

## Installation, Operation and Owner's Manual

Lucius 100 Tenore 100

**Direct Vent Gas Fireplaces** 

#### Product Information







**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.



### **MARNING:**

FIRE OR EXPLOSION HAZARD

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - · Leave the building immediately.
  - · Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - · If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.



## A AVERTISSEMENT:

### INCENDIE OU D'EXPLOSION

Le non-respect des avertissements de sécurité à la lettre pourrait entraîner de graves blessures, la mort ou des dommages matériels.

- Ne pas entreposer ni utilizer d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.
- QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ
  - Ne pas tenter d'allumer d'appareil.
  - Ne touchez á aucan interrupteur. Ne pas vous servir des téléphones se trouvant dans le bátiment ou vous trouvez.
  - · Quitter immédiatement le bâtiment.
  - Appelez immédiatment votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz appelez le service des incindies.
- Installation et l'entretien doivent être effectués par un installateur qualifié, une agence de service ou le fournisseur de gaz.

INSTALLER: Leave this manual with the appliance. CONSUMER: Retain this manual for future reference. INSTALLATEUR: Laissez cette notice avec l'appareil. CONSOMMATEUR: Conservez cette notice pour consultation ultérieure.



## **TABLE OF CONTENTS**

Important Safety Information	3
Key Installation Points	
User Information	
Specifications and Dimensions	
Lucius 100	9
Tenore 100	
Parts of the Fireplace	11
Clearances	13
Gas and Electric	17
Venting	18
Configuration	18
Venting Charts	21
Venting Clearances	22
Enclosing the Fireplace	24
Non- combustible Materials List	24
Building the Enclosure	25
Reduced Clearance To Existing Walls	25
Convection Air Opening	30
Travel Nut Information	31
Installing the Fire Media	35
Screen Installation	37
Operating the Fireplace	40
Maintenance	47
Glass	47
Burner	49
Pilot	49
Thermocouple	50
Venting	50
Replacement Parts	50
Warranty	51
Massachusetts Certification	Appendix One
Troubleshooting Flowchart Appendi	
LP Conversion	• •
Installing the Optional Wall Switch	
Connecting To A Smart Home System	Appendix Five
Index	

## **IMPORTANT SAFETY INFORMATION**

## CAUTION - HOT! HOT! HOT!

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.

### **CHILDREN AND PETS**

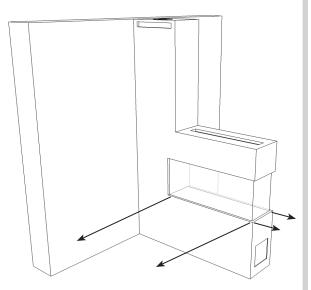
Radiant heat can heat surfaces such as the surround and trims of the fireplace to temperatures that, although approved safe, can be quite uncomfortable to touch - particularly for children and pets. Children and pets should always be supervised when in the room where the appliance is located. Remote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

### **HOT SURFACES**

Be aware that, although safe, some combustible materials and finishes, even though installed at listed clearances may, over time, discolor, warp or show cracks.

Convective heat will exit the unit and travel up the wall surface if not impeded. Protruding mantels and projections can help direct the heat away from the wall. AVOID placing heat sensitive items such as televisions, paintings, decorations, etc. above fireplaces or near the edge of protrusions unless appropriate.

Do not place furniture or other objects within 36" of the fireplace glass.



## SAVE THESE INSTRUCTIONS

Make yourself fully aware of all the following instructions and the many features of the Element4 direct vent gas fireplace appliance.

INSTALLER: Leave this manual with the appliance.

OWNER: Keep this manual for future reference.

# IMPORTANT SAFETY INFORMATION

### 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**: Glass Handling

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

## **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.

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.

## **IMPORTANT SAFETY INFORMATION**

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.

NEVER OBSTRUCT the flow of ventilation air. Keep the front of the appliance CLEAR of all obstacles and materials for servicing and proper operation.

DO NOT use this appliance as a temporary source of heat during construction.

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

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. DO NOT strike or slam the glass panels.

The glass panels SHALL ONLY be replaced by units supplied by the manufacturer. NO SUBSTITUTE panels shall be used.

DO NOT USE abrasive cleaners on the panels. DO NOT ATTEMPT to clean the glass panels when they are hot.

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 nearest 1/16" when converted. If greater accuracy is required, use the metric dimensions.

# **KEY INSTALLATION POINTS**



# IMPORTANT INFORMATION



This page references the most important key installation points when installing any Element 4 fireplace. This

page <u>DOES NOT</u> substitute for reading the entire manual.
<u>RECORDS</u>
The installer <b>MUST</b> record the serial number and venting configuration to use for any technical issues that may arise.
<u>ELECTRICAL</u>
The receiver <b>MUST</b> be powered by either the AC adapter or 4 (AA) batteries, <b>NEVER</b> both at the same time.
FIRE MEDIA
When installing the fire media make sure to <b>NEVER</b> mix different types of media or use media purchased from another retailer. <b>ALWAYS</b> keep the second thermocouple AND pilot free from media.
CONVECTION AIR
The convection air outlets <b>MUST</b> be installed <b>BEFORE</b> the first light. The amount of square inches needed for the opening varies from model to model.
ENCLOSING THE FIREPLACE
ONLY a tested and approved non-combustible wallboard that is specified in the manual may be used when enclosing the fireplace.
<u>VENTING</u>
The venting <b>MUST</b> follow the model specific graph shown in the manual. A restrictor may or may not need to be used based on venting run and rise.
CONSTRUCTION DEBRIS
<b>REMEMBER</b> that if the fireplace is installed before the site is finished, construction debris <b>MUST</b> be cleaned from the enclosure and around the unit prior to finishing and the test fire.
GAS PRESSURES
Gas pressures <b>MUST</b> be read with a manometer and confirmed with what is required in the installation manual.
<u>FINISHING</u>
A $\frac{1}{3}$ mm gap between the flange and the enclosing wallboard <b>MUST</b> be maintained to prevent cracking from heat expansion and contraction.

## **USER INFORMATION**

### **WARMTH AND BEAUTY - HOW IT WORKS**

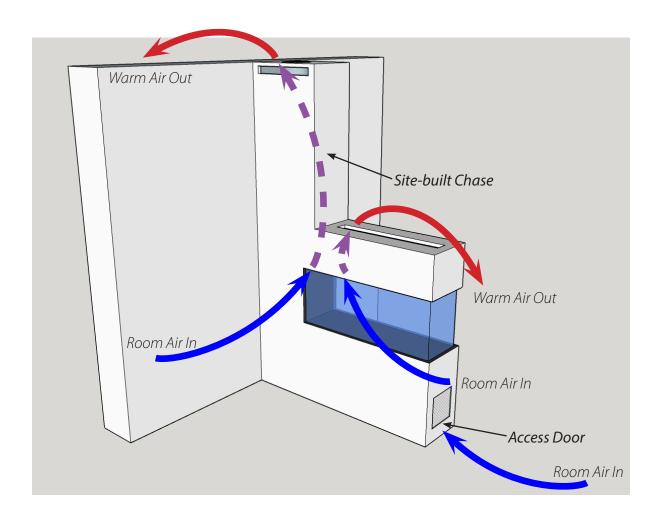
The Element4 fireplaces are direct vent fireplaces and, as such, the intake and exhaust are both handled through the vent pipe. The fireplace also provides convection air to your room. The illustration shows one of the unique features of the Element4 fireplaces - its use of warm, convection air flow.

Other fireplaces have louvered metal boxes around them to keep temperatures under control. The Element4 fireplaces use your enclosing walls, or chase, to guide this warm air. This design, therefore, requires the use of non-combustible wall materials and gives you beauty for your effort.

When the air within the chase is warmed by the fireplace, it rises and exits through the Convection Air Outlet. This chase air is then replaced by room air which enters the chase through the Room Air Inlet and through the Wall Access Door. As the exiting warm air cools, it falls to the floor where it's drawn into the inlets and the cycle repeats.

The fireplace provides the *inlet* for room air as part of its design; you provide the warm air *outlet* as part of your design.

See the **ENCLOSING the FIREPLACE** section of this manual for more information.



# **SPECIFICATIONS and DIMENSIONS**

### **APPLIANCE RATINGS**

Model		Lucius 100 Tenore 100	
Gas		Natural Gas	Propane
Input Maximum	Btu/hr	59,000	46,000
Input Minimum	Btu/hr	22,000	20,500
Maximum Supply	in. w.c.	7	11
Pressure	kpa	1.74	2.74
Minimum Supply	in. w.c.	4	8
Pressure	kpa	1	2
Manifold Pressure	in. w.c.	4.9	10.6
Maximum	kpa	1.22	2.65
Manifold Pressure	in. w.c.	2.8	6.5
Minimum	kpa	0.7	1.62
Main Burner Injector Marking		650 (x2)	260 (x2)
Pilot Injector Marking		31.2	27.1
Efficiency		78.3%	

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	



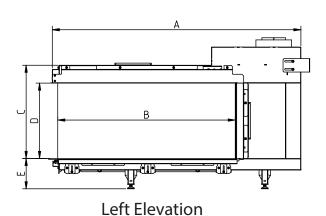
AC Adapter

DO NOT REMOVE	NE PAS RETIRER		
DIRECT VENT GAS FIREPLACE - Not for use with solid fuel.	FOYER GAZ À AÉRATION DIRECTE - Ne pas utiliser avec un combustible solide		
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 kit is used.	Cet appareil est destiné uniquement avec le type de gaz indiqué sur la plaque signalétique et put el tre installé dans une habitation en dur, à emplacement fixe (USA uniquement) ou dans une résidence mobile si a législation locale l'autorise. Consultez le manuel du propriétaire pour les détails. Cet appareil ne doit pas être modifié pour une utilisation avec d'autres gaz, sauf à l'aide d'un kit certifes gaz, sauf à l'aide d'un kit certifes gaz, sauf à l'aide d'un kit certifes.		
For use only with Vent, Glass Panels and Ceramic Logs (or stones) certified and approved for use with this appliance.	À utiliser uniquement avec des ventilations, panneaux en verre et poutres (ou pierres) en céramique dont l'utilisation est autorisée avec		
In subpliance must be installed in accordance with local codes, if any; if none, follogue, follo	cet appareil.  Cet appareil doit être installé conformément à la législation locale. À défaut d'une telle législation, suivre ANSI Z223.1NFPA.54, ou CSA B149.1. L'appareil doit être proprement raccordé à un système de ventfalion, conformément aux instructions d'installation du fabricant.		
The system mu: installed by La qualified installing agency.	Le système doit être installé par un installateur qualifié.		
Mai. dur oricant: Approved Element	By / Approuvé par:		
NL-8013 RPe The Netherlands / Pays-Bas Coc Tel / Tél : 0031 38 4209020r .s	o. : 4006611 Intertek to std. ANS Z21.50a-2008 o std. CSA 2.22a-2008 - Vented Gas Fireplaces		
Product name: (check one' .om du _duit : (coo' ) Trisore 100H [			
This appliance equipped only for altitudes / Cet appareil est équipé uniquement pour les altitudes : 0-4500 ft // /0 m			
Fuel Type / Type de combustible  (check one) / (cochez)  Max. Input / Capacité d'entrée maxi (BTU/HR)  Min. Input / Capacité d'entrée mini (BTU/HR)  Gas Inlet Pressure (in w.c.) / Pression d'entrée du  Manifloid Pressure (in w.c.) / Pression d'admissior  Orifice Size / Taille de l'ouverture			
Clearances to combustible / Dégagement jusq Back / Arrière : 11" (28cm) Sides / C Top / Haut : 28" (86cm) Floor / S Mantel / Linteau: 2" (5cm)	Oôtés : 11" (28cm)		

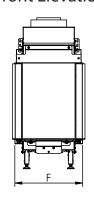
A typical rating label is shown above. It is attached to every Element4 fireplace and contains important certification information. *It must not be removed from the fireplace*.

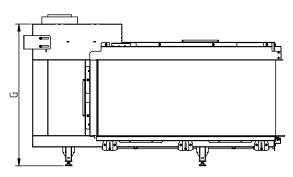


AC Adapter Connection (arrow)



Front Elevation



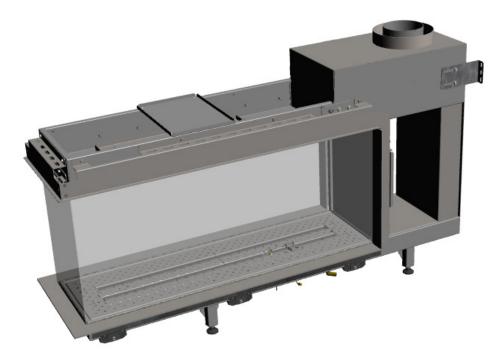


**Right Elevation** 



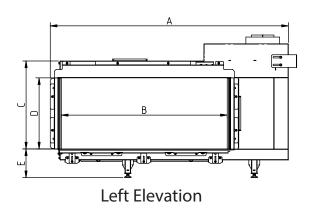
Plan View

Letter	Inches	Millimeters
Α	54 <sup>13</sup> ⁄16	1392
В	39%	995
С	20%16	522
D	16%	422
E	611/16	170
F	15	380
G	315/16	794

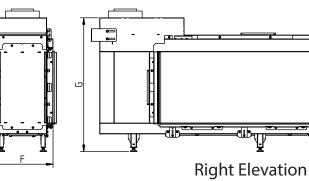


**LUCIUS 100** 

A DWG files is available for download at www.europeanhome.com for design specific dimensions not listed.



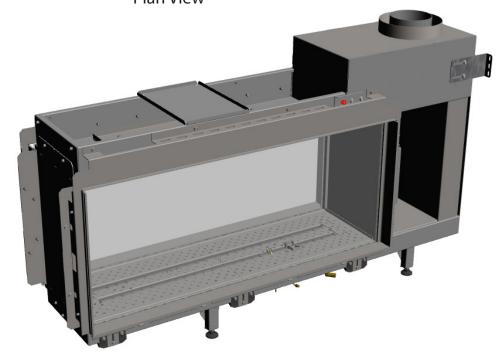
Front Elevation





Plan View

Letter	Inches	Millimeters
Α	55%	1412
В	38¾	984
С	20½	521
D	165/8	421
E	6¾	171
F	145/16	363
G	315/16	794



**TENORE 100** 

A DWG files is available for download at www.europeanhome.com for design specific dimensions not listed.

# **SPECIFICATIONS and DIMENSIONS**

## PARTS OF THE FIREPLACE

The various parts of the Lucius 100 fireplace are shown below. These parts are typical of any Element4 fireplace.

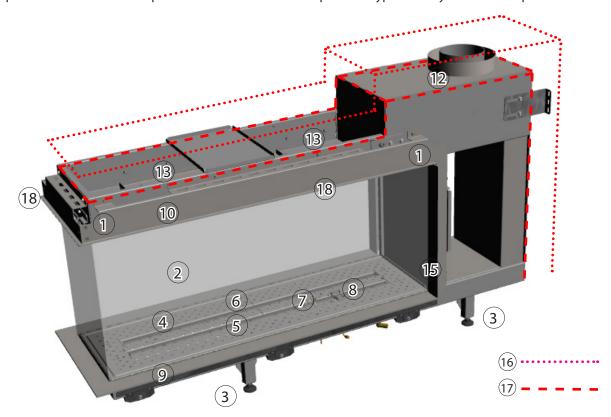
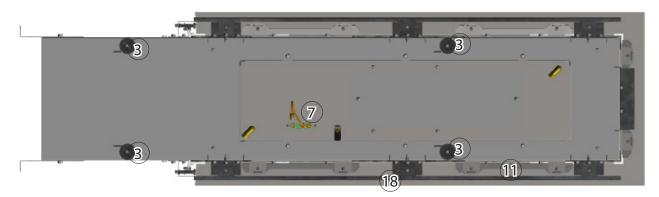


	Table of Fireplace Parts				
1	Outer Frame Face- surrounds the glass panel(s) and limits the non-combustible wall board				
2	Exterior Glass Panels (2 - Tenore 100, 3 - Lucius 100)				
3	3 Support Feet - four adjustable feet allow the fireplace to be levelled				
4	Hearth Panel - supports various Fire Media				
5	Primary Burner - produces the front flame				
6	Secondary Burner - produces the rear flame; may be controlled separately				
7	Pilot Thermocouple - the part of the safety circuit which lights the Main Burner				
8	2 <sup>nd</sup> Thermocouple - the part of the safety circuit which monitors the Main Burner				
9	Finish Trim - hides the Glass Clamps				
10	Room Air Inlet (hidden)				
11)	Glass Clamp - holds the Glass Panel in place				
12	Vent Collar - accepts the 5" x 8" venting adapter (included)				
(13)	Relief Door - part of the safety system. Do NOT block the operation.				
14	Pilot Assembly				
(15)	Side Trim - hides the Glass Clamps (2 ea Lucius 100, 4 ea Tenore 100)				
16	NO MATERIAL zone				
17	Top of fireplace				
(18)	Flange				

# **SPECIFICATIONS and DIMENSIONS**



Fireplace from below

	Table of Fireplace Parts				
1	Outer Frame Face- surrounds the glass panel(s) and limits the non-combustible wall board				
2	Exterior Glass Panels (2 - Tenore 100, 3 - Lucius 100)				
3	Support Feet - four adjustable feet allow the fireplace to be levelled				
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13	Relief Door - part of the safety system. Do NOT block the operation.				
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15)	Side Trim - hides the Glass Clamps (2 ea Lucius 100, 4 ea Tenore 100)				
16	NO MATERIAL zone				
17)	Top of fireplace				
(18)	Flange				

## **CLEARANCES**

These are **NOT** zero-clearance fireplaces. All clearances to combustible AND non-combustible materials MUST be maintained as described in this manual.

#### LOCATING THE FIREPLACE

When selecting a location for the fireplace:

- Ensure that all minimum clearances to combustible AND noncombustible materials are met.
- Provide adequate clearances for servicing.
- Consider venting dimensions (rise, run and number of elbows, etc.) when selecting the location for your fireplace.
- Locate the appliance out of traffic and away from furniture and draperies.
- Keep the location free of electrical, plumbing or other heating/air conditioning ducting.

#### PLACING THE FIREPLACE

The base upon which the appliance rests must be sturdy, level and built to safely support at least 500 pounds/230 kilograms. The base may be the floor or a purpose-built raised platform, e.g. wood, metal. When placed on a platform, an 8"/203 mm x 6"/152 mm opening must be cut through the platform top. The lineset can be routed through this opening. Room air must be allowed to flow through the Wall Access Door then through this opening.



The feet on the appliance are designed to sit on a flat platform, however the appliance must not be installed on any combustible material other than wood. For example, carpet or linoleum bases are not permitted.

Do not place anything between the bottom of the firebox and the bottom of the feet.

ENSURE THAT THE LINESET (WHICH INCLUDES THE GAS VALVE, ELECTRICAL WIRING, AND GAS LINES) DOES NOT IMPEDE THE FULL OPERATION OF THE RELIEF DOORS (if applicable). IT IS YOUR RESPONSIBILITY TO ENSURE THE SAFETY OF THESE CRITICAL COMPONENTS THROUGHOUT THE INSTALLATION PROCESS.

#### MINIMUM CLEARANCE TO COMBUSTIBLES

- The appliance is approved with a minimum clearance to combustible materials of 26"/660 mm to the top, 11"/280 mm on all sides and 4"/100 mm to the bottom. Any spacer or framing used closer than this dimension must be noncombustible (e.g. metal).
- The minimum distance from the bottom of the appliance to the room ceiling is 72"/1830 mm.
- When installing the venting, the following clearances to combustible materials MUST be maintained:
  - a. 3"/76 mm above any horizontal venting
  - b. 1"/25 mm to venting sides or below any horizontal venting
- Do not block or restrict the Room Air Inlet, located between the standoff frame and glass.

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 summary:

Back: 11"/280 mm Sides: 11"/280 mm Top: 26"/660 mm Floor: 4"/100 mm

The **Floor** dimension (above) is measured from the bottom of the firebox. When the adjustable feet are in their lowest position the required clearance to the floor is maintained.

## **LUCIUS 100/TENORE 100**

## CLEARANCES TO **COMBUSTIBLE** MATERIAL

Clearances to Combustibles		
Sides (Non-Glass Sides ONLY)	11"	
Тор	26"	
Bottom	4"	

## CLEARANCES TO NON-COMBUSTIBLE MATERIAL

Clearances to Non-Combustibles		
Sides (Non-Glass Sides ONLY)	2"	
Тор	2"	
Bottom	4"	

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

No material of any kind is allowed within 2"/50 mm from the top of the fireplace.

No material of any kind is allowed within 2"/50 mm from the metal sides the fireplace.

Facing material should be installed against the outer frame of the fireplace, with an 1/8"/3 mm vertical or horizontal clearance TO THE FLANGE allow for heat expansion.

Non-combustible materials may be installed to a zero clearance to the outer faces of the appliance outer frame face. However, they must not cover (or prevent the removal of) the glass panels or other fireplace parts.

Below the feet materials may be combustible (except for the use of linoleum or carpeting of any type).

These clearances are the same for ALL Element 4 Fireplaces, regardless of model.



Please refer to the "Reduced Clearance to Existing Combustible Wall" section for use of combustibles inside of the above clearances.

## **CLEARANCES**

### **MANTELS**

The graph below shows a range of allowable depths and heights for a combustible mantel installation.

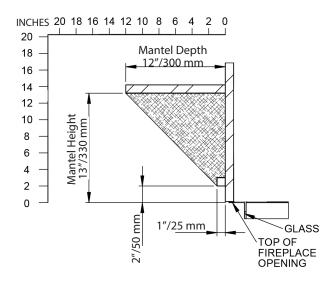
As shown, the minimum allowable mantel height above the fireplace opening is 2"/50 mm with a 1"/25 mm deep mantel.

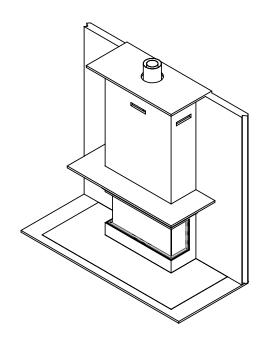
The maximum mantel depth is 12"/300 mm at a minimum height above the fireplace opening of 13"/330 mm.

All of the mantel height/depth combinations fall in between these extremes in accordance with the chart below.

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.

A typical completed installation with mantel is shown in the diagram below, on the right.





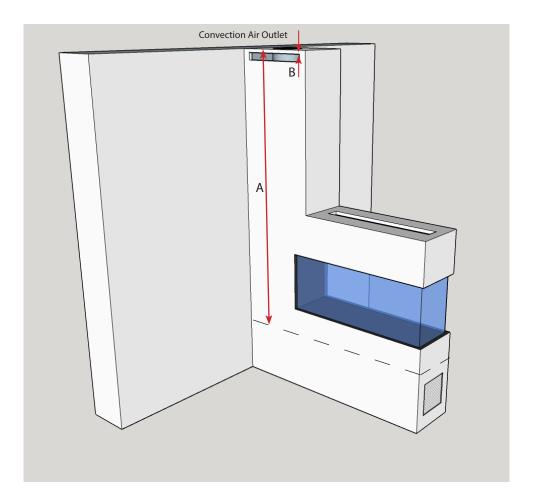
## **CLEARANCES**

#### **TYPICAL CLEARANCE DIAGRAMS**

The total area of the convection air outlet(s) depends on the fireplace model. The location of the outlet(s) must allow for the free movement of air and must not allow excessive convection air to build up within the chase.

The top of the outlet(s) must be *at least* 1"/25 mm down from the *room* ceiling and we recommend no more than 3"/76 mm down. The top of the outlet(s) must be *no more* than 1"/25 mm down from the *chase* ceiling.

The minimum distance from the bottom of the appliance to the room ceiling is 72"/1830 mm.



Minimum Distances			
Α	Room ceiling to appliance bottom	72" 1830 mm	
В	Room ceiling to top of Convection Air Outlet	1" 25 mm	

Convection Air Outlet Area by Model					
Model	Square Inches	Square Centimeters			
Lucius 100	70	452			
Tenore 100	70	452			

## **GAS and ELECTRIC**

#### INSTALLING THE GAS LINE

Correctly size and route the gas supply line from the supply regulator to the area where the appliance is to be installed as per requirements outlined in the latest edition of the National Fuel Gas Code, NFPA 54 (USA) or CAN/CSA-B149.1 (Canada).

Never use galvanized or plastic pipe unless specified for use with gas. Refer to the table below for proper sizing of the supply gas line. Gas lines must be 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.

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" NPT fitting.

This fireplace is shipped from the factory for use with natural gas. See appendix for LP (propane) conversion instructions.

Schedule 40 Black Iron Pipe				
	Natural Propane Gas Gas			
Length (feet)	Inside Diam	eter (Inches)		
0 - 10	1/2	3/8		
10 - 40	1/2	1/2		
40 - 100	1/2	1/2		
100 - 150	3/4	1/2		
150 - 200	3/4	1/2		

### **ELECTRICAL REQUIREMENTS**

The Element4 fireplaces use a receiver and remote control for their burner operation. The remote control comes with (3) AAA batteries and the receiver is powered by a 120V AC adapter, included. The fireplace should be powered by the AC adapter for improved reliability and customer satisfaction.

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

The receiver may be powered by *either* the AC adapter *or* (4) AA batteries - *not both. Batteries do not provide an electrical backup for the AC adapter. Using batteries in combination with the AC adapter can lead to a damaged 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.



#### **CONFIGURING THE VENTING**

The fireplaces in this manual are direct vent fireplaces that use a co-axial or "pipe within a pipe" venting system. The outer "pipe" or vent conducts fresh, outside air into the fireplace and the inner vent carries the exhaust outside. This system, which can run either horizontally through a side wall or vertically through the roof, produces an efficient system because conditioned building air is not used for combustion.

- Only the 5" x 8" direct vent components from M&G DuraVent are approved for use with these fireplaces. Any of the M&G DuraVent 5" x 8" direct vent components suitable for the local condition are permitted. Please visit www.europeanhome.com/ gr-support or via the QR code below for installation instructions.
- This fireplace is shipped with a North American venting adapter. It MUST attach to the vent collar of the fireplace.
- All venting measurements are taken from the top center of the vent collar on the top of the fireplace and all configurations must fall within the acceptable range of the venting charts.
- A minimum clearance of 3"/75 mm must be maintained between combustible materials and the top of any horizontal vent pipe surface; a minimum clearance of 1"/25 mm must be maintained between combustible materials and any other vent pipe surface.
- The horizontal parts of the venting must be pitched up away from the fireplace. For every 12" / 305 mm of horizontal run, the venting must rise 1/4" / 6.5 mm toward the termination. The venting must never run downward unless with the use of a power vent.
- · Whenever venting passes through a wall, an approved heat shield or 'wall thimble' must be installed.
- A power vent system is available for venting that falls outside of the venting graphs. Refer to the appropriate power vent manual for any venting configuration which is outside of the vent graphs shown here.
- Your venting needs to be inspected annually, including any connected components, to ensure that the system is working as
  designed.

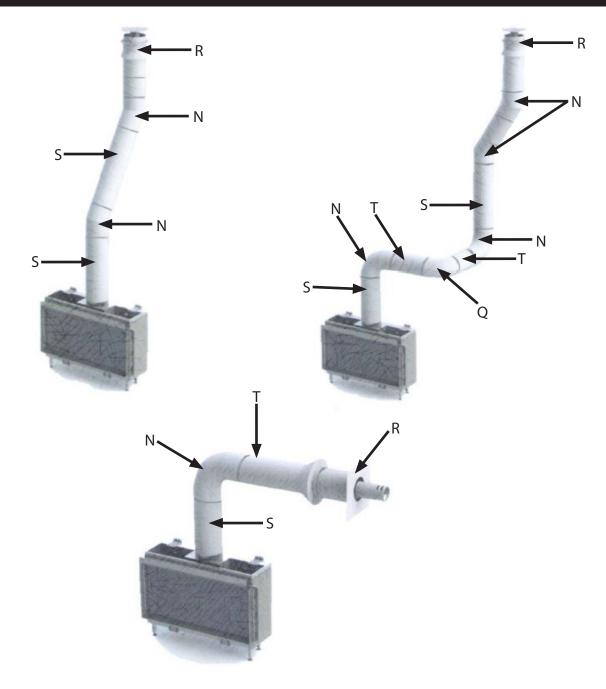
APPROVED MANUFACTURERS and COMPONENTS			
Manufacturer Components			
M&G DuraVent, Inc.*	only DirectVent Pro® 5" x 8" venting components		

For the M&G venting installation guide or power venting installation manuals please visit the link below.

www.europeanhome.com/qr-support



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Vertical or Horizontal Vent Termination	R
45 or 90 degree bends Vertical to Horizontal or vice versa	N
45 and 90 degree bends Horizontal to Horizontal	Q
Horizontal Pipe Section	Т
Vertical Pipe Section	S

### **CALCULATING THE TOTAL VERTICAL SECTION (TVS)**

Calculate the Total Vertical Section by adding up all vertical upward sections in your specific vent design.

## **CALCULATING THE TOTAL HORIZONTAL SECTION (THS)**

Calculate the Total Horizontal Section by adding up all vertical upward sections in your specific vent design.

#### **BEWARE OF ELBOWS**

Elbows do not help the movement of air through your venting configuration and must be included when determining your minimum and maximum vent lengths.

45° elbows are calculated as either vertical or horizontal depending on positioning.

There are (2) types of elbows:

**TYPE N** 45° and 90° elbows from vertical to horizontal and vice versa

-The first (3) N elbows do not need to be included in venting calculations.

-For every extra N elbow, you must add 40"/(1m) to your THS

**TYPE Q** 45° and 90° elbows from horizontal to horizontal

-For each 90° elbow in the horizontal section you must add 80"/(2m) to your THS

-For each 45° elbow in the horizontal section you must add 40"(1m) to your THS

#### INTERPRETING THE GRAPH RESULTS

Once you have found your total vertical section (**TVS**) and your total horizontal section (**THS**) determine where you vent configuration will terminate on the corresponding venting chart (shown on the next page).

These venting numbers will correlate as follows:

0	venting possible, no restrictor needed
35	venting possible, 35mm restrictor needed
Х	venting NOT possible

If your venting configuration lands on a block with an "X" the configuration is not possible.

For venting configurations that land on an "X" a power vent option may be available.

### **CALCULATING THE TOTAL VERTICAL SECTION (TVS)**

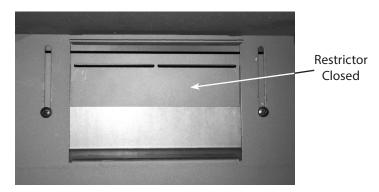
Calculate the Total Vertical Section by adding up all vertical upward sections in your specific vent design.

### CALCULATING THE TOTAL HORIZONTAL SECTION (THS)

Calculate the Total Horizontal Section by adding up all vertical upward sections in your specific vent design.

### **INSTALLING A RESTRICTOR**

Some vent configurations may require a restrictor plate be installed. The restrictor for this fireplace is installed on the inside top of the fireplace and is to be slid open or closed. Loosen the screws on either side and slide the restrictor as desired. Do not modify the restrictor(s). Please use the graph above to determine if you will need to use a restrictor.



**Restrictor Fully Closed** 



Restrictor Fully Open

## **HORIZONTAL TERMINATIONS & RESTRICTOR USE**

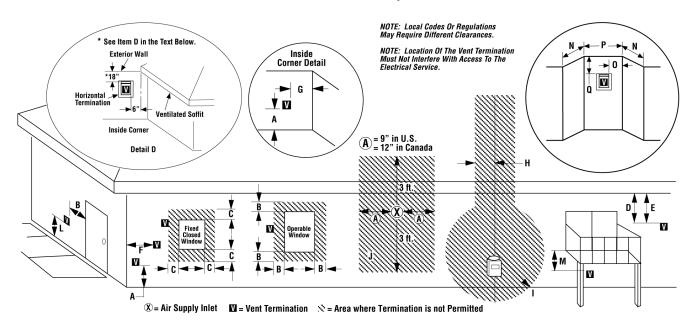
32'10" (10 m)	35	35	35	35	35	0	0	
29'7" (9 m)	35	35	35	35	35	0	0	
26'3" (8 m)	35	35	35	35	35	0	0	
23'(7 m)	35	35	35	35	35	0	0	
19'8" (6 m)	35	35	35	35	35	0	0	
16'5" (5 m)	35	35	35	35	35	0	0	
13'2" (4 m)	35	35	35	35	35	0	0	
11'6" (3.5 m)	35	35	35	35	35	0	0	
9'10" (3 m)	0	0	0	0	0	0	0	
8'3" (2.5 m)	0	0	0	0	0	0	x	
6'7" (2 m)	0	0	0	0	0	Х	x	
5' (1.5 m)	0	0	0	0	Х	Х	X	
3'4" (1 m)	0	0	0	x	х	х	x	
1'8" (0.5 m)	0	0	X	x	X	х	x	
inches (meters)	0 - 1'7"	1'8" (0.5 m)	3'4" (1 m)	5' (1.5 m)	6'7" (2 m)	8'3" (2.5 m)	9'10" (3 m)	

## **VERTICAL TERMINATIONS & RESTRICTOR USE**

	Х	х	Х	х	х	х	х
72'3" (22 m)	0	Х	Х	Х	Х	х	Х
68'11" (21 m)	35	35	0	Х	Х	х	х
65'8" (20 m)	35	35	35	35	0	х	Х
62'5" (19 m)	35	35	35	35	35	35	0
60' (18 m)	35	35	35	35	35	35	0
55'10" (17 m)	35	35	35	35	35	35	0
52'6" (16 m)	35	35	35	35	35	35	0
49'3" (15 m)	35	35	35	35	35	35	0
46' (14 m)	35	35	35	35	35	35	0
42'8" (13 m)	35	35	35	35	35	35	0
39'5" (12 m)	35	35	35	35	35	35	0
36'2"(11 m)	35	35	35	35	35	35	0
32'10" (10 m)	35	35	35	35	35	35	0
29'7" (9 m)	35	35	35	35	35	35	0
26'3" (8 m)	35	35	35	35	35	35	0
23' (7 m)	35	35	35	35	35	35	0
19'8" (6 m)	35	35	35	35	35	35	0
16'5" (5 m)	35	35	35	35	35	35	0
13'2" (4 m)	35	35	35	35	35	35	0
11'6" (3.5 m)	35	35	35	35	35	35	0
9'10" (3 m)	0	0	0	0	0	0	0
8'3" (2.5 m)	0	0	0	0	0	0	Х
6'7" (2 m)	0	0	0	0	0	X	X
5' (1.5 m)	0	0	0	0	X	X	X
3'4" (1 m) 1'8" (0.5 m)	0	0 X	0	X X	X X	X X	X X
inches (meters)	0 - 1'7"	1'8" (0.5 m)	3'4" (1 m)	5' (1.5 m)	6'7" (2 m)	8'3" (2.5 m)	9'10" (3 m)

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### HORIZONTAL VENT TERMINATION CLEARANCES AND REQUIREMENTS



	US Installation**	Canadian Installation*
A = Clearance above grade, veranda, porch, deck, or balcony.	12 inches (30cm)**	12 inches (30cm)*
B = Clearance to window or door that may be opened.	6 inches (15cm) for appliances < 10,000 Btuh (3kW), 9 inches (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12 inches (30cm) for appliances > 50,000 Btuh (15kW)**	6 inches (15cm) for appliances < 10,000 Btuh (3kW), 12 inches (30cm) for appliances > 10,000 Btuh (3kW)
C = Clearance to permanently closed window	9 inches (229mm) recommended to prevent window condensation	12 inches (305mm) recommended to prevent window condensation
D = Vertical clearance to ventilated soffit located above the termination within a horizontal distance of 18 inches (458mm) from the center line of the termination	18 inches (458mm)	18 inches (458mm)
E = Clearance to unventilated soffit	12 inches (305mm)	12 inches (305mm)
F = Clearance to outside corner	5 inches (12.7cm) minimum	5 inches (12.7cm) minimum
G = Clearance to inside corner	2 inches (5.08cm) minimum - SV4.5HT-2	2 inches (5.08cm) minimum - SV4.5HT-2
H = Clearance to each inside of center line extended above meter/regulator assembly	3 feet (91cm) within a height of 15 feet above the meter/regulator assembly**	3 feet (91cm) within a height of 15 feet above the meter/regulator assembly*
I = Clearance to service regulator vent outlet	3 feet (91cm)**	3 feet (91cm)*
J = Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance	6 inches (15cm) for appliances < 10,000 Btuh (3kW), 9 inches (23cm) for appliances > 10,000 Btuh (3kW) and < 50,000 Btuh (15kW), 12 inches (30cm) for appliances > 50,000 Btuh (15kW)**	6 inches (15cm) for appliances < 10,000 Btuh (3kW), 12 inches (30cm) for appliances > 10,000 Btuh (3kW)
K = Clearance to a mechanical air supply inlet	3 feet (91cm) above if within 10 feet (3m) horizontally**	6 feet (1.83m)*
L = Clearance above paved sidewalk or paved diveway located on public property	7 feet (2.13m)‡	7 feet (2.13m)‡
M = Clearance under veranda, porch, deck or balcony	12 inches (30cm)‡	12 inches (30cm)*‡
N = Depth of Alcove (Maximum)	6 feet (1.83m)**	6 feet (1.83m)*
0 = Clearance to Termination (Alcove)	6 inches (15.2mm)**	6 inches (15.2mm)*
P = Width of Alcove (Minimum)	3 feet (91cm)*	3 feet (91cm)*
Q = Clearance to Combustible Above (Alcove)	18 inches (457mm)**	18 inches (457mm)*
* In accordance with the current CSA-R1/0 1 National Gas And	Pronana Installation Code	

<sup>\*</sup> In accordance with the current CSA-B149.1 National Gas And Propane Installation Code.

<sup>\*\*</sup> In accordance with the curent ANSI SZ223.1/NFPA 54 National Fuel Gas Codes.

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

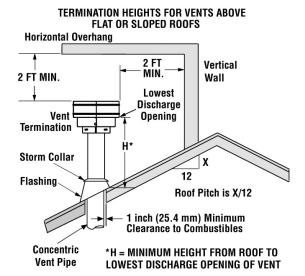
<sup>\*‡</sup> Only permitted if veranda, porch, deck or balcony is fully open on a minimum 2 sides beneath the floor:

### **VERTICAL TERMINATION CLEARANCES AND REQUIREMENTS**

### **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.

### **Vertical Vent Termination Clearances**

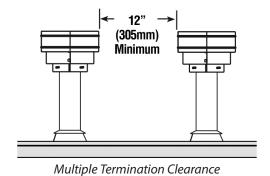


The vent / air intake termination clearances above the high side of an angled roof is as shown in the following chart:

Termination Heights For Vents Above Flat Or Sloped Roofs Ref. NFPA 54 / ANSI Z223.1				
Roof Pitch	* Feet	* Meters		
Flat to 6/12	1.0	0.3		
6/12 to 7/12	1.25	0.38		
7/12 to 8/12	1.5	0.46		
8/12 to 9/12	2.0	0.61		
9/12 to 10/12	2.5	0.76		
10/12 to 11/12	3.25	0.99		
11/12 to 12/12	4.0	1.22		
12/12 to 14/12	5.0	1.52		
14/12 to 16/12	6.0	1.83		
16/12 to 18/12	7.0	2.13		
18/12 to 20/12	7.5	2.29		
20/12 to 21/12	8.0	2.44		

**Termination Heights** 

A second termination may be no closer than 12"/305 mm.



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#### **COMBUSTIBLE MATERIALS**

Materials that can catch fire and burn are considered combustible. 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. Even though these materials may have been 'flame-proofed', made 'fire-resistant' or are 'fire-rated' they are considered combustible. Standard and Type X drywall are both combustible.

### NON-COMBUSTIBLE MATERIALS

A material is said to be non-combustible when it cannot catch fire and burn. For example, materials made entirely, or in combinations, of, stone, brick, concrete, tile, steel, plaster or glass are considered non-combustible.

The table below shows a list of materials which, as of this writing, are reported by their manufacturers to be non-combustible (in accordance with the ASTM E136 standard) **AND** approved for use around fireplaces.

Skamol Skamotec® 225 and the Promat PROMAFOUR® system are preferred products for enclosing fireplaces.

Product	Thickness
Skamol Skamotec® 225 Fireplace Building Board	1½″/38 mm
Promat PROMAFOUR® System	½"/12 mm, 5/8"/15 mm, 3/4"/18 mm
James Hardie Building Products HardieBacker® 500 ½" Cement Board	1/2"/12 mm
James Hardie Building Products HardieBacker® ¼" Cement Board	1⁄4"/6 mm

<sup>\*</sup> The listed brand names are trademarks of their respective companies

Skamol Americas, Inc. (844) 475-2665 E-mail: skamotec225@skamol.com www.skamotec225.com

Promat Inc. (865) 681-0155 E-mail: sales@promat.us www.promat.us/en

James Hardie Building Products (888) 542-7343 www.jameshardie.com

#### **BUILDING THE ENCLOSURE**

A safe installation of your Element4 fireplace requires that four things be clearly understood.

- 1. Most important, these fireplaces are NOT zero-clearance fireplaces. Unlike zero-clearance fireplaces, there is not a metal box around the Element4 fireplaces. With no metal box there are no louvers to distract your view of the fire. However, we want the cooling advantage of a metal box so your site-built, non-combustible enclosure will substitute.
- 2. Your fireplace enclosure must be made to act the way a metal fireplace box acts letting room air in below and warm convection air out above. The framing cannot interfere with the air flow. The Room Air Inlet is part of the fireplace and cannot be changed or adjusted. The convection air outlet is part of your enclosure design, is provided by you and MUST be included. Note! The convection air outlet must be installed in the same room as the fireplace or a space which ALWAYS flows air into the room in which the fireplace is installed. The flow of convection air must NOT be blocked.
- 3. Since these are not zero-clearance fireplaces, the clearances and dimensions listed in the CLEARANCES section MUST be maintained. Only the non-combustible wall, the mounting brackets and the venting may touch the fireplace. As previously stated, NOTHING may be built closer than 2"/50 mm to the non-glass sides.
- 4. The controls will be mounted to your enclosure and below the burner. The controls are at the end of a 50"/1270 mm line set and are to be mounted to the Wall Access Door which is included. The controls must be located for ease of physical access (gas line, maintenance, etc.) as well as wireless signal (remote control) access. See the LOCATING THE CONTROLS and the MOUNTING THE CONTROLS sections.

The combination of multiple glass sides and no zero-clearance box makes for a non-typical enclosure project. It may seem straightforward to build the 'rough opening', set the fireplace then attach the wall. However, *for most projects*, it will be easier to first set the fireplace in position then enclose it with Skamol Skamotec® or Promat PROMAFOUR® building board.

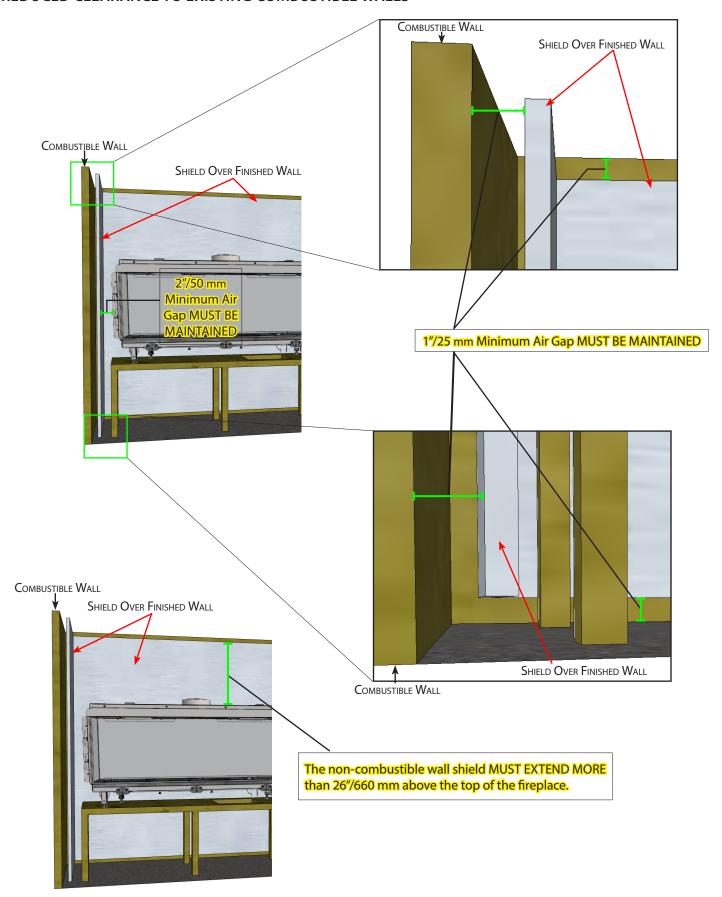
#### REDUCED CLEARANCE TO EXISTING COMBUSTIBLE WALLS

When retrofitting the fireplace against an existing wall it is often desirable to reduce the distance between the fireplace and the combustible wall. Normally, this distance is 11"/280 mm but it may be reduced by shielding the existing finished wall with a 1" air gap and a sheet of non-combustible material as shown.

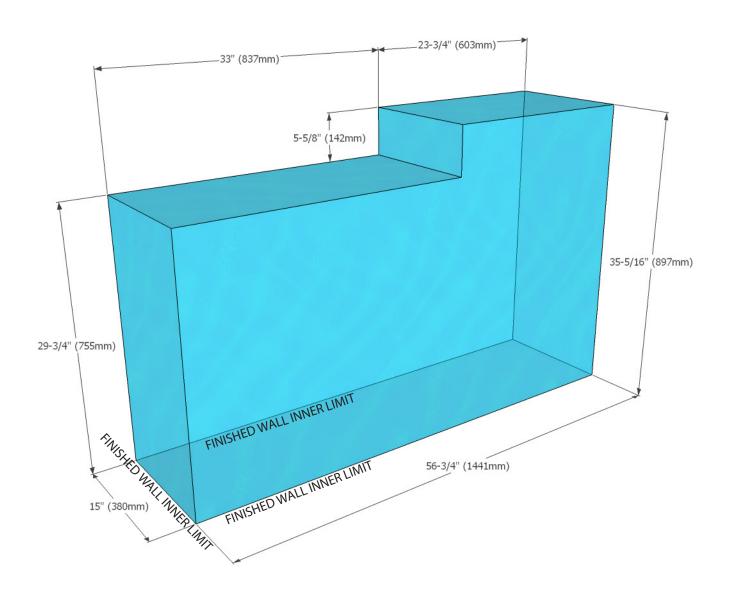
### IN ALL CASES:

- A reduced clearance shield is ONLY ALLOWED ON A VERTICAL WALL; IT IS NOT ALLOWED TO BE USED ON OTHER SURFACES WITHIN THE NON-COMBUSTIBLE ZONE.
- The non-combustible wall shield MUST extend more than 26"/660 mm above the top of the fireplace. The shield shall be placed no closer than 1"/25 mm to the floor or any intersecting walls. Air MUST be allowed to continually circulate around all sides of the wall shield.
- A 17/25 mm air gap between the wall shield and the existing wall MUST be maintained.
- A 2"/50 mm air gap between the wall shield and the fireplace MUST be maintained.

## REDUCED CLEARANCE TO EXISTING COMBUSTIBLE WALLS



MINIMUM AREA REQUIRED FOR LUCIUS 100

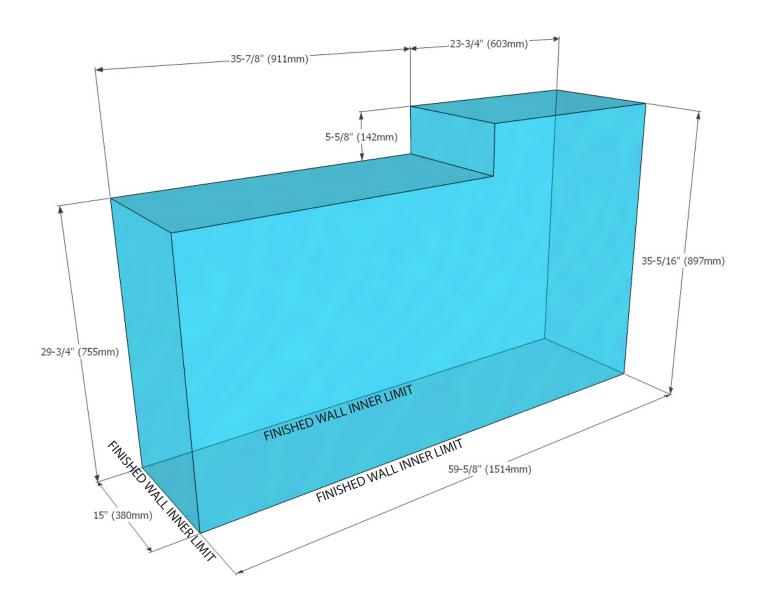


When enclosing the Lucius 100 fireplace there is a minimum clear area which must be maintained. Nothing except the Lucius 100 may be within this area. When enclosed, the Lucius 100 is flush - short glass side standoff frame flush with the Finished Wall Limit - above. This minimum area MUST BE DEFINED BY NON-COMBUSTIBLE MATERIAL. The inside of the enclosing walls (including any necessary framing) may be no less than the distances shown above.

Note! The finished walls must be at least 11/8"/28 mm thick or the fireplace trim will extend beyond the finished walls.

We recommend that the fireplace be set into its final location before building the enclosure.

MINIMUM AREA REQUIRED FOR TENORE 100



When enclosing the Tenore 100 fireplace there is a minimum clear area which must be maintained. Nothing except the Tenore 100 may be within this area. When enclosed, the Tenore 100 is centered - left to right and front to back - within this minimum area, above. This minimum area MUST BE DEFINED BY NON-COMBUSTIBLE MATERIAL. The inside of the enclosing walls (including any necessary framing) may be no less than the distances shown above.

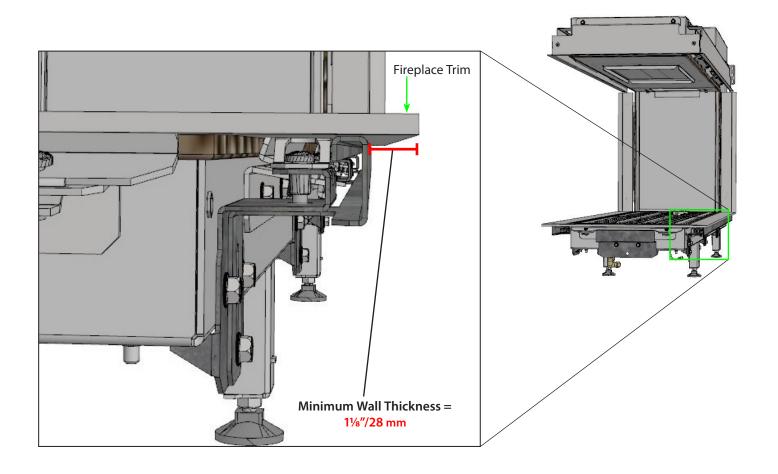
Note! The finished walls must be at least 11/8"/28 mm thick or the fireplace trim will extend beyond the finished walls.

We recommend that the fireplace be set into its final location before building the enclosure.

The finished wall(s) must be at least 11/8"/28 mm thick or the fireplace trim will extend beyond the finished wall. The list below shows the thickness of the approved wall products.

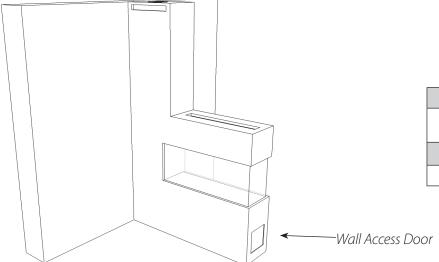
Your choice of wall material depends largely on the intended finish. For example, a thinner wall product and a layer of stone may be thick enough to reach the trim edge. If a painted finish is desired then a wall at least 11/8"/28 mm thick will suffice.

Product	Thickness
Skamol Skamotec® 225 Fireplace Building Board	1½"/38 mm
Promat PROMAFOUR® System	½″/12 mm, 5/8″/15 mm, 3/4″/18 mm
James Hardie Building Products HardieBacker® 500 ½" Cement Board	1/2"/12 mm
James Hardie Building Products HardieBacker® ¼" Cement Board	1⁄4"/6 mm



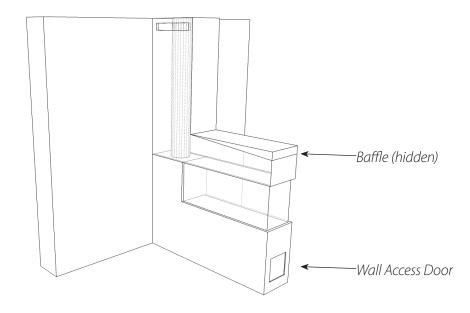
### **CONVECTION AIR OPENING**

A convection air outlet is always required. The opening size of the convection air outlet varies by fireplace model. The **CLEARANCES** section shows the minimum total area required for the various models in this manual. The convection air outlet may take many forms and must always allow the free flow of warm air up through the chase and out into the room in which the fireplace is installed. Shown here are a number of ways to design the convection air outlet into your project.



Convection Air Outlet Area by Model					
Model	Square Inches	Square Centimeters			
Lucius 100	70	452			
Tenore 100	70	452			

Lucius with Open Top



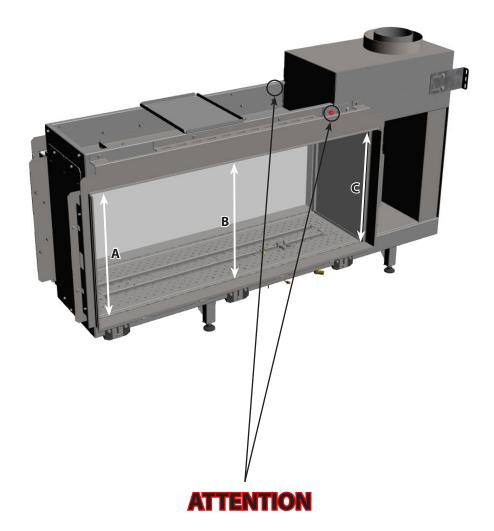


# DO NOT ALLOW THE FIREPLACE TO BEAR ANY WEIGHT



Dimension A, B, and C must be equal throughout the installation.

Any support framing (NON-combustible framing ONLY) must be at least 2"/50 mm away, above and beside the fireplace. The entire weight of the non-combustible walls must be borne by a structure other than the fireplace.



There are (2) travel locking nuts (one on either side). These MUST be loosened by (1) turn BEFORE the appliance is fired.



#### **COLD CLIMATE INSULATION**

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.

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 firestops.

#### LOCATING THE CONTROLS

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

- the receiver
- the remote
- · the gas valve

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 beside the fireplace.

The Wall Access Door is provided with your fireplace and is designed to hold the receiver and gas control. When locating the Wall Access Door you must consider four types of access:

- 1. Air access. Room air must be allowed to flow freely through the door perforations, up through the site-built platform and above, through the enclosing fireplace chase.
- 2. 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.
- 3. Physical access. The gas valve/receiver must be readily accessible for maintenance, etc.
- 4. Wireless access. The signals from the remote must get to the receiver, inside the access door.

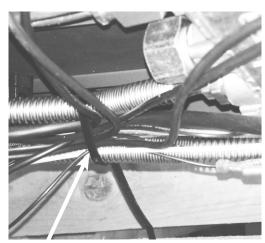
If the Access Door is not used its air access equivalent (25 square inches) as well as line set, physical and wireless access must be provided.

### MOUNTING THE CONTROLS

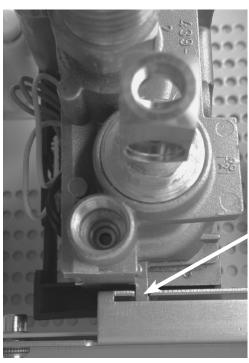
Do not place the controls above the level of the burner. If the fireplace is to set directly on the floor, the controls must be placed outside the non-combustible zone or insulated from the heat from the fireplace.

The Wall Access Door ( $11\frac{1}{4}$ "/286 mm high x  $8\frac{7}{16}$ "/214 mm wide outer frame) requires a rough opening of  $9^{13}\frac{1}{16}$ "/250 mm high x  $6^{15}\frac{1}{16}$ "/175 mm wide. The door should be mounted with the hinge on the left side or with the hinge side down.

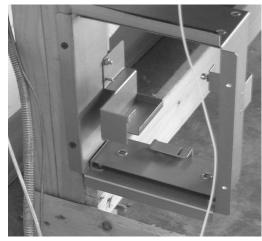
Wall Access Door Dimensions	
Outer Frame	Rough Opening
11¼"/286 mm x 8½6"/214 mm	9 <sup>13</sup> /16"/250 mm x 6 <sup>15</sup> /16"/175 mm



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.

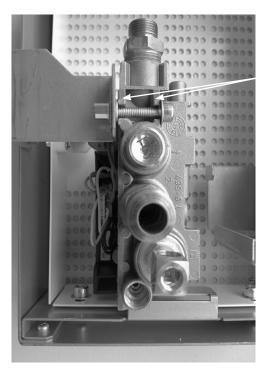


Fit the gas control tab into the bracket on the Access Door frame.



Remove the four bolts holding the white door/ frame cover to the frame. Separate the frame and cover then mount the Access Door frame to the rough opening as shown.

Replace the white door/frame cover onto the frame and secure it with the four bolts.

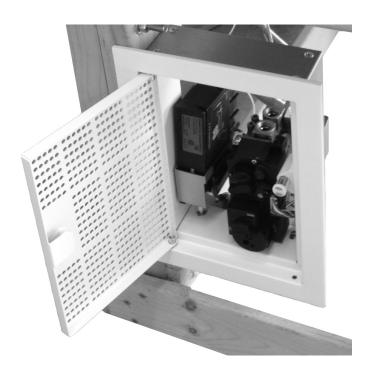


Tighten the bolt through the mounting bosses.



Set the receiver into the Wall Access Door bracket as shown and connect the AC adapter.

Wall Access Door with gas control and receiver mounted.



#### **TEST FIRE**

Prior to being placed into operation, the fireplace should be test-fired in stages to ensure that all components are in good working order. This fireplace has a 2<sup>nd</sup> thermocouple which senses the main burner flame. The system will turn itself off if the system does not sense the 2<sup>nd</sup> thermocouple output within 20 seconds after the main valve opens.

Note that a single, long beep indicates that the 2<sup>nd</sup> thermocouple is still hot enough to produce electricity at the receiver which will not allow the fireplace to start. Allow time for the 2<sup>nd</sup> thermocouple to cool down before attempting a start. The system is ready to start when 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 main 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 2<sup>nd</sup> thermocouple and the fireplace stays lit for at least 1 full minute. If the system turns itself off after 20 seconds install the required media (next section) and return here. Installing the fire media will help with the flame around the 2<sup>nd</sup> 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 20 seconds, rearrange the media to produce a good flame at the 2<sup>nd</sup> 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 2<sup>nd</sup> thermocouple is still too hot to start the ignition sequence. Allow time for the 2<sup>nd</sup> 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.

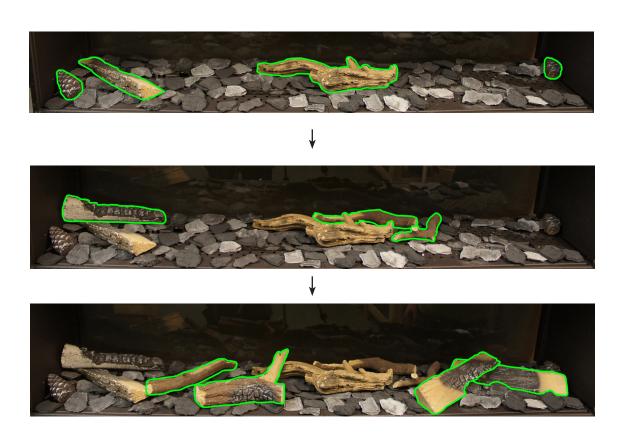
#### LOG ARRANGEMENTS

Ensure that the hearth panels are properly placed and sitting firmly on the base of the fire box. The pilot flame must be visible through the panel and the cut-out in the pilot shield. Scatter the bag of chips evenly on the hearth panel and burners. Ensure that the area inside the pilot shield and the area around the 2nd thermocouple remains clear of media.

### What's in the box? (LSE 418 II)

- -(1) small bag of ash
- -(2) bags of black/grey chips
- -(2) pine cones
- -(9) logs

With the embers scattered across the burner and hearth panel, lay the logs in the following sequence...





The bag of ash (shown left) comes with your log set. Its purpose is to make the logs look more realistic. The use of this ash is optional.

#### To use:

- Sprinkle the ash onto the logs as desired.
- Make sure that the ash **DOES NOT** get inside of the burner ports. If so, clogging may occur.

## **INSTALLING THE FIRE MEDIA**

#### STONES/GLASS ARRANGEMENTS

Ensure that the hearth panel is sitting firmly on the base of the fire box and the shield is installed around the 2<sup>nd</sup> thermocouple. The center panel must be inserted in between the burner tubes. The pilot flame must be visible through the hearth panel and the pilot shield.

Evenly scatter the contents of the bag of stones/glass over the top of the hearth panel and burner. Ensure that none of the stones/glass enters the pilot area or restricts the operation of the 2<sup>nd</sup> thermocouple.

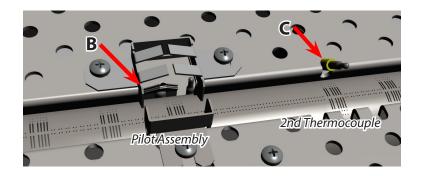
The arrangement is now complete. However, it is important to check that the pilot flame is still visible.

A shows the arrangement for stones; the arrangement for glass is similar.



**B** shows the pilot area (below) clear of media (above).

C shows the 2<sup>nd</sup> thermocouple area (below) clear of media (above).



To see how to arrange media in an Element4 fireplace please visit the link below.

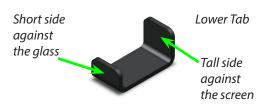
WWW.EUROPEANHOME.COM/RESOURCES/VIDEOS/



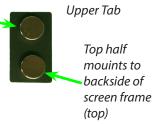
## **SCREEN INSTALLATION**

LUCIUS 100				
Upper Tabs	5			
Lower Tabs	5			
Magnets	15			
Long Screen	2			
Short Screen	1			

TENORE 100					
Upper Tabs 4					
Lower Tabs	4				
Magnets	12				
Long Screen	2				
Short Screen	N/A				



Top half mounts to backside of standoff frame (top)

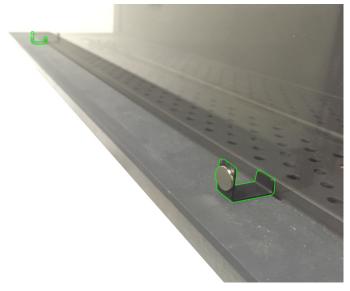








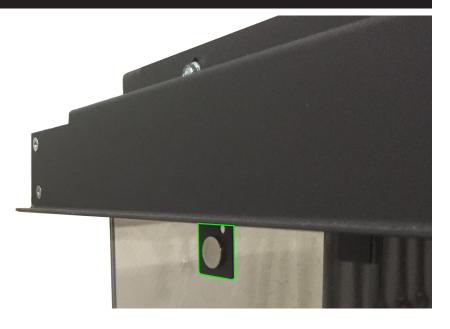
Long Screen

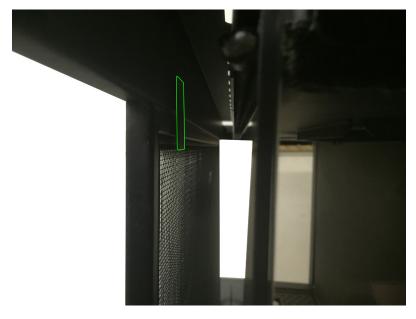


Place the (2) Lower Tabs on the trim, with the short side against the glass, ~2-3" from each corner of the glass. Place a magnet on the front of each tab.

## **SCREEN INSTALLATION**

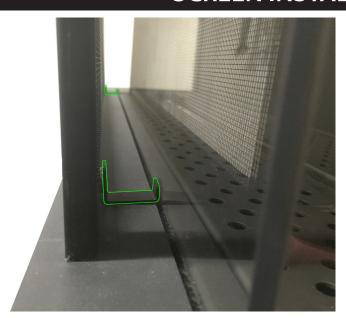
Place the (2) Upper Tabs on the inside of the top stand off frame. One magnet will be hidden, attached to the standoff frame. The other magnet will be exposed to attach to the screen.





This is what the screen will look like when it is attached correctly to the top Upper Tabs (view from inside of the standoff frame).

## **SCREEN INSTALLATION**



This is what the screen will look like when it is attached correctly to the top Lower Tabs (view between the screen and the glass).



The screen is installed properly in the photo above. Please make sure that all magnets are in the correct position and the tabs are secured.

#### 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. PROPERLY PLACE, CLAMP, AND SEAL THE GLASS PANELS.

- 6. Ensure the receiver is plugged in with AC Adapter OR Batteries... NOT BOTH.
- 7. Place the three AAA batteries into the remote control and confirm that it will communicate with the receiver by pressing the *ON/OFF* button. If necessary pair the remote and receiver.
- 8. Follow USING THE REMOTE CONTROL ELECTRONIC IGNITION SEQUENCE to setup and use remote.

#### PAIRING THE REMOTE AND RECEIVER (System Reset)

From the factory, the remote control will communicate with the receiver; they are 'paired' and should need no further attention. If the receiver does not respond to commands from the remote they should be paired to each other. This is done as follows:

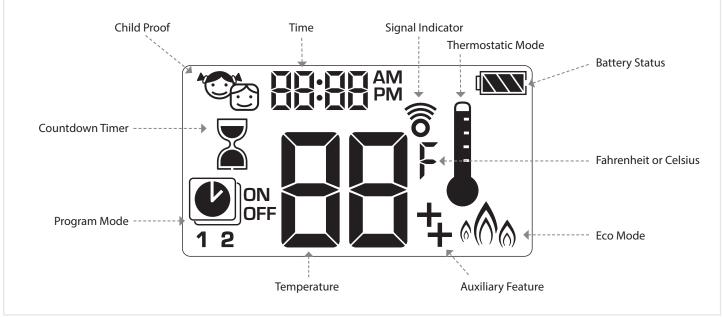
- 1. Press and hold the receiver reset button using a small, long tool until you hear the second of two beeps. After the second beep release the reset button.
- 2. Press and hold the v button on the remote until you hear the second of two beeps. Release the v button.

If you hear one long beep, this indicates the pairing sequence has failed or the wiring is incorrect.





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



Display

#### SETTING FAHRENHEIT or CELSIUS



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

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

#### SETTING the TIME



- Press (a) and (b) buttons simultaneously.
   Day flashes.
- 2. Press ♠ or ♥ button to select a number to correspond with the day of the week (e.g. !=Monday, ₹=Tuesday, ₹=Wednesday, Ч=Thursday, \$=Friday, \$=Saturday, ₹=Sunday).
- 3. Press A and v buttons simultaneously. Hour flashes.
- 4. To select hour press ♠ or ♥ button.
- 5. Press A and buttons simultaneously.
  Minutes flash.
  - 6. To select minutes press ♠ or ♥ button.
  - 7. To confirm press (A) and (V) buttons simultaneously or wait.

#### **CHILD PROOF**



#### ON:

To activate, press and buttons simultaneously displayed and the remote is rendered inoperable, except for the off function.

#### OFF:

To deactivate press (b) and (c) buttons simultaneously. (c) disappears.

#### MANUAL MODE (REMOTE)

#### NOTICE

#### **BEFORE OPERATING**

- 1. Make sure MANUAL knob on the 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

\*\*\*PLEASE SEE NEXT PAGE FOR FURTHER INSTRUCTIONS\*\*\*

#### **WARNING**

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



Remote One-Button Operation (Default Setting)

- Press and hold 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.
- Remote 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**.



Remote Two-Button Operation

- Press (a) 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.
- Remote 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**.

#### **WARNING**

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

#### STANDBY MODE (PILOT FLAME)

#### Remote

• Press and hold v button to set appliance to pilot flame.

#### TO TURN OFF FIRE



Remote

• Press (b) button to turn OFF.

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

#### FLAME HEIGHT ADJUSTMENT



Remote

- To increase flame height press and hold button.
- To decrease flame height or to set appliance to pilot flame, press and hold  $\widehat{\mathbf{V}}$  button.

#### **DESIGNATED LOW FIRE and HIGH FIRE**

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



- •To go to low fire, double-click  $\widehat{\mathbf{Y}}$  button.  $\mathbf{L}\widehat{\mathbf{U}}$  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.

#### **WARNING**

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

#### COUNTDOWN TIMER



ON/SETTING:

- Press and hold button until displayed, and hour flashes.
- 2. To select hour press A or v button.
- 3. To confirm press button. Minutes flash
- 4. To select minutes press ♠ or ♥ button.
- 5. To confirm press button or wait.

OFF:

Press button, 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.

#### 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.



#### ♠ 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 approximately 20 minutes.

#### THERMOSTATIC MODE



#### ON

Press **1** button. **1** displayed, preset temperature displayed briefly, and then room temperature displayed.

#### OFF:

- 1. Press (1) button.
- 2. Press (A) or (Y) button to enter Manual Mode.
- 3. Press button to enter Program Mode.
- 4. Press 🏟 button to enter Eco Mode.



#### SETTING:

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

#### **PROGRAM MODE**



#### ON:

Press button. 4 or 2, ON or OFF displayed.



#### OFF.

- 1. Press or A or v button to enter Manual Mode.
- 2. Press **()** button to enter Thermostatic Mode.

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  $^{\circ}$ C (70  $^{\circ}$ F) OFF TIME TEMPERATURE: "--" (pilot flame only)



#### TEMPERATURE SETTING:

- 1. 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.
- 3. Select off temperature by pressing the ♠ or ♥ button.
- 4. 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, 1, 2, 3, 4, 5, 6, 7.
- 6. To confirm press button.

#### **RLL** selected



ON TIME SETTING (PROGRAM 1):

- 7. , 1, ON displayed, RLL is displayed shortly, and hour flashes.
- 8. To select hour press A or V button.
- 9. To confirm press button. 4, 1, ON displayed, ALL displayed shortly, and minutes flash.
- 10. To select minutes press A or V button.
- 11.To confirm press button.

#### **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 (\$\frac{1}{2}\$) button. \$\frac{1}{2}\$ disappears.



OFF TIME SETTING (PROGRAM 1):

12. **1, OFF** displayed, RLL is displayed shortly, and hour flashes.

13.To select hour, press ♠ or ♥ button.

14.To confirm press button. J, **1, OFF** displayed, ALL displayed shortly, and minutes flash.

15.To select minutes press ♠ 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, 5R:5U and Daily Timer (1, 2, 3, 4, 5, 6, 1).

Once a new on (Thermostatic) and/or off temperature has been set, that temperature becomes the new default setting.

NOTE: If RLL, 5R:5U or Daily Timer are programmed for PROGRAM 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.

58:50 or Daily Timer (1, 2, 3, 4, 5, 6, 1) selected

- Set on time and off time using same procedure as "ALL selected" (above).
- 5#:54: 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.

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

#### **ECO MODE**



ON:

Press hutton to enter Eco Mode. And displayed.

OFF:

Press hutton. And disappears.

#### **GENERAL NOTES**

#### NOTICE

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

#### Batteries - Remote

· Low battery indicator on remotes.

#### Batteries - Receiver

- Low battery indication: frequent beeps for 3 seconds when motor turns.
- Instead of batteries, the included AC adapter should be used for improved reliability and customer satisfaction.

#### **WARNING**

- While not using an AC adapter, battery replacement is recommended at the beginning of each heating season.
- Old or dead batteries should be removed immediately. If left in the unit the batteries can overheat, leak, and/or explode.
- Do NOT expose batteries (including during storage) to direct sunlight, excessive heat, fire, moisture, or severe impact. Each of these conditions can cause the batteries to overheat, leak, and/or explode.
- New and old batteries and different brands of batteries should not be used together. Mixing of various batteries can cause the batteries to overheat, leak, and/or explode.

#### Software Version

Press and buttons simultaneously. Software version is displayed.

#### Remote Model Number

Press and v buttons simultaneously. Remote model number is displayed.

#### Deactivate Functions

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

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

NOTE: Deactivation remains in effect after change of batteries.

#### **Activate Functions**

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

Activation is complete when the function icon is displayed.

The following Functions can be Deactivated/Activated

- CHILD PROOF (To activate press (b) and (v) buttons simultaneously. (c) displayed and the remote is rendered inoperable (except for off function).
- PROGRAM MODE
- THERMOSTATIC MODE (also deactivates Program Mode)
- ECO MODE
- LIGHT/DIMMER OPERATION
- CIRCULATING FAN OPERATION
- AUXILIARY FEATURE
- COUNTDOWN TIMER

#### Automatic Turndown.

- 1. 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  $140^{\circ}F/60^{\circ}C$ . The burners comes back on only when the temperature is below  $140^{\circ}F/60^{\circ}C$ .

#### 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 20 seconds after ignition or after pushing the A button.

#### 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. We recommend that you open the nearby windows for extra ventilation and then operate the fireplace for at least four hours.

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.

During this first fire, examine the flame for appearance and quality. Examine the burner media for sooting. The flames should look like those shown below.

After this burn-off period, turn off the fireplace and let it cool <u>completely</u> to room temperature and clean both sides of the glass and the interior panels as described in the MAINTENANCE section.

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.



To see an Element4 fireplace starting and running normally please visit the link below.

WWW.EUROPEANHOME.COM/RESOURCES/VIDEOS/



#### REMOVING AND CLEANING THE GLASS

#### **OVERVIEW**

The glass panels are held in place by 12 gasketed clamps (five on each long glass and two on the end glass. These instructions will show you how to remove and install the glass panel(s).

Please read these instructions completely before proceeding.

#### PLEASE CONTACT EUROPEAN HOME FOR MORE INFORMATION

#### **TOOLS REQUIRED**

- No. 2 Phillips screwdriver (not included)
- Gloves (not included)
- 1 Suction Cup (included)

#### **REMOVING THE GLASS**

#### Step 1.

Remove the three trim pieces (magnetically attached) from the fireplace. There is no top trim on the fireplace. The trim pieces are held firmly in place with magnets and will simply lift out. The bottom (horizontal) trim is at the lower edge of the glass panels and the side (vertical) trim is where the glass meets the wall.

#### Step 2.

Each long glass panel is held in place by two gasketed glass clamps on the top and bottom edge and one vertical clamp on the closed end of the fireplace. Remove the retaining bolt(s) holding the glass clamps and then remove the clamps.

#### Step 3.

Securely attach the suction cup to the center of the glass and lift the glass up into the clearance notch.

With the glass panel raised into the notch, swing the lower edge of the glass panel out towards the room and gently lower the glass towards the floor until it clears the fireplace.

#### Step 4.

Repeat Steps 2 and 3 for the other long glass panel.

#### Step 5.

TO REMOVE THE END GLASS, PLEASE CONTACT EUROPEAN HOME. The end glass can also be cleaned in place once the other glass panels have been removed.

PROPERLY PLACE, CLAMP AND SEAL THE GLASS PANEL(S)
BEFORE LIGHTING THE FIRE!



Bottom Trim-





To see how to remove the glass from an Element4 fireplace please visit the link below.

WWW.EUROPEANHOME.COM/RESOURCES/VIDEOS/



#### **CLEANING THE 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 and, the fireplace design itself.

Do not use normal household (usually ammonia-based) glass cleaners to clean the glass as these cleaners can leave a permanent stain. Only a gas fireplace glass cleaner should be used. Products such as Stove Bright® Gas Appliance Glass Cleaner by Forrest Technical Coatings, Imperial Gas Fireplace Glass Cleaner by Imperial Manufacturing Group and GFC™ Gas Fireplace Glass Cleaner by A.W. Perkins Co. are designed for this purpose.

Follow the instructions for use and **do not clean the glass when** it is hot! If the glass becomes coated with deposits which cannot be removed it must be replaced.

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.

#### **RE-INSTALLING THE GLASS**

The glass panel(s) should be installed in reverse order of their removal.

#### Step 1.

Securely attach the suction cup to the center of the glass and lift the glass up into the clearance notch. Set the glass clamps into place and hold them loosely into place with a retaining bolt. DO NOT tighten the retaining bolts yet.

#### Step 2.

Repeat Step 1 with the remaining glass panels.

#### Step 3.

Center a long glass panel, left and right, on the fireplace and screw the retaining bolts into the lower glass clamp until the bolts touch the glass clamp. Repeat for the remaining glass clamps on this glass panel.

#### Step 4.

Slide the each glass panel against the end glass panel. Ensure that the corners are plumb, square and tight.

#### Step 5.

While ensuring that the corners of the glass panels are tight and square to each other, tighten the retaining bolt(s) on each clamp NO MORE THAN ¼ TURN.

PROPERLY PLACE, CLAMP AND SEAL THE GLASS PANEL(S) BEFORE LIGHTING THE FIRE!



#### WARNING

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

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.

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 valve that has been under water.

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

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.

#### **BURNER MAINTENANCE**

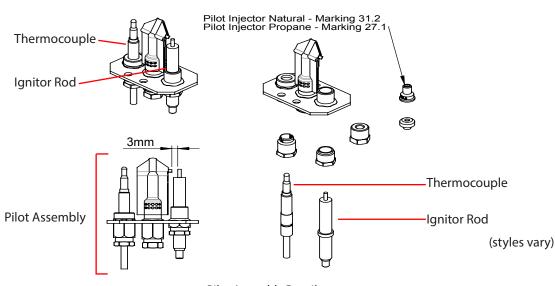
The flames from the burner should be visually checked. The flame should have a blue base and yellow tops and be candle-like in appearance.

#### PILOT MAINTENANCE

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 (with hearth panel removed.)

The pilot has two distinct flames, one engulfing the thermocouple on it's left, the other reaching across to the main burner.

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



Pilot Assembly Detail



#### THERMOCOUPLE MAINTENANCE

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

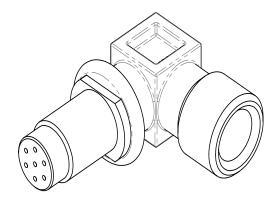
#### **VENT MAINTENANCE**

The following venting system inspection by a qualified service technician is recommended every six months:

- 1. Inspect for excessive condensation, e.g. water droplets forming in the inner lining and subsequently dripping out of the joints. This can cause corrosion in the system.
- 2. Check for corrosion in areas exposed to the elements. Where rust spots or holes have appeared, these must be immediately replaced.
- 3. Ensure that there is no foreign material in the vents. Survey by removing the cap and shining a light down the vent.
- 4. Check all joints and pipes to make sure that nothing has been disturbed or loosened.

#### REPLACEMENT PARTS

The orifice for the burners is shown below. Each NG orifice is marked 650, The LP orifices are marked 260.



E4-SA-LPCK-100 REPL-E4-GS-1T-01 REPL-E4-GS-2TC-01 REPL-E4-GS-CMESAVE-01 REPL-E4-GS-RCESAVE-01 LP Conversion Kit Replacement Primary Thermocouple Replacement 2nd Thermocouple Replacement Receiver Replacement Remote Control

### **WARRANTY**

# European Home Warranty Element4 Gas Fireplace

European Home warrants these gas fireplaces against defects in materials and workmanship for a period of ONE (1) YEAR from the date of original retail purchase. Glass is expressly NOT covered by this warranty.

If a defect exists, European Home 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 European Home. 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)	Cucius 100	◯ Tenore 100	
Purchased From			
Date of Purchase			
Installed By			
Date of Installation			
Fireplace Serial Number			
Fuel Type			
Total Venting Horizontal			
Total Venting Vertical			

### **APPENDIX ONE**

#### 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 G1-0515-495 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.

### TROUBLESHOOTING FLOW CHART

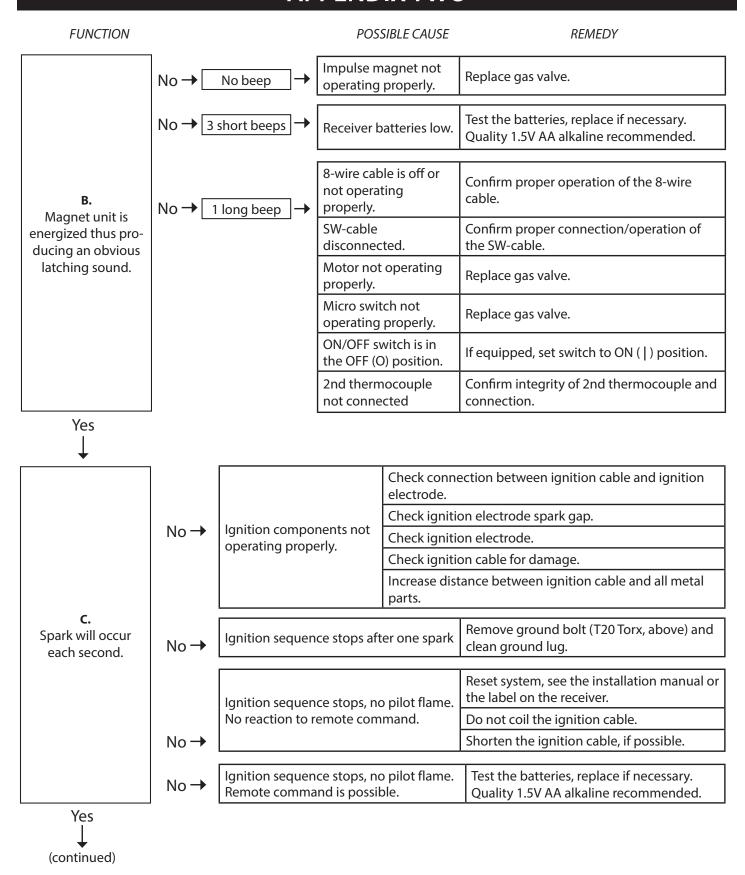
FUNCTION	DOCCIDI E CALICE	DEMEDY
FUNCTION	POSSIBLE CAUSE	REMEDY

A.
Press UP and OFF
buttons to start igni-
tion sequence. Beep
will occur each
second.

No→

Remote batteries low.	Replace remote 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 receiver batteries.		
Check that remote 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.		
Remote distance is limited.	Straighten the antenna.		
Remote distance is inflitted.	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)		

Yes (continued)



FLINICTION		DOCCIDI E CALICE	DEMEDY
FUNCTION	1	POSSIBLE CAUSE	REMEDY
<b>D.</b> Pilot lit.	No→	TC- and SW-cable reversed.	Check cable connection between receive and interrupter block.
Pilot lit.		Magnet unit not operating properly.	Replace gas valve.
Yes		Short between interrupter and SW cable	. Check interrupter block connection.
		No gas (magnet unit drops after 30 seco audible count.)	Check gas supply.
		Spark not lighting the pilot.	Check spark is crossing pilot orifice.
<b>↓</b>			
<b>E.</b> Sparking stops after	No →	Short between interrupter block and TC-cable.	Check connection to interrupter block.
pilot is lit.		Electronic measuring amplifier defective	. Replace the receiver.
Yes ↓			
	No→	Resistance in thermocouple circuit too high.	Check thermocouple circuit.
Magne unit drops (audib sound		Not enough heat on thermocouple.	Check position of pilot to thermocouple. Check the stability and intensity of pilot flam Ensure the proper restrictor is installed. Ensure that the pilot flame is properly adjusted. Possible cold start
F.		Low voltage from thermocouple.	Replace thermocouple. Do not over tighten hand tight plus ¼ turn <i>maximum</i> .
Motor turns to main gas and pilot stays lit.		No gas (magnet unit drops after 30 second audible count.)	Check gas supply.
iic.	No→	Broken receiver	Ensure powered/unpowered receiver allows manual operation.
	No→	Ignition sequence stops. No reaction to remote command.	Reset system, see the installation manual or the label on the receiver.  Do not coil the ignition cable.
	,	Element4 '140' models <i>ONLY</i> : Pilot flame under hearth panel not establishing.	Remove hearth panel and glass and check for proper pilot operation. If pilot establishe with panel off then install panel and glass and adjust pilot flame (hi/lo) for best operation.

(continued)

FUNCTION				POSSIBLE CAUSE		REMEDY	
<b>G.</b> Main burner is lit.	No→	Manual knob is in the "MAN" position.		e"MAN" position.		orn the control knob to "ON" position, a ositive latch is required.	
Yes	J	Pilot flame is t	oo low.			firm correct gas pressure. Increase pilot ne if necessary.	
	_						
	No →	System 'drops out' - all flames immediately go out	<b>→</b>	Too much draft at pilot flame (poor flame impingemen of primary thermocouple.)	t	Check venting installation. Use restrictor as required.	
		goodt		Pilot assembly out order.	of	Inspect pilot assembly for correct operation and thermocouple impingement.	
				5 day shut off.		The system shuts off the fire and pilot if there is no change in the flame height for 5 days.	
	No→	Main burner remains lit while flames are lowered.	<b>→</b>	2 <sup>nd</sup> thermocouple i not heated.	S	Ensure 2 <sup>nd</sup> thermocouple is heated by a robust flame. The fireplace media may be interfering with proper flame. Check 2 <sup>nd</sup> thermocouple wiring.	
<b>H.</b> Main burner stays lit.		(Main valve knob is turned via motor.)		2 <sup>nd</sup> thermocouple s off.	shut	The system shuts off the fire when the main burner flame is not sensed within 22 seconds of ignition or not sensed after pressing the <i>large flame</i> button. <i>Note:</i> If the system fails to light due to the 2 <sup>nd</sup> thermocouple voltage not being sensed a two minute lockout period begins. This lockout time allows the gas to dissipate.	
						In Manual/Temperature/Timer modes	
	No→	System goes to pilot flame only.	<b>→</b>			the valve turns down to pilot only if the flame height does not change for a 6 hour period.	
Yes				6 hours of no moto movement.	r	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	
(continued)						and the ambient temperature remain the same over a 6 hour period.	

FUNCTION		POSSIBLE CAUSE		REMEDY	
I.  Magnet unit drops		Receiver batteries low.		Test the batteries, replace if necessary. Quality 1.5V AA alkaline recommended.	
while motor turns. Receiver makes 3	Yes→	Ensure magnet unit is operating normally.		Test the receiver output to the magnet unit.	
No					
<u> </u>	_				
		Exhaust is contaminating the fresl	n air.	Inspect venting for damage and/or incorrect installation.	
<b>J.</b> Flames become thin, blue, wispy	Yes→	Flow of fresh air and/or exhaust is		Ensure that vent configuration is within the vent chart requirements.	
then go out.	105 /	blocked.		Check termination for blockage and/or appropriate type.	
No		LP gas being used with NG orifice	(s).	Ensure the gas type is correct for the installed orifices.	
К.		The air shutter is closed when usin LP gas.		When using LP gas the air shutter must be fully open. See conversion instructions.	
Flames are very yellow with dark,		Flow of fresh air and/or exhaust is		Ensure that vent configuration is within the vent chart requirements.	
sooty tips.	Yes→			Check termination for blockage and/or appropriate type.	
No I	•				
$\downarrow$					
L.				Check unit for leaks at glass corners or at gaskets.	
Flames are very busy and blowing in an abnormal direc-		Air leak in the firebox.		Check unit for positive relief door seal.	
tion.	Yes→			Check venting for complete integrity.	
No 	•				
<del>+</del>	1				
<b>M.</b> Flames are stable	Yes→	Too much primary air.  Reduce the primary air opening until flames have blue base and yellow upper two-thirds.			
but too small and blue.					
No	1				
↓ NORMAL					
OPERATION					

## **APPENDIX THREE**

### LP (PROPANE) CONVERSION

#### **APPLICABLE MODELS**

Lucius 100, Tenore 100

#### **CONTENTS**

The E4-SA-LPCK-100 LP conversion kit contains these instructions plus the following:

- one Pilot Orifice (stamped 27)
- two Main Burner Orifices (stamped 260)

#### **TOOLS REQUIRED**

Converting your fireplace to LP gas requires the following:

- a 7 mm box/open end wrench
- a 10 mm box/open end wrench
- a 13 mm box/open end wrench
- a 17 mm box/open end wrench
- a No. 2 Phillips screwdriver
- a pair of small needle nose pliers
- a bright work light

### ⚠ WARNING! ⚠



This conversion must be done by a licensed plumber or gasfitter.

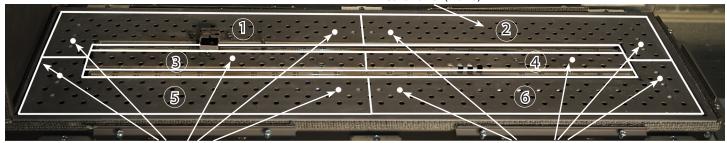
Turn off the gas supply before proceeding. Begin by reading all instructions thoroughly.

#### **INSTALLATION**

These models have a double burner and, therefore, two main burner orifices must be replaced.

- Remove a long glass panel and carefully store it.
- Remove all of the fire media.
- Remove the six hearth (bottom) panels by removing the ten retaining bolts then lifting up each of the six panels.
- Remove the six bolts attaching the burner base to the firebox.





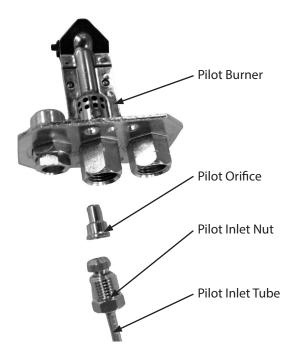
## **APPENDIX THREE**

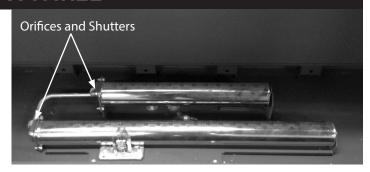
- Loosen the two shutter bolts (7 mm) holding each of the two shutters in place, remove the shutters and tighten the bolts.
- Remove the compression nuts (17 mm) from each of the orifices and, taking care to not deform the supply tube, slide the supply tube out of the orifice.
- Loosen the orifice locknut (13 mm) and unscrew the NG burner orifice from each of the burners
- Screw an LP orifice into each burner until the orifice is aligned with the supply tube. See photo, right.
- Connect the supply tube to each of the burner orifices and tighten the compression nuts.
- Tighten the orifice locknuts.
- Remove the pilot burner inlet tube (10 mm) from the pilot burner. See below.

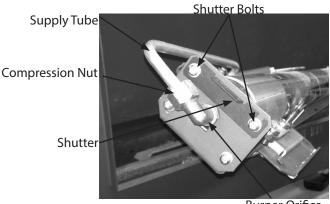
CAUTION: The next step involves small parts which can be easily lost.

Note: The pilot inlet nut is easily reached at the bottom of the fireplace when the fireplace is tilted slightly rearward. Take care to stabilize the fireplace!

• Using a 10mm wrench, loosen the pilot inlet nut and remove the pilot burner inlet tube from the pilot burner. The pilot orifice then drops out of the pilot burner. See below.











Orifice Locknut

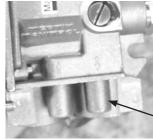
- Remove the pilot burner orifice and replace it with the LP orifice (stamped 27) provided. Take care to observe the proper orientation, shown.
- Connect the pilot burner inlet tube and tighten the inlet nut.

## **APPENDIX THREE**

- On the gas valve, between the Manual Knob and the Main Valve Knob is a black plastic cap which hides access to the pressure regulator adjustment screw. Remove black plastic cap to gain access to the pressure regulator adjustment screw. See right.
- Connect LP gas supply to fireplace. Loosen the screw inside the manifold pressure test port and connect the manometer to the port. See photo, right.
- Turn on the fireplace and set the flames to high. While turning the pressure regulator screw, adjust the manifold pressure to that stated in the installation manual.
- Turn off the fireplace, remove the manometer and close the test port screw.
- Replace the hearth panels, the burner media and the glass panel. Check for proper fireplace operation.

Pressure Regulator Adjustment Screw (cap removed)





Manifold Pressure Test Port

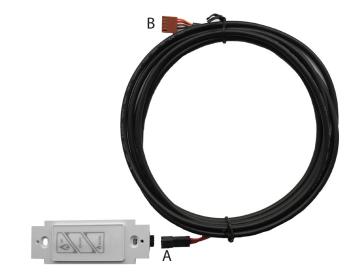
To see how to convert the gas on an Element4 fireplace, please visit the link below.



## **APPENDIX FOUR**

#### **INSTALLING AN OPTIONAL WALL SWITCH**

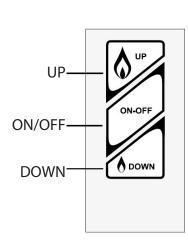
- 1. Install a single-gang electrical workbox (not supplied) at the desired location no more than 26 feet as the cable runs.
- 2. While keeping the black connector (A) inside the work box, thread the black 4-wire cable through the workbox and bring the red connector (B) to the location of the receiver.
- 3. Connect the black connector (A) to the wall switch, the red connector (B) to the receiver.
- 4. Test for proper operation then screw the wall switchplate to the workbox with the two screws provided and attach the faceplate (included).



#### **USING THE WALL SWITCH**

Note that, with the wall switch, you can turn the fireplace on and off and adjust the flames up and down. The rear burner, however, can only be turned on/off with the remote control (model applicable).

- Turn fireplace ON: Press the ON/OFF button until a short beep confirms the start sequence has begun then release the button.
- Increase the flame height: Press and hold the UP button.
- Decrease the flame height: Press and hold the DOWN button.
- For fine adjustment tap the UP or DOWN button as necessary.
- Turn fireplace OFF: Press the ON/OFF button.



## **APPENDIX FIVE**

#### **CONNECTING TO A SMART HOME SYSTEM**

#### 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.

A required 39"/1000 mm cable, with connector, is available (part number E4-SA-SHSC-02). The overall cable length should not exceed 26'/8000 mm.

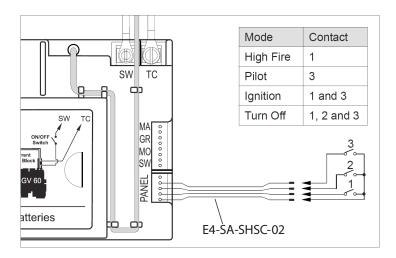
Signal relays (gold contacts) or opto-couplers are recommended but not supplied. The E4-SA-SHSC-02 cable must be connected to the three smart home system contacts as shown below.



WARNING



#### You MUST ensure that the fireplace is in a safe and ready condition before attempting to operate from a remote source.



#### SEQUENCE OF OPERATION

- To start ignition, close contacts 1 and 3 simultaneously for 1 second.
- To set the valve to High Fire, close contact 1.

  To set the valve to Pilot, close contact 3. In each case, the contacts need to be closed for 12 seconds to turn the motor from one end-stop to the other end stop.
- To set the valve to the Off position, close contacts 1, 2, and 3 simultaneously for 1 second.

#### Modes of operation

 Mode 1 - the external source provides "ON" and "OFF" operation only. The remote control handset provides all other functions.

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

 Mode 2 - The handset 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.

## **INDEX**

A	0
APPLIANCE RATINGS 8	OPERATING THE FIREPLACE
AC ADAPTER SPECIFICATIONS 8	Test Fire 34  Using the Remote Control 40
C	Using the Wall Switch 61
CERTIFICATION	P
Listing Label <b>8</b> Massachusetts <b>52</b>	PARTS OF THE FIREPLACE 11
CLEARANCES	S
Location 13 Mantels 15	_
Convection Air Outlet(s) 16	SAFETY INFORMATION 3 SCREEN INSTALLATION 37
E	SMART HOME SYSTEM 62
_	SPECIFICATIONS
ELECTRIC  REQUIREMENTS 17	Appliance Ratings <b>8</b> Lucius 100 Dimensions <b>9</b>
AC Adapter Specifications 8	Tenore 100 Dimensions 10
ENCLOSING THE FIREPLACE 24	т
F	TROUBLESHOOTING <i>53</i>
FIRE MEDIA	
Installing the Logset 35	V
Installing the Stones 36 FIRST FIRE 46	VENTING
G	Configuration 18  Horizontal Terminations 21  Vertical Terminations 21
GAS	Restrictor 21
CONVERTING TO LP 58	w
Installing the Gas Line 17 Pressures 8	<del></del>
	WALL SWITCH <i>61</i> WARRANTY <i>51</i>
K	
KEY INSTALLATION POINTS 6	
L	
LISTING LABEL 8 LP (Propane) Conversion 58	
М	
MAINTENANCE BURNER 49	
GLASS 47	
PILOT <b>49</b>	
THERMOCOUPLES <b>50</b>	
VENT <b>47</b> MANTELS <b>50</b>	
N	
NON-COMBUSTIBLE MATERIALS	

MINIMUM CLEARANCES 14

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