and may result in property damage, personal injury and/or loss of life.



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Media Placement Guidelines

When installing media, adhere to the following general guidelines:

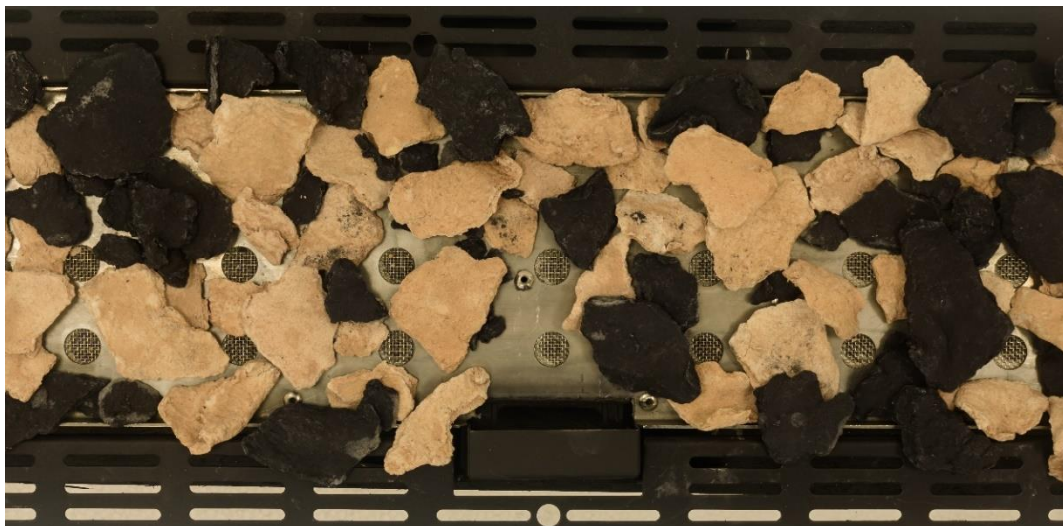
- Keep the media back from the pilot hood so at least one burner port is open. Otherwise, there will be delayed ignition.



- Do not use the hood to support media. This could cause overheating of the thermocouple.
- Keep the media away from the edges and the glass.
- Do not overfill the media tray. Keep 30% of the tray open to allow for air flow.



- When using the glass or embers media, use a single layer and do not pack down. Once the media is placed, go back and move the glass or embers back slightly to open up the ports.





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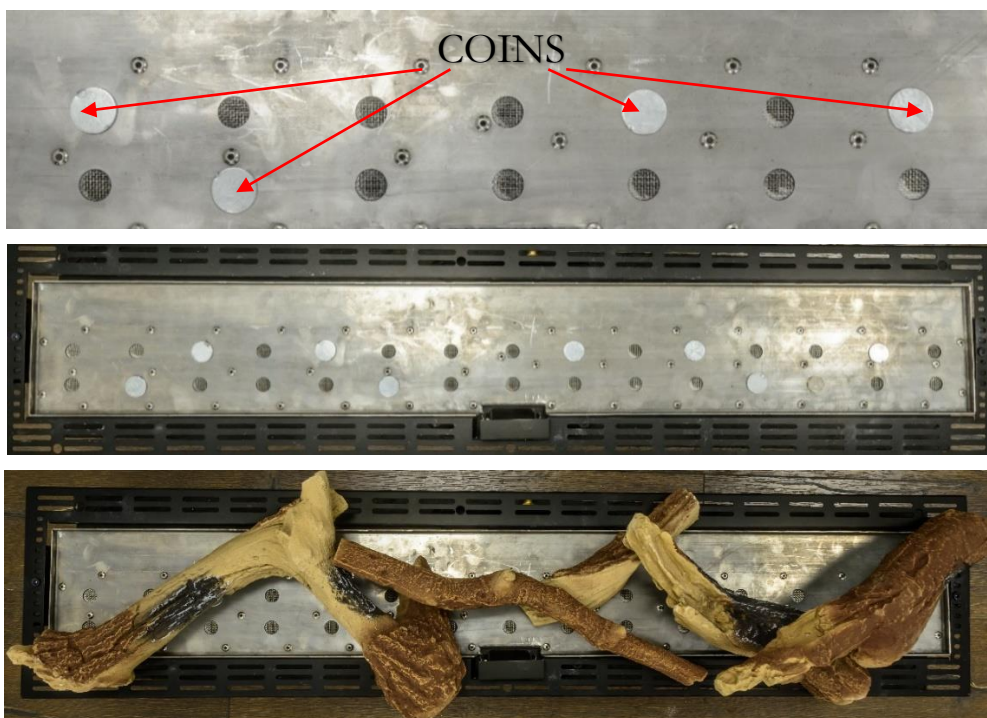
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- When placing stone media, use the space left by the round shape to leave the ports open.



Tips for Log Media Placement

- Place the logs carefully to block as few ports as possible. If a log is placed over a port, block the port with a “coin” to keep the flame from creating soot on the media or to manipulate the look of the flame.



- Block as few ports as possible, and no more than 30% of total ports. Do NOT block ports that are next to one another. This will cause delayed ignition.
- When combining both logs and glass or embers, it is recommended to place the logs (and coins if needed) first, and then to spread the glass/embers according to the instructions given above.



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Cold Climate Insulation

Seal all cracks around your appliance with noncombustible material and wherever cold air could enter the room. It is especially important to insulate outside chase cavity between fastenings, and under the floor on which the appliance rests if the floor is above ground level. Gas line holes and other openings should be caulked or stuffed with un-faced fiberglass insulation.

If the fireplace is being installed on a cement slab, a sheet of plywood or other raised platform can be placed underneath to prevent cold transfer to the fireplace and into the room. It also helps to sheetrock inside surfaces and tape and caulk fire stops for maximum air tightness.



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Valve and Receiver Installation Instructions

This section provides instructions for setting up the remote ignition and control system for the GV60 system.

- Important Safety Information on page 70
- Setting the Electronics Code on page 71
- Radio Frequency, Power Supply and Receivers (Symax) on page 72
- Installing the GV60 (Symax) on page 73
- Operating Instructions (Symax) on page 79

Important Safety Information

▲ WARNING

Read these instructions carefully and completely before installing or operating. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. Service and installation must be performed by a trained/experienced service technician.

WHAT TO DO IF YOU SMELL GAS

- Do NOT operate any appliance.
- Do NOT touch any electrical switch; do NOT use any phone in your building.
- Immediately evacuate the area and contact the gas supplier. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency, or the gas supplier. Installation shall conform with local codes, or in the absence of local codes, in accordance with the National Fuel Gas Code ANSI Z223.1/NFPA 54 or the IFGC or CSA B149.1. All piping and tubing must comply with local codes and ordinances.

Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair can result in a fire or explosion.

Do NOT use a product if you suspect it has been subjected to high temperatures, damaged, tampered with, or taken apart. Do NOT use a product if you suspect it has been under water or that liquid has seeped into the product. Any of these incidents can cause leakage or other damage that may affect proper operation and cause potentially dangerous combustion problems.

Damper position must be in accordance with Manufacturer's Installation Instructions and all applicable standards. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life.

Do NOT store or use gasoline or other flammable vapors and liquids in the vicinity of this control or other appliances.

▲ WARNING

ELECTRIC SHOCK HAZARD

- Read these instructions carefully. Failure to follow them could result in property damage, personal injury, or loss of life.
- This control must be electrically wired and operated in accordance with all codes and local regulations. Service and installation must be performed by a trained, experienced service technician.
- Do NOT use the control if you suspect it may be damaged.



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▲ WARNING

It is the appliance manufacturer's responsibility to determine GV60's suitability for a specific application.

▲ WARNING

Do NOT remove screws from the gas valve. Do NOT adjust and/or alter any components marked with tamper indicating paint. Motor knob is not to be removed.


▲ WARNING

1. Turn off gas supply at the appliance service valve before starting installation, and perform a Gas Leak Test after the installation is complete.
2. Install the sediment trap or filter (where required) in the gas supply line to prevent contamination of the gas valve.
3. Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair will void warranty and can result in a fire or explosion.

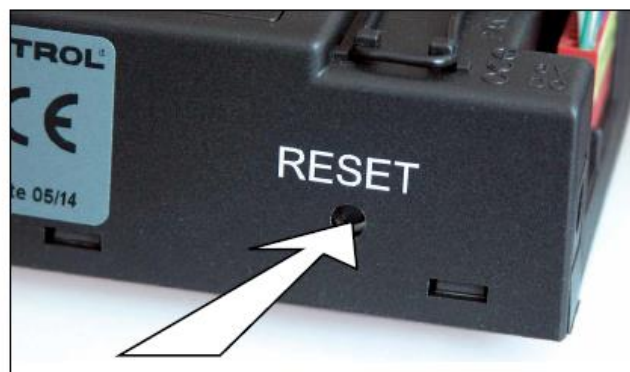
Setting the Electronics Code

Follow these guidelines to set the code on the radio frequency handset.

A code is selected automatically for all Mertik Maxitrol electronics from among 65,000 random codes available. The receiver has to learn the code of the handset:

- Press and hold the receiver's reset button (see figure 21) until you hear two (2) beeps. The first beep is short and the second beep is long. After the second beep, release the reset button.
- Within the subsequent 20 seconds press the  (small flame) button on the handset until you hear two additional short beeps confirming the code is set. If you hear one long beep, this indicates the code learning sequence has failed or the wiring is incorrect.

NOTE: This is a one time setting only, and is not required after changing the batteries of the handset or receiver.



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Radio Frequency, Power Supply and Receivers (Symax)

Handset:

- 3 x “AAA” (alkaline recommended).
- Low battery indicator on handsets with display.
- Battery replacement is recommended after 2 years.
- The handset may display options that are not available on all fireplaces

Receiver:

- 4 x 1.5V “AA” (alkaline recommended).
- Low battery indication: Frequent beeps for 3 seconds.
- The module for fan speed control and light/dimmer includes mains power.



- **NOTE:** Double glass and Fan Exhaust ed units will not operate during a power failure, and need to be run with the AC Adapter.
- Without using a mains adapter, battery replacement is recommended at the beginning of each heating season.



NOTE: Only the Mertik Maxitrol AC Mains Adapter or one pre-approved by Mertik Maxitrol can be used.

Use of other adapters can render the system inoperable.

The handsets, receivers, wall switches switch panels and touchpads are not interchangeable with previous electronics.

Radio Frequency Handset

868 MHz for Europe; 918 MHz for U.S. and Canada. This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



NOTE: Wiring of valve and receiver must be completed before starting ignition. Failure to do so could damage the electronics.



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Installing the GV60 (Symax)

Installation Instructions (Symax)

Synchronization Receiver/Handset (First time use only)

1. Insert batteries or connect AC mains power. The module for circulating fan and light/dimmer includes a mains adapter. With mains adapter, batteries can be used for backup.
2. Place ON/OFF switch (if equipped) to **ON** position.
3. The receiver has to learn the handset code:
Press and hold the receiver's reset button (see figure 16, page 8) until you hear two (2) beeps. After the second, longer beep, release the reset button. Within the subsequent 20 seconds press the **✓** button on the handset. Two (2) short beeps confirm the code is set. "GV60" is displayed on the handset confirming the synchronization is in process (see figure 13).

After successful synchronization the current state of the gas fire is displayed on the handset.

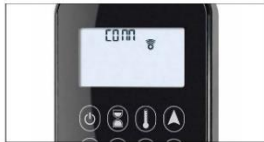


Figure 13: Synchronization in process

NOTE: This is a one time setting only, and it is not required after changing the batteries in the handset or receiver.

NOTE: Both the receiver and the handset transmit and receive signals (bidirectional). Handset and receiver sync status information every 10 s during first 2 min – afterward every 4 to 6 min up to 1 h. Touching a handset button causes an immediate synchronization.

NOTE: When the RF receiver is placed in the appliance, the surrounding metal can reduce reception considerably.

V Module

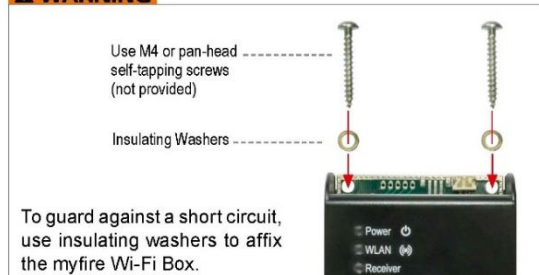
1. Follow wiring diagram. Connect the Fan and Light first and then connect the power supply. An LED indicates the power is ON. Use Molex connectors or connect wires to screw terminals.

myfire Wi-Fi Box

The myfire Wi-Fi Box allows communication with a Home Network (Wi-Fi Router) over a wireless signal.

1. myfire Wi-Fi Box must be wired according to the myfire setup diagram
2. myfire Wi-Fi-Box must be connected to the receiver; connect receiver to mains power. After 30 seconds the myfire Wi-Fi Box goes into Access Point Mode (green LED flashes). Go to "myfire App Setup" to configure the Wi-Fi Router.

⚠ WARNING



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NOTICE

- A Symax handset must be used to achieve full functionality.
- If mains power is lost, disconnect the myfire Wi-Fi Box from the receiver. This will prevent receiver batteries from being drained quickly.
- Multiple users on the same Wi-Fi channel may interfere with the data transfer. Press reset button on the myfire Wi-Fi Box for 1 second to change current channel.
- If myfire Wi-Fi Box is not connected to the receiver or is not used, it will leave the Access Point Mode (AP Mode) after 24 hours.
- If you have multiple fireplaces using myfire Wi-Fi Boxes, the minimum distance between the myfire Wi-Fi Boxes must be 60 cm (2'). A shorter distance may interfere with the data transfer.

MINIMUM REQUIREMENT WI-FI ROUTER:

- Compatible with IEEE 802.11n/g/b
- WPA2 encryption
- Radio frequency: 2,4 GHz band
- Wireless auto channel: Automated search for WLAN radio channel free of interference
- Support for the User Datagram Protocol (UDP)

MINIMUM REQUIREMENT SMART DEVICE:

- IOS 8.0 or Android 4.4

LED INDICATION ON MYFIRE WI-FI BOX (SEE FIGURE 14):

Label	LED		Status
Power	Blue	On	Power on
		Off	Power off
WLAN	Green	On	Connected to Home Network (Wi-Fi Router)
		Off	Not connected to Home Network (Wi-Fi Router)
		Flashing	myfire Wi-Fi Box in Access Point Mode
Receiver	Blue	On	Receiver connected
		Off	No Receiver connected or connection lost
All LEDs		Flashing	Internal configuration



Figure 14: LED on myfire Wi-Fi Box

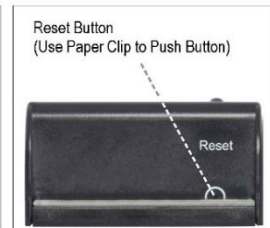


Figure 15: Reset Button myfire Wi-Fi Box

RESET STATUS ON MYFIRE WI-FI BOX:

Press Reset Button	LED status Blue Power LED	Function
1 sec	Continuously flashes every 1/2 sec	Activates AP Mode for 10 min (time to connect myfire Wi-Fi Box to Home Network (Wi-Fi Router)). Simultaneously the Wi-Fi channel changes.
5 secs	Two rapid flashes every 1 sec	System reset
10 secs	Flashes every 100 ms (continuously)	Restores factory firmware (myfire Wi-Fi Box will set to default after reboot); takes up to 2 min
20 secs	Flashes every 50 ms (continuously)	Restores factory firmware and erases all data not locked (Wi-Fi network will set to default after reboot); takes up to 2 min

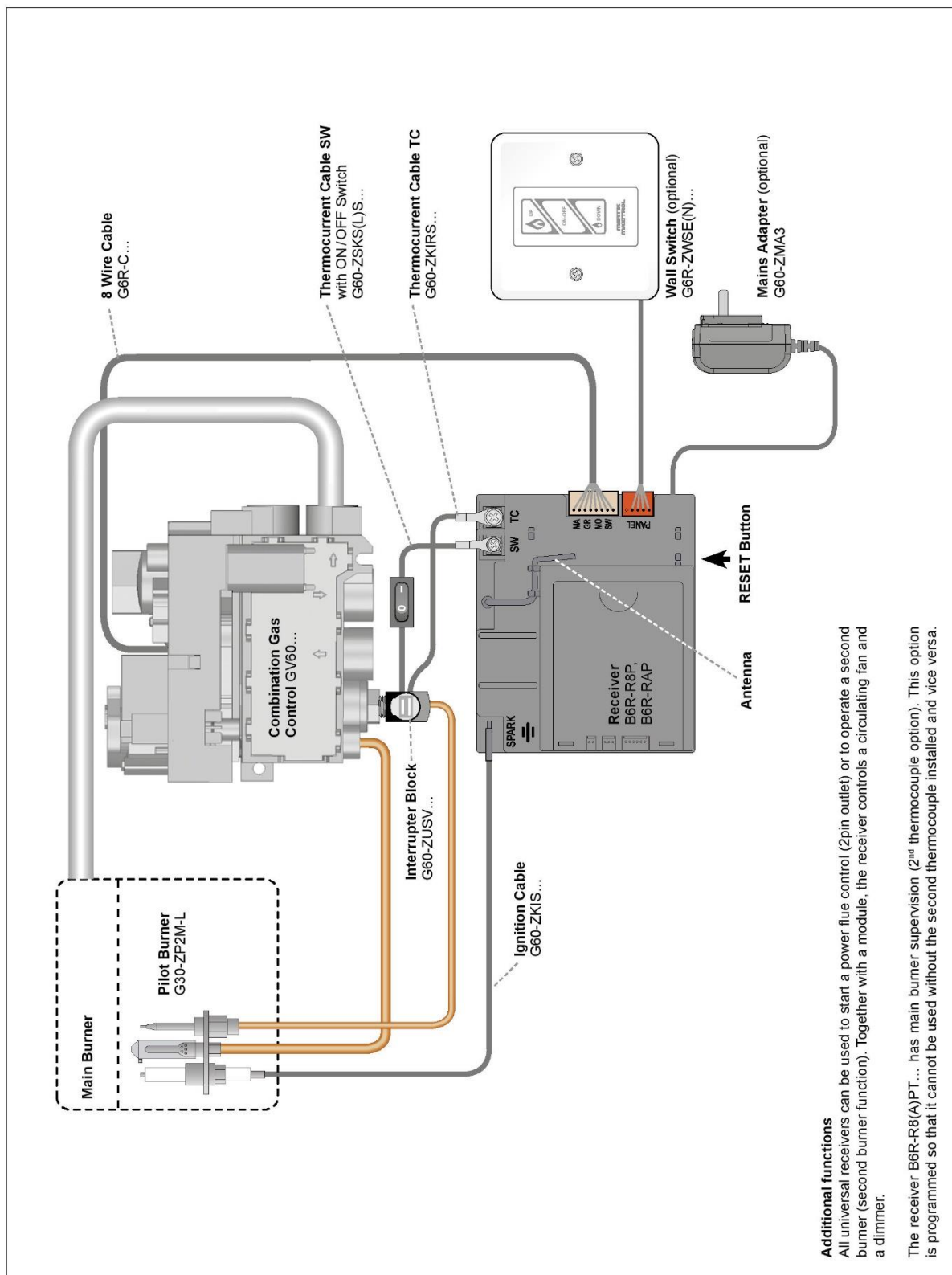


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Electrical Diagrams (Symax)

BASIC

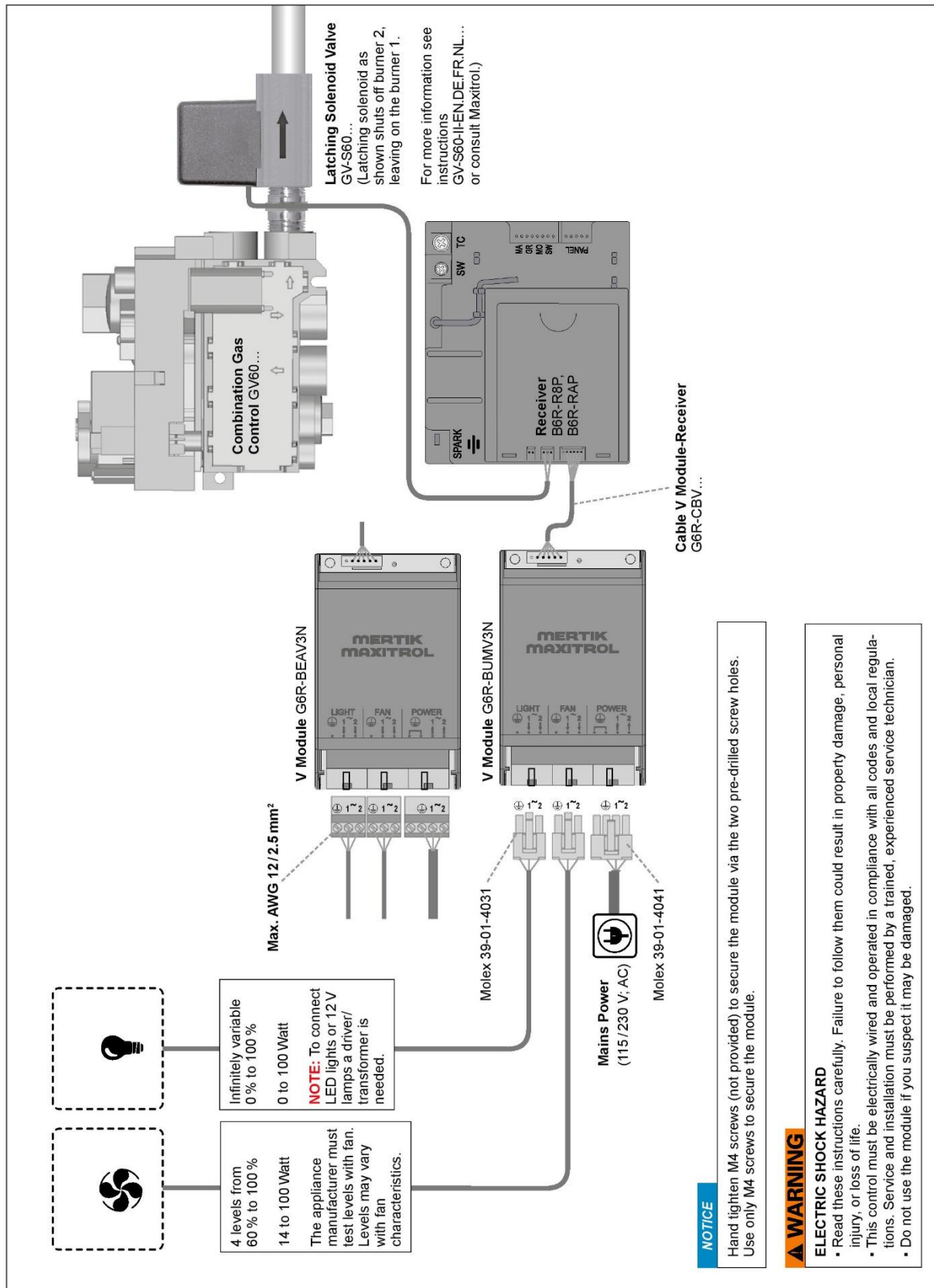




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FAN, LIGHT/DIMMER, 2ND BURNER FUNCTION

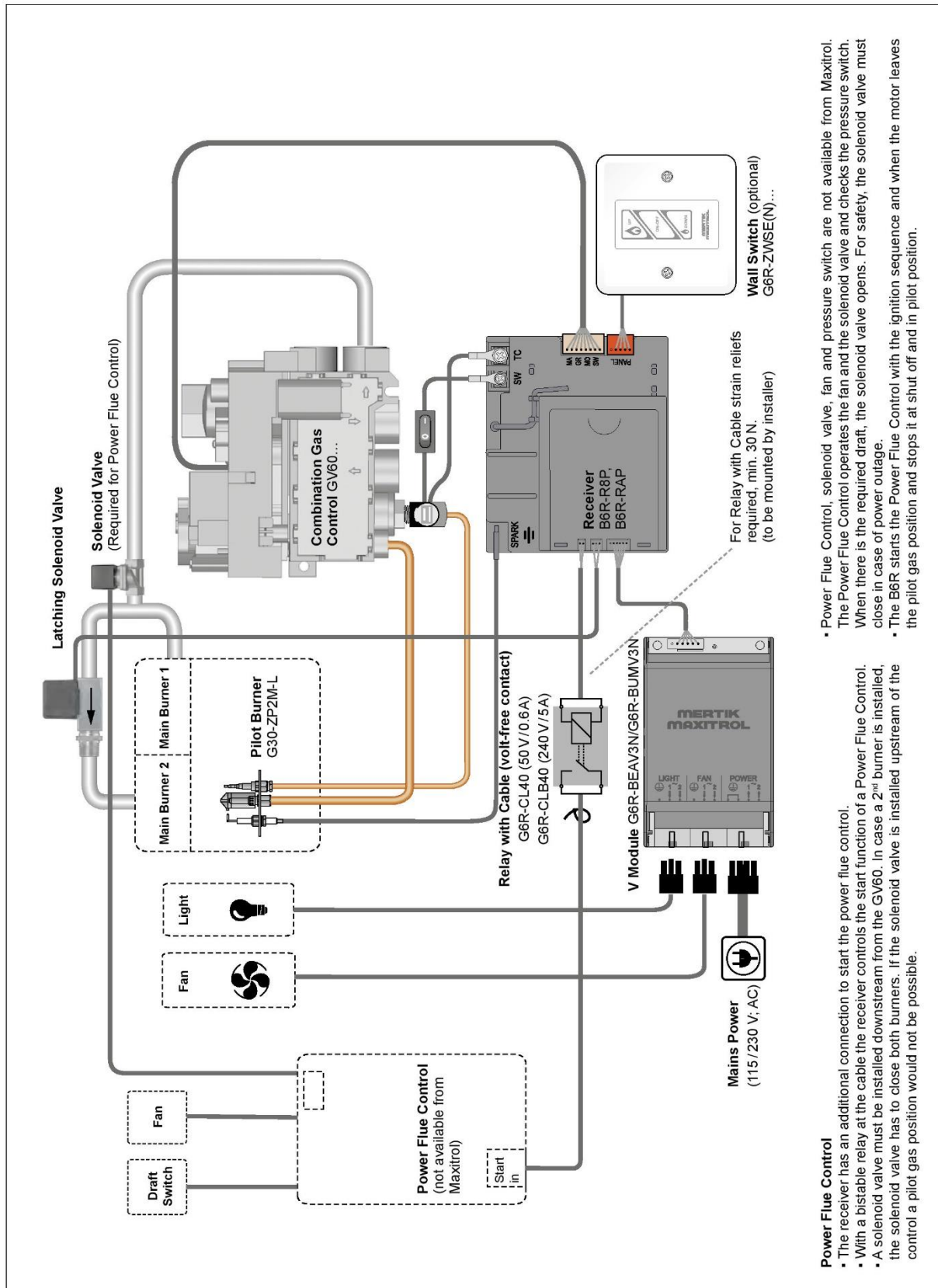




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RECEIVER FOR POWER FLUE CONTROL, FAN, LIGHT/DIMMER, 2ND BURNER FUNCTION (VOLT-FREE CONTACT)

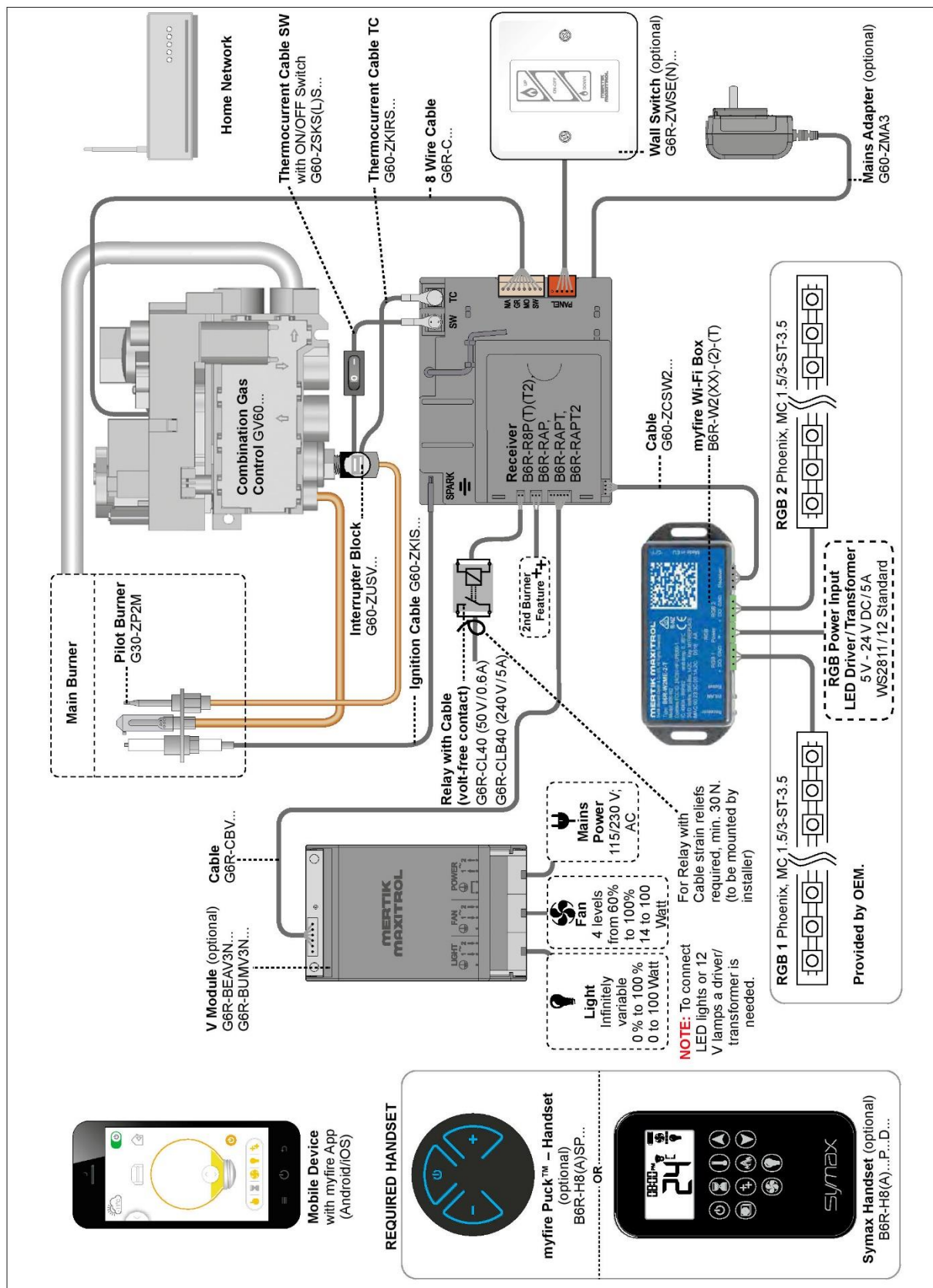




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MYFIRE APP SETUP





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GV60 Remote Electronic Ignition and Control System External Source Operation

CONTACT OPTIONS/OPERATION

FOR OEM USE ONLY

⚠ WARNING

Fire or explosion hazard. Attempted disassembly or repair of controls can cause property damage, severe injury or death. Do not disassemble the gas valve; it contains no serviceable components.

Read these instructions carefully and completely before installing or operating. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. Service and installation must be performed by a trained/experienced service technician. The Mertik Maxitrol product should not be operated until it has been inspected and approved by the local code authority.

WHAT TO DO IF YOU SMELL GAS

- Do not operate any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately evacuate the area and contact the gas supplier. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

Do NOT use this product if you suspect it has been subjected to high temperatures, damaged, tampered with, or taken apart. Do NOT use a product if you suspect it has been under water or that liquid has seeped into the product. Any of these incidents can cause leakage or other damage that may affect proper operation and cause potentially dangerous combustion problems.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this control or other appliances.

Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, do NOT try to repair it. Call a qualified service technician. Force or attempted repair can result in a fire or explosion.

DESCRIPTION

The GV60 will operate through an external source, such as a home automation system, by using the 5-wire pin connector on the receiver. A 1000 mm cable with Alex 2510-Z connector (part number G60-ZCE/1000) is available. The overall length of the cable should not exceed 8m. Signal relays (gold contacts) or opto-couplers are recommended.

⚠ WARNING

It is the appliance manufacturer's responsibility to fully disclose any operation from a remote source that will create an unsafe operating condition. For Europe see GADAC guidance sheet B12.

CONTACT OPTIONS/OPERATION

- **IGNITION:** Close contacts 1 and 3 simultaneously for 1 second.
- **HIGH FIRE:** Close contact 1 for 12 seconds
- **PILOT:** Close contact 3 for 12 seconds
- **OFF:** Close contacts 1, 2, and 3 simultaneously for 1 second.
- **SWITCH ON A SECOND BURNER:** Close contacts 1 and 2 simultaneously for 1 second.
- **SWITCH OFF A SECOND BURNER:** Close contacts 2 and 3 simultaneously for 1 second.

NOTE: It is necessary to hold the contacts closed for 12 seconds when turning to High Fire or Pilot positions to make certain that the motor has turned completely to the end-stops.

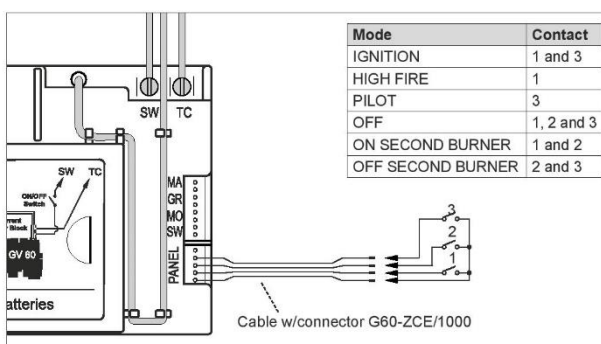


Figure 1: Wiring diagram and the operation sequence

POSSIBLE MODES OF OPERATION

MODE 1

The external source provides ON and OFF operation only. The Timer/Thermostat handset provides all other functions.

NOTICE

The Timer/Thermostat handset in Thermostatic Mode 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.

MODE 2

The external source controls the room temperature. The Timer/Thermostat handset must be set to Manual Mode (or use a standard handset). If the Timer/Thermostat handset is set to Thermostatic Mode, it will override the external source.

NOTICE

Frequent ON/OFF cycles will limit the life expectancy of the valve and will increase the battery consumption. The AC Mains Adapter may be used instead of batteries.



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Operating Instructions (Symax)

Software Version

Press **Ⓜ** and **Ⓟ** buttons simultaneously. Software version is displayed.

Handset Model Number

Press **Ⓜ** and **Ⓡ** buttons simultaneously. Handset model number is displayed.

Handset One Button and Two Button Ignition

Change from one button to two button ignition (Default Setting) or vice versa by pressing and holding **Ⓢ** button for 10 sec. immediately after installing batteries. **ON** is displayed and **1** or **2** (one or two button ignition) is flashing. When change is complete **1** changes to **2** or vice versa.

Deactivate Functions

1. Install batteries. All icons are displayed and flashing.
2. While the icons are flashing, press the relevant function button and hold for 10 sec.
3. The function icon will flash until deactivation is complete. Deactivation is complete when the function icon and two horizontal bars are displayed.

NOTE: If a deactivated button is pressed, there is no function, and two horizontal bars are displayed.

NOTE: Deactivation remains in effect after change of batteries.

Activate Functions

1. Install batteries. All icons are displayed and flashing.
2. To activate a function, press the relevant button and hold for 10 sec.
3. The function icon will continue to flash until activation is complete. Activation is complete when the function icon is displayed.

The following Functions can be Deactivated/Activated

- CHILD PROOF
- PROGRAM MODE
- THERMOSTATIC MODE (also deactivates PROGRAM MODE)
- ECO MODE
- LIGHT/DIMMER OPERATION
- CIRCULATING FAN OPERATION
- AUXILIARY FEATURE
- COUNTDOWN TIMER

MYFIRE APP SETUP

NOTICE

For myfire App setup, you will need your Wi-Fi Network SSID and password.

For more detailed setup/operating instructions refer to www.myfireapp.com

INITIAL SETUP

1. Download myfire App from Apple App Store or Google Play Store.
2. Touch screen to start App setup.
3. Choose language, temperature (C° or F°) and time format (12 or 24 hour).

REGISTRATION

NOTE: You must register before logging in. Registration is one time only.

1. Fill in data and accept the "Privacy Policy".
2. Touch "OK" in pop-up notice.
3. Touch link to confirm email verification.
4. You will be shown a message that you have successfully registered the myfire App.
5. Return to App.

LOGIN

1. Fill in your registration password.
2. Accept "Terms and Conditions".
3. Touch the "Login" button.

CONNECT SMART DEVICE TO NEW MYFIRE WI-FI BOX

1. Touch the **⊕** icon.
2. A message will tell you to go to your smart device Wi-Fi settings.
3. Touch myfire_WiFi-Box_<number>.
4. Enter the password "MYFIREPLACE".

CONNECT MYFIRE WI-FI BOX TO WI-FI ROUTER

NOTE: The connecting process may take between 1–10 minutes. After successful connection a pop-up will tell you to go to your smart device Wi-Fi settings.

1. Select a name for your fire.
2. Type in the name (SSID) of your Wi-Fi Router.
3. Type in the password of your Wi-Fi Router.
4. Touch "Connect" button.



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NOTICE

To connect myfire Wi-Fi Box to Wi-Fi Router (Home Network), make sure:

- Home Network is available.
- Home Network name and password are correct.
- SSID of the Wi-Fi Router is not hidden.
- Home Network signal is in range.
- Wi-Fi Router supports User Datagram Protocol (UDP).

CONNECT SMART DEVICE TO WI-FI ROUTER

NOTE: After successful connection a pop-up will tell you to go to your smart device Wi-Fi settings.

1. Touch "OK" button, if correct.

CONFIRM FIREPLACE SETTINGS

1. After confirming fireplace settings touch "Finish" button.

A LIST OF CONNECTED MYFIRE WI-FI BOXES IS DISPLAYED

1. Touch "Start App" button to finish installation and setup process.

The home screen is displayed and the myfire app is ready to go.

NOTICE

After setting up the myfire Wi-Fi Box and myfire App, the time has to be synchronized in the settings of the myfire App.

NOTICE

The active device (Symax handset or smart device) is the one last used. An exception is if the non-active device is used to change Light, Fan, or AUX. The non-active device will make the changes, but the active device remains so if it is in Thermostatic, Program, or Eco Mode. If a Profile includes a Thermostatic, Program, or Eco setting it will also cause the active device to remain active.

NOTICE

If Thermostatic, Program, or Eco Mode is activated using the app, the corresponding icon and "RPP" is displayed on the handset (see figure 25).



Figure 25: App connected (in Thermostatic Mode)

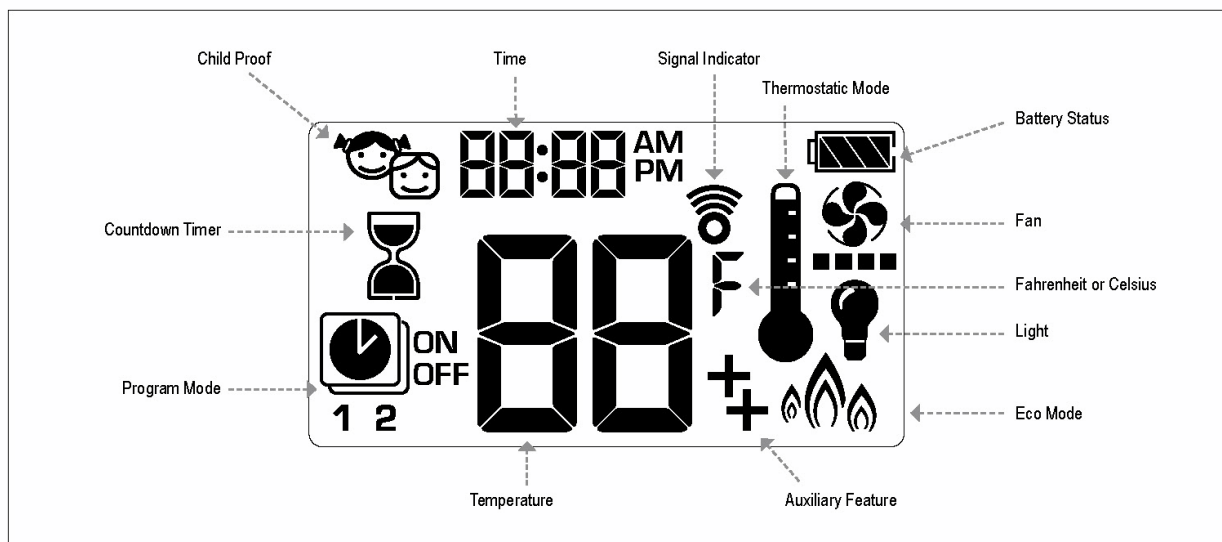
NOTICE

During motor movement no information between receiver and transmitter is exchanged. The synchronization follows after motor has stopped.

NOTICE

The room temperature data is transferred by the Handset during synchronization.

10-SYMBOL



10-symbol Display



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MANUAL MODE (HANDSET)

NOTICE

BEFORE OPERATING

1. Make sure MANUAL knob on the GV60 valve is in the **ON**, full counterclockwise position.
2. Place the ON/OFF switch (if equipped) in the I (ON) position.

TO TURN ON FIRE

▲ WARNING

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



- Press button (One Button Ignition) or and button simultaneously (Two Button Ignition) until two short beeps and a blinking series of lines confirms the start sequence has begun; release button(s).
- Main gas flows once pilot ignition is confirmed.
- Handset automatically goes into Manual Mode after main burner ignition.

▲ WARNING

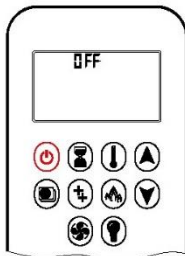
If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions "TURN OFF GAS TO APPLIANCE"

STANDBY MODE (PILOT FLAME)

Handset

- Press and hold button to set appliance to pilot flame.

TO TURN OFF FIRE

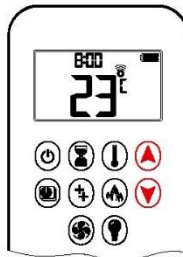


Handset

- Press button to turn off.

NOTE: A new ignition is possible after the OFF icon stops flashing.

FLAME HEIGHT ADJUSTMENT



Handset

- To increase flame height press and hold button.
- To decrease flame height or to set appliance to pilot flame, press and hold button.

DESIGNATED LOW FIRE and HIGH FIRE

NOTE: Backlight must be on for high fire and low fire double-click operation.



- To go to low fire, double-click button. **LO** is displayed.

NOTE: Flame goes to high fire first before going to low fire.



- To go to high fire, double-click button. **HI** is displayed.

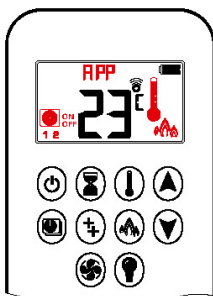
▲ WARNING

If the appliance will not operate, follow the instructions "TURN OFF GAS TO APPLIANCE"

MYFIRE APP

NOTICE

Before the App can be used, the myfire Wi-Fi Box must be wired and plugged into mains power according to myfire App setup diagram and the App setup must be completed (see myfire App setup).



If Thermostatic, Program or Eco Mode is activated, the corresponding icon and "APP" is displayed on the handset.

The modes can be operated according to the descriptions on previous pages.

NOTE: In Manual Mode "APP" is NOT displayed on the handset.

TOUCHPAD/WALL SWITCH

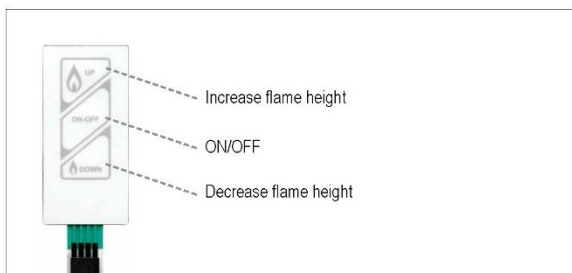


Figure 30: Touchpad/Wall Switch

To Turn ON Appliance

- Press **ON-OFF** button (see figure 30) until two short beeps confirm the start sequence has begun; release button.
- Once pilot ignition is confirmed, there is main gas flow.

⚠ WARNING

If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions "TO TURN OFF GAS TO APPLIANCE"

Standby Mode (Pilot Flame)

- Press and hold 🔥 (small flame) button to set appliance at pilot flame.

To Turn OFF Appliance

- Press **ON-OFF** button.

Flame Height Adjustment

- Press and hold 🔥 (large flame) button to increase flame height.
- Press and hold 🔥 (small flame) button to decrease flame height or to set appliance at pilot flame.

⚠ WARNING

If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE"

TO OPEN AND CLOSE SOLENOID VALVE/BURNER

- Simultaneously press the **ON-OFF** and 🔥 (small flame) buttons to switch the Decorative Burner OFF.
- Simultaneously press **ON-OFF** and 🔥 (large flame) buttons to switch Decorative Burner on.

NOTE: The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position.

SWITCH PANEL

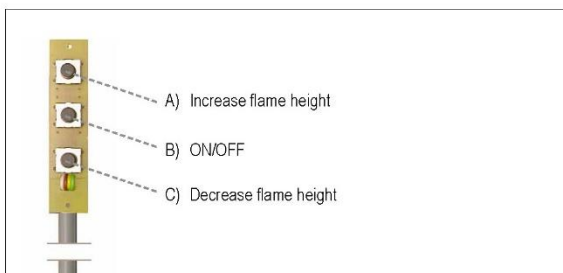


Figure 31: Switch Panel

To Turn ON Appliance

- Press "B" button (see figure 31) until two short beeps confirm the start sequence has begun; release button.
- Once pilot ignition is confirmed, there is main gas flow.

⚠ WARNING

If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions "TO TURN OFF GAS TO APPLIANCE"

Standby Mode (Pilot Flame)

- Press and hold "C" button to set appliance at pilot flame.

To Turn OFF Appliance

- Press "B" button.

Flame Height Adjustment

- Press and hold "A" button to increase flame height.
- Press and hold "C" button to decrease flame height or to set appliance at pilot flame.

⚠ WARNING

If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE"

TO OPEN AND CLOSE SOLENOID VALVE/BURNER

- Simultaneously press the "B" and "C" buttons to switch the Decorative Burner OFF.
- Simultaneously press "B" and "A" buttons to switch Decorative Burner on.

NOTE: The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position.



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TO TURN OFF GAS TO APPLIANCE

1. Place ON/OFF switch (if equipped) in **O** (OFF) position.
2. If gas control is accessible turn main valve knob to the **OFF** full clockwise ↻ position.

AUTOMATIC TURN DOWN TO PILOT

3 Hour No Communication Function

- The valve will turn to pilot flame if there is no communication between handset and receiver for a 3 hour period. The fire will continue to function normally when communication is restored.

Receiver Overheating

The valve turns to pilot flame if the receiver temperature is higher than 176°F/80°C. If batteries are installed in the receiver the temperature must not exceed 140°F/60°C.

NOTE: In Manual Mode the main burner can be turned back ON after the temperature is below 140°F/60°C (with batteries in receiver) or 176°F/80°C (without batteries in receiver). In Thermostatic Mode, the main burner turns back ON automatically.

1 Hour Turn Down

(optional; requires special receiver and handset software)

- The valve will turn to pilot flame if there is no motor movement over a 1 hour period.



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Post-installation Procedures

The following sections present post-installation operations.

Initial Burning Period

Following installation of a The Flame fireplace, there is a 12-hour minimum burning period. This 12-hour period must include a minimum of 4 hours of continuous burning.

During this time, the customer/installer may notice:

- The glass developing a white or “cloudy” film
- An unusual smell

Both the film 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 returns and performs the final inspection, which includes:

1. Cleaning the glass with a ceramic glass cleaner (otherwise the white film will remain)
2. Checking the interior media
3. Checking for gas leaks
4. Adjusting the restrictor (if necessary)
5. 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 Customer Instruction

Before releasing the unit to the customer for use without installer supervision, the installer must ensure that the appliance is burning correctly. In addition, the installer must:

- Review and explain unit operation to customer
- Review and explain safety warnings to customer
- Review and explain to the customer that glass is hot during and after operation
- Review and explain maintenance requirements to the customer
- Review and explain warranty requirements to the customer
- Explain that if any questions or concerns arise, to contact the local The Flame dealer/installer or The Flame directly for support.



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Operating Warnings

The Flame direct vent gas fireplace heaters are sealed combustion, air-circulating gas fireplaces designed for residential applications.

For your safety, please read the following warnings carefully before lighting your fireplace. If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, personal injury or loss of life.



WARNING –DO NOT OPERATE YOUR APPLIANCE IF:

- The glass is NOT properly secured in place
- Connection points are not sealed (for appliances with glass-to-glass connections)
- Glass is cracked
- You smell gas
- Any part of the appliance has been under water
- You have any doubt about safe operation of the unit

If any part has been under water, do not use the appliance. Immediately call a qualified, professional service technician to inspect the appliance and to replace any parts of the control system and any gas controls which have been under water.



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Maintenance Instructions

The following sections provide maintenance information, checklists and logs:

- General Maintenance: Tips and Warnings on page 86
- Maintenance Frequency and Equipment Checklist on page 87 • The FlameFactory Recommended Service Checklist on page 87



NOTE: Service recommendations presented are for standard The Flame fireplace products. Custom fireplaces may have different recommended service periods and activities.

General Maintenance: Tips and Warnings



WARNING –SERVICING

- It is recommended that a qualified service technician perform a routine inspection at the beginning of each heating season.
- Turn off the gas and electricity **BEFORE** servicing the fireplace.



WARNING –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. For any problem, call a qualified service technician.
- The venting system must be inspected before use. Annual inspection by a qualified field technician must be scheduled to ensure the flow of combustion and ventilation air.



WARNING –SUBMERGED PARTS

- Do not use the appliance if any part has been under water, or if you suspect that it may have been under water. Immediately call a qualified, professional service technician to inspect the appliance and to replace any parts of the control system and any gas controls which have been under water.



WARNING –HANDLING OF GLASS

- NEVER operate the appliance without the glass properly secured in place.
- The glass must be removed **ONLY** by an authorized qualified installer.
- The technician should **ONLY** remove the glass with the suction cup supplied by the manufacturer. Lower the glass to rest in a safe place to prevent damage to the glass edges.



WARNING –CLEANING THE UNIT

- ALWAYS turn off the gas valve before cleaning.
- Do NOT clean when hot. Make sure unit has had time to cool prior to cleaning any surface or component, interior or exterior.
- Keep the unit clean by brushing and/or vacuuming at least once a year by a service technician.
- Only service technicians can open the fireplace to clean interior surfaces.
- CLEAN the glass when it starts to look cloudy. Use a damp cloth for cleaning the appliance and the door.
- Verify correct operation after servicing.



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Maintenance Frequency and Equipment Checklist

Under normal circumstances, the factory recommendation is to have the unit serviced at least once a year (annual service). Units meeting the following conditions should have more frequent service:

- Units installed in commercial/public spaces should be serviced every 3 months (quarterly).
- Units installed in climates near the ocean or in other settings where corrosion buildup is more likely should be serviced every 6 months (semi-annual service)

Thermocouple Maintenance

The thermocouple should be replaced annually or as needed in all commercial installations, and in any residential unit 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.

Recommended Maintenance Equipment

Before proceeding with service, read through the following checklist and make sure you have all the equipment you need.

TOOLS

- Suction cup
- 10mm wrench
- Manometer (for checking gas pressure)
- Razor blade
- Paper towel or soft cloth for cleaning glass
- Glass cleaner
- Flathead 2.5mm screwdriver
- #3 Phillips screwdriver
- 10mm T handle wrench

MATERIALS

- Silicon (carry more than you think you will need)
- Batteries: 4xAA and 3xAAA
- Pilot gasket

The Flame Factory Recommended Service Checklist

Model Type: _____ Serial #: _____ Date: _____

This service work, like any other work on the appliance, must be done only by a qualified and competent engineer who is CORGI certified. Before, during and after service, if there is any doubt, stop and call The Flame.

If there is NO answer, close the gas valve and correct.

If you cannot correct, discontinue operation, lockout unit and call The Flame.

1. Outside horizontal/vertical cap. Clean and unobstructed. () Yes () No
2. Check the louver/chase heat release. Clean and unobstructed. () Yes () No
3. Is there an access panel for valve and receiver maintenance? () Yes () No
 - a) Clean and unobstructed? () Yes () No
 - b) Allows access to components? () Yes () No



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4. LPG only:
Is there adequate opening for releasing a potential gas leak at the lowest point of elevation in the chase? () Yes () No
5. Is glass complete and NOT broken? () Yes () No
6. Is area around the fireplace free of wall crack or signs of heat impact? () Yes () No
Make sure the shut-off valve is in the ON position and there is gas flow. () Yes () No
7. Verify that there is NO gas leak. () Yes () No
8. Turn on the fireplace for visual inspection (30 sec- 1 minute).
 - a) Check if the system sparks. () Yes () No
 - b) Check if the pilot turns on. () Yes () No
 - c) Check if the burner turns on. () Yes () No
 - d) Measure gas pressure. Inlet _____ W.C. Manifold _____ W.C.
9. Let the glass cool down.
10. Remove glass.
 - a) Clean the glass.
 - b) Remove the media and clean / vacuum the burner. () Yes () No
 - c) Return media per installation guidelines. () Yes () No
 - d) Make sure pilot, spark plug and thermocouple area is clear. () Yes () No
11. Check explosion valve
 - a) Push explosion valve open.
 - b) Release explosion valve to close. Is the explosion valve closed? () Yes () No
 - c) Is the explosion valve unobstructed? () Yes () No
12. Turn unit on without the glass installed to verify the following:
Block the flame from the pilot to the thermocouple with a metal or similar divider, and verify that the main burner turns off. () Yes () No
13. Reinstall the glass.
14. Check silicon on the glass. If broken, flip glass to the other edge. If the other edge is also broken, apply new silicon and cure for 24 hours.
Tell owner not to turn unit on for 24 hours, until: Date: _____ Time _____



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Appendix A: Fireplace Troubleshooting Guide

This appendix provides information and guidelines for troubleshooting, including:

- Pre-troubleshooting Checklist on page 89
- Troubleshooting Pilot Problems on page 92
- Troubleshooting Thermocouple Problems on page 93
- Troubleshooting Main Burner Problems on page 94

Pre-troubleshooting Checklist

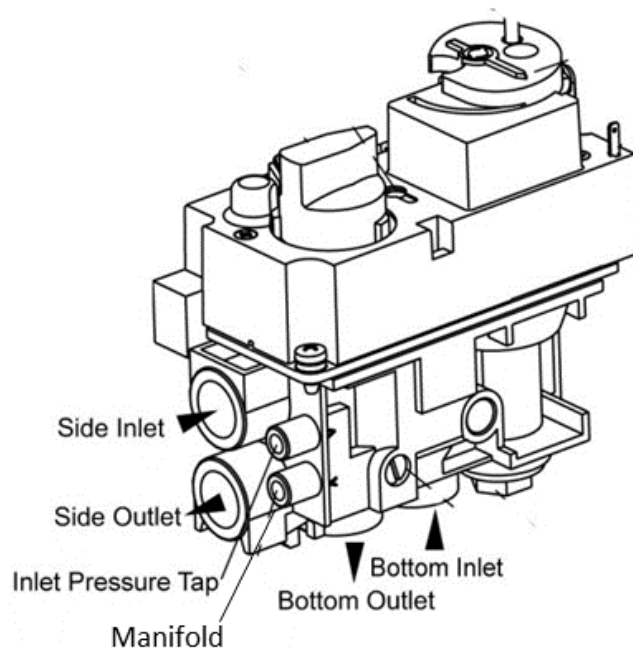
Before you begin troubleshooting, perform these steps:

1. Check the batteries and 6V transformer connection.
2. Verify that the switch on the valve is on.



Figure 16: On/Off and Manual Pilot Valve Switches

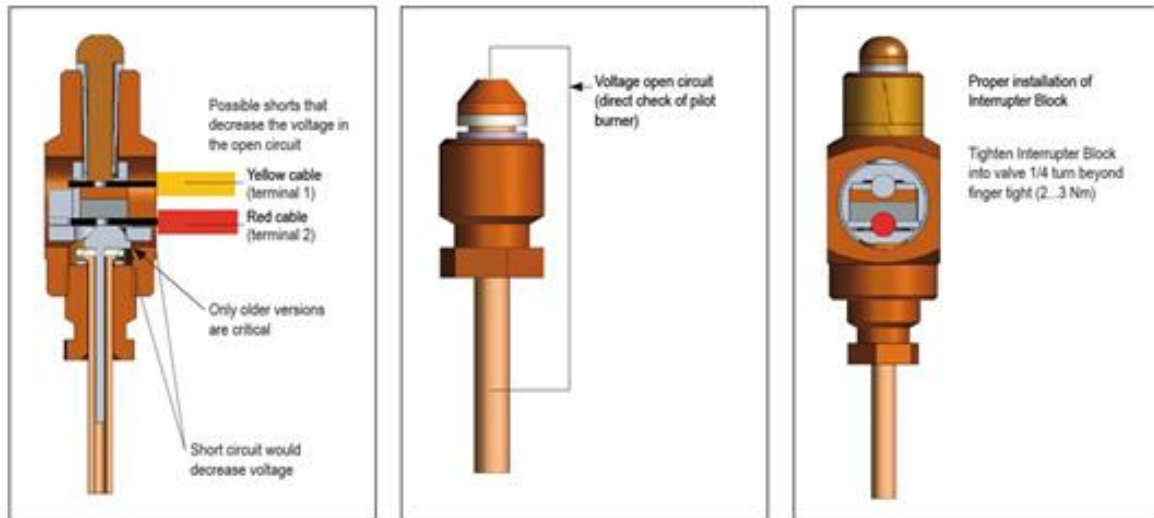
3. Verify that the gas is on.
4. Using the purge port, purge the gas line of air up to the valve (see figure below).





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5. Using the purge port, check the pressure of inlet/ supply (see figure above).
Inlet pressure for NG should be 20 or 25 millibar.
Inlet pressure for LPG should be 30 millibar.



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6. Verify that the valve and receiver wires are properly connected and tight, and that the interrupter block is tight (hand-tight plus $\frac{1}{4}$ turn).

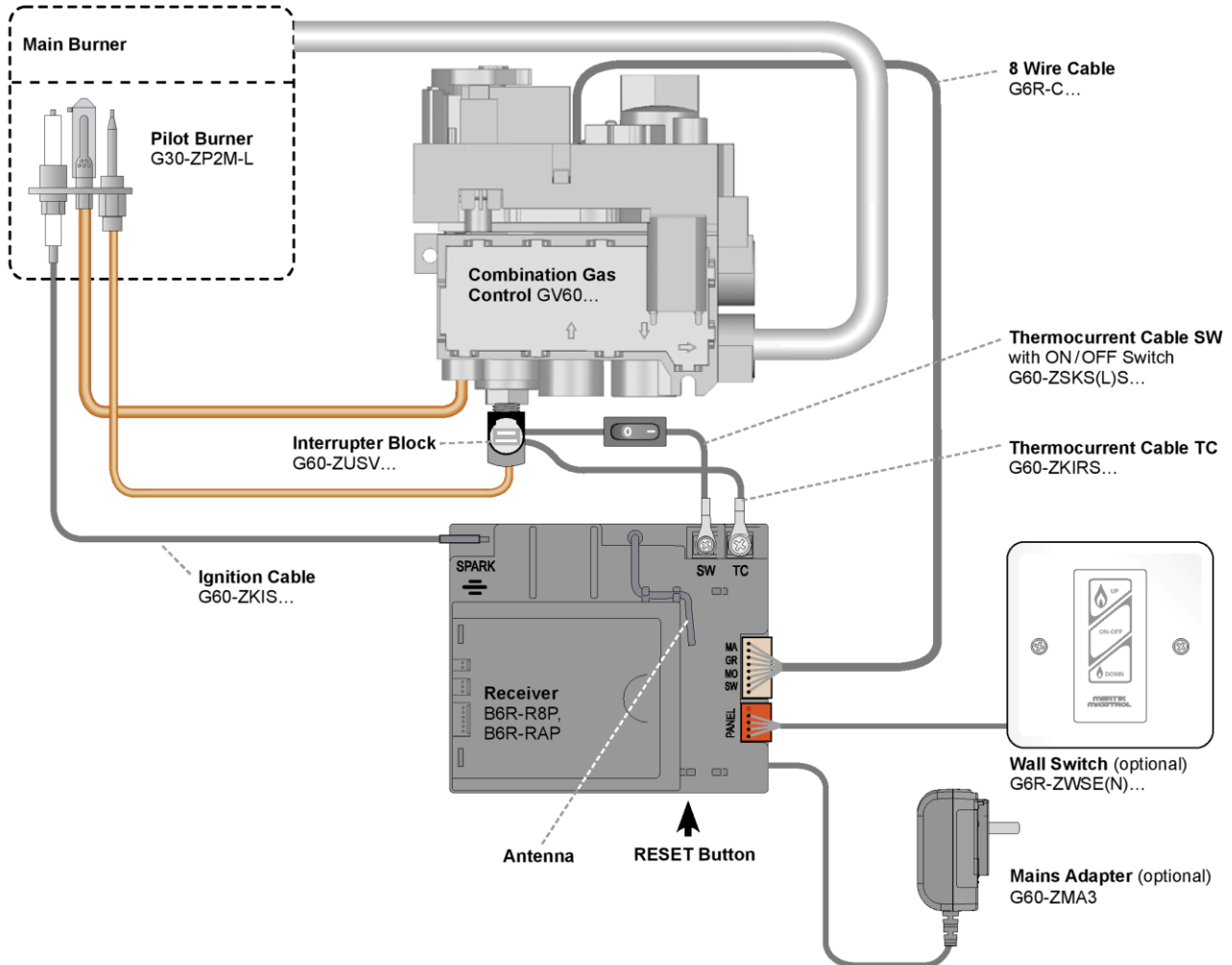


Figure 17: Valve/Receiver Wires and Interrupter Block

7. Verify that the manual pilot valve operator is in the ON position (Figure 16 on page 89).



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Troubleshooting Pilot Problems

The following sections provide step-by-step instructions for troubleshooting issues related to the pilot. If these instructions fail to resolve the problem, please contact The Flame.



Before beginning, make sure that the glass protective film has been removed.

Spark But No Pilot

1. Review the Pre-troubleshooting Checklist on page 89.
2. Make sure the inlet line is purged and that no air is present.
3. Make sure that the valve is mounted horizontally (unless it is a hanging Stand Alone unit).
4. To purge the pilot tube of any air, turn the unit on 5-10 times.
5. Verify that all wire connections are tight. Then, check that the interrupter block is screwed in tightly but not too tightly (tightening the interrupter block too much will break it). Refer to Figure 17 on page 91 for details.
6. If the problem is not resolved, call The Flame.

No Spark to the Pilot

1. Review the Pre-troubleshooting Checklist on page 89.
2. Locate the valve and receiver.
 - a) Once the receiver is located, pull it from the holder.
 - b) Disconnect the wire for the spark wire. Refer to Figure 17 on page 91 for details.
 - c) Put a small wire on the receiver spark wire port, and place the other side of the wire close to the metal body without touching (about 3 mm). While watching the small wire, turn the unit on and see if there is a spark jumping from the wire to the body of the fireplace.
If there is, proceed to the next step. If there is not, call The Flame.
3. If relevant, remove the front glass and the front heat barrier.
4. Remove the grill and the burner.

Remove the pilot assembly from the burner. For instructions, refer to



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5. Gas Conversion on page 35.
6. Reconnect the spark wire and disconnect the wire from the spark plug.
Place the spark wire close to the metal body of the fireplace without touching (about 3 mm). If there is no spark or a weak spark jumping from the wire, replace the wire. If the spark is strong and jumping, proceed to the next step.
7. If the problem is not resolved, replace the spark plug. Call The Flame if a spark plug is needed.

Pilot Turns Off After Igniting But Before Burner Turns On

1. Replace the battery.
2. Turn the unit on, and listen and look at the pilot section. Once the pilot is on, is the spark continuing to ignite the pilot? If it is, go to Troubleshooting Thermocouple Problems on page 93. If it is not, proceed to the next step.
3. If relevant, remove the front glass and the front heat barrier.
4. Make sure the pilot assembly and the pilot hood screw are tight and that there is a gasket. Whenever the pilot assembly is disturbed, replace the gasket.
5. If the problem is not resolved, call The Flame.

Pilot Turns Off After Igniting and After Burner Turns On

1. If relevant, remove the front glass and the front heat barrier.
2. Make sure that the valve is mounted horizontally (unless it is a hanging Stand Alone unit).
3. Turn the unit on and see if the pilot is still turning off after the burner turns on. If it turns off, make sure the flame from the pilot is hitting the thermocouple.
4. Verify that the pilot assembly and pilot hood screw are tight, and that the pilot assembly gasket is present and in good condition.
5. Review the restrictor tables (Restrictor Tables on page 55) and check that the correct restrictor is in place.
6. If the problem is not resolved, call The Flame.

Troubleshooting Thermocouple Problems

The following sections explain how to check and test the thermocouple.

Checking the Thermocouple

Perform these steps to check the thermocouple. Refer to Figure 17 on page 91 for details.

1. Place new batteries in the receiver.
2. Check for any breakage to the thermocouple from pilot assembly to the valve.
3. Check that the thermocouple is tightly connected to the interrupter block and that the thermos current cable is securely touching the end of the thermocouple.
4. Verify that the interrupter block is screwed into the valve properly and is finger-tight, plus ¼ turn.
5. Verify that the thermo current cable TC is screwed into the receiver properly and is tight.
6. Verify that the thermo current cable SW is screwed into the receiver properly and is tight.
7. Verify that the thermo current cable SW is securely placed in the interrupter block.



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Testing the Thermocouple

Perform these steps to test the thermocouple. Do not begin testing until the thermocouple check has been completed.

1. If relevant, remove the front glass and the front heat barrier.
2. Turn off gas to the unit.
3. Turn the unit on. While the spark is sparking, place a heat source to the thermocouple. Sparking should stop once the thermocouple senses that there is heat. If the spark does not stop, go to Step 5.
4. Check that the thermocouple is screwed properly into the interrupter block. Verify that the thermo current cable is screwed in tightly at the receiver, and that the other end is touching the head of the thermocouple at the interrupter block.
5. If the problem is not resolved, the thermocouple should be replaced. Complete a part claim/replacement form and call The Flame for replacement.

Troubleshooting Main Burner Problems

The tables below provide instructions for troubleshooting issues related to the main burner and the flame.

Problem	Possible Causes	Recommended Actions
Main burner does not turn on. Pilot is on, and valve on sequence is done.	Manual pilot valve operation is off.	Verify that the manual pilot valve operation is in the ON position.
Main burner turns off after a period of time.	<ul style="list-style-type: none">• Thermostat is set too low.• There is a problem with the flame.	<p>Check whether the pilot stays on when the main burner turns off.</p> <ul style="list-style-type: none">• If the pilot stays on, make sure the remote thermostat is set to the desired temperature or to the highest temperature allowed on the remote, so the system does not turn the burner off.• If the pilot does not stay on, check the appearance of the flame before the fireplace turns off. Refer to Troubleshooting Flame Issues on page 95.
Main burner is turning on and off.	The pilot flame is being intermittently deflected off the thermocouple.	Make sure the pilot assembly screw is tight and that the gasket is present and in good condition.



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Troubleshooting Flame Issues

Problem	Possible Causes	Recommended Actions
There is a faint or blue flame.	<ul style="list-style-type: none">• Too much CO in the fireplace, due to CO back feeding or an unapproved vent run.• Too much O2 in the fireplace.	<ul style="list-style-type: none">• Review the vent run. If the size of the restrictor in the unit is incorrect, replace it with the correct size. If it is the right restrictor, check the pipe for proper connections and for termination blockage.• Review the vent run. If the size of the restrictor in the unit is incorrect, replace it with the correct size. If it is the right restrictor, replace it with a bigger one.
The flame is jumping from the burner.	Too much draw in the fireplace.	Review the vent run. If the size of the restrictor in the unit is incorrect, replace it with the correct size. If it is the right restrictor, replace it with a bigger one.
Part of the burner is not turning on.	<ul style="list-style-type: none">• Too much CO in the fireplace, due to CO back feeding or an unapproved vent run.• Too much media.• Burner ports are clogged.	<ul style="list-style-type: none">• Review the vent run. If the size of the restrictor in the unit is incorrect, replace it with the correct size. If it is the right restrictor, check the pipe for proper connection.• Remove some of the media. No more than 70% of the burner and grill surface area should be covered.• Check burner ports for blockage.
The flame is small.	Unit manifold pressure is incorrect.	Set the correct pressure.



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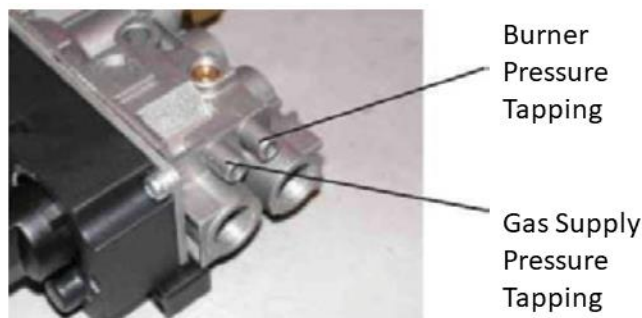
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Appendix B: Measuring and Setting Burner Pressure

This appendix describes how to measure and set the burner pressure.

Measuring the Burner Pressure

The figure below shows the two Pressure Measuring Tappings available on the control. There is an arrow by each tapping. The first arrow, pointing into the control, is the Gas Supply Pressure. The second arrow points away from the control.



The gas supply pressure is controlled by the regulator at the gas supply and the pipework to the appliance. This point can be used to measure the supply pressure in the appliance.



To measure burner pressure, work with the Burner Pressure tapping. With the control in the OFF position, release (but do not remove) the screw inside the tapping, and connect the tube of the manometer to the tapping. Then, ignite the burner.

The value displayed on the manometer is the burner pressure.

Setting the Burner Pressure

The burner can have either of the following types of control:

- **Fully Remote:** Can adjust the burner UP or DOWN, spark the ignition and turn the appliance off.
- **Semi Remote:** Can adjust the burner UP or DOWN, but has no ignition capabilities.

Pressure measurement and adjustment are the same regardless of control type, but access to the setting screw is different for each type of control.

- **Accessing the Fully Remote setting screw:** The setting screw is accessible through a hole in the front cover of the control. If the hole is blocked by a plastic plug, remove the plug.



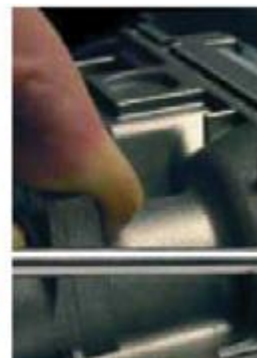
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Setting Screw

- **Accessing the Semi Remote setting screw:** To access the setting screw you will need to remove the front cover of the control. First remove the Cross Head Screw shown in the picture on the left below. Then using a flat head screwdriver, pry the tab over the catch as shown in the picture on the right.



Remove the cover to expose the setting screw.



Setting Screw

To set the burner pressure:

1. Make sure that the burner has been on for approximately 10 minutes, and that the burner is hot.
2. Adjust the setting screw until the burner pressure reaches the required manifold pressure (see table on page 37).





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Appendix C: Mounting of Stand Alone Models

This section provides guidelines and diagrams related to mounting of Stand Alone models.

Recommendations for Wall Mounting

The following procedures present manufacturer-recommended instructions for mounting on concrete walls and wood stud walls.



NOTE: All installations are to be completed per local building codes and safety requirements. The recommendations provided do not take the place of reviewing and incorporating structural requirements set forth by the building engineer, local codes, etc.

To mount the unit on a concrete wall:

3. Position the unit at the desired height and mark the wall. There should be a minimum 30 cm and maximum 76 cm distance from the bottom of the unit to the floor.
4. Mount the Stand Alone hanging bracket using Hilti 1 cm x 7.5 cm Kwik bolt 3 expansion anchors (or equivalent) with manufacturer's requirement of 6.5 cm embedment and torque to 2.8 meter kilogram-force.
5. Attach the unit to the mounting bracket. (See Figure 18 on page 99).

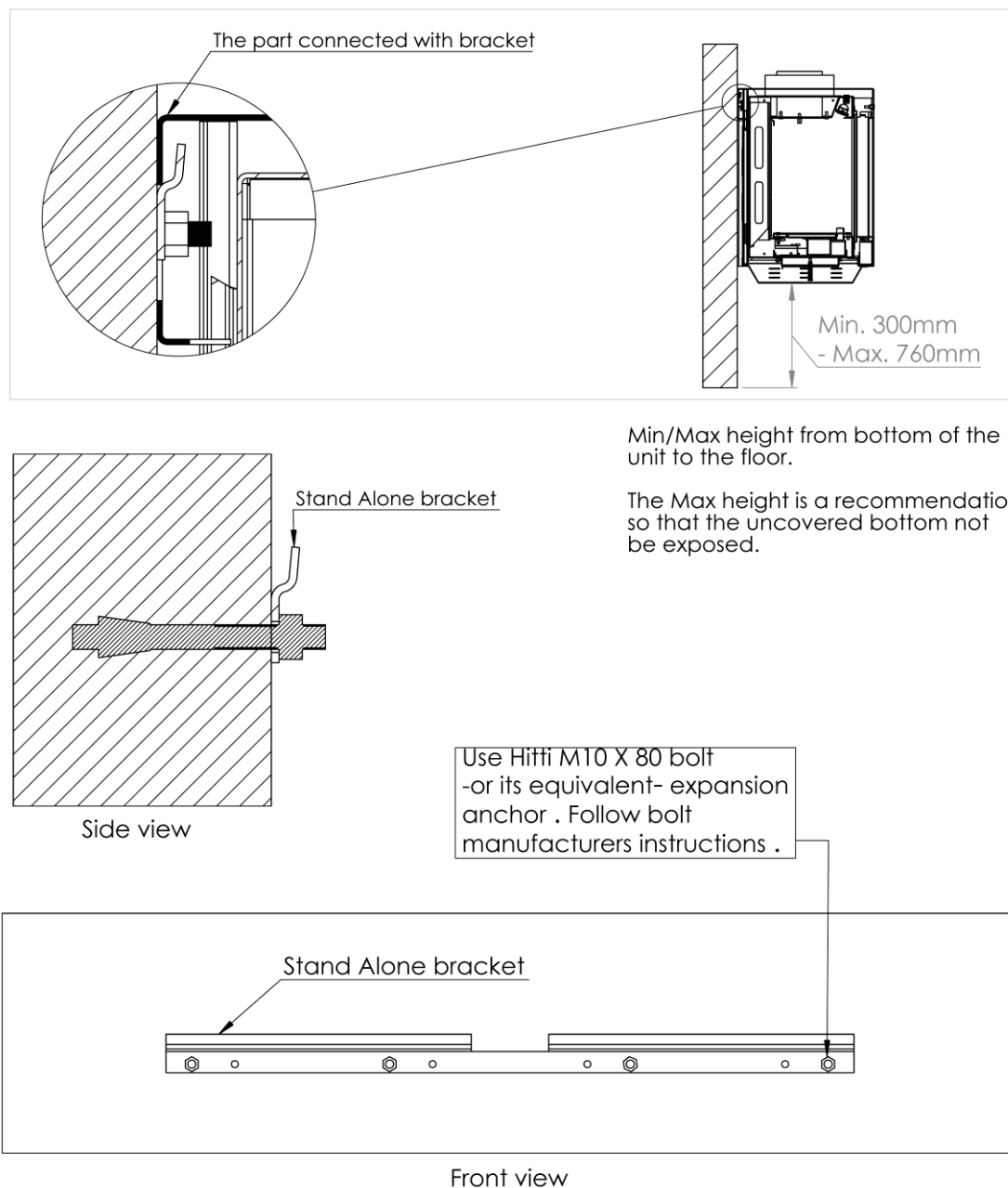


Figure 18: Concrete Wall Mounting Detail

To mount the unit on a wood stud wall:

1. Position the unit at the desired height and mark the wall. There should be a minimum 30 cm and maximum 76 cm distance from the bottom of the unit to the floor.
2. Create an opening in the wall big enough to position the 10x20 cm blocks between the wood studs at the desired height.
3. Repair the opening with Hardy backer board or its equivalent.
4. Make sure that the bracket has a minimum 10 cm extra hardy backer board material around it.
5. Mount the bracket with 1 cm x 10 cm lag bolts. Follow the bracket manufacturer's installation requirements and then mount the unit.

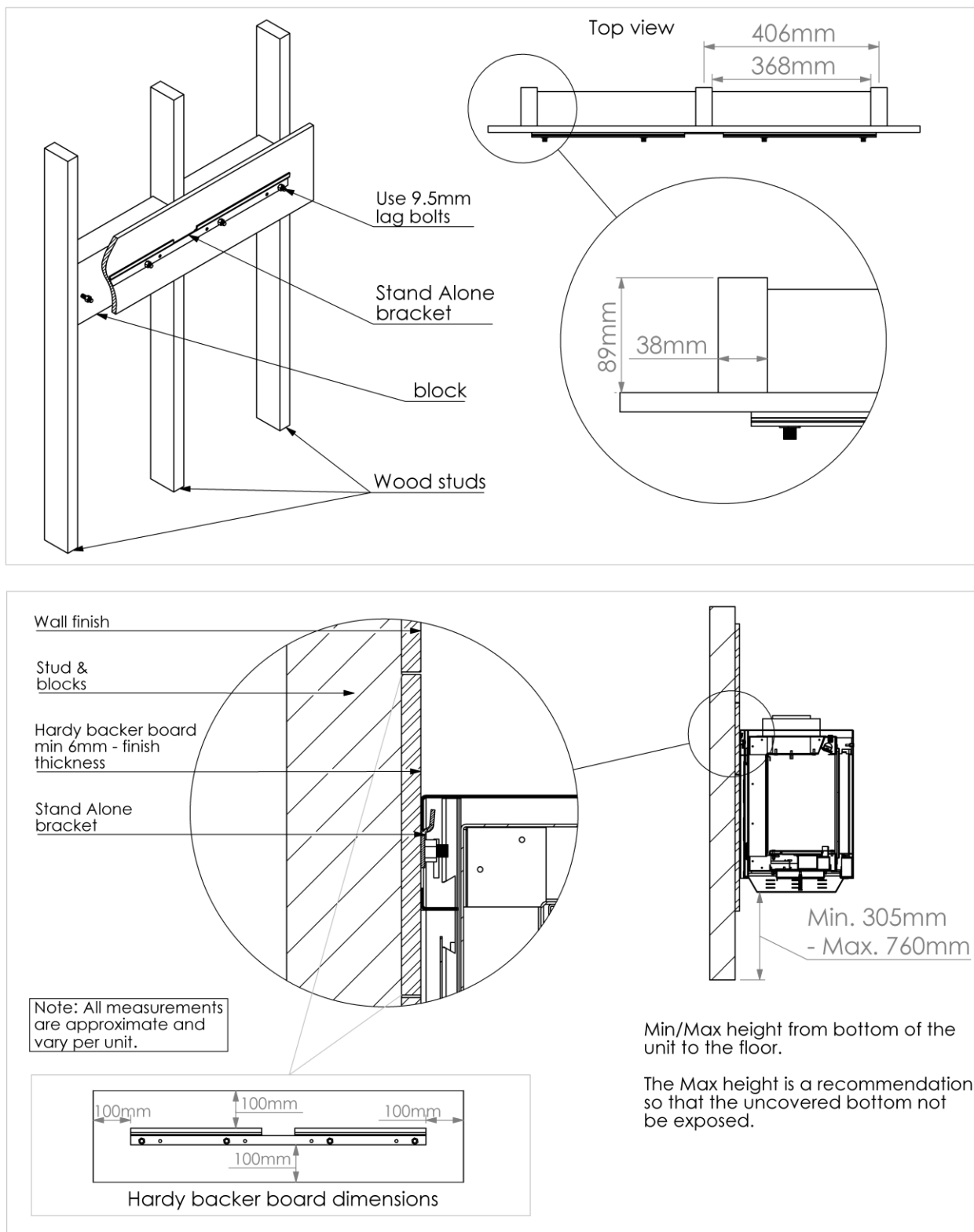


Figure 19: Wood Stud Mounting Detail



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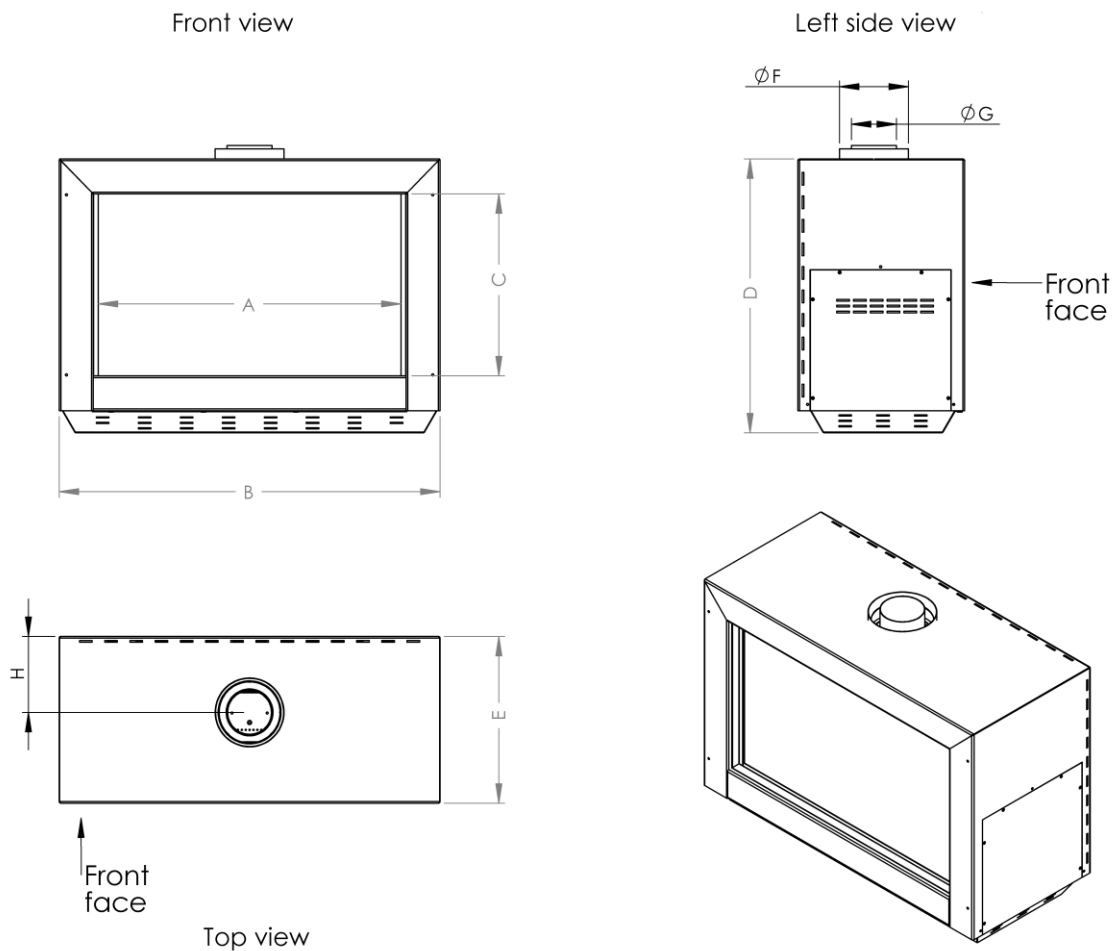
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Stand Alone Installation Diagrams

The following diagrams present installation guidelines for the Stand Alone models. Please note that these drawings are not to scale.



NOTE: All dimensions in the diagrams are in millimeters.



All dimensions are in millimeter								
Dim Type	A	B	C	D	E	F	G	H
75	721	907	433	651	397	164	107	181
110	1085	1274	344	566	397	200	132	181
150	1502	1694	345	566	397	200	132	181

Figure 20: Stand Alone Front Facing Models

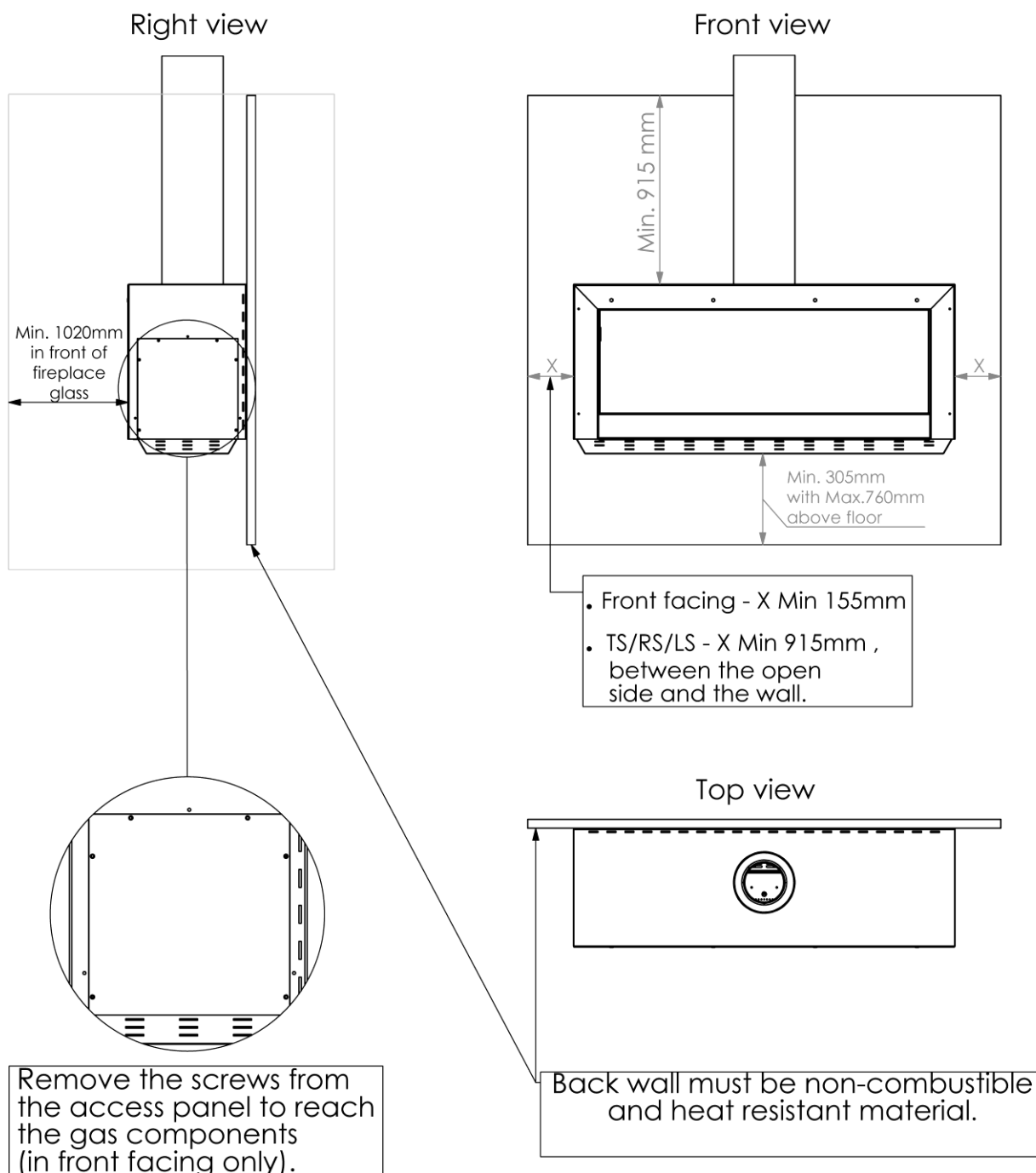


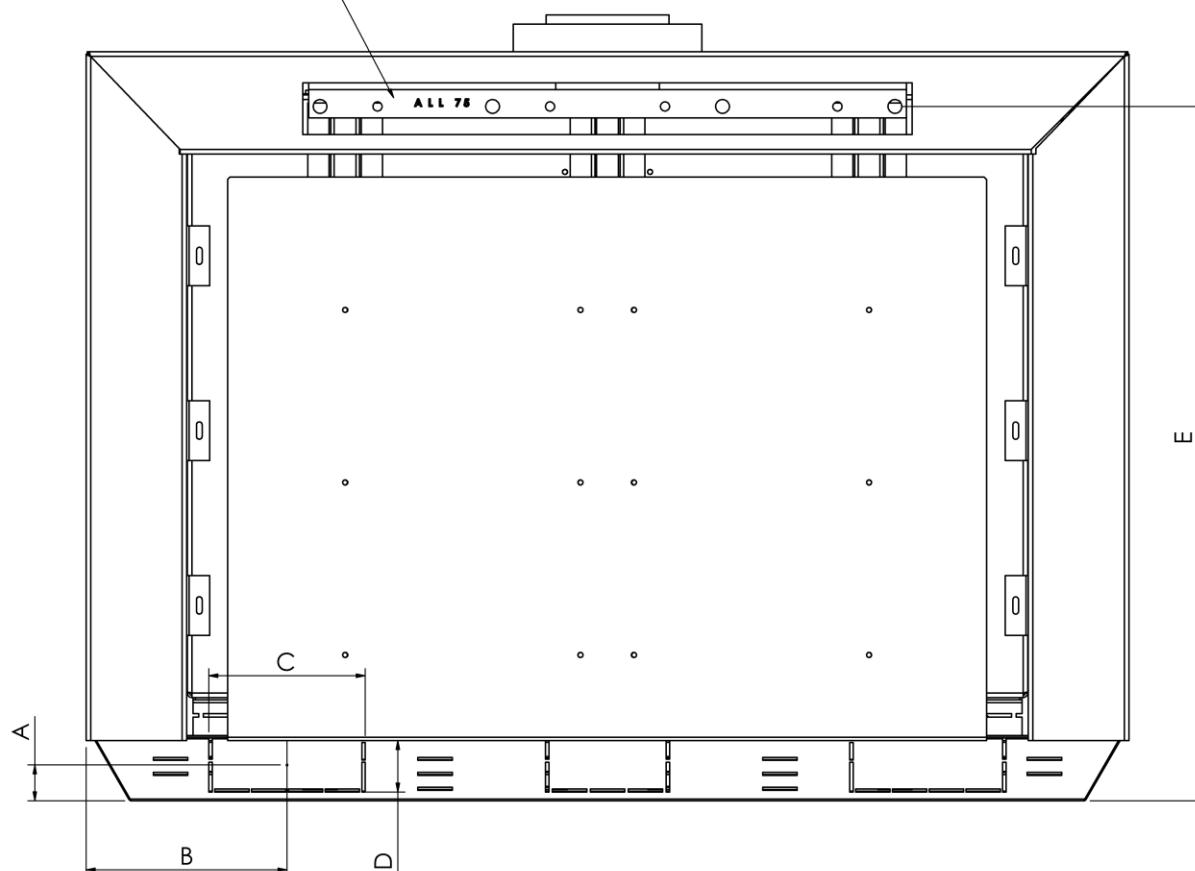
Figure 21: 75 TS Stand Alone: Front, Top and Side Views



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Stand Alone bracket



Dim (mm) Type	A	B	C	D	E
F 75	30	175	136	45	604
F 110	29	137	136	40	520
F150	29	143	136	42	520

Figure 22: 75 TS Stand Alone: Rear View

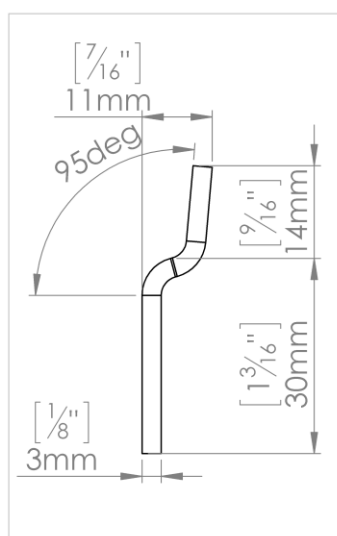
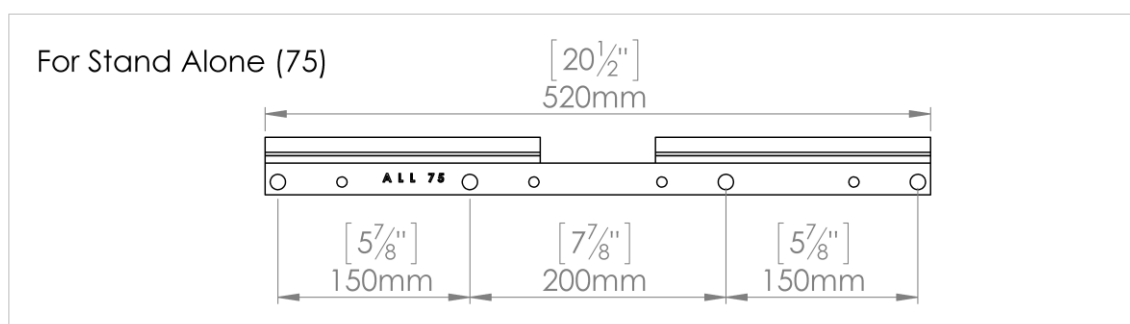
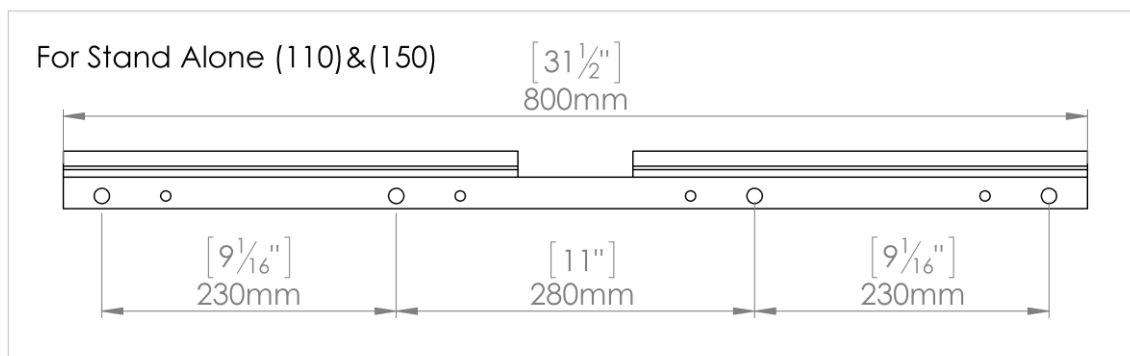


NOTE: The dimensions for A and B show the center of the opening for gas and electricity (after removing the bracket). TS Stand Alone units are completely open in the rear.



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Side view

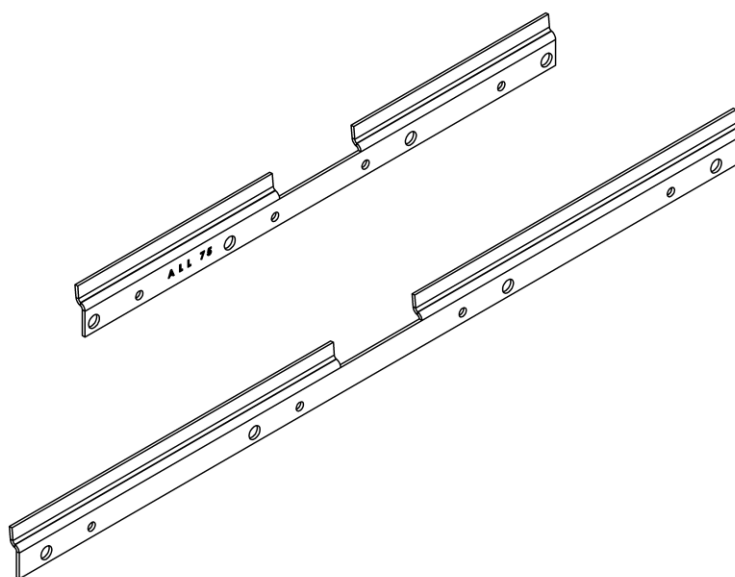


Figure 23: Stand Alone Bracket Drawings



NOTE: For Standalone units with decorative base please refer to Installation Instructions for Decorative Base manuals (FR/TS), provided with units with the decorative bases.



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