

Installation, Operation and Owner's Manual

Summum 190

Direct Vent Gas Fireplaces

DANGER

HOT GLASS WILL CAUSE BURNS. DO NOT TOUCH GLASS UNTIL COOLED. NEVER ALLOW CHILDREN TO TOUCH GLASS.



Une surface vitrée chaude peut causer des brûlures. Laisser refroidir la surface vitrée avant d'y toucher. Ne permettez jamais á un enfant

de toucher la surface vitrée.

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

Une barrière conçu pour réduire le risque de brûlure par le verre de visualisation chaude est fournie avec cet appareil et doit être installé pour la protection des enfants et autres personnes à risque.

WARNING: AVERTISSEMENT: FIRE OR EXPLOSION HAZARD INCENDIE OU D'EXPLOSION Le non-respect des avertissements de sécurité à la Failure to follow safety warnings exactly could result in serious injury, death, or property damage. lettre pourrait entraîner de graves blessures , la mort ou des dommages matériels. Ne pas entreposer ni utilizer d'essence ni d'autres vapeurs - Do not store or use gasoline or other flammable ou liquides inflammables dans le voisinage de cet appareil vapors and liquids in the vicinity of this or any ou de tout autre appareil. other appliance. QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ - WHAT TO DO IF YOU SMELL GAS · Ne pas tenter d'allumer d'appareil. • Do not try to light any appliance. • Ne touchez á aucan interrupteur. Ne pas vous servir des • Do not touch any electrical switch; do not téléphones se trouvant dans le bátiment ou vous trouvez. use any phone in your building. • Quitter immédiatement le bâtiment. · Leave the building immediately. Appelez immédiatment votre fournisseur de gaz depuis · Immediately call your gas supplier from a un voisin. Suivez les instructions du fournisseur. neighbor's phone. Follow the gas supplier's • Si vous ne pouvez rejoindre le fournisseur de gaz appelez le service des incindies. instructions. - Installation et l'entretien doivent être effectués par un · If you cannot reach your gas supplier, call installateur qualifié, une agence de service ou le fournisseur the fire department. de gaz. Installation and service must be performed by a qualified installer, service agency or the gas supplier. INSTALLER: Leave this manual with the appliance. INSTALLATEUR: Laissez cette notice avec l'appareil. CONSUMER: Retain this manual for future reference. CONSOMMATEUR: Conservez cette notice pour consultation ultérieure. March 2024

ntertek

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1 DECLARATION OF PERFORMANCE

We hereby declare that the design and construction of the Element4 gas appliances are complying to the essential demands and regulations for gas products.

Product:

• Direct vent gas fireplace, local spaceheater

Model:

E4-31

- Summum 190 F
- Summum 190 CL
- Summum 190 CR
- Summum 190 3S

Applicable guidelines and norms:

- ANSI Z21.11.50a-2008
- CAN/CGA 2.17 M91
- CSA2.22a-2008 "Vented Gas Fireplaces"

This declaration loses its validity when changes to the device are made without the written permission of Element4. You can ask for a copy of the test certificates of all models via our general e-mail address, which is found on the back of this manual.

J. Kempers CEO

2 IMPORTANT INFORMATION

Installer

Leave the following for the customer and explain when necessary

- User manual
- Installation manual
- Instruction card decoration media
- Suction cups
- Remote control

Owner

Keep this manual for future reference

The fireplace may only be installed by a qualified installer/dealer, following these installation instructions. We advise you to read these instructions properly, before commencing the installation of your device. Make yourself fully aware of all the following instructions and the many features of your Element4 direct vent gas fireplace appliance.

Before installation check the device for transport damage and inform your supplier immediatly if damage is found.

This appliance is a vented gas fireplace. It must not be used for any other purposes such as drying clothes, etc.

2.1 Fuel type

This device is designed to be used with natural gas or LPG. The device can only be used with the type of gas specified on the data plate at the time of purchase. This unit is not for use with solid fuels.

The gas type and pressure should check out with those locally available. The data plate is mounted to the device. Make sure it is accessible at all times. See **CHAPTER 13** for more elaborate specifications on your fireplace.

2.2 Installation

This direct vent system appliance must be installed as an OEM installation in manufactured homes (USA only) or an aftermarket permanently located, or a mobile home, where not prohibited by local codes and must be installed in accordance with Manufacturer's instructions and the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, in the United States, or the Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series, in Canada.

These direct vent appliances must be electrically grounded in accordance with the local codes or, in the absence of local codes, with National Electric code, ANSI/NFPA 70, or the Canadian Electric Code, CSA C22.1. More in the electronics and gas parts of the fireplace in **CHAPTER 4** and **CHAPTER 15** of this manual.

If your installation is at an elevation greater than 2000' in the US or 4500' in Canada, consult with the local authority having jurisdiction for gas product installations to determine their specific requirements for high altitude installations.

2.3 Other information

The heat that is coming from the device may effect the materials in its surroundings. Always install the fire taking into account to correct the safety distances. For more information see **CHAPTER 7.2.**

The device may never be used without the glass or when glass is broken. The flue gases can get into the fireplace chase. The settings and construction of the device must not be changed! For maintenance and further handling of the fire see **CHAPTER**

11.2 and CHAPTER 11.3

The device is provided with a special set of decorative media. Do not place any extra imitation logs or decoration media on the burner or in the combustion chamber. See **CHAPTER 12** for an instruction on how to arrange the decoration media properly.

2.4 Packaging materials

The packaging of the device is recyclable. The following packaging materials may have been used:

- Cardboard
- CFC-free foam (soft)
- Wood
- Plastic
- Paper

These materials must be disposed of in a responsible manner and in accordance with government regulations.

Batteries are regarded as chemical waste. The batteries must be disposed of in a responsible manner and in accordance with government regulations. Remove the batteries first before discarding the remote control.

The government can also provide information about the responsible disposal of discarded appliances.

3 SAFETY INFORMATION AND WARNINGS

If the information in these instructions is not followed exactly a fire or explosion may result causing property damage, personal injury or death.

Note: This device may not be used a primary heat source!

Do not use this appliance as a temporary source of heat during construction.

3.4.1 Replacement or spare parts

Parts are only to be changed with original parts by the original manufacturer.

If parts need to be replaced , use only original parts from the manufacturer. The warranty (APPENDIX ${\bf F})$ will be void if non-standard parts re used.

Dimensions will appear as Inches / metric throughout this manual. For convenience, the inches are rounded to the nearest 1/16" when converted. If greater accuracy is required, use the metric dimensions.

3.4.2 Children and pets

Radiant heat can heat surfaces such as the surround and trims of the fireplace to temperatures that, although approved safe, can be quite uncomfortable to touch - particularly for children and pets.

Children and pets should always be supervised when in the room where the appliance is located. Remote control handset should be kept out of reach of children.

In the presence of children, we strongly recommend that you install in front of the fireplace: a fire screen or, to protect young toddlers, a "hearth gate".

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

3.4.3 Flammable materials and liquids

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

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the unit and to replace any part of the control system and any gas control that has been under water.

3.4.4 What do you do if you smell gas?

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Leave the building immediately.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

WARNING

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

WARNING

This direct vent system appliance must be installed as an OEM installation in manufactured homes (USA only) or an aftermarket permanently located, or a mobile home, **where not prohibited by local codes** and must be installed in accordance with Manufacturer's instructions and the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, in the United States, or the Standard for Installation in Mobile Homes, CAN/CSA Z240 MH Series, in Canada.

If the information in these instructions is not followed exactly a fire or explosion may result causing property damage, personal injury or death.

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

WARNING: Installation and Service

Installation and service must be performed by an authorized qualified installer, service agency or gas supplier.

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

ONLY a qualified person may open the door/remove the glass.

Do not modify or substitute any part of this appliance.

WARNING: Electrical Grounding

These direct vent appliances must be electrically grounded in accordance with the local codes or, in the absence of local codes, with National Electric code, ANSI/NFPA 70, or the Canadian Electric Code, CSA C22.1

WARNING: Gas Appliance

This appliance is only for use 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.

WARNING: Glass Handling

The glass must only be removed by a qualified person. Gloves should be worn when removing the glass.

Applicable standards are ANSI Z21.50/CSA 2.22 (Vented Gas Fireplaces) and CAN/CGA 2.17-M91 (Gas-fired Appliances for Use at High Altitudes.) If your installation is at an elevation greater than 2000' in the US or 4500' in Canada, consult with the local authority having jurisdiction for gas product installations to determine their specific requirements for high altitude installations.

This gas fireplace and vent assembly MUST be vented directly to the outside and MUST NEVER be attached to a chimney serving a separate solid fuel burning appliance. Each gas appliance MUST BE a separate vent system. Common vent systems are prohibited.	TURN OFF the gas before servicing the appliance. It is recommended that a qualified service technician perform an appliance check-up/service once a year.
	Any safety screen or guard removed for servicing MUST BE REPLACED before operating this appliance.
This unit MUST be used with a vent system as described in this installation manual. NO OTHER VENT SYSTEM OR COMPONENTS MAY BE USED.	THIS UNIT IS NOT FOR USE WITH SOLID FUEL, and must only
	be used with gas supply conditions as indicated on the rating label.
INSPECT the external vent cap on a regular basis to make sure that no debris, plants, trees, or shrubs are interfering with the air flow.	
	DO NOT USE this appliance if any part has been under water. Immediately call a qualified service technician to inspect the unit and to replace any part of the control system and any gas control that has been under water.
This appliance is for indoor use only.	control that has been under water.
NEVER OBSTRUCT the flow of ventilation air. Keep the front	DO NOT use this appliance as a temporary source of heat
of the appliance CLEAR of all obstacles and materials for	during construction.
of the appliance CLEAR of all obstacles and materials for servicing and proper operation.	during construction. This appliance is a vented gas fireplace. It must not be used for any other purposes such as drying clothes, etc.
	This appliance is a vented gas fireplace. It must not be used for
	This appliance is a vented gas fireplace. It must not be used for
servicing and proper operation. The glass panels MUST be in place and sealed before the unit can be placed into safe operation. DO NOT OPERATE this appliance with the glass panels removed, cracked or broken. Replacement of the glass panels	This appliance is a vented gas fireplace. It must not be used for any other purposes such as drying clothes, etc. If the pilot flame is extinguished either intentionally or unintentionally, no attempt should be made to re-light the gas
servicing and proper operation. The glass panels MUST be in place and sealed before the unit can be placed into safe operation. DO NOT OPERATE this appliance with the glass panels	This appliance is a vented gas fireplace. It must not be used for any other purposes such as drying clothes, etc. If the pilot flame is extinguished either intentionally or unintentionally, no attempt should be made to re-light the gas
servicing and proper operation. The glass panels MUST be in place and sealed before the unit can be placed into safe operation. DO NOT OPERATE this appliance with the glass panels removed, cracked or broken. Replacement of the glass panels should be performed by a licensed or qualified service person.	This appliance is a vented gas fireplace. It must not be used for any other purposes such as drying clothes, etc. If the pilot flame is extinguished either intentionally or unintentionally, no attempt should be made to re-light the gas until at least 3 minutes have elapsed. Dimensions will appear as INCHES"/metric throughout this manual. For convenience, the inches are rounded to the

7

4 THE CONTROLS

The control system for the Element4 fireplaces consist of three major components:

- the receiver (*Figure 4.1*)
- the remote (*Figure 4.2*)
- the gas valve (*Figure 4.3*)

The remote is the remote control by which you operate the fireplace. The receiver and the gas control are at one end of a line set which will extend approximately 50"/1270 mm from the center of the fireplace. The other end of the line set is connected to the firebox just left of center.

As shipped, the line set is wrapped together and fixed either under or beside the fireplace. When installing the fire carefully cut the black tie wraps which hold the line set to the bottom of the fireplace then carefully unwrap the line set. Lay the line set out towards the location of an access point.

Do not kink the lineset and do not bend to a radius of less than 2"/50 mm.

Pro tip: Always check the line set for loose connection plugs or broken cables, while it has not been built in.

A wall access door (not supplied) should be placed with your fireplace. When locating a wall access you must consider three types of access:

- 1. Line set access. The line set is to be unwrapped which allows the controls to be then placed within approximately 50"/1270 mm from the center of the fireplace, as the cable runs (*Figure 4.4*).
- 2. Physical access. The gas valve/receiver must be readily accessible for maintenance, etc.
- 3. Wireless access. The signals from the remote must get to the receiver, inside the access door. Do not put your line set in a closed off box, the signals from the receiver will not connect with the hand set remote possibly disrupting the connection.
- 4. Minimum size should be 10" (254mm) x 13" (300mm).
- 5. If the access door is the only fresh air inlet it should have a minimum air inlet area of 15 sq.in (100mm2)

The wall access may be replaced by a comparable design which offers the same access to the line setat the

4.1 Electronic ignition

The unit is operated using a remote control (*Figure 4.2*) or the Element4 Puck, connected to a receiver (*Figure 4.1*).

The receiver is powered by 4 pen lite (type AA) batteries or a 6V adapter; 2 penlight batteries (type AAA) are used for the remote control. The life of the batteries is about a year with normal use.



Figure 4.1 - Receiver



4.1.1 Pairing the remote

Figure 4.2 - Remote Control

Press the reset button on the receiver until you hear two beeps. After the second longer signal, let go of the reset button (*Figure 4.1*).

Within 20 seconds, press the down arrow on the remote control until see a count of 1 through 9 on the display. Two beeps will confirm communication with the receiver.

If you hear one long beep, this indicates the pairing sequence has failed or the wiring is incorrect. Re-pair the remote. See **APPENDIX B** for troubleshooting a long beep.

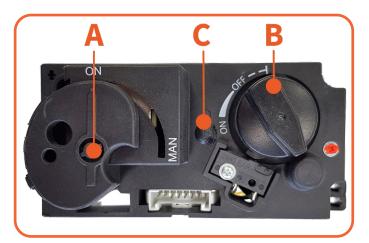


Figure 4.3 - Gas Block

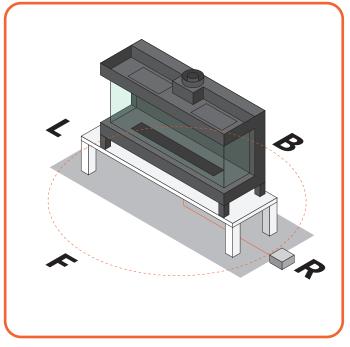


Figure 4.4 - Lineset access



Figure 4.5 - Remote and ignition sign

4.1.2 Igniting the pilot light

Check that the control knob (A) is in the ON position (*Figure 4.3*). Press the button on/off button of your remote control and continue to hold down (3 to 5 sec.) until you hear two short beeps.

The ignition sign will appear at the top of the screen (*Figure 4.5*) Now release the button. The ignition procedure is started.

Note! If the pilot light doesn't remain lit after 3 attempts you must turn off the gas tap and warn your installer.

4.1.3 Igniting the main burner

After starting the pilot, knob B will automatically rotate counter clockwise and the main burner will start burning (*Figure 4.3*).

Note! For normal operation the knob on the gas valve cannot be in the MAN position; it must be fully in the ON position.

Note! The pilot light must ignite the main burner, evenly and without a thud If it does thud, close the gas tap and warn your installer.

If the 2nd thermocouple is not properly heated within 29 seconds the fire will shut itself off as a safety precaution.

So long as the 2nd thermocouple is still hot enough to produce electricity to the receiver, thus preventing the fireplace from starting, the remote will flash "OFF" to signal this safety lock out.

Allow time for the 2nd thermocouple to cool down before attem pting a start. The system is ready to start when the flashing "OFF" becomes solid on the remote and pressing the ON/OFF button produces a response from the valve. Always wait 5 minutes after turning the pilot light off before you start the pilot flame again.

4.1.4 Adjusting the burner pressure

In the case that a fireplace has the incorrect burner pressure, one may adjust this by removing the little black cap (C in *Figure 4.3*) and turn the small screw underneath.

Always consult the installer / manufacturer of the fireplace, before making adjustments. Not doing so may result in loss of warranty.

4.1.5 Switching off the fireplace

You switch off the fireplace by pressing the on/off button, this also turns off the pilot light!



5 GAS INSTALLATION

The device is developed, tested and approved to conform the applicable standards for the usage, the performance and safety of the product. The installation of your device must apply to the current building prescriptions.

We advise to make use of a qualified gas installer for the installation of your device. The installer can provide you with all information regarding the safety regulations of the installation.

This appliance is only for use 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.

5.1 Attention points gas fireplace

This device can be place in a new or existing situation. The device can be installed in a fully enclosed or mechanically ventilated room without extra ventilation.

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.

5.2 Attention points gas connection

The gas connection should apply to the local norms in force. Applicable standards are ANSI Z21.50/CSA 2.22 (Vented Gas Fireplaces) and CAN/CGA 2.17-M91 (Gas-fired Appliances for Use at High Altitudes.)

If your installation is at an elevation greater than 2000 feet (600 meter) in the US or 4500 feet (1370 meter) in Canada, consult with the local authority having jurisdiction for gas product installations to determine their specific requirements for high altitude installations. Calculate the diamater of the gas flue, such that no pressure loss is occuring in the pipes. Place a shut-off valve in the near vicinity of the device. Position the gas connection, such that it is always accessible for service purposes.

Before construction of the enclosure, carefully cut the black tie wraps which hold the line set to the bottom of the fireplace. Then carefully unwrap the line set. Lay the line set out towards the location of the access door. Do not kink the lineset and do not bend to a radius of less than 2"/ 50 mm. Make sure that the line set is always accessible for service purposes.

5.3 Checking the gas lines

To be able to check on the gas lines, it is necessary to have the right equipment. If necessary take out the glass of the device and use the measuring point (see *Figure 15.4*), to check the supply pressure on the gas pipes.

A = Supply pressureB = Burner pressure

Make sure the cables of the ignition are hanging loosely under the device, to ensure a good ignition. Remove any tie wraps or other cable binders.

Check the pilot and second thermocouple for obstructions and check the air tightness of the system.

Ensure that the lineset (which includes the gas valve, electrical wiring and gas lines) does not impede the full operation of the relief doors.

Ensure the safety of these critical components throughout the installation process. Remove and dispose of all wraps and ties.

5.4 Installing the gas line

In accordance with the latest edition of the National Fuel Gas Code, NFPA 54 (USA) or CAN/CSA-B149.1 (Canada,) correctly size and route the gas supply line from the supply regulator to the area where the appliance is to be installed.

Never use galvanized or plastic pipe unless it is rated for use with gas. Gas supply pipes must be designed, routed, constructed and made of materials that are in strict accordance with local codes and regulations. A qualified plumber or gas fitter should be hired to correctly size and route the gas supply line to the appliance in accordance with all applicable codes and regulations.

Installing a gas supply line from the fuel supply to the appliance involves numerous considerations of materials, protection, sizing, locations, controls, pressure, sediment trap, and other criteria. The sizing and/or installing of gas piping should only be performed by a qualified plumber or gasfitter.

The gas control inlet accepts a 3/8" (9,525 mm) NPT fitting. The gas supply piping should have a separate gas shutoff valve and a capped, 1/8" (0,375mm) pipe tapping upstream of the valve for the purpose of reading pressure. A service shutoff valve must be placed within six feet of the fireplace gas control valve.

The gas supply pressure at the gas control valve must not exceed the Maximum Supply Pressure as shown in the Specifications and Dimensions section of this manual.

The gas supply line must be properly connected and bled by a certified gasfitter or plumber.

Do not modify or substitute any part of this appliance.

The appliance and its main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa). The appliance must be isolated from the gas supply piping system by closing its equipment shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).



6 FIRE SAFE INSTALLATION

To install a gas fireplace as safely as possible, several installation preparations need to be made. This overview can be used to assure the fire safety of a conversion of a fireplace.

IMPORTANT!

It is important to follow the next installation regulations carefully. When the (local) regulations are insufficient- or not provided with the aspects of fire safety, the instructions according to ANSI Z21.50/CSA 2.22 (Vented Gas Fireplaces) and CAN/CGA 2.17-M91 (Gas-fired Appliances for Use at High Altitudes) are leading.

6.1 Fire safety device set-up

Install the device such that there are no flammable materials around the device or enclosure. The device must never be placed against a back wall of combustible materials.

Please note: Combustible materials are considered all materials capable of igniting and burning. Any material that is made of, or faced with wood, wood pulp, paper, plastic or any other material that can catch fire and burn is considered combustible.

Flammable materials, such as wood, can combust at a temperature of 185° F (85° C). At high temperatures this can happen within several minutes or at lower temperatures (more than 185° F (85° C)) this may occur over a period of weeks, months or even years.

A gas fireplace can achieve temperatures of over 392°F (200°C) Therefore one should use only non-combustible materials around the fireplace and in the enclosure.

Even materials that have been 'flame-proofed', made 'fireresistant' or are 'fire-rated' are considered combustible. Standard and Type X drywall are combustible.

A material is non-combustible when it cannot catch fire and burn / smolder. For example, materials made of stone, brick, concrete, tile, steel, plaster or glass are non-combustible.

6.2 Place of installation

The base surface upon which the appliance rests must be sturdy, level and built to safely support at least 800 pounds (363 kilograms).

It is recommended that the fireplace be set in its final location before building the enclosure.

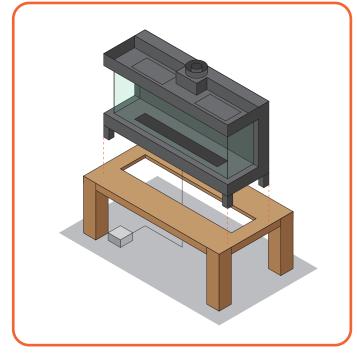


Figure 6.1 - Place of installation

6.2.1 Platform

The base may be the floor or a purpose built raised platform, e.g. wood, metal

Figure 6.1. The minimum length of the fireplace legs is $4^{1/16}$ (103.5mm).

When placed on a platform, a minimum opening of 8" (203 mm) x 6" (152 mm) must be cut through the platform top. The maximum opening size is 23" 5/8 (600mm) x 8" (203 mm). The lineset (gas block etc.) can be routed through this opening. The platform should allow air to flow upwards past the fireplace.

6.2.2 Pre-construction test

Before the enclosure is constructed around the fireplace, it is recommended to do a test of the fireplace with all proper venting material installed.

Should anything be out of order, it can be repaired or changed, without having to break out (part of) the enclosure.

For more information on venting and a first firing of the product see **CHAPTER 8** and **CHAPTER 14.**

6.3 Temperature

Fireplaces cause heat and this heat will escape in three ways from its source, namely via conduction (i.e heat release via solid matter), convection (heat release via air) and radiant heat (*Figure 6.2*). In this section the three types of heat are elaborated upon to ensure proper installation precautions are taken into account.

6.3.1 Radiant heat

When the fireplace is turned on, radiant heat will escape through the ceramic glass and will heat up the environment. Therefore it is important that a minimal distance between the ceramic glass and any flammable material in front of the fireplace is 36 inches (90cm).

For fireplaces radiant heat is the pleasant warmth commonly associated with fire. The heat felt is mainly radiated from the glass.

CAUTION

This appliance is a HEATING appliance and it does become very hot in operation. UNDER ANY CIRCUMSTANCES, DO NOT PLACE any object, furniture, draperies or other item LESS THAN 36" (90 cm) IN FRONT OF THE GLASS OF THE FIREPLACE.

Radiant heat can heat surfaces such as the surround and trims of the fireplace to temperatures that, although approved safe, can be quite uncomfortable to touch - particularly for children and pets. Children and pets should always be supervised when in the room where the appliance is located.

The remote control handset should be kept out of reach of children.

6.3.2 Conduction

Conduction is the transfer of heat through solid material. This causes the material to heat up and expel heat.

WARNING

The entire exterior of the product, visible or invisible, once installed and built in, will conduct heat. Therefore no parts of the fireplace should be in direct contact with combustible materials.

E.g a screw that is used to secure the brackets of the fireplace could pierce a non-combustible material and touch the flammable material underneath. The heat bridge that is then created can (over time) cause the flammable material to burn. Most of the heat however is conducted through all the parts of the fireplace that are inside the enclosure, which then warms up the air as convection heat.

PLEASE NOTE: The materials of the fireplace expand due to conduction heat. Therefore it is not allowed to bear any weight on the fireplace, including any part of the enclosure!

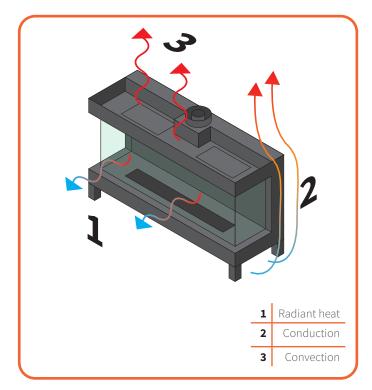


Figure 6.2 - Types of heat

Enclosure support

Any support of the enclosure, other than the platform under the fireplace (**CHAPTER 8.2**), must be at least 2 inches (5cm) away from any part of the firebox. The frames around the fireplace take into account this distance. Non-combustible materials may be installed to a zero clearance to the outer faces of the appliance outer frame face, given they not cover or prevent the removal of the glass panels or other parts of the fireplace that need to be removed during maintenance.

The entire weight of the walls must be borne by a structure other than the fireplace.

WARNING

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

6.3.3 Convection

The majority of the heat produced by Element4 fireplaces is quickly given off to the air around the fireplace. Convection is this transfer of heat through air.

Because most of the fireplace is installed inside of the construction of a enclosure, most of the air surrounding the fireplace and therefore the air being warmed up, is located inside the enclosure. Therefore several precautions need to be taken into account, which will be explained in **CHAPTER 8**.

6.4 Assembly regulations

6.4.1 Protection of wall and ceiling

There are two kinds of walls/ceilings that can be distinguished, respectively;

1. Combustible surfaces

Walls/ceilings that are made of – or contain flammable building materials, and all walls on which flammable objects (e.g. built-in furniture or wooden panels) are mounted on the side of the wall that is turned away from the fireplace.

2. Non-combustible surfaces

Walls/ceilings made of mineral building materials (concrete, bricks, sandstone etcetera.) of more than 4inches (10cm) thickness.

6.4.2 Floor protection

The temperature of the floor under the device needs be less than $185^{\circ}F$ ($85^{\circ}C$). A minimal distance of 4 inches (10cm) is to be taken into account under the fireplace.

Make sure there is a good air ventilation in the enclosure (see **CHAPTER 7**). The temperature that leaves through the ventilation grilles must not be higher than 185°F (85°C). Therefore one should always make sure there are enough ventilation grilles in the upper and lower parts of the enclosure.

No material of any kind is allowed between the bottom of the support feet and the bottom of the firebox (except for the lineset).

6.4.3 Assembly regulations with non-combustible materials (*Figure 6.3*)

Load-bearing walls and ceilings must be covered in a protective fire resistant plate.

The minimal distance between the device and non-flammable materials must be at 2 inches (50 mm) to ensure a convection air flow.

For the best result the finished wall(s) must be at least 0,5 inch (12,5mm) thick. This thickness corresponds with the flanges on the frame of the fireplace, which allows the finish of the wall to be properly covered by the trims of the fireplace.

6.4.4 Assembly regulations for combustible materials (*Figure 6.4*)

The minimum distance of the exterior surface (either the back or the non-glass sides) of your fireplace to a combustible wall is 11 inches (280mm), when no protection of said wall is used.

However, it is possible to reduce this clearance by using a shielding wall.

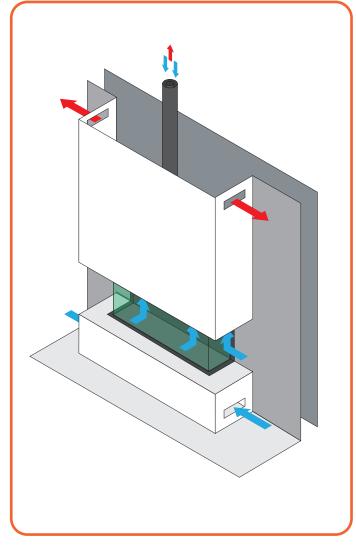


Figure 6.3 - Non combustible material enclosure

Shielding walls

To reduce the clearance between a combustible wall and your fireplace a heat shield of non-combustible material may be used. See *Figure 6.5* for an isometric overview.

- Cover the walls/ceilings with a non-combustable plate at the reduced clearance of 1 inch (2,5cm)
- Keep the fireplace away from the heat shield by a minimum of 2 inches (50mm).
- A wall heat shield must not be placed closer than 1 inch (25mm) from the floor or any intersection walls. Air must be able to continually circulate around all side of the shielding.

WARNING

Make sure that the heat shield is not attached to the combustible wall by screws or nails. Due to their conductivity these metals can cause problems such as a central heat bridge.

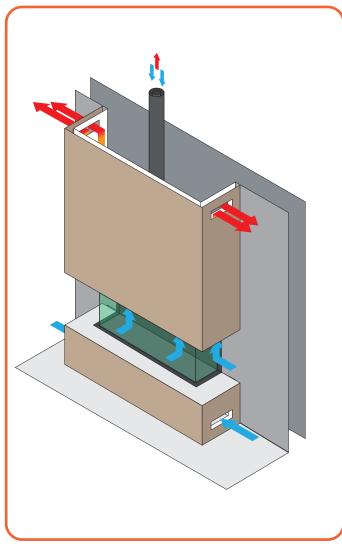


Figure 6.4 - Combustible material enclosure

6.4.5 Approved non-combustible materials

The following materials are approved to use for the construction of the enclosure

Product	Thickness	;	
Brand	Туре	Imperial	Metric
Skamol	SkamoEnclosure SkamoStove	1.5 Inch	37.5 mm
Promat	PROMAFOUR system	0.5 inch	12.5mm
James Hardie building products	Hardiebacker 500 1/2" cement board	0.5 inch	12.5mm
	Hardiebacker 1/4"cement board	0.25 inch	6.25 mm
			Table 6.1

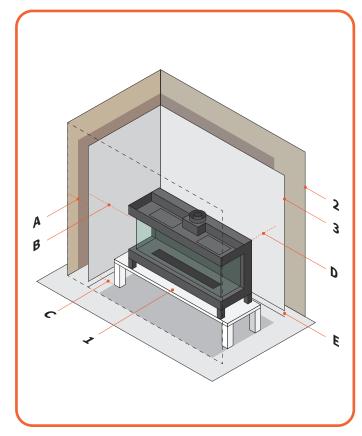


Figure 6.5 - Shielding the enclosure

1	Raised platform
2	Exterior combustible wall
3	Protective non combusta ble wall
Α	1 inch / 25 mm gap
В	2 inches / 50 mm gap
с	2 inches / 50 mm gap
D	1 inch / 25 mm gap
Е	1 inch / 25 mm gap
	Table 6.2

6.4.6 Fresh Air inlet Area by Model

The amount of surface necessary for the fresh air coming into the chase for the fires as per table below.

Model	Square Inches	Square Centimeters
Summum 190 F	15	100
Summum 190 C	15	100
Summum 190 3S	15	100

Table 6.3



7 ENCLOSING THE FIREPLACE

7.1 Hot air outlets and ventilation grilles

As stated in **CHAPTER 6.3.3** the air in the enclosure will be heated by the fireplace. Hot air expands and will rise up. If the proper ventilation of the enclosure is not taken into account, this may cause cracking of the enclosure exterior or heat problems in the long run.

To properly ventilate the enclosure the correct precautions have to be made.

The most commom option is the use of combustion air outlets placed in the top and bottom of the enclosure. These outlets are slots through which air can flow freely.

The ventilation grilles are to be placed at a minimal distance of 1 foot (30cm) from the ceiling and 1 foot (30cm) from any built-in furniture from the side, any flammable material or load-bearing concrete parts.

Pro tip: To avoid heat accumulation in the enclosure a nonflammable false ceiling (see *Figure 7.2*) is to be placed directly above the outlets to guide the hot air out. The ventilation grilles need to be easy to clean at all times.

Please note

If a hot air outlet is placed closer to the ceiling than the aforementioned distances, the sudden change in temperature of the surrounding air, when exiting the enclosure, may cause the solid particles in the convection air to settle on the ceiling, causing a black or brown soot stain. It however, will not be of influence on the air flow in the enclosure.

Another option is to create e.g. a recess in the wall near the ceiling, so air can flow out of enclosure. Both options are shown in *Figure 7.1.*

An installer is free to choose the design of the ventilation openings as long as the prescribed amount of air is taken into account. Ventilation grilles may deviate from standard model.

7.1.1 Electrical pipes

The conversion has to be free of the usual electric installation pipes, if these are not protected against temperatures over 86°F (30°C) by the necessary precautions. Special pipelines with an heightened heat resistance are permitted.

7.1.2 Cold climate installation

For cold climate installations, it is especially important to insulate outside the chase cavity, between studs and under the floor on which appliance rests, if floor is above ground level. Gas line holes and other openings should be filled with approved firestop.

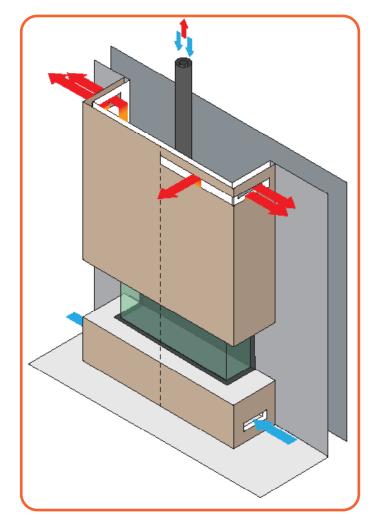


Figure 7.1 - Convection opening in the enclosure top

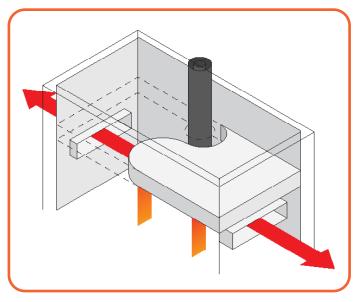


Figure 7.2 - False chimney in the enclosure

If the fireplace is being installed on a cement slab in cold climates, a sheet of plywood or a raised platform can be placed underneath to prevent cold transferring to the fireplace and into the room. It also helps to tape the venting for maximum air tightness and to caulk the firestops.

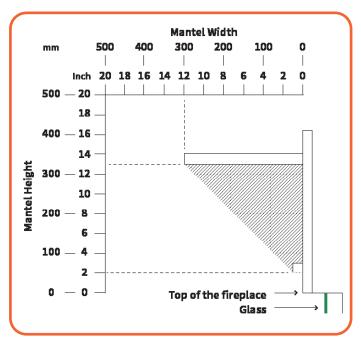


Figure 7.3 - Mantel dimensions above the fireplace

7.2 Clearances (overview)

In summary; the minimum clearances (air spaces) to combustible materials must be maintained. It is of the greatest importance that the fireplace and vent system be installed only in accordance with these instructions.

Clearance to combustibles	Inches	Millimeters
Back	11	280
Sides (Non glass)	11	280
Тор	26	660
Floor	4	100

Tabl	e	7.	1

Clearance to non-combustibles	Inches	Millimeters
Back	2	50
Sides (Non glass)	2	50
Тор	26	660
Floor	4	100
		Table 7.2

Please note:

The **Floor** dimension above is measured from the bottom of the firebox. When the adjustable feet are in their lowest position the required 4" clearance is achieved.

7.3 Decorating the enclosure

Although the main task of the enclosure is to house the fireplace, it is not solely used for that purpose. When properly executed there are many possibilities with the decoration of the enclosure, two of which are elaborated upon below.

7.3.1 Mantels

Often a mantel is installed above the fireplace, for the classic look and to put decorations on.

Figure 7.3 shows a range of allowable depths and heights for a combustible mantel installation.

As shown, the minimum allowable mantel height above the fireplace opening is 2" (50 mm) with a 1" (25 mm) deep mantel. The maximum mantel depth is 12" (300 mm) at a minimum height above the fireplace opening of 13" (330 mm). All of the mantel height/depth combinations fall in between these extremes in accordance with the chart on this page.

Mantels made of non-combustible material are allowed inside these dimensions but they will be subjected to elevated temperatures and may become too hot to touch.

7.3.2 Televisions

An Element4 fireplace is a perfect furniture piece to connect with a TV, once the necessary precautions are taken. A TV may be placed above the fireplace as long as the hot air cannot influence its functioning.

A wall recess is a good option to accomplish the installation. For more info contact your local dealer.

7.4 Fire specific dimensions

Every fireplace has specific distances for which the right precautions need to be taken into account (*Figure 7.4* and *Table 7.3*).

7.4.1 Minimal chimney dimensions

	Α	н	W	D
II	12	72	78 %16	19 11⁄16
mm	300	1830	1996	500
"	12	72	78 %16	19 11⁄16
mm	300	1830	1996	500
н	12	72	79	19 ¹ 1⁄16
mm	300	1830	2006	500
-	mm " mm	" 12 mm 300 " 12 mm 300 " 12	" 12 72 mm 300 1830 " 12 72 mm 300 1830 " 12 72 mm 300 1830	Indext Indext Indext " 12 72 78 % 6 mm 300 1830 1996 " 12 72 78 % 6 mm 300 1830 1996 " 12 72 78 % 6 mm 12 72 78 % 6 " 12 72 79

Α	Room ceiling to top of Warm Air Outlet
H1	Minimal internal enclosure height
H2	Minimal room ceiling to appliance bottom
W	Minimal enclosure width necessary
D	Minimal enclosure depth necessary

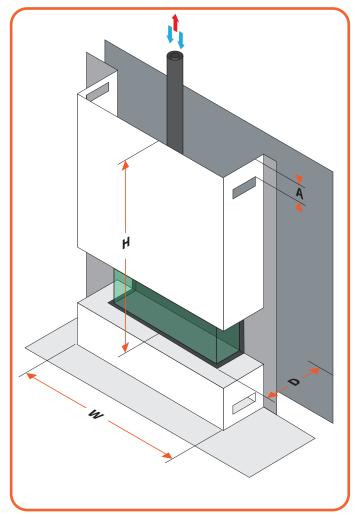


Figure 7.4 - Specific distances

7.4.2 Warm Air Outlet Area by Model

The amount of surface necessary for the hot convections air to flow away properly for the fires as per table below.

Model	Square Inches	Square Centimeters
Summum 190 F	50	322
Summum 190 C	50	322
Summum 190 3S	50	322
		Tuble 7 4

Table 7.4

7.4.3 Fresh Air inlet Area by Model

The amount of surface necessary for the fresh air coming into the chase for the fires as per table below.

Model	Square Inches	Square Centimeters
Summum 190 F	15	100
Summum 190 C	15	100
Summum 190 3S	15	100

Table 7.5

7.4.4 Line set access (see Figure 7.6)

	Front (F)		Left (L)		Right (R)		Back (B)	
	(")	(mm)	(")	(mm)	(")	(mm)	(")	(mm)
Summum 190 F	54	1372	32	813	32	813	54	1372
Summum 190 C	54	1372	32	813	32	813	54	1372
Summum 190 3S	54	1372	32	813	32	813	54	1372



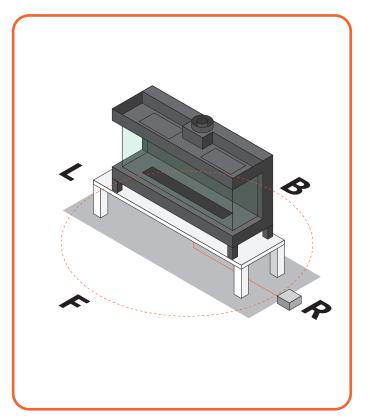


Figure 7.5 - Line set access



8 CALCULATION TABLE VENT GAS REDUCTION

The calculation table shows when you need to place a vent ristrictor.

Result Action

\checkmark	N
R	Po
Х	N

No ristrictor required
Position the resitrictor
New second supervisions and supervisions

No good operation guaranteed *

8.1 Horizontal terminal

Imperial

Total vertical Section

36'	R	R	R	R		V	V	V
33'	R	R	R			v	V	V
30'	R	R	R			v	V	V
27'	R	R	R	R		v	V	V
24'	R	R	R	R		v	V	V
21'	R	R	R	R		v	V	V
18'	R	R	R	R		v	V	V
15'	R	R	R			v	V	V
13'6"	R	R	R	R	V	v	V	V
12'	R	R	R	R	V	V	V	V
10'6"	R				V	V	V	Х
9'	V	v	V	V	V	v	Х	Х
7'6"	v	V	V	V	V	х	Х	Х
6'	V	v	V	V	Х	Х	Х	Х
4'6"	v	V	V	Х	Х	х	Х	Х
3'	v	V	Х	Х	Х	х	Х	Х
20"	х	V	Х	Х	Х	х	Х	Х
	20"	3'	4'6"	6'	7'6"	9'	10'6"	12'

Total Horizontal Section

Metric

Total vertical Section

10 m 9 m 8 m 7 m 6 m 5 m 4 m 3,5 m 3 m 2,5 m Х 2 m Х Х Х Х Х 1,5 m х х х Х **1** m 0,5 m Х Х Х Х Х Х 0 m 0,5 m **1** m 1,5 m 2,5 m 3 m 2 m

Total Horizontal Section

* Perhaps the powerfan is a good solution here.



8.2 Vertical termination vent diameter

For a vertical termination the minimal starting length is **20 inches (or 0,5 meter)** before the first elbow and the minimal vertical section is **3 feet (or 1 meter).**

Note:

When the vent is **exclusively vertical**, it may be **reduced** to a **diameter 4"/6" (or 150/100mm)** pipe, given the **Total Vertical Length** is a **minimum of 7 feet (or 2 meters).** In this case you do not have to use a restriction plate.

Imperial

72'	V	V	V	х	Х	Х	Х	Х	Х	Х
69'	R	R	V	v	Х	Х	Х	Х	Х	Х
66'	R	R	R	R	v	V	Х	Х	Х	Х
63'	R	R	R	R	R	R	v	V	х	Х
60'	R	R	R	R	R	R	V	v	V	V
57'	R	R	R	R	R	R	V	V	V	V
54'	R	R	R	R	R	R	V	V	V	V
51'	R	R	R	R	R	R	V	V	V	V
48'	R	R	R	R	R	R	V	V	V	V
45'	R	R	R	R	R	R	V	V	V	V
42'	R	R	R	R	R	R	V	V	V	V
39'	R	R	R	R	R	R	V	V	V	V
36'	R	R	R	R	R	R	V	V	V	V
33'	R	R	R	R	R	R	v	v	V	V
30'	R	R	R	R	R	R	v	v	V	V
27'	R	R	R	R	R	R	V	v	V	V
24'	R	R	R	R	R	R	V	V	V	V
21'	R	R	R	R	R	R	v	v	V	V
18'	R	R	R	R	R	R	V	V	V	V
15'	R	R	R	R	R	R	V	V	V	V
13'6"	R	R	R	R	R	R	v	v	V	V
12'	R	R	R	R	R	R	V	v	V	Х
10'6"	R	R	R	R	R	R	V	V	Х	Х
9'	V	V	V	V	v	V	V	Х	Х	Х
7'6"	V	V	V	V	v	V	Х	Х	Х	Х
6'	V	V	V	V	v	Х	Х	Х	Х	Х
4'6"	V	V	V	v	Х	Х	Х	Х	Х	Х
3'	V	V	V	Х	Х	Х	Х	Х	Х	Х
	0	20"	3'	4'6"	6'	7'6"	9'	10'6"	12'	13'6"

Total Horizontal Section

Metric

Total vertical Section

22 m	V	Х	Х	Х	Х	Х	Х	Х	Х							
21 m	R	R	V	Х	Х	Х	Х	Х	Х							
20 m	R	R	R	R	V	Х	Х	Х	Х							
19 m	R	R	R	R	R	R	V	Х	Х							
18 m	R	R	R	R	R	R	V	V	V							
17 m	R	R	R	R	R	R	v	V	v							
16 m	R	R	R	R	R	R	V	V	V							
15 m	R	R	R	R	R	R	V	V	V							
14 m	R	R	R	R	R	R	V	V	V							
13 m	R	R	R	R	R	R	V	V	V							
12 m	R	R	R	R	R	R	V	V	V							
11 m	R	R	R	R	R	R	v	V	V							
10 m	R	R	R	R	R	R	V	V	V							
9 m	R	R	R	R	R	R	V	V	V							
8 m	R	R	R	R	R	R	V	V	V							
7 m	R	R	R	R	R	R	V	V	Х							
6 m	R	R	R	R	R	R	V	V	Х							
5 m	R	R	R	R	R	R	V	V	Х							
4 m	R	R	R	R	R	R	V	Х	Х							
3,5 m	R	R	R	R	R	R	V	Х	Х							
3 m	V	V	V	V	V	V	v	Х	Х							
2,5 m	V	V	V	V	V	V	Х	Х	Х							
2 m	V	V	V	V	V	Х	Х	Х	Х							
1,5 m	V	V	V	V	Х	Х	Х	Х	Х							
1 m	V	V	V	Х	Х	Х	Х	Х	Х							
·	0 m	0,5 m	1 m	1,5 m	2 m	2,5 m	3 m	3,5 m	4 m							
				Tota	l Horizontal Se	ction			Total Horizontal Section							

21

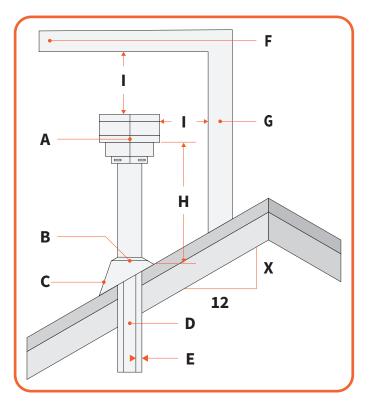


Figure 9.1 - Vertical Vent Termination Clearances

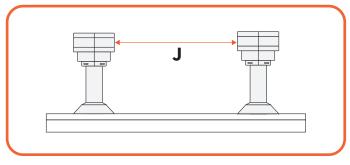


Figure 9.2 - Multiple termination clearance

9 VENT TERMINATIONS

9.1 Vertical Terminations - clearances and requirements (Figure 10.1 & Figure 10.2)

Important Note for Roof Terminations

These instructions should be used as a guideline and do not supersede local codes in any way. Install venting according to local codes, these instructions, the current National Fuel Gas Code (ANSI Z223.1 in the USA) or the current standard of CAN/ CSA-B149.1 in Canada.

Description

- **A** Vent termination
- **B** Storm Collar
- **C** Flashing
- **D** Concentric vent pipe
- **E** Minimum clearance to combustibles 1 inch (2.5 cm)
- **F** Horizontal overhang
- **G** Vertical wall
- **H** Minimum height froom roof to lowest discharge opening of vent
- I Minimum distance between terminal and vertical wall / horizontal overhang = 2 feet (60 cm)
- J Minimum distance between two roof terminations 12 inches (30 cm)

9.1.1 Termination height for vents above flat or sloped roofs (Ref. NFPA 54 / ANSI Z 223.1)

The vent / air intake termination clearances above the high side of an angled roof (\mathbf{H} in the table above) is as shown in the following chart:

Roof Pitch (X)	Imperial (Feet)	Metric (meters)
Flat to 6/12	1.00	0.30
6/12 to 7/12	1.25	0.38
7/12 to 8/12	1.50	0.46
8/12 to 9/12	2.00	0.61
9/12 to 10/12	2.50	0.76
10/12 to 11/12	3.25	0.99
11/12 to 12/12	4.00	1.22
12/12 to 14/12	5.00	1.52
14/12 to 16/12	6.00	1.83
16/12 to 18/12	7.00	2.13
18/12 to 20/12	7.50	2.29
20/12 to 21/12	8.00	2.44

Table 9.1



9.2 Horizontal terminations - clearances and requirements

Figure 10.3, *Figure 10.4* and the table below show a range of distances, that need to be taken into account for the installation of fireplaces with a horizontal vent termination.

		US INSTALLATION**	CANADA INSTALLATION*
		Imperial (Metric)	Imperial (Metric)
Α	Clearance above grade, veranda, porch, deck or balcony	• 12 inches* (30 cm)	• 12 inches* (30 cm)
В	Clearance to window or door that may be opened	 6 inches (15 cm) for appliances <10k BTUh (3 kWh) 9 inches / 22.5 kWH for appliances 10k < X <50k BTUh (3< X <15 kWh) 12 inches (30 cm) for appliances > 50k BTUh (15 kWH) ** 	 6 inches (15 cm) for appliances <10.000 BTUh(3 kWH) 12 inches (30 cm) for appliances >10.000 BTUh(3kWh)
С	Clearance to permanently closed window (Recommended to prevent window condensation).	• 9 inches (22.5 cm)	• 12 inches (30 cm)
D	Vertical clearance to ventilated soffit located above the termination	• 18 inches (45 cm) horizontally from the center line of the termination	• 18 inches (45 cm) horizontally from the center line of the termination
Е	Clearance to unventilated soffit	• 12 inches (30 cm)	• 12 inches (30 cm)
F	Min. clearance to outside corner	• 5 inches (12.5 cm)	• 5 inches (12.5 cm)
G	Min. clearance to inside corner	• 6 inches (15 cm) – SV 4.5 HT-2	• 6 inches (15 cm) – SV 4.5 HT-2
Η	Clearance to each inside of center line extended above meter / regulator assembly	 3 feet (90 cm) within a height of 15 feet (4.5 m) above the meter /regulator assembly * 	 3 feet (90 cm) within a height of 15 feet (4.5 m) above the meter /regulator assembly *
I	Clearance to service regulator vent outlet	• 3 feet (90 cm) **	• 3 feet (90 cm) *
J	Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance.	 6 inches (15 cm) for appliances <10k BTUh (3 kWh) 9 inches / 22.5 kWH for appliances 10k < X <50k BTUh (3< X <15 kWh) 12 inches (30 cm) for appliances > 50k BTUh (15 kWH) ** 	 6 inches (15 cm) for appliances <10.000 BTUh(3 kWH) 12 inches (30 cm) for appliances >10.000 BTUh(3kWh)
К	Clearance to a mechanical air supply inlet.	 3 feet (90 cm) above if within 10 feet (3m) horizontally ** 	• 6 feet (1.8 m)*
L	Clearance above paved sidewalk or paved diveway located on public property.	• 7 feet (2.1 m) ³	• 7 feet (2.1 m) ³
М	Clearance under veranda porch, deck or balcony	• 12 inches (30 cm) ³	• 12 inches (30 cm) ⁴
Ν	Depth of alcove (Maximum)	• 6 feet (1.8 m)**	• 6 feet (1.8 m)**
0	Clearance to termination (alcove)	• 6 inches (15 cm)**	• 6 inches (15 cm)**
Ρ	Width of alcove (Minimum)	• 3 feet (90 cm)*	• 3 feet (90 cm)*
Q	Clearance to combustible above (Alcove)	• 18 inches (45 cm)**	• 18 inches (45 cm)**
R	Top and bottom clearance from air inlet	• 3 feet (90 cm)	• 3 feet (90 cm)
S	Side clearance from air inlet	• 9 inches (22.5 cm)	• 9 inches (22.5 cm)
т	Side distance from ventilated soffit	• 6 inches (15 cm)	• 6 inches (15 cm)

Table 9.2

¹ In accordance with the current CSA-B149.1 National Gas and propane installation code.

² In accordance with the current ANSI SZ223.1/NFPA 54 National fuel gas codes.

³ A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.

⁴ Only permitted if veranda, porch, deck or balcony is fully open on a minimum 2 sides beneath the floor.



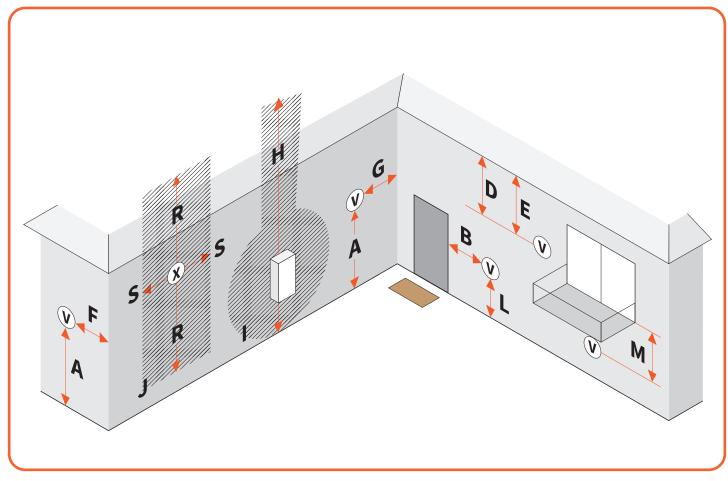
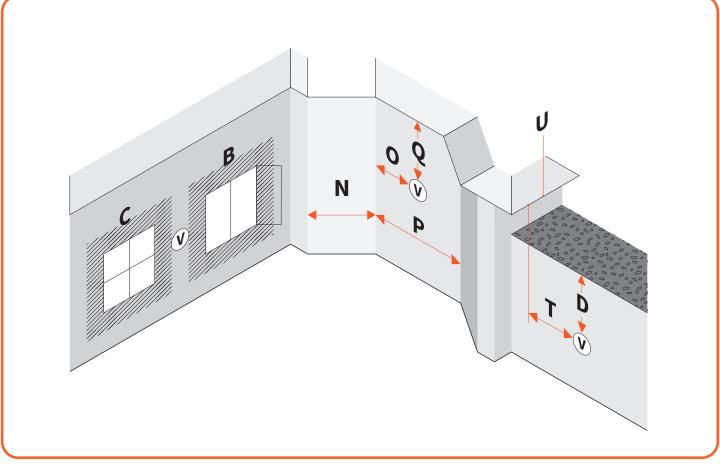


Figure 9.3 - horizontal vent termination I



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Figure 9.4 - Horizontal vent termination II

10 MAINTENANCE INSTRUCTION

This part of the manual focuses on the maintenance of your fireplace.

Please note It is recommended that you have the appliance inspected annually by a recognized installer, service agency or gas supplier to ensure safe use and a long service life.

TURN OFF THE GAS BEFORE SERVICING THE APPLIANCE.

10.1 Maintenance in the combustion chamber

During maintenance the glass windows of the fire need to be removed. To do this follow the following steps:

10.1.1 Disassembly of the safety screen

One of the safety features of the fireplace is the safety screen covering the windows. Any safety screen or guard that is removed for servicing must be replaced before operating the fireplace.

The safety screens are disassembled as by following the next steps

- Remove the safety screen(s) from their holders. The safety screens are held by magnets (*Figure 11.3*).
- Remove the lower magnet tabs from between the bottom trim and the front windows (*Figure 11.2* and *Figure 11.4*)
- Remove the upper magnet tabs from the back of the frame, so the are not in the way when removing the window.

To reassemble the safety screens reverse the steps. Make sure the lower tabs are secured properly between the window and trim.

Safety screens parts

	S-tabs	U-tabs	Magnets	Long Screens	Short Screens
Summum 190 F	5	2	7	1	0
Summum 190 C	10	0	11	1	1
Summum 190 3S	13	0	15	1	2

Table 10.1

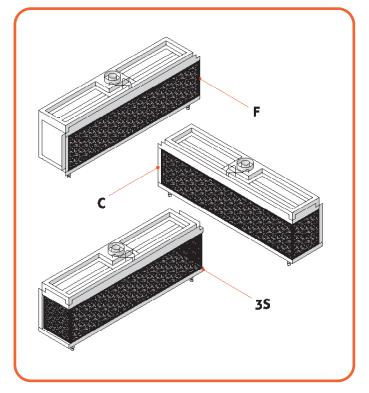


Figure 10.1 - Isometric Illustration

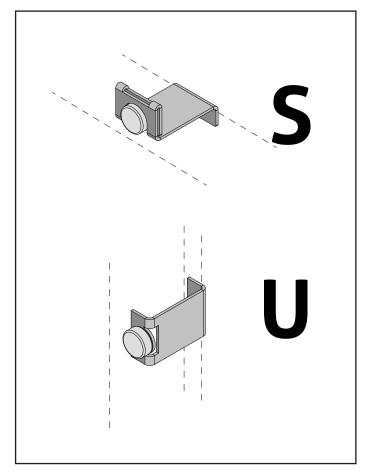


Figure 10.2 - S and U tabs

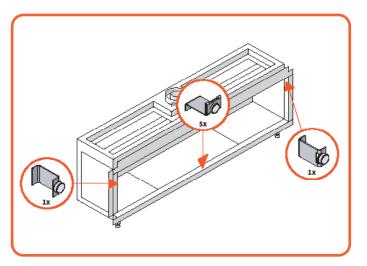


Figure 10.3 - Summum 190 F - location of tabs

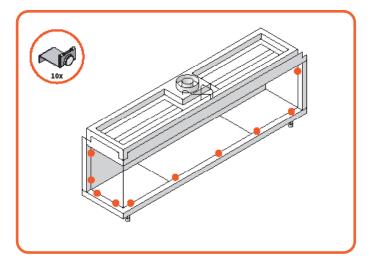


Figure 10.5 - Summum 190 C - location of tabs

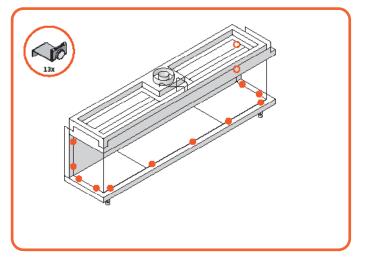


Figure 10.7 - Summum 190 3S - location of tabs

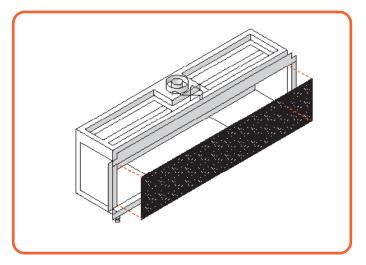


Figure 10.4 - Place safety screen

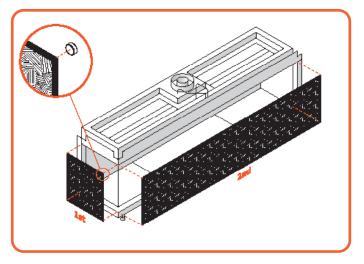


Figure 10.6 - Summum 190 C - Place extra magnet in top corner of safety screen

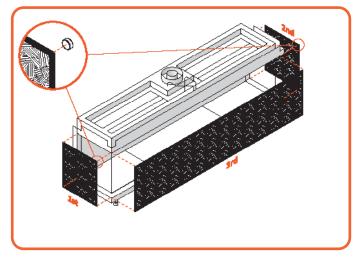


Figure 10.8 - Summum 190 3S - Place two extra magnets in top corners of safety screens



10.1.2 (Dis)assembly of the trims

For a tight finish of the fireplace, trims are provided. During maintenance these trims must be removed, before the glass can be removed. Please follow these steps:

Disassemble

• Remove both the side trims and bottom trim. They are held by magnets, *Figure 10.9, Figure 10.10* & *Figure 10.11*.

Assembly:

• Put the trims back in reversed order.

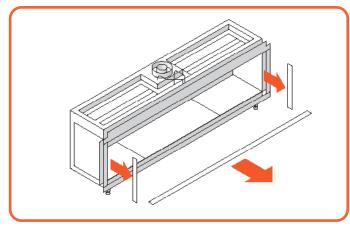


Figure 10.9 - Summum 190 F - Remove trims

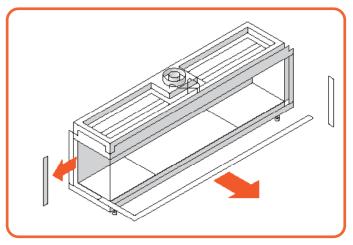


Figure 10.10 - Summum 190 C - Remove trims

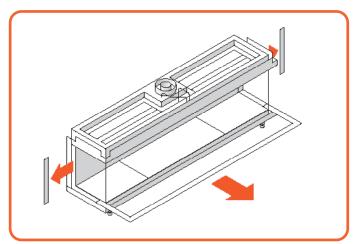


Figure 10.11 - Summum 190 3S - Remove trims

10.1.3 Remove glass

To be able to clean the glass on the inside, one needs to remove the glass.

Warning

The glass must be handled by a qualified person. As a safety precaution gloves should be worn when removing the glass.

To remove the glass follow these steps:

- Check, whether the trims are removed in as in **Chapter 10.1.2**.
- Put the suction cup on the glass and make sure it is properly vaccuumed, so it will not come off. Use two suction cups for the large front glass. (See *Figure 10.12*)
- Loosen the glass clamps at the top and bottom side.
- Carefully lift the glass out of the lower glass rail and tilt it out through the opening, as seen in *Figure 10.13*.

Note: Put the glass in a safe place when it is not in use to ensure it doesn't get damaged during maintenance. Detach the suction cup after removal to avoid leaving a mark on the glass.

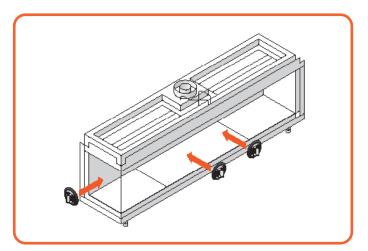


Figure 10.12 - Apply suction cups

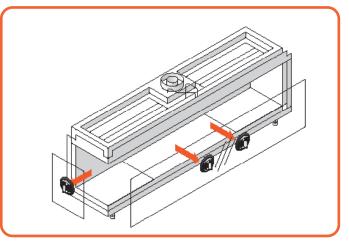


Figure 10.13 - Carefully remove the glass

10.2 Glass Maintenance

10.2.1 Ceramic glass

Burning natural gas (NG) or propane (LP) in this fireplace will always result in some of the gas components being deposited on the glass. Hydrogen sulfides and mercaptans, which are present in the burning gas, condense onto the relatively cooler glass surface and cause white film to build up over time.

The amount of this white film is influenced by a number of factors such as;

- the configuration of the system venting
- thermal efficiency of the fireplace design
- the humidity of combustion air
- frequency of fireplace use
- burner performance
- the fireplace design itself.

Do not use normal (usually ammonia-based) household glass cleaners to clean the glass as these cleaners can leave a permanent stain. Only a gas fireplace glass cleaner should be used. The following products are recommended and proven suitable for use:

Brand	Product
Forrest Technical Coatings	Stove Bright® Gas Appliance Glass Cleaner
Imperial Manufacturing Group	Imperial Gas Fireplace Glass Cleaner
A.W. Perkins Co.	GFC™ Gas Fireplace Glass Cleaner

The fireplace glass should be cleaned before the fireplace is first lit and then after the fireplace has been through its four hour burn-in cycle. This will reduce potential build up on your glass.

Keep in mind the following instructions when cleaning glass:

- Always clean the glass at room temperature. Do not clean the glass when it is hot!
- Use cleaning supplies qualified by Element4 or the product stated above.
- When you clean your Anti-Reflective glass (see the next section), make sure you use this with the special Element4 cleaner, which is available only via Element4.
- Use only a microfibre cloth. Other materials such as kitchen towels, steel wool etcetera can cause scratches or damage the coating on the glass.
- Should there occur stains on the glass, remove them regularly, for they can burn the glass.
- If the glass becomes coated with deposits which cannot be removed the glass must be replaced.

10.2.2 Anti-Reflective glass (Additional rules for)

Anti-reflective glass for the gas fireplaces consists of polished ceramic glass on which metal oxide coating layers have been applied. The thickness of the coating is checked down to the nanometer to perfectly control the reflection level. The reflectance level of untreated glass is on average 8%, while an anti-reflective glass provides a reflection of only 0.7%. Thanks to the new coating technology, anti-reflective glass is completely invisible when approached straight ahead. This gives the gas fireplace a super realistic fireplace effect. In this way you use all the advantages of a gas fire, while the atmosphere and warmth nevertheless match the fireplace.

For anti-reflective windows it is of great importance to observe certain maintenance instructions. In order not to damage the coating layers, the use of hard (sanding) sponges, abrasives and cleaning agents with ammonia is prohibited. Only use a neutral cleaning product (neither acidic nor alkaline), such as Element4 window cleaner (Item No. 4500926). The cleaning agents that you normally use should therefore not be used with an anti-reflective glass. Use a soft cloth or sponge (not paper).

Just as with ordinary ceramic glass, the white haze that results from the first combustion must be removed with anti-reflective glass. After that, sporadic maintenance is sufficient. Always rub the window completely dry. Residual water can stain the coating. Fingerprints are more visible on anti-reflective glass, therefore wear (rubber) gloves when grasping the window. If the window is lifted with a suction cup, the rubber of the suction cup must be dry to avoid damage to the coating.

10.2.3 Optional black glass installation

As an option for the fires of Element4, a black glass interior is available. To install these glass panels follow the next steps:

- 1. Remove fireplace trim and exterior glass following instructions shown previously in the manual.
- 2. Remove fire media from hearth tray so as it is not in the way.
- 3. Using provided suction cups, remove side panels from unit by lifting up and then swinging out the bottom of the panel first then once it is cleared from the bottom channel it should slide out enough to remove it. If you have a Sky Front the same step is for the back panel of the unit.
- 4. Replace the removed panels with the black glass panels by inserting the top of the panel in the channel first and then rotating the panel upright to bring the bottom of the panel into the bottom channel. Do this with both side panels and then the back panel if you have a Sky Front unit.
- 5. Replace the fire media on the hearth tray
- 6. Replace the glass and fireplace trim.

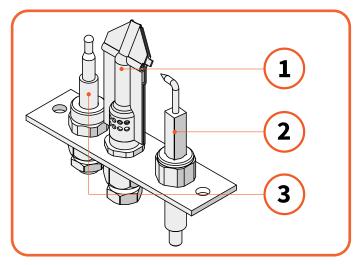


Figure 10.14 - Isometric drawing of the pilot set

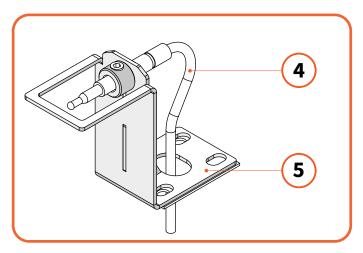


Figure 10.15 - Isometric drawing of second thermocouple

10.3 Burner Maintenance

For the maintenance of the burner different parts can be distinguished, all mentioned below. See *Figure 11.14* and *Figure 11.15* and *Table 11.2* for more info.

#	Part
1	Pilot flame
2	Ignitor Rod
3	Primary Thermocouple
4	Second Thermocouple
5	Thermocouple mount
	•

Table 10.2

10.3.1 Burners

The flames from the burners should be visually checked. The flame should have a small blue base and be bright yellow. Too orange flames indicate too little oxygen. Flames that are too blue have too much oxygen. The oxygen in the primary air can be adjusted slightly at the venturi throttles, but this should not be necessary.

Maintenance of the burner should also be unnecessary. If this is the case, check the burner pressure at the inlet to the burner. The instructions of changing the burner pressure and the correct pressure per gastype can be found in **CHAPTER 13.1**.

10.3.2 Pilot

The pilot flame must be visually checked. The pilot flame must always be present when the appliance is in operation and should appear as shown in *Figure 11.14.*

The pilot has two distinct flames, one engulfing the thermocouple on its left, the other reaching across to the burner.

The area around the pilot should be inspected for cleanliness. Lint or foreign material must be removed with a brush or vacuum.

10.3.3 Thermocouples

The Element4 fireplaces have two thermocouples; one next to the pilot and one opposite the pilot side of the burner. The completeness and operation of both must be checked. A qualified installer must confirm that both thermocouples are in place and undamaged. While checking the pilot set, please ensure that the ignitor rod is not cracked as well.

11 INSTALLING THE FIRE MEDIA

This appliance is equipped with a ceramic fire bed with heat resistant ceramic fibers. Excessive exposure to this material may cause irritation to the eyes, skin and respitory tract. It is therefore recommended that the dust emission is reduced as much as possible when handling these materials.

Only the decorative media supplied with this appliance are to be used. The ceramics must be laid only as shown in this chapter. Replacement parts are available from your dealer, but should only be installed by a qualified installation engineer.

Position the decoration media as shown on the images in this chapter.

Make sure that the pilot flame area and the second thermocouple are always free of any decorative material to make certain that the fire will ignite without problems.

Not doing so may cause a delayed ignition!



Figure 11.1 - Log set for the Summum 190

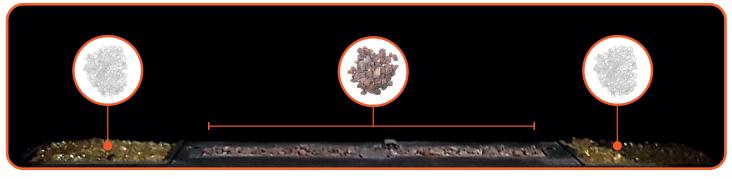


Figure 11.2 - Prepare by placing glass on LED's and lava stones on main burner

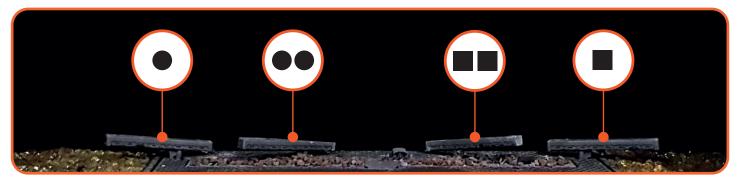


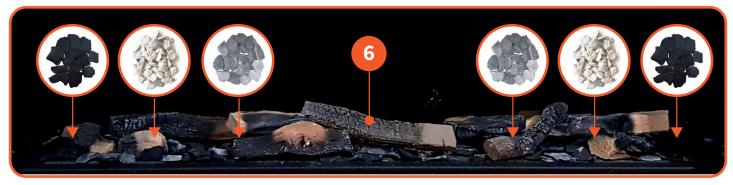
Figure 11.4 - Place log burners as shown



Figure 11.3 - Place logs 3, 5, 8 and 10 on log burners



Figure 11.5 - Place logs 1, 2,4,7,9,11 and 12 as shown



31

Figure 11.6 - Place decorative material on the burner grate. Be careful to not to cover any safety features.

12 TECHNICAL DATA

This product was tested and listed to ANSI Z21.11.50a-2008 and CSA2.22a-2008 "Vented Gas Fireplaces" by Intertek Group (Figure 13.1).

A sample listing label image is shown above. A metal listing label is attached to every Element4 fireplace and contains important certification information e.g. it specifies for which type of gas, gas pressure and for which country this appliance is intended. The nameplate is attached to a chain.

The listing label must not be removed from the fireplace.

Note: Check whether the appliance is suitable for the gas type and gas pressure on site.

12.1 Gas specifications

Model

Sky LRD, MRD, SRD

Model				
Gas		Natural Gas Propan		
Input Maximum	Btu/hr	81,341	80,544	
Input Minimum	Btu/hr	20,463	19,955	
Inlet Pressure	in. w.c.	7	11	
inter Pressure	kpa	1.74	2.73	
	in. w.c.	6	10,5	
Manifold Pressure	kpa	1.49	2,61	
Main Burner Injector Size		320 (x3) 280 (2x)	140 (x4) 120 (x1)	
Pilot Injector Size		32.2	27.1	
New Efficiency		90%	<u>.</u>	

12.2 Electric Specification

AC ADAPTER SPECIFICATIONS

Input Voltage	120V AC
Input Power	9 W
Output Voltage	6V DC
Output Current	500 mA
Size	3.1"H x 2"W x 1.7"D
Output Cord Length	6 Feet
Agency Approvals	UL, CSA

DO NOT REMOVE LABEL NE PAS RETIRER CE LABEL nufacturer/Eabricant

nds / Les Pavs-Bas Tel / Tél : +31 38 4209020 ELEMENT

Intertek

Element4 B.V. imon Stevinweg 6A NL-8013 NB Zwolle

VENTED GAS FIREPLACE - Not for use with solid fuel.

Ven to use intervale - not for use with solid tele. This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured home (USA only) or mobile home where not prohibited by local codes. See owner's manual for details. This appliance is not convertible for use with other gases, unless a certified kits used. For use only with vent, Glass Panels and Ceramic Logs (or stones) certified and approved for use with this appliance. This appliance must be installed in accordance with local codes, if any, if none, follow NASI 2223.1/NFRA 54, or CSA B149.1. The appliance must be installed by system in accordance with the manufacturer's installation instructions. The system must be installed by a qualified installing agency.

FOYER AU GAZ À ÉVACUATION - Ne pas utiliser avec un combustible solide

Cat apparell set destiné uniquement avec le type des un ionizatione sonce Cat apparell est destiné uniquement avec le type des indiqués un la plaque signalétique et peut être installé dans une habitation en dur, à emplacement fixe (USA uniquement) ou dans une résidence mobile si la législation locale l'autorise. Consultez le manuel du propriétaire pour les détails. Cet apparell en doit pas être modifié pour une utilisation avec d'autres gaz, sauf à l'aide d'un kit certifié. À utiliser uniquement avec des ventilations, panneaux en verre pourres (ou plerres) en cérnanique dont l'utilisation est autorisés avec et apparell. Cet apparell en tre installé conformément à la législation locale. À défaut d'une telle législation, suivre ANSI 2223.1/NFPA 54, ou CSA B149.1. L'appareil doit être proprement raccordé à un système de ventilation, conformément aux instructions d'installation du fabricant. Le système doit être installé comparise finant des sets me des sets des se

Control No.: 4006611	Fuel Type / Type de combustible	Natural Gas	Propane Gas	Clearances to com	bustible	/
Conforms to / Conforme à:		Gaz naturel	Gaz Propane	Dégagements aux	combus	tibles :
ANSI Z21.50 - Vented Gas Fireplace	Max. Input / Capacité d'entrée maxi (BTU/HR)	81341	80544	Back / Arrière :	11 ″	28 cm
Certified to / Certifié à:	Min. Input / Capacité d'entrée mini (BTU/HR)	20463	19955	Top / Haut :	26 ″	66 cm
CSA 2.22 - Vented Gas Fireplace	Gas Inlet Pressure ("WC) / Pression d'entrée du gaz (po WC)	7	11	Mantel / Linteau :	2 ″	5 cr
CAN/CGA 2.17 - M91	Manifold Pressure ("WC) / Pression d'admission (po WC) up to / jusqu'à 2000ft/610m	6	10,5	Sides / Côtés :	11 ″	28 ci
	Manifold Pressure ("WC) / Pression d'admission (po WC) up to / jusqu'à 4500ft/1370m	4	8	Floor / Sol :	4 ″	10 ci
	Orifice Size / Taille de l'ouverture	3x360,2x280	4x160, 1x140			
Product name / Nom du produit						
Summum 190 F Summum 190 CR	Equipped only for altitudes / Équipé uniquement pour les altitudes : 0-4500 ft / 0-1370 m					
Summum 190 CL Summum 190 3S						
	Serial No. / N° de série:					

Figure 12.1 - Example of the data plate

13 OPERATING THE FIREPLACE

13.1 Before the first fire

- 1. Make certain that all construction materials have been removed from inside and around the fireplace and the fireplace has been cleaned of any construction dust. Clean the glass BEFORE and AFTER the first fire.
- 2. Confirm that the gas valve is properly connected and bled by a certified gas technician or plumber.
- 3. Check the gas supply for leaks and proper pressure. Refer to the table in "Appliance Ratings" section.
- 4. Check that the venting is unobstructed and in proper working condition.
- 5. Clean the glass panels on both sides.
- 6. Properly place, clamp and seal the glass panels.
- 7. Ensure the receiver is powered with an AC Adapter OR Batteries, but not both!

Place the two (2) AAA batteries into the remote control and confirm that it will communicate with the receiver by pressing the ON/OFF button. Pair the remote and receiver (see **CHAPTER 4.1.1**).

13.2 The first fire

When the fireplace is first heated, an odor may be given off by the hot metal. This is normal and is a result of the 'burn off' of the lubricants and sealants used when manufacturing the fireplace.

It is recommended that you open the nearby windows for extra ventilation and then operate the fireplace for at least four hours.

Because a fireplace is a heat source, natural convection will occur around it. Solid particles in the circulating air may burn and settle down on cold surfaces, causing discoloration. Discoloration is an annoying problem and it is difficult to solve.

These particles can come from construction moisture or cigarette smoke, but also they might be volatile components in paint, construction materials or carpeting. For newly constructed chimneys or after a big reconstruction, it is advised to wait a minimum of six weeks before firing a fireplace. After this burn-off period, turn off the fireplace and let it cool completely to room temperature and once again clean both sides of the glass and the interior panels as described in **CHAPTER 11.2**.

When the glass is cold, some condensation may appear on the glass after lighting the fireplace. This is normal and the condensation will disappear as the glass warms.

To ensure as little condensation as possible, the fireplace will start on just the main burner. During the first minute of firing this will ensure your fireplace to evaporate the condensation on the glass and heat up the air in the combustion chamber.

Please note During the first minute of firing i.e. the initial start up sequence of lighting the pilot flame and the first 30 seconds until the second thermocouple has given its clear, it is not possible to use the 'double plus'-button to switch between burners.

During this first fire, examine the flame for appearance and quality. Examine the burner media for sooting. Flames may appear blue and will turn yellow after 15 to 20 minutes.

Since it is a metal fireplace, the heat-up and cool-down cycles may produce some noises caused by the expansion and contraction of these metals. The premium materials and build quality of your fireplace will keep these sounds to a minimum.

13.3 The first fire - testing

As a continuation of the previous chapter, prior to being placed into (daily) operation, the fireplace should be test-fired in stages to ensure that all components are in good working order.

This fireplace has a 2nd thermocouple which senses the burner flame. The system will turn itself off if the system does not sense the 2nd thermocouple output within 29 seconds after the valve opens.

If 2nd thermocouple is still hot enough to produce electricity at the receiver thus preventing the fireplace from starting, the remote will flash "OFF" to signal this safety lock out. Allow time for the 2nd thermocouple to cool down before attempting a start. The system is ready to start when the flashing "OFF" becomes solid on the remote and pressing the ON/OFF button produces a response from the valve.

- 1. Start the fireplace with the hearth panel out and with the front glass off. Ensure that the pilot flame both heats the primary thermocouple and lights the burner. For safety, a post-purge delay is built into the system. Subsequent start attempts MUST NOT take place for at least thirty (30) seconds.
- 2. Start the fireplace with the hearth panel in place and with all of the glass panels fixed correctly in place. Ensure that the main burner flames engulf the 2nd thermocouple and the fireplace stays lit for at least 1 full minute. If the system turns itself off after 29 seconds install the required media (next section) and return here. Installing the fire media will help with the flame around the 2nd thermocouple. Subsequent start attempts MUST NOT take place for at least five (5) minutes.
- 3. Start the fireplace with the media installed. If the system turns itself off after 29 seconds, rearrange the media to produce a good flame at the 2nd thermocouple. This step may have to be repeated several times before the media is in the best place for consistent operation. A single, long beep indicates that the 2nd thermocouple is still too hot to start the ignition sequence. Allow time for the 2nd thermocouple to cool down. Once the system stays lit for at least one full minute, turn the fireplace off, fix the glass panels in place and operate the fireplace for at least 45 minutes to ensure the system works properly when heated.

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

14 ELECTRONICS

14.1 Electrical requirements

The Element 4 fireplaces use a receiver and remote control for their burner operation. The remote control comes with two AAA batteries and the receiver is powered by a 120V AC adapter, included. The fireplace MUST be powered by the AC adapter for improved reliability and customer satisfaction.

The installer must provide an approved 120V AC receptacle to be placed within the six foot cord limit of the AC adapter.

The receiver MUST be powered by the AC adapter. Four (4) AA batteries may be used only for on-demand electrical requirement during a power outage. Remove batteries after use to avoid battery corrosion. Battery corrosion will damage the receiver.

Warning

Electrical work must be performed by a qualified, licensed electrician. All wiring shall be in compliance with all local, city, and state codes.

14.1.1 Electrical grounding

These direct vent appliances must be electrically grounded in acoordance with the local codes or, in the absence of local codes, with National Electric Code, ANSI/NFPA 70 or the Canadian Electric Code, CSA C22.1.

14.2 (Replacement) parts

Figure 15.1 shows a simplified connection circuit for the fireplace.

#	Description	#	Description
(1)	Gas Valve	(8)	Quad burner Module
(2)	Receiver	(9)	LED Module
(3)	Main Burner	(10)	12V Adapter
(4)	Second Burner	(11)	LED panels
(5)	Third Burner	(12)	WiFi box (optional)
(6)	Pilot assembly		
(7)	2 nd Thermocouple		
(8)	Quad Burner Module		
(9)	Led Module		

Table 14.1

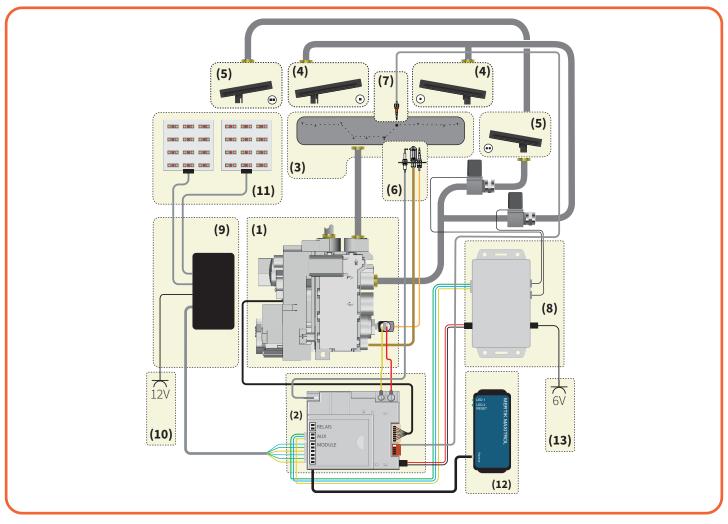


Figure 14.1 - Schematic Electronic Circuit

14.3 Remote control

The following pages contain detailed instructions about the functions of the 10 button remote.

Software Version

Press $\ensuremath{\widehat{\mathbb{S}}}$ and $\ensuremath{\widehat{\mathbb{A}}}$ buttons simultaneously. Software version is displayed.

Remote Model Number

Press (2) and (2) buttons simultaneously. Remote model number is displayed.

14.3.1 Activating/Deactivating Functions

The following functions can be disabled on the remote:

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

If a deactivated button is pressed, there is no function, and two horizontal bars are displayed. Deactivation remains in effect after change of batteries.

To Deactivate a function:

- 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.

To Activate a function:

- 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.

14.3.2 Automatic Turndown.

In Manual/Temperature/Timer modes, the valve will turn to pilot flame if there is no change in flame height for a six hour period. In Temperature or Timer mode, if the ambient room temperature changes, the flame height will adjust automatically to maintain set temperature and the fire will continue to function normally. The valve will turn to pilot flame if the set temperature and the ambient room temperature remain the same over a six hour period.

2. The valve turns to pilot flame if the temperature in the receiver is higher than 140°F/60°C. The burners comes back on only when the temperature is below 140°F/60°C.

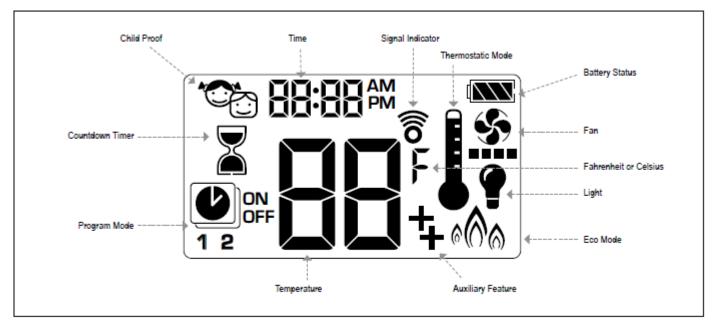
14.3.3 Automatic Shut Off.

1. With low battery power in the receiver, the system shuts off the fire completely. This does not happen if the power supply is interrupted.

2. The system shuts off the fire completely if there is no change in flame height for 5 days.

3. The system shuts off the fire if the main burner does not completely ignite approximately 29 seconds after ignition or after pushing the **()** button.

10 BUTTON REMOTE CONTROL



SETTING FAHRENHEIT or CELSIUS



To change between °C and °F, press (b) and (c) buttons simultaneously.

NOTE: Choosing °F results in a 12 hour clock. Choosing °C results in a 24 hour clock.

CHILD PROOF



ON:

To activate press (and vertical buttons simultaneously. The displayed and the handset is rendered inoperable, except for the off function.

OFF:

To deactivate press (and) buttons simultaneously.

SETTING the TIME



- Press A and buttons simultaneously. Day flashes.
- Press (▲) or (♥) button to select a number to correspond with the day of the week (e.g. 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 5=Saturday, 5=Sunday)
- day, 6 = Saturday, 1= Sunday).
 Press A and buttons simultaneously. Hour flashes.
- 4. To select hour press (a) or (b) button.
- 5. Press (and () buttons simultaneously. Minutes flash.
- To select minutes press

 or

 button.
- To confirm press (A) and (V) buttons simultaneously or wait.

MANUAL MODE (HANDSET)

NOTICE

- BEFORE OPERATING
- 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.

INSTALLATION MANUAL



Handset One-Button Operation (Default Setting)

- Press

 button until two short beeps and a blinking series of lines confirms the start sequence has begun; release button.
- Main gas flows once pilot ignition is confirmed.
- Handset automatically goes into Manual Mode after main burner ignition.

NOTICE

Change from one-button to two-button ignition operation by pressing and holding (b) button for 10 sec. immediately after installing batteries. **ON** is displayed and **1** is flashing. When change is complete **1** will change to **2**.



Handset Two-Button Operation

Press (and (a) button simultaneously until two short beeps and a blinking series of lines confirms the start sequence has begun; release buttons.
 Main gas flows once pilot ignition is

confirmed.
Handset automatically goes into Manual Mode after main burner ignition.

NOTICE

Change from two-button to one-button ignition operation by pressing and holding (b) button for 10 sec. immediately after installing batteries. **ON** is displayed and **2** is flashing. When change is complete **2** will change to **1**.

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.



Н

0 I (0 + 0 V 9 + 0 V To go to low fire, double-click button. L0 is displayed.

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

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

STANDBY MODE (PILOT FLAME)

Handset

Press and hold button to set appliance to pilot flame.

TO TURN OFF FIRE



Press (a) button to turn off.

NOTE: There is a 5 sec delay before the next ignition is possible.

COUNTDOWN TIMER



ON/SETTING:

- Press and hold (2) button until 2 displayed, and hour flashes.
- 2. To select hour press (A) or (V) button.
- To confirm press button. Minutes flash.
- To select minutes press (▲) or (♥) button.
 To confirm press (■) button or wait.

OFF:

Press (2) button, 2 and countdown time disappear.

NOTE: At end of countdown time period, the fire turns off. The Countdown Timer only works in Manual, Thermostatic, and Eco Modes. Maximum countdown time is 9 hours and 50 minutes.

INSTALLATION MANUAL

MODES OF OPERATION



Thermostatic Mode

The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the set temperature.

Program Mode

Programs 1 and 2, each can be programmed to go on and off at specific times at a set temperature.



PROGRAM MODE

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OFF:

ON-

displayed.

Press Dutton. D, 1 or 2, ON or OFF

- 2. Press () button to enter Thermostatic Mode.
- Press log button to enter Eco Mode.

A Eco Mode

Flame height modulates between high and low. If the room temperature is lower than the set temperature, the flame height stays on high for a longer period of time. If the room temperature is higher than the set temperature, the flame height stays on low for a longer period of time. One cycle lasts approx. 20min.

THERMOSTATIC MODE



ON: Press ① button. I displayed, preset temperature displayed briefly, and then room temperature displayed.

OFF: 1. Press () button.

- Press ▲ or ♥ button to enter Manual Mode.
- 3. Press button to enter Program Mode. 4. Press (a) button to enter Eco Mode.

SETTING:

- 1. Press () button and hold until displayed, temperature flashes.
- 2. To adjust set temperature press (a) or (b) button.
- 3. To confirm press () button or wait.

NOTE: The set temperature for Thermostatic Mode is the temperature for the on time in Program Mode. Changing the Thermostatic Mode set temperature also changes the on time temperature in Program Mode.

Default settings:

ON TIME (Thermostatic) TEMPERATURE: 21 °C (70 °F) OFF TIME TEMPERATURE: "++" (pilot flame only)



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TEMPERATURE SETTING:

- Press

 button and hold until
 flashes. ON and set temperature (setting in Thermostatic Mode) displayed.
- To continue press button or wait.
 OFF displayed, temperature flashes.
- Select off temperature by pressing the or button.
- To confirm press
 button.
- NOTE: The on (Thermostatic) and off set temperatures are the same for each day.

DAY SETTING:

- 5. RLL flashes. Press ▲ or ♥ button to choose between RLL, 5R5U, I, 2, 3, 4, 5, 5, 1.
- 6. To confirm press 🖲 button.





INSTALLATION MANUAL

RLL selected



ON TIME SETTING (PROGRAM 1): 7. , , AN displayed, RLL is displayed shortly, and hour flashes.

- 8. To select hour press (a) or (*) button. 9. To confirm press (*) button. (*), **1**,
- ON displayed, RLL displayed shortly, and minutes flash.
- 10. To select minutes press (a) or (*) button.
- 11. To confirm press 🖲 button.



OFF TIME SETTING (PROGRAM 1): 12. (2), **1**, OFF displayed, RLL is displayed shortly, and hour flashes.

- 13. To select hour, press (a) or (b) button. 14. To confirm press (b) button. (c), 1,
- OFF displayed, RLL displayed shortly, and minutes flash.
- 15. To select minutes press (a) or (*) button.

16. To confirm press 🖲 button.

- NOTE: Either continue to PROGRAM 2 and set on and off times or stop programming at this point, and PROGRAM 2 remains deactivated.
- NOTE: PROGRAM 1 and 2 use the same on (Thermostatic) and off temperatures for RLL, SRSU and Daily Timer (1, 2, 3, 4, 5, 5, 1). Once a new on (Thermostatic) and/or off temperature has been set, that temperature becomes the new default setting.
- NOTE: If RU, 5850 or Daily Timer are programmed for PRO-GRAM 1 and PROGRAM 2 on and off times, these become the new default times. The batteries must be removed to clear the PROGRAM 1 and PROGRAM 2 on and off times and temperatures.

5850 or Daily Timer (1, 2, 3, 4, 5, 6, 7) selected

- Set on time and off time using same procedure as "RLL selected" (above).
- . 5R5U: Set on time and off time for both Saturday and Sunday.
- Daily Timer: Unique on and off times may be set for a single day of the week, for multiple days of the week, or for every day of the week.
- Wait to finish setting.

AUXILIARY FEATURE

Upon ignition burner 1 is on and burner 2 is in the last setting.



ON:

To switch a burner on, press the (+) button. + displayed.

OFF:

To switch the burner off, press the (1) button. 14 disappears.

AUTOMATIC TURN DOWN

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

(only if module is connected)

 Valve turns to pilot flame if the temperature in the receiver is higher than 140°F (60°C). The main burner turns back on (manually or in Thermostatic Mode) only when the temperature is below 140°F (60°C).

AUTOMATIC SHUT OFF

Countdown Timer

 At end of countdown time period, the fire turns off. The Countdown Timer only works in Manual, Thermostatic, and Eco Modes. Maximum countdown time is 9 hours and 50 minutes

Low Battery Receiver

 With low battery power in the receiver the system shuts off the fire completely. This will not happen if the power supply is interrupted.

On-Demand Pilot

- This green feature eliminates gas energy consumption during extended appliance inactivity. When the appliance is inactive for an extended period of time the system automatically extinguishes the pilot. This feature helps the consumer realize cost benefits by automatically eliminating energy consumption during non-heating months and limited use.
- The programmed length of inactivity to activate the system is specified by the appliance manufacturer and cannot be altered in the field.

2nd Thermocouple Shut Off

- 2nd thermocouple Option: The system shuts off the fire if the main burner does not completely ignite approximately 20 seconds after ignition or after pushing (a) button.
- NOTE: Before the next ignition there is a 2 minute waiting period. If the thermocouple is then still too hot, you will hear a long beep.

14.4 Element4 ProControl App.

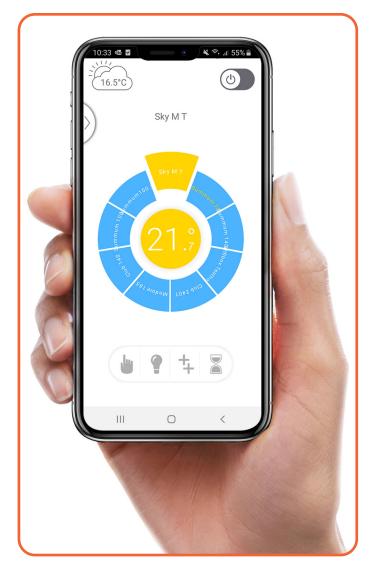
It is possible to operate your device via smartphone or tablet with the ProControl App, available in the appstore on iOS and google play on Android.

The app has a user friendly, interactive layout and the design is adjusted for Element4 devices. Up to eight devices can be used with one app, in the situation that multiple fires are installed in the same location.

Another functionality of the app is to pre-set the temperature of you device, for a period of one week, to ensure yourself of an optimal desired room temperature. Also the device can be changed between high and low flames and it features an ecosetting.

The amount of users, that can operate the device is unlimited, so every family member can make use of it, by easily making a personal account. By two-way communication, one can check on the device at any moment.

To use the app, the device needs to be provided with the correct receiver and remote combination.



14.4.1 Router information

Minimum requirements

- Compatible with IEEE 802.11n / g / b
- WPA2 encryption
- Radio frequency 2.4 GHz band
- Wireless automatic channel: Automated search for WLAN radio channel that is free from interference.
- Support for the User Datagram Protocol (UDP)

Necessities for the installation of the ProControl:

- 220 volt electricty near the fire
- Wi-Fi code of the router
- Smart Phone or tablet
- ProControl manual
- Wifi box (8)

Wi-Fi Router

It is important to think carefully about the location of a router. This device spreads the wifi signal in and around your home. Therefore, preferably choose a central position. You prevent long distances from occurring.

Many people put the router in the meter cupboard, because that is where the internet comes in at many households. This however may not be the best choice.

For a powerful WiFi signal, the router needs as much space as possible. Therefore, do not place the device near a wall or on the ground. Some routers have multiple antennas that you can target. Try to spread these antennas so that you increase the range.

14.4.2 Jammers

Many devices also emit radio waves just like your router. These include microwave ovens, wireless doorbells, baby monitors, Bluetooth adapters, wireless music systems, DECT telephones and security cameras. These devices can disrupt your wireless network (interference), so the Wi-Fi connection is not optimal. Try to keep jammers as far away as possible from the router. Neighboring wireless networks also play a role in the Wi-Fi area.

14.4.3 Frequency

By default, most routers use the 2.4 GHz band to broadcast the Wi-Fi signal. The disadvantage is that this frequency band is very busy, so that there is quickly interference. There are a lot of competing users and jammers using the same radio waves. Since most "older" laptops, smartphones, tablets and other devices can not connect via the 5GHz band, the ProControl module is not suitable for 5GHz band.

Should any problems occur with the ProControl application you can always check **APPENDIX B**.

Figure 14.2 - The Pro control app

14.5 Connecting to a smart home system

14.5.1 General notes

The fireplace may be operated through an external source such as a smart home (home automation) system by using the 5-pin connector on the receiver (Smart Home System Cable Type: G60-ZCE).

A required 39" (990 mm) cable, with connector, is available (p/n E4-SA-SHSC-02). The overall cable length should not exceed 26' (7925 mm.)

Signal relays (gold contacts) or opto-couplers are recommended but not supplied. The E4-SA-SHSC-02 cable must be connected to the three smart home system contacts as shown below.

Warning: you must ensure that the fireplace is in a safe and secure environment before attempting to operate it from a remote location.

14.5.2 Sequence of operation (Figure 15.3)

Mode	Contact
Ignition of main burner	1&3
High flames	1
Pilot	3
Extinguish main burner	1,2&3
Ignite second burner	1&2
Extinguish second burner	2&3

Table 14.2

14.5.3 Modes of operation

Mode 1

The external source provides "ON" and "OFF" operation only. The remote control provides all other functions.

Note: Even if the fire is switched on by the external source, the remote control, in the thermostatic mode, controls the room temperature. The room temperature setting of the remote control will remain the same for the next ON-cycle of the external source as long as the temperature setting of the remote control has not been changed. If the remote control is in manual mode, it will go to High Fire in the next cycle of external operation.

Mode 2

The remote control must be set to the manual mode if the external source is to control the room temperature. If the handset is placed in the thermostatic mode it will override the external source.

Note: Frequent ON and OFF cycles will limit life expectancy of the valve and will increase battery consumption. The fireplace should be powered by the AC adapter for improved reliability and customer satisfaction.

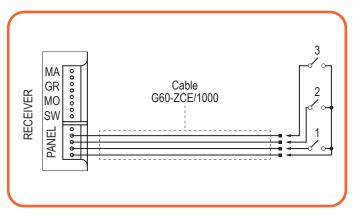


Figure 14.3 - Operation sequence overview



Figure 14.4 - Gas Valve Measuring Points

Schedule black 40 iron pipe

		Natural g	gas	Propane gas			
Length		Inside di	Inside diameter				
Imperial	Metric	Imperial	Metric	Imperial	Metric		
0 - 10 '	0 - 3 m	1/2 "	1.275 cm	3 /8 "	0.9525 cm		
10 - 40 '	3 - 12 m	1/2 "	1.275 cm	1/2 "	1.275 cm		
40 - 100 '	12 - 30 m	1/2 "	1.275 cm	1/2 "	1.275 cm		
100 - 150 '	30 - 45 m	3/4 "	1.905 cm	1/2 "	1.275 cm		
150 - 200 '	45 - 60 m	3/4 "	1.905 cm	1/2 "	1.275 cm		
		•		-	Table 14.3		



A MASSACHUSETTS CERTIFICATION

This appliance is approved for installation in the Commonwealth of Massachusetts. The Board of State Examiners of Plumbers and

Gas Fitters has issued approval number Element4 for this appliance.

THE FOLLOWING MUST BE OBSERVED WHEN INSTALLING THE ELEMENT4 FIREPLACES WITHIN THE COMMONWEALTH OF MASSACHUSETTS:

(a) For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust

vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1. INSTALLATION OF CARBON MONOXIDE DETECTORS. At the time of installation of the side wall horizontal vented gas

fueled equipment, the installing plumber or gasfitter shall observe that a hard wired carbon monoxide detector with an alarm

and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gasfitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each

additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors

a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic,

the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the

owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

2. APPROVED CARBON MONOXIDE DETECTORS. Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

3. SIGNAGE. A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a

minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

4. INSPECTION. The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

(b) EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2)(a)1 through 4:

1. The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and

2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from

the dwelling, building or structure used in whole or in part for residential purposes.

(c) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM PROVIDED. When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

1. Detailed instructions for the installation of the venting system design or the venting system components; and

2. A complete parts list for the venting system design or venting system.

(d) MANUFACTURER REQUIREMENTS - GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED. When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but

identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and

2. The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall

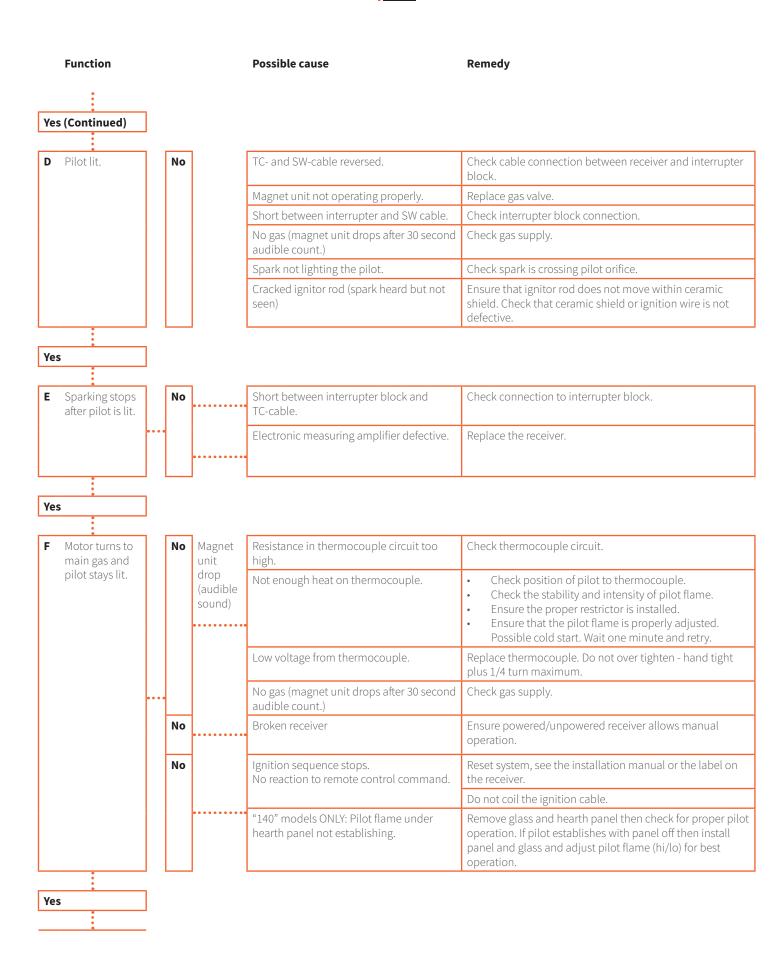
include a parts list and detailed installation instructions.

(e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/ or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.



B TROUBLESHOOTING FLOWCHART

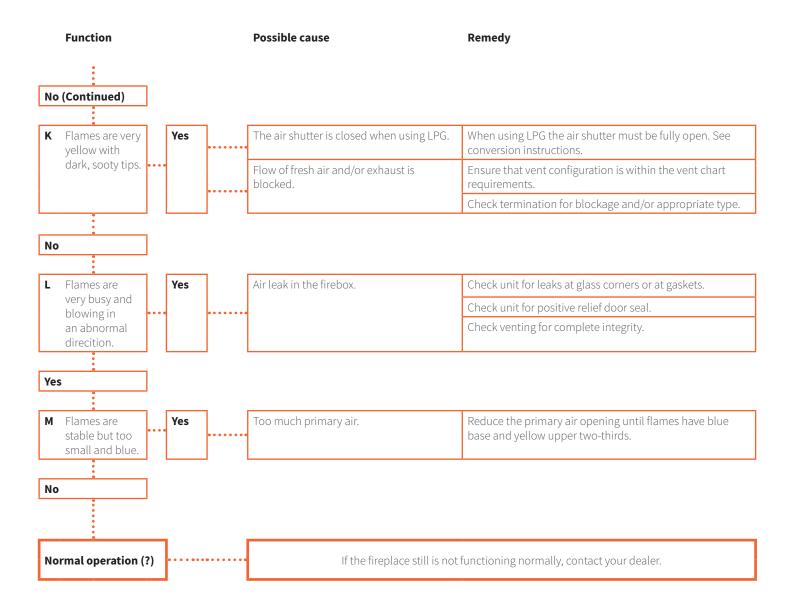
	Function			Possible cause	Remedy			
A Press the ON button to start ignition sequence. Beep will occur each second.		No		Transmitter batteries low.	Replace transmitter batteries. Quality alkaline recommended.			
				Receiver batteries low.	Test the batteries. replace if necessary. Quality 1.5V AA alkaline recommended. Note: Do NOT connect an AC adapter when using receive batteries.			
			•••••	Check that transmitter and receiver are synchronized.	Reset system, see the installation manual or the label on the receiver. One long beep indicates the wiring is incorrect or the code learning sequence has failed.			
				Transmitter distance	Straighten the antenna.			
				is limited.	Replace the receiver.			
				Defective AC adapter	Replace the AC adapter.			
				Damaged wiring	Inspect/test all wiring and connections.			
				2nd thermocouple is producing electricity.	Wait for 2nd thermocouple to cool down (3-5 minutes)			
١	Magnet unit	No	No beep	Impulse magnet not operating properly.	Replace gas valve.			
i	is energized	No	3 Short	Receiver batteries low.	Test the batteries, replace if necessary.			
	thus producing an obvious		beep		Quality 1.5V AA alkaline recommended.			
	latching sound.	No	1 long beep	8-wire cable is off or not operating properly.	Confirm proper operation of the 8-wire cable.			
			•••••	SW-cable disconnected.	Confirm proper connection/operation of the SW-cable.			
	I			Motor not operating properly.	Replace gas valve.			
				motor not operating property.	Replace gas valve.			
				Micro switch not operating properly.	Replace gas valve.			
	•							
]	Micro switch not operating properly. 2nd thermocouple not connected	Replace gas valve. Confirm integrity of 2nd thermocouple and connection.			
(Spark will occur each second.	No]	Micro switch not operating properly. 2nd thermocouple not connected Ignition components not operating	Replace gas valve. Confirm integrity of 2nd thermocouple and connection.			
(Spark will occur each second.	No]	Micro switch not operating properly. 2nd thermocouple not connected	Replace gas valve. Confirm integrity of 2nd thermocouple and connection. Check connection between ignition cable and ignitor roo Check ignitor rod spark gap.			
(No]	Micro switch not operating properly. 2nd thermocouple not connected Ignition components not operating	Replace gas valve. Confirm integrity of 2nd thermocouple and connection. Check connection between ignition cable and ignitor roo Check ignitor rod spark gap. Check ignitor rod.			
(No]	Micro switch not operating properly. 2nd thermocouple not connected Ignition components not operating	Replace gas valve. Confirm integrity of 2nd thermocouple and connection. Check connection between ignition cable and ignitor rod Check ignitor rod spark gap. Check ignitor rod. Check ignition cable for damage. Increase distance between ignition cable and all metal			
(No		Micro switch not operating properly. 2nd thermocouple not connected Ignition components not operating	Replace gas valve. Confirm integrity of 2nd thermocouple and connection. Check connection between ignition cable and ignitor roc Check ignitor rod spark gap. Check ignitor rod. Check ignition cable for damage.			
(Micro switch not operating properly. 2nd thermocouple not connected Ignition components not operating properly.	Replace gas valve. Confirm integrity of 2nd thermocouple and connection. Check connection between ignition cable and ignitor rod Check ignitor rod spark gap. Check ignitor rod. Check ignition cable for damage. Increase distance between ignition cable and all metal parts.			
		No		Micro switch not operating properly. 2nd thermocouple not connected Ignition components not operating properly. Ignition sequence stops after one spark Ignition sequence stops, no pilot flame.	Replace gas valve. Confirm integrity of 2nd thermocouple and connection. Check connection between ignition cable and ignitor rod Check ignitor rod spark gap. Check ignitor rod. Check ignition cable for damage. Increase distance between ignition cable and all metal parts. Remove ground bolt (T20 Torx) and clean ground lug. Reset system, see the installation manual			
(No		Micro switch not operating properly. 2nd thermocouple not connected Ignition components not operating properly. Ignition sequence stops after one spark Ignition sequence stops, no pilot flame.	Replace gas valve. Confirm integrity of 2nd thermocouple and connection. Check connection between ignition cable and ignitor root Check ignitor rod spark gap. Check ignitor rod. Check ignition cable for damage. Increase distance between ignition cable and all metal parts. Remove ground bolt (T20 Torx) and clean ground lug. Reset system, see the installation manual or the label on the receiver.			





	tion				Possible cause	Remedy
G Main is lit.	burner]	No	•••••	Manual knob is in the "MAN" position.	Turn the control knob to "ON" position, a positive latch is required.
			No	•••••	Pilot flame is too low.	Confirm correct gas pressure. Increase pilot flame if necessary.
Yes (Con	tinued)]				·
H Main stays	burner i lit.		No	Systems drops	Too much draft at pilot flame (poor flame impingement of primary thermocouple.)	Check venting installation. Use restrictor as required.
				out - all flames	Pilot assembly out of order.	Inspect pilot assembly for correct operation and thermocouple impingement.
				go out instantly	5 day shut off.	The system shuts off the fire and pilot if there is no chang in the flame height for 5 days.
			No	Main burner remains	2nd thermocouple is not heated.	Ensure 2nd thermocouple is heated by a robust flame. The fireplace media may be interfering with proper flame Check 2nd thermocouple wiring.
				lit while flame		Add 2nd ground wire from 2nd thermocouple to the grounding screw (trox) located on gas valve if not already attached.
		••••		are lowered	2nd thermocouple shut off.	The system shuts off the fire when the main burner flame is not sensed within 29 seconds of ignition or not sensed after pressing the large flame button. Note: If the system fails to light due to the 2nd thermocouple voltage not being sensed a two minute lockout period begins. This lockout time allows the gas to dissipate.
			No	System goes to pilot flame	6 hours of no motor movement.	In Manual/Temperature/Timer modes the valve turns down to pilot only if the flame height does not change for a 6 hour period. In Temperature/Timer modes if the ambient room temperature changes, the flame height will adjust automatically to maintain the set temperature and the fire will continue to function normally. The valve will turn to pilot flame if the set temperature and the ambient temperature remain the same over a 6 hour period.
Yes]				
	net unit s while		Yes	;	Receiver batteries low.	Test the batteries, replace if necessary. Quality 1.5V AA alkaline recommended.
	or turns. iver makes eps.	••••		••••••	Ensure magnet unit is operating normally.	Test the receiver output to the magnet unit.
No	•					
	•	-		_		
J Flam	ies ime thin,		Yes		Exhaust is contaminating the fresh air.	Inspect venting for damage and/or incorrect installation.
blue,	, wispy go out.	••••	Yes	•••••	Flow of fresh air and/or exhaust is blocked.	Ensure that vent configuration is within the vent chart requirements.
			N.		LD good with NC - vifier (-)	Check termination for blockage and/or appropriate type.
		1	Yes		LP gas being used with NG orifice(s).	Ensure the gas type is correct for the installed orifices.
	•	-				·







C ERRORS CODES PROCONTROL APP

C.1 Messages shown in app

Error code	Message in App	Description	Possible cause				
F02	Contact Service.	5 sec. beep from ReceiverFire is not responding; no ignition	 Microswitch not making contact with cam on motor knob Motor wiring is incorrect Reversed polarity or faulty Microswitch Bent Motor Knob 				
F03	Contact Service.	 5 sec. beep from Receiver Ignition process is interrupted Fire is not responding; no ignition 	 Thermocouple wiring is incorrect Thermocouple wiring is not connected ON / OFF switch in O (OFF) position 				
F04	Ignition Sequence Malfunction. Wait 1 minute. Retry ignition.	 No pilot flame within 30 sec. NOTE: After 3 failed ignition sequences F06 shown 	 No gas supply Air in pilot supply line No spark Reversed polarity in thermocouple wiring Check for correct pilot orifice (LPG to NG or vice versa) 				
F05	Contact Service.	 Pilot burner fails to ignite or shuts off Motor stays in pilot position 	 Not enough thermo-voltage Air in the pilot supply line Low inlet pressure Bad thermocouple 				
F06	Contact Service.	 3 failed ignition sequences within 5 minutes Fire is not responding; no pilot flame 	 No gas supply Air in pilot supply line No spark Reversed polarity in thermocouple wiring Check for correct pilot orifice (LPG to NG or vice versa) 				
F07	Replace Handset Batteries.	Battery icon flashes on handset display	Low battery power in handset				
F08	Contact Service.	Low Receiver battery power supplyShort beeps for 3 sec. during motor turn	Low Receiver battery power supply				
F10	Contact Service.	 Pilot lit Main burner fails to ignite and pilot shuts off Ignition is blocked for 2 minutes 	 2nd thermocouple is out of position 2nd thermocouple wiring is incorrect Gas logs out of position Gas ports for burner are blocked 				
F12	Contact Service.	Motor turns to pilot position	 Receiver powered by batteries and Receiver temperature exceeds 60 ° Check air circulation and heat shield 				
F13	Contact Service.	 Motor turns to pilot position Fan at level 4 for 10 minutes (T > 80 °C) 	 Receiver temperature exceeds 80°C Check air circulation and heat shield 				
F14	Contact Service.	5 sec. beep from ReceiverFire is not responding; no ignition	 Receiver software doesn't support a 2nd thermocouple Wrong Receiver 				
F15	Contact Service.	 5 sec. beep from Receiver Fire is not responding; no ignition 	 2nd thermocouple wiring is incorrect 2nd thermocouple wiring is not connected 				
F16	Handset out of range.	No temperature shown in App	 Handset out of range for more than 1.5 h Electrical interference 				
F17	Contact Service.	Fire is not responding; no ignition	Inlet voltage exceeds 7.25 V Malfunction of Mains Adapter				
F18	Contact Service.	• Switch panel / touch pad not functioning	 Switch panel / touch pad is locked Short in cable or button 				
F19	Contact Service.	Pilot drops when Motor opens main gas	 Insufficient thermo-voltage Thermocouple malfunction Low inlet gas pressure Improper thermocouple flame impingement Carbon build-up on thermocouple Valve malfunction Resistance in thermocurrent circuit 				
F26	Contact Service.	 It is not possible to increase flame height after ignition Fan at level 4 for 10 minutes (T > 80 °C) 	 Receiver powered by batteries and Receiver temperature exceeds 60°C Receiver powered by mains power and Receiver temperature exceeds 80°C 				
F27	Contact Service.	 Fire is not responding No electronic control of fire 	• No handset or Wi-Fi Box connected to Receiver for more than 3 hours				



Error code	Message in App	Description	Possible cause					
F31	Contact Service.	Fire is not respondingNo electronic control of fire	Receiver or Wi-Fi Box malfunctionConnection cable from Receiver to Wi-Fi Box defective					
F41	Check Wi-Fi	Fire is not respondingNo electronic control of fire	• No Wi-Fi connection to myfire Wi-Fi Box, router and / or smart device Wi-Fi in smart device is deactivated					
F42	Check Wi-Fi	Fire is not respondingNo electronic control of fire	 No power to router No Wi-Fi connection to router and / or smart device Smart device not in the correct home network 					
F43	No Receiver Connected. Contact Service.	Fire is not respondingNo electronic control of fire	No communication between Receiver and myfire Wi-Fi Box					
F44	Contact Service.	No temperature shown in AppN.a. (not applicable) displayed in App	Handset not within range Low battery power in handset					
F49	Contact Service.	No electronic control of fire	• Receiver software < 8.32 is not supported by myfire Wi-Fi Box Version 2					
F50	Contact Service.	No electronic control of fire	Handset software < SW 231 is not supported by the myfire Wi-Fi Box Version 2					

C.2 Messages shown in remote

Error code	App Message	Time	Description	Possible Cause
F04	F04	4 sec.	 No pilot flame within 30 sec. NOTE: After 3 failed ignition sequences F06 shown 	 No gas supply Air in pilot supply line No spark Reversed polarity in thermocouple wiring
F06	F06	4 sec.	 3 failed ignition sequences within 5 minutes Fire is not responding; no pilot flame 	 No gas supply Air in pilot supply line No spark Reversed polarity in thermocouple wiring Check for correct pilot orifice (LPG to NG or vice versa)
F07	F07	Until batteries replaced	Battery icon flashes on handset display	Low battery power in handset
F09	F09	4 sec.	Fire is not respondingNo electronic control of fire	Down arrow button was not pressed during pairingReceiver and handset are not synced
F46	F46	4 sec.	Fire is not respondingIntermittent responseNo electronic control of fire	 No or bad connection between receiver and handset No power at Receiver (batteries low) Mains adapter faulty, set not communicating with Receiver)

D DIMENSIONAL DRAWINGS

On this page and the following ones you will find dimensional drawings of the Sky RD series with some of the important dimensions that you have to take into account when installing and installing your fireplace.

DWG files for design specific dimensions not listed are available for download at **www.element4fires.com**

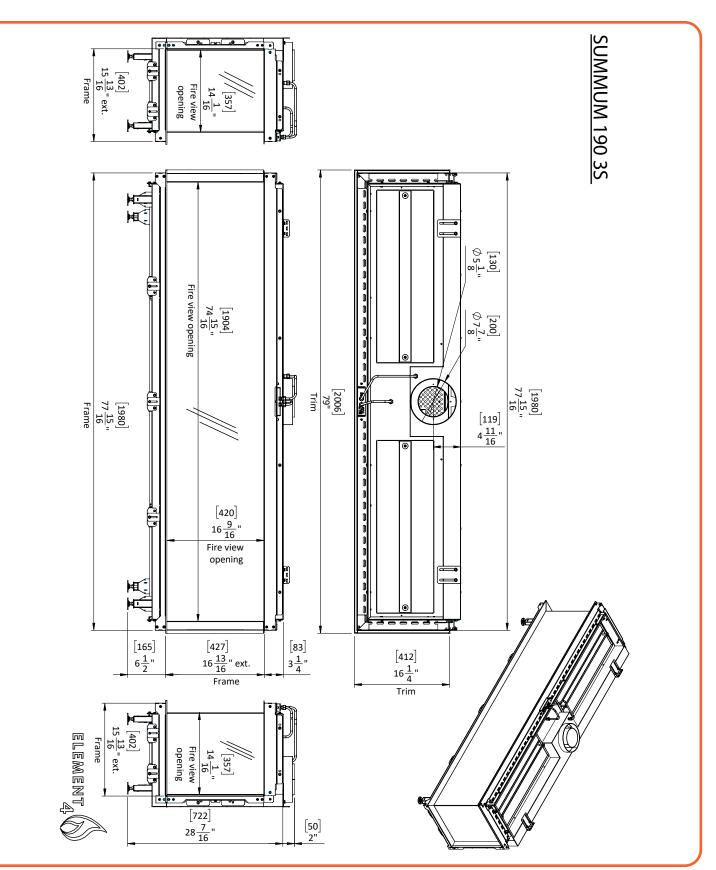


Figure D.A - Technical drawing of Summum 190 3S

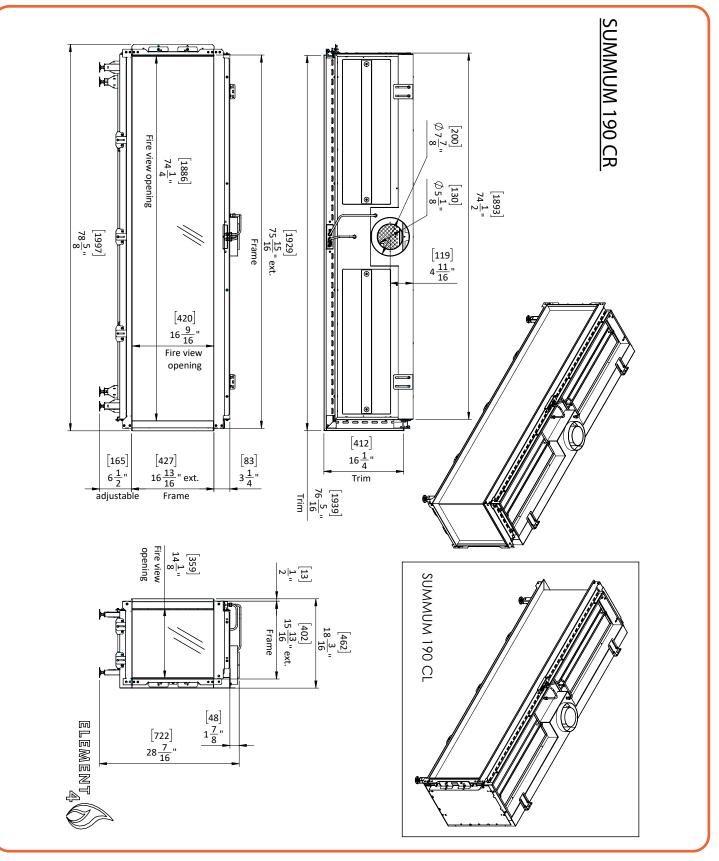
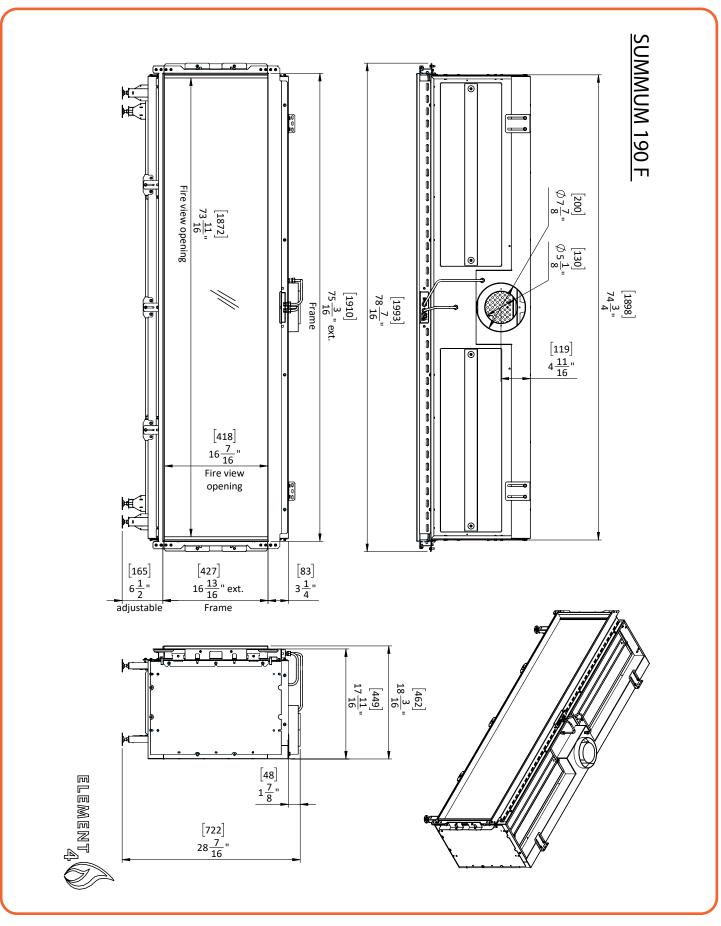


Figure D.B - Technical drawing of Summum 190 C



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Figure D.C - Technical drawing of Summum 190 F

E ELEMENT4 WARRANTY

Element4 Gas Fireplace

Element4 warrants these gas fireplaces against defects in materials and workmanship for a period of TWO (2) YEARS from the date of original retail purchase. Glass is expressly NOT covered by this warranty.

If a defect exists, Element4 will, at its option, either (1) provide needed components using new or refurbished replacement parts or (2) exchange the product with one which is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product. A replacement product/part assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes the property of Element4. All warranty claims must be submitted through the dealer from which you purchased the product. Check with your dealer in advance for any costs to you when arranging a warranty call. Shipping and/or delivery charges for parts are not covered by this warranty.

Nothing in the above shall be deemed to imply that this warranty shall apply to work which has been abused or neglected or shows evidence of changes or modifications by others with or without permit, damages caused by the acts of God, building settlement or moving, fire or vandalism. In addition, installation of this product that varies from the requirements stated in the instruction manual will void the warranty.

PRODUCT INSTALLATION RECORD

Installer: Please complete this form. **Customer:** Please retain this information.

Model (Check one)	Summum 190 F	Summum 190 CL	Summum 190 CR	Summum 190 3S
Purchased from				
Installed by				
Date of installation				
Fireplace serial number				
Fuel Type	Natural Gas			
	LPG			
Total horizontal section (venting)				
Total vertical section (venting)				







ELEMENT4 B.V.

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