ELEMENT 4
GAS FIRES

# INSTALLATION & USER MANUAL

## Element4 Lucius 100 & Tenore 100

WARNING - THE COMBUSTION CHAMBER OF THIS STOVE SHOULD ONLY BE OPENED AND SERVICED BY A REGISTERED GAS INSTALLER

PLEASE LEAVE THESE INSTRUCTIONS BEHIND WITH THE DEVICE

**THIS PRODUCT IS NOT SUITED FOR USE AS A PRIMAIRY HEAT SOURCE.**

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## 1 CE statement

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

Product:
- Gas fireplace, local spaceheater

Model:
E4-18
- Lucius 100
- Tenore 100

Applicable EG-guidelines: (EU) 2016/426 (GAR)
Applicable harmonized norms:

- NEN-EN-613
- NEN-EN-613/A1

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

J. Kempers
CEO

## 2 Important safety information

The fireplace may only be installed by a qualified installer/dealer, following these installation instructions. We advise you to read these instructions properly, before commencing the installation of your device.

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

Check the data on the dataplaat. The gas type and pressure should check out with those locally available. The data plate is mounted to the device. Make sure it is accessible at all times.

This device is design to be used with natural gas or LPG. The device can only be used with the type of gas specified on the data plate at the time of purchase.

The device may never be used without the glass of when glass is broken. The flue gasses can get into the installation room. The settings and construction of the device must not be changed!

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

The device is provided with a special set of decorative materials. Do not place any extra imitation logs or decoration material on the burner or in the combustion chamber. See chapter 11 for an instruction on how to arrange the decoration properly.

The glass and frame on this appliance acts as a fireguard conforming to BS: 1945 – 1971 and satisfies the Heating Appliance (Fireguards) regulations 1991. No part of the window or frame should be permanently removed. It does not give protection for young children aged or infirm, extra guarding (conforming to BS8423: 2002) should be considered so the special hazards that exist in nurseries and other places where there are young children, aged or infirm persons are minimized.

The heat that is coming from the device may effect the materials in its surroundings. Always take into account to correct safety distances. For more information see chapter 6.

## 3 Warranty

**NB:** Should a problem occur, that you are not able to fix yourself with the help off the support in Appendices A to C, please contact you installer or dealer.

The Element4 devices on which this warranty is applicable are made of high quality materials. Should any problem or defects still occur the following provision are in effect;

1. Before any installation, the installer will ensure himself of the good quality and operation of the flue channel. The gas fireplaces are to be installed by a competent installer, according to the rules and regulations that are applicable in the country (or even region) of installation and those as described in this manual.

2. There is a warranty period of two years for all Element4 devices, starting from the moment of purchase. The date of purchase should be mentioned clearly on the purchase invoice.

3. The ceramic glass is not included in the warranty, as are the physical or chemical outside influences during transport, storage or montage.

4. If a malfunction should occur during warranty period that is a consequence of a assembly error or material defect, Element4 will provide a free replacement part to the installer, without compensation for disassembly or montage.

5. In case the installer is not able to fix the problem himself, a request can be made to Element4 to do it for him, as long as the service can be done within the borders of the Benelux.

6. Only after consulation up front, the device or loose parts can be send for check up or replacement. These goods are the be send with the necessary warranty documents and the date of purchase.

7. When a house visit should occur for service purposes by Element4 (within the borders of the Benelux) during warranty period, the right documentation (i.e this page and a proof of purchase) should be available.

For a service provision to house, outside the warranty period, the following costs ar ebeing charged:

- Materialcosts
- Working hourse
- Call-out costs

The warranty is not appicable in the following cases:

1. When one of the previous point is not met

2. When changes are made, of which Element4 is not made aware of / has approved of upfront

3. When device is not installed and/or used properly according to the installation manual.

4. When other then the prescribed decoration material is used.

5. When the device is installed (partially or fully) with other materials than prescribed in this manual.

## 4 Remote control with full electronic ignition

The unit is operated using a remote control (fig. 4-1) or the Element4 Puck, connected to a receiver (fig. 4-2).

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

### 4.1 Adjusting the communication code

Before using the appliance, a communication code must be set between the remote control and the receiver. The code is chosen at random from the 65000 available codes. Therefore there is a slim chance that other remotes in your area use the same code.

**Please do the following**
Press the reset button on the receiver until you hear two beeps. After the second longer signal, let go of the reset button. Fig. 4-2

Within 20 seconds, press the down arrow on the remote control until you hear a sound signal. This is confirmation of the proper communication.

### 4.2 Igniting the pilot light

Check that the control knob (A) is in the ON position. Fig 4-3. Press the button on/off button of your remote control and continue to hold down (3 to 5 sec.) until you hear two short beepes.
The ignition sign will appear at the top of the screen (fig. 4-1) Now release the button. The ignitionprocedure is started.

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

### 4.3 Igniting the main burner

After starting the pilot, knob B will automatically rotate counter clockwise and the main burner will start burning. Fig 4-3. Always wait 5 minutes after killing the pilot light before you start the pilot flame again.

**NB:** The pilot light must ignite the main burner, evenly and without a thud, if it does thud, close the gas tap and warn your installer.

### 4.4 Switching off the fireplace

You switch off the fireplace by pressing the on/off button, this also turns off the pilot light! For a detailed description of the E-save remote control, please refer to the E-save manual which is included with the fireplace.

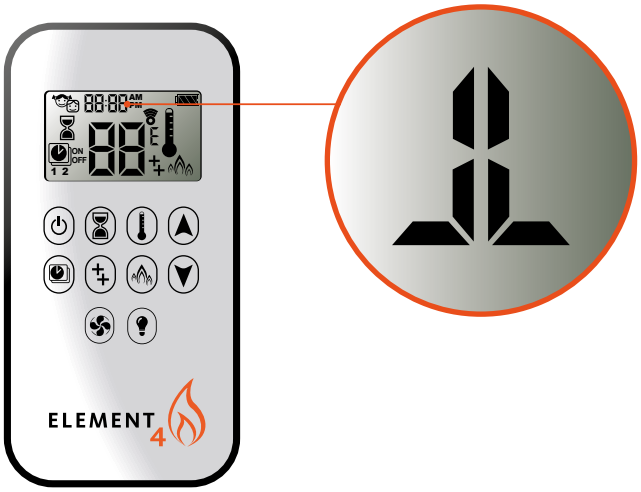



**Figure 4-1: Remote and ignition sign**

**Figure 4-2: Receiver (top - and side view)**

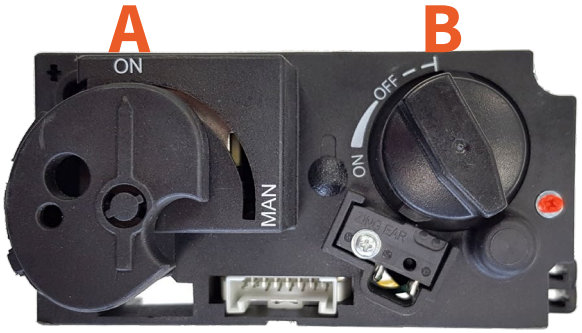



**Figure 4-3: Main burner ignition**

## 5 Installation preparation and - instruction

The device is developed, tested and approved conform the applicable standards for the usage, the performance and safety of the product. The installation of your device must apply to the current building prescriptions. We advise to make use of a qualified gas installer for the installation of your device. The installer can provide you with all information regarding the safety regulations of the installation.

### 5.1 Relevant norms and guidelines

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

- Department of the Environment, the Building Standards (Scotland) (Consolidation) Regulations issued by the Scottish Development Department.
- BS 5440 part 1
- BS 5871 part 2
- BS 6891.

In the Republic of Ireland the installation must also conform to the relevant standards, particularly in regard to flue sizing and ventilation. Refer to documents;

- IS813
- ICP3
- IS327
- Any other rules in force.

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

### 5.2 Attention points gas fireplace

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

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

### 5.3 Attention points gas connection

The gas connection should apply to the local norms in force. Calculate the diamater of the gas flue, such that no pressure loss is occuring in the pipes. Place a shut-off valve in the near vicinity of the device. Position the gas connection, such that it is always accessible for service purposes.

Put the gas block and receiver behind the included service hatch. Make sure that it is always accessible for service purposes. (See Figure 5-1)

### 5.5 Requirements flue and wall terminals

The European CE-marking for the device is only applicable to the flue materials specified by the supplier. The device must be installed with the stainless steel flue material US by Metaloterm/ On top. The usage of other concentric stainless steel material is only permitted when it has the same technical specification as the previous mentioned systems.

**Figure 5-1: Service hatch**

Only when these materials are used a good and safe performance can be promised by Element4.

The flue channel can work both a wall terminal (C11) as a roof terminal (C31), as well as flex pipes in an existing channel.
Please check, whether the desired terminal complies with the regulation for your situation (See: appendix D).

It is possible that an extra shield is necessary when the terminal is within two meters from the ground.

### 5.6 The chimney

Before the chimney is installed, we advice an operation test with the device. The chimney should be constructed from non-combustible materials and cannot rest on the mounting frame. Always use a chimney iron, when using bricks or cell concrete.

The chimney ventilation should meet the the local norms. A well ventilated chimney makes sure the temperature is regulated to ensure a proper operation of the electronics and the gasblock. Furthermore, good ventilation helps to keep the convection air under 85°C. Use the ventilation grate (CVRE4) and service hatch (BDLE4) by Element4. See the measurements in appendix I.

More on chimney construction in the next chapter.

# 6 Fireproof installation

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

### Fire safety device set-up

Install the device such that there are no flammable materials around the device or chimney. The device must never be placed against a back wall of flammable materials.
Flammable materials, such as wood, can combust at a temperature of 85°C. At high temperatures this can happen within several minutes (over 200°C) or at lower temperatures (more than 85°C) this may occur over a period of weeks.
A gas fireplace can achieve temperatures of over 200°C. Therefore one should use only non-flammable materials around the fireplace and in the cove.
It is important to follow the installation regulations below carefully. When the regulations are insufficiently- or not provided with the aspects of fire safety, the instructions according to NPR 3378-20:2010 are leading.

### Protection of wall and ceiling

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

1. Walls/ceilings that are made of – or contain flammable building materials, and all walls on which flammable objects (e.g. built-in furniture or wooden panels) are mounted on the side of the wall that is turned away from the fireplace.
2. Walls/ceilings made of mineral building materials (gas concrete, bricks, lime sandstone etcetera.) of more than 10cm thickness.

### Assembly regulations

(Figure 6-1 and 6-2)

- Cover the walls/ceilings with a non-flammable, fire resistant plate, according to EN 13501-1:A2
- Place a non-flammable, fire resistant plate in front of the first one at a distance of 2cm.
- Make sure that the two plates are not attached to each other by screws or nails. Due to their conductivity these metals can cause problems.

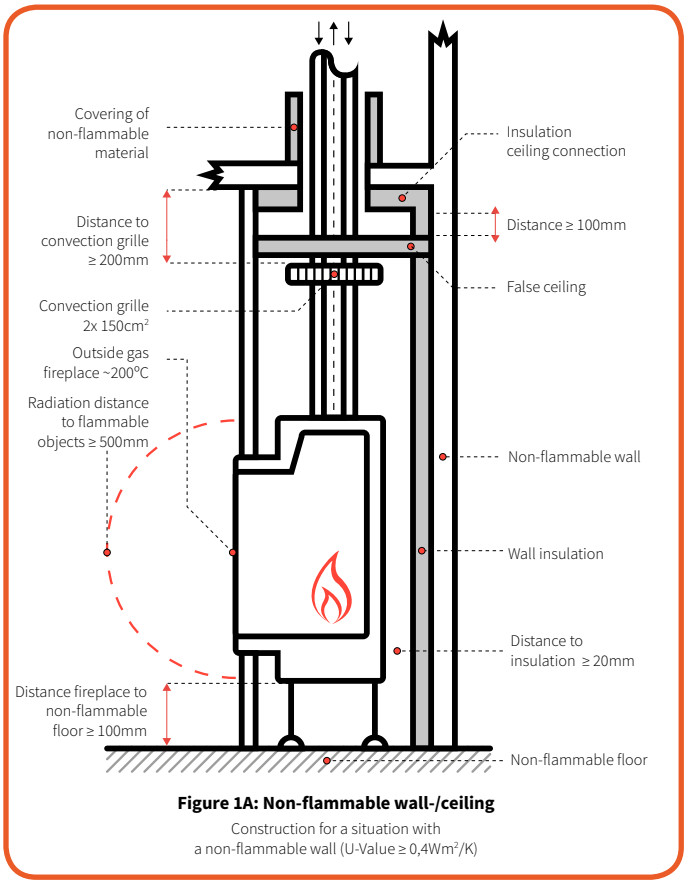



**Figure 1A: Non-flammable wall-/ceiling**
Construction for a situation with a non-flammable wall (U-Value ≥ 0,4Wm²/K)

**Figure 6-1: Non-flammable wall-/ceiling**

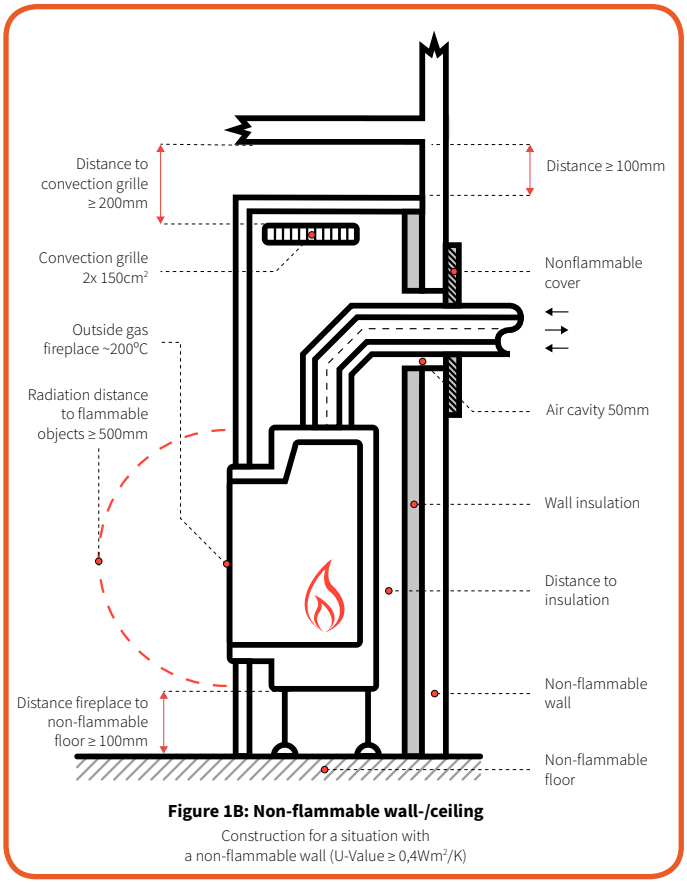



**Figure 1B: Non-flammable wall-/ceiling**
Construction for a situation with a non-flammable wall (U-Value ≥ 0,4Wm²/K)

**Figure 6-2: Flammable wall-/ceiling**

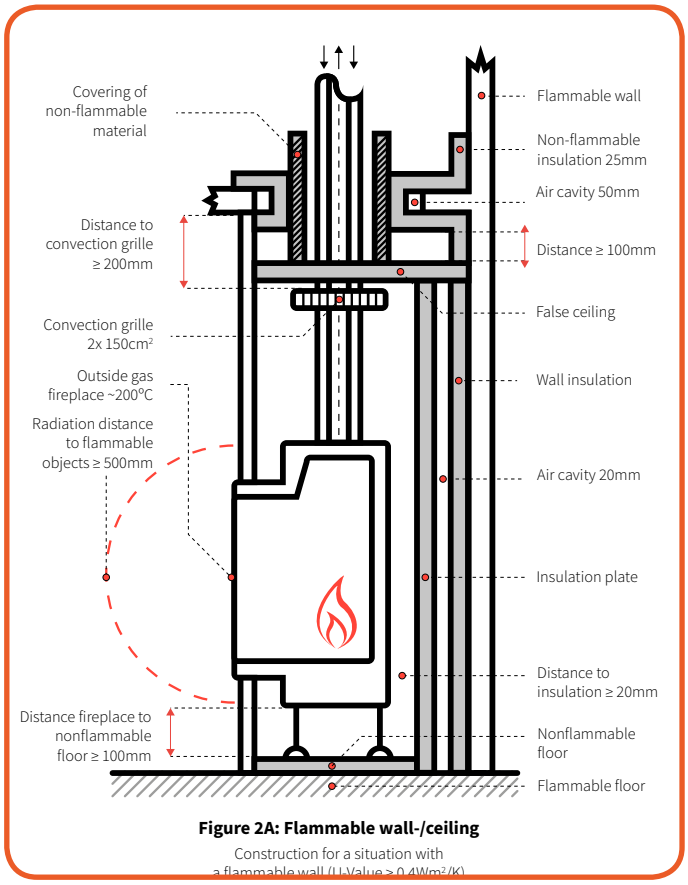



**Figure 2A: Flammable wall-/ceiling**

Construction for a situation with a flammable wall (U-Value ≥ 0,4Wm²/K)

**Figure 6-3: Non-flammable wall-/ceiling**

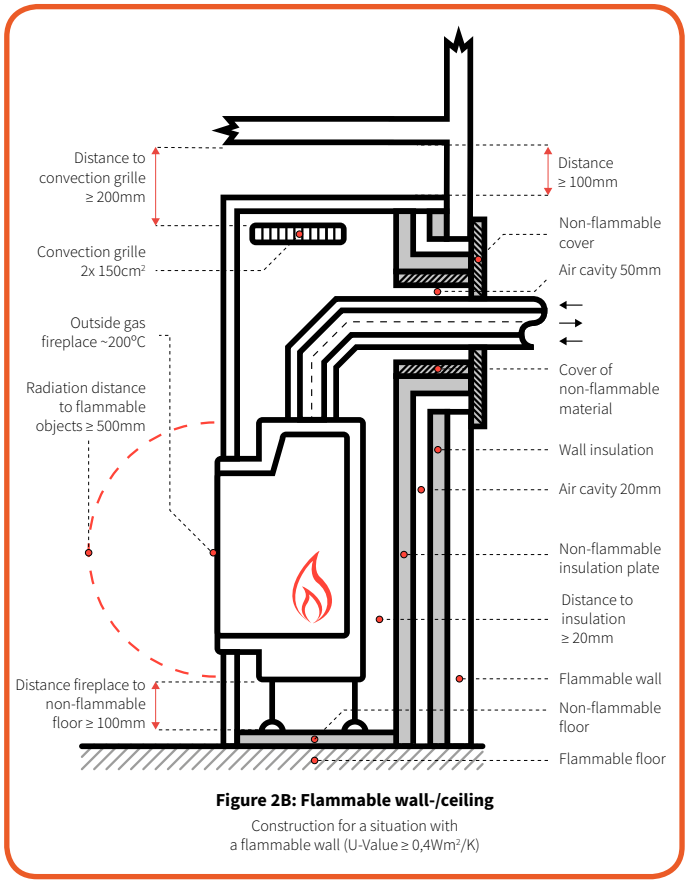



**Figure 2B: Flammable wall-/ceiling**

Construction for a situation with a flammable wall (U-Value ≥ 0,4Wm²/K)

**Figure 6-4: Flammable wall-/ceiling**

### Assembly regulations

(Figure 6-3 and 6-4)

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

Never use flammable materials around the fireplace or cove. The minimal distance between the device and non-flammable materials must be at 50 mm to ensure a convection air flow.

Make sure there is a good air ventilation in the cove. The temperature that leaves through the ventilation grilles must not be higher than 85°C. Therefore one should always make sure there are enough ventilation grilles in the upper and lower parts of the cove.

### Hot air outlets and ventilation grilles

The ventilation grilles are to be placed at a minimal distance of 20cm from the ceiling and 30cm from any built-in furniture from the side, any flammable material or load-bearing concrete parts. To avoid heat accumulation in the cove a non-flammable false ceiling is to be placed directly above the grilles. The ventilation grilles need to be easy to clean at all times.

### Floor protection

Between the device and the ground a minimal distance of 10cm is to be taken into account. The temperature of the floor under the device needs be less than 85°C and the floor of the conversion around the fireplace is to be constructed of non-flammable materials. If necessary the floor is to be covered with an insulation layer to protect it from unauthorized temperatures.

### Radiation

When the fireplace is turned on, heat radiation will escape through the ceramic glass and will heat up the environment. Therefore it is important that a minimal distance between the ceramic glass and any flammable material in front of the fireplace is 40cm.

### Electrical pipes

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

## 7 Attention points gas flue

To guarantee the fire safety regarding you flue gas configuration a casing is necessary. For this case non-combustible materials should be used. Make sure to ventilate a shaft and never to insulate it, to make sure the hot air is able to get away.

Every transit or terminal should be made such, that the warmth-insulation and non-combustability is guaranteed, according to the building regulation.

### 7.1 Installation of flue material

Follow the following instrucions for the installation of flue materials;

- Drill a hole of 160 mm for the wall or roof transit with a 150 mm diameter flue connection, and 210 mm with a flue with a diameter of 200 m.
- Keep a distance of at least 50 mm between the outside of the concentric pipes and the wall or ceiling.
- Provide a (fire) safe transit construction in wall, floor or roof sheeting
- Build the system from the fireplace.
- Assemble pipes in the correct direction! The inner pipe goes into and the outer pipe goes over the fireplace connection.
- Make sure the tubes are sufficiently braced, so the weight of the tubes are not supported on the hearth.
- The concentric pipes could come loose due to expansion and cooling down. It is recommended that a chuck parker be used in places that are inaccessible after installation.
- The horizontal drain portion must be fitted sloping to the hearth.

#### 7.1.1 Adapting the length of the chimney

Not all parts can be adjusted! To fit the drainage system correctly, you are to use an adjustable fitting. You can use an adjustable concentric pipe, wall or roof fitting. To get a sealed flue gasconnection, the inner pipe must always be 2 cm longer than the outer pipe. Always attach adjustable parts with a chuck.

### 7.2 Calculate chimney

For proper operation of the fireplace it is important that the flue pipe meets the requirements. Do determine this, we prepared a calculation chart. (See Appendix E & F)

## 8 Installation check and first usage

### 8.1 Renovation/new construction

When firing up the device for the first time, make sure the device burns for several hours on the highest level, to ensure the lacker to harden. Make sure the device is ventilated enough so the possible released fumes are being abducted. We advice to be as little in the room as possible during this process.

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

These particles can come from construction moisture or cigarette smoke, but also they might be volatile components in paint, construction materials or carpeting. For newly constructed chimneys or after a big reconstruction, it is advised to wait a minimum of six weeks before firing a fireplace.

### 8.2 Checking the gas lines

To be able to check on the gas lines, it is necessary to have the right equipment. If necessary take out the glass of the device and use the measuring point (see figure 8-1), to check the supply pressure on the gas pipes.

A= Supply pressure
B= Burner pressure

Make sure the cables of the ignition are hanging loosely under the device, to ensure a good ignition. Remove any tie wraps or other cable binders.
Check the pilot and second thermocouple for obstructions and check the air tightness of the system. Technical specifications can be found in Appendix G.

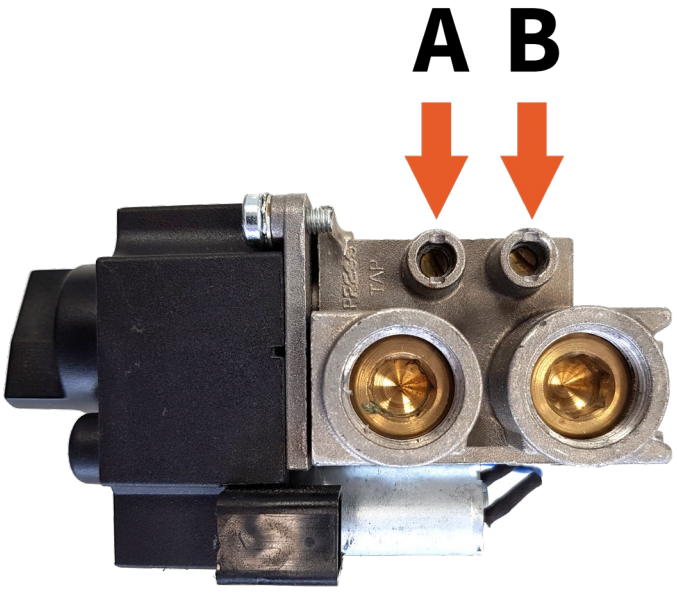



**Figure 8-1: measure points on the gas block**

## 9 Elektrical circuit

Figure 9-1 shows a simplified connection circuit for the Lucius- & Tenore 100. The standard device is provided with a set of batteries, althought it is possible to put the receiver on the electricity net via adapter. Should one choose any add-ons for their device such as a wi-fi module, the adapter is mandatory to ensure proper functioning of the fireplace.

### 9.1 Domotica

The receiver offers the possibility to be connected to a domotica system. A special connector is being supplied for this. Type: G60-ZCE

### 9.2 Element4 ProControl App.

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

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

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

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

To use the app, the device needs to be provided with the correct receiver and remote combination and also the receiver should be connected to net electricity with a 220V adapter, which will replace the batteries.

Necessities for the installation of the ProControl:

- 220 volt electricty near the fire
- Wi-Fi code of the router
- Smart Phone or tablet
- ProControl manual

Should any problems occur you can always check appendix B.

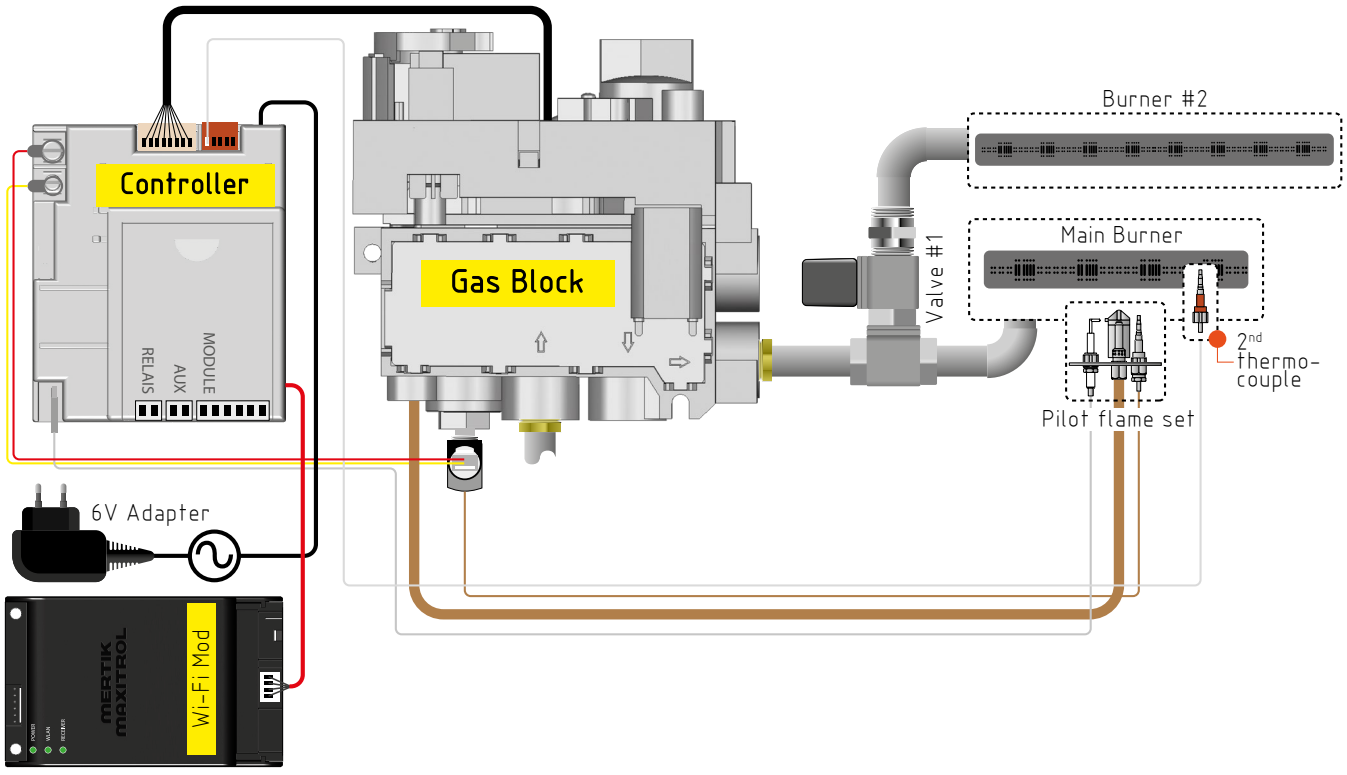



**Figure 9-1: Electronic circuit Lucius & Tenore 100**

## 10 Maintenance instruction

This part of the manual focuses on maintenance. To ensure the optimal flame picture of your device, an annual maintenance by a competent company or installer is prescribed.

### 10.1 Maintenance in the combustion chamber

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

#### 10.1.1 (Dis)assembly of the trims

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

Disassemble:

- Remove both the side trims. They are held by magnet snappers, Figure 10-2.
- After that remove the lower trim (Figure 10-3)

Assembly:
Put the trims back in reversed order.

#### 10.1.2 Remove glass

To be able to cleam the glass on the inside, one needs to remove the glass. To do this follow these steps:

- Check, whether the trims are removed in as in step 10.1.1 .
- Remove the clamps that hold the glass. (See Figure 10-4)
- Put the section cup on the glass and make sure it is properly vaccuumed, so it will not come off (fig 10-5).
- Lift the glass for a little bit and tilt it out through the opening (See figure 10-6).

**NB:** Put away the glass in a safe place, when you are not using it, to make sure it will not damage during maintenance. Remove the suction cup after putting away the glass to avoid tracing or stains.

### 10.2 Cleaning the glass

Keep in mind the following when cleaning glass:

- Always clean the glass at room temperature.
- Use cleaning supplies qualified by Element4.
- When you clean your Anti-Reflective glass, make sure you use this with the special Element4 cleaner, which is available only via Element4.
- Use only a microfibre cloth. Other materials such as kitchen towels, steel wool etcetera can cause scratches or damage the coating on the glass.
- Should there occur stains on the glass, remove them regulary, for the can burn the glass.

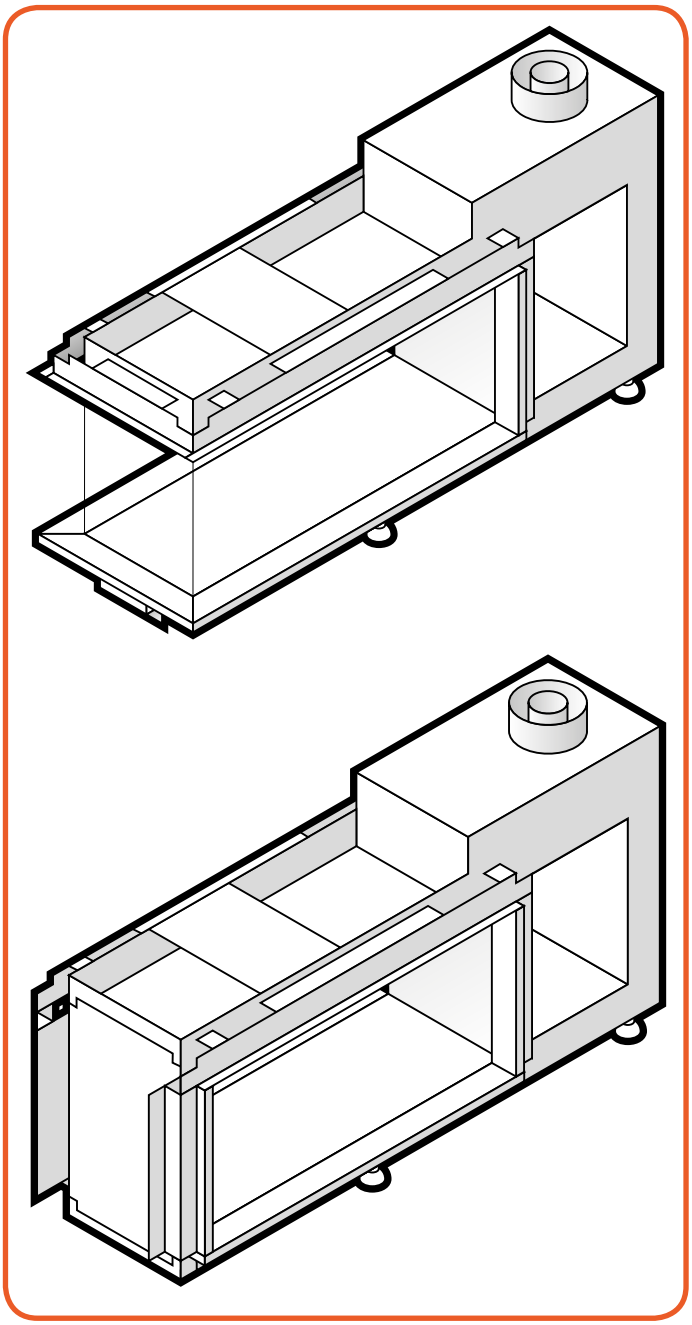


**Figure 10-1: Resp. Lucius - & Tenore 100**

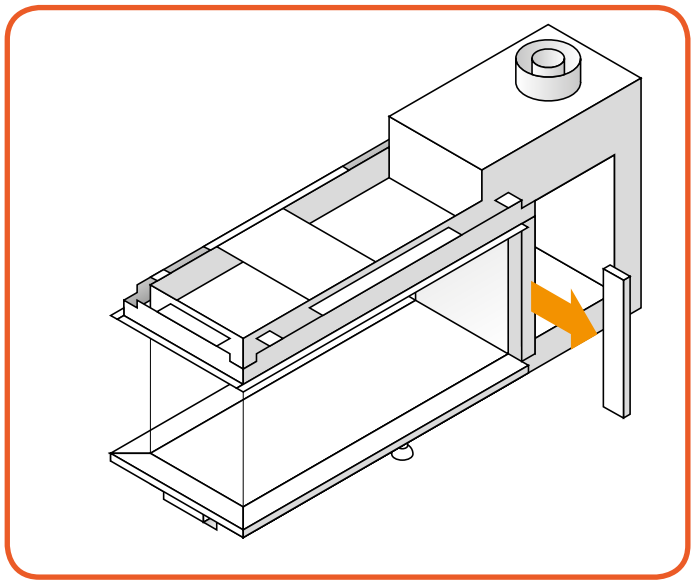


Figure 10-2: Remove side trims Lucius*

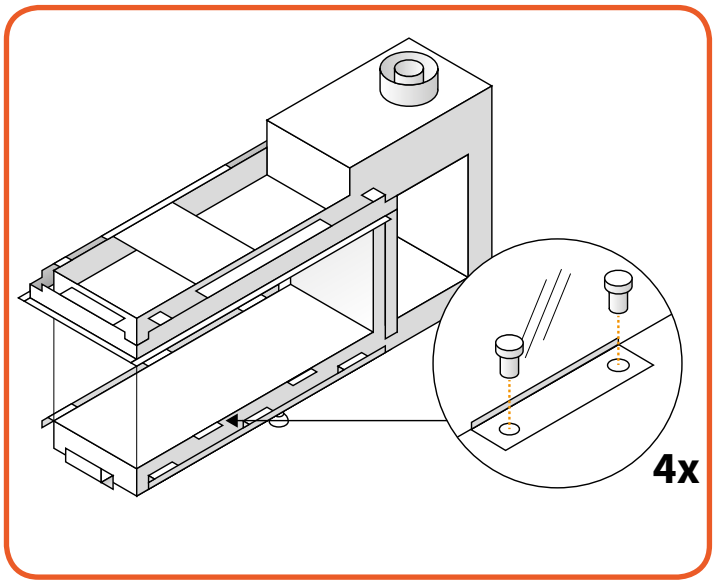



Figure 10-4: Remove the screws from the glass clamps

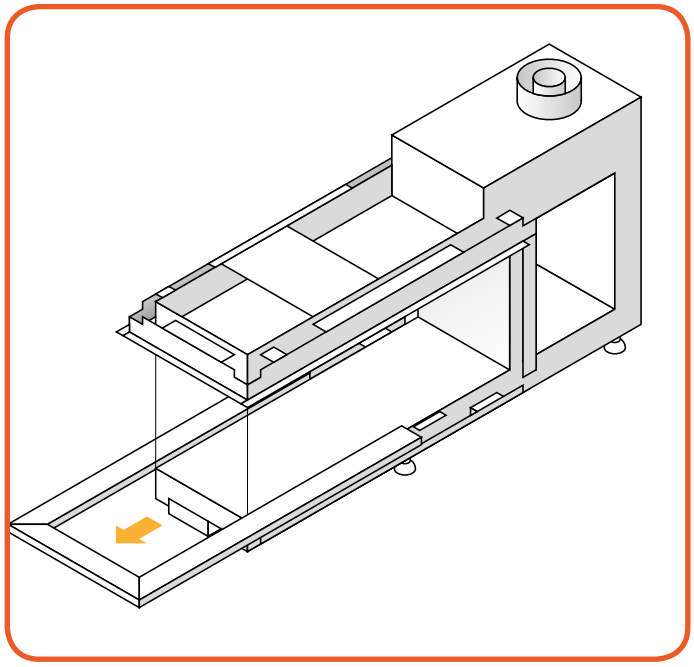


Figure 10-3: Remove lower trim

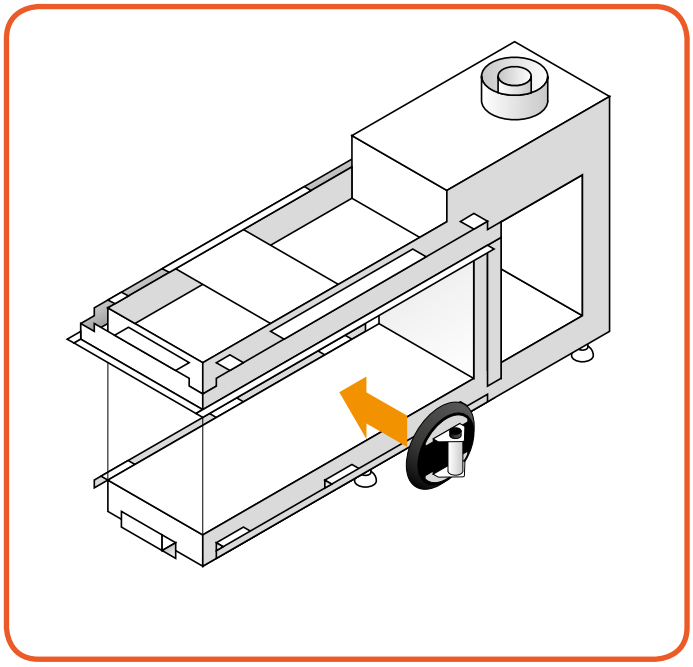


Figure 10-5: Put on the suction cup

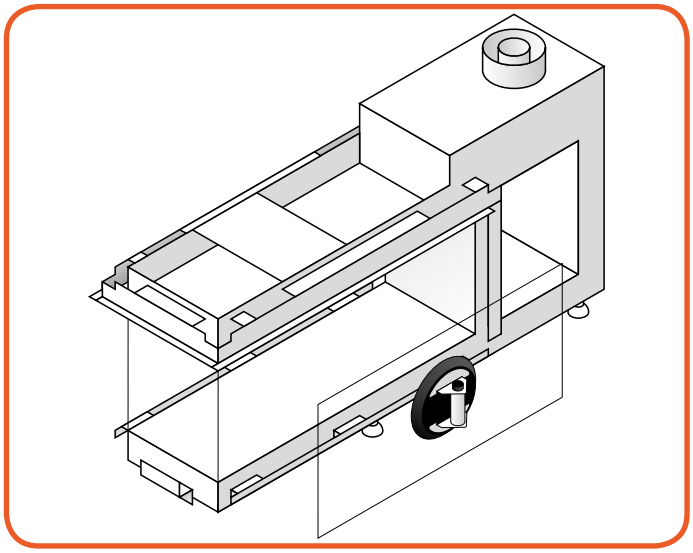


Figure 10-6: Remove glass

*This and the next steps are the same steps for the Tenore 100. Instead of the side glass at the end, there will be a steel frame here. Both support the construction and should not be removed!

## 11 Decoration arrangement

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

Ensure that the grate is sitting firmly in the base of the fire box, with the long slot in the centre of the Grate aligning with the centre slots on the Burner. The Pilot flame must be visible through the grate and the cut-out in the Pilot Shield.

Ensure that a number of holes in the Grate and the Pilot area are free of embers. After placing the embers and logs accordingly sprinkle some ashes over the logs and embers.
Finally check the pilot is clear, no embers have entered the Pilot area and the cross lighting is good before the glass is replaced.

An elaborate instruction is available via Element4 or on the log set instruction that are supplied with every device on purchase.

**Figure 11-1: Logset and arrangement of the Lucius & Tenore 100**

## 12 User Instruction

We recommend that you have the appliance inspected annually by a recognized installer to ensure safe use and a long service life guarantee

### 12.1 Hand over to the customer

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

### 12.2 Maintenance instructions for the installer

Below is an overview of the minimum maintenance that must take place annually;
- Remove the glass plate and remove all ceramic parts.
- Remove any dirt on top of the burner with a vacuum cleaner and brush.
- Inspect the burner.
- Perform an ignition check.
- Check that the pilot light ignites the main burner free and unhindered by ceramic material.
- Perform a flame failure check

Maintenance on the burner should not be necessary. If this is the case, check the set pressure at the inlet to the burner. The correct pressure is stated in the back of this manual.

**Wood arrangement**
Brush the imitation logs and replace any broken or damaged parts (see earlier in this manual).

Shingles or gray stone:
- Never place more than 1 layer over the burner
- Multiple layers will affect the fire image adversely

- Check the ceramic cord on the glass plate
- Reinstall the glass plate.
- Check the installation for gas leaks.
- Check whether the facade / roof outlet is free of obstacles.

### 12.3 Anti-reflective glass

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

Maintenance of anti-reflective glass for anti-reflective windows is of great importance to observe certain maintenance instructions. In order not to damage the coating layers, the use of hard (sanding) sponges, abrasives and cleaning agents with ammonia is prohibited. Only use a neutral cleaning product (neither acidic nor alkaline), such as Element4 window cleaner (Item No. 4500926). The cleaning agents that you normally use should therefore not be used with an anti-reflective glass. Use a soft cloth or sponge (not paper).
Just as with ordinary ceramic glass, the white haze that results from the first combustion must be removed with anti-reflective glass. After that, sporadic maintenance is sufficient. Always rub the window completely dry: Residual water can stain the coating. Fingerprints are more visible on anti-reflective glass, therefore wear (rubber) gloves when grasping the window. If the window is lifted with a suction cup, the rubber of the suction cup must be dry to avoid damage to the coating.

### 12.4 Ceramic parts

This appliance is equipped with a ceramic fire bed with heat-resistant ceramic fibers, or artificial glassy silicate fibers. Excessive exposure to this material may cause irritation to the eyes, skin and respiratory tract. We therefore recommend that the dust emission is reduced as much as possible when handling these materials

### 12.5 Replacement of parts

If parts need to be replaced, use only original parts from the manufacturer. The warranty will be void if non-standard parts are used. In addition, they can be dangerous.

### 12.6 Packaging materials

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

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

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

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

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

## 13 Warranty conditions

Note: If there are faults that you can not solve yourself with the aid of the fault solver in appendix 1, please contact your installer or your dealer.

The Element4 products to which this warranty card applies are carefully manufactured from high-quality materials. Should errors or defects nevertheless occur, then the following guarantee provisions apply:

1. Before proceeding with installation, the installer will first ensure the good quality and proper operation of the flue gas discharge duct. Gas appliances must always be installed by a competent installer in accordance with national and, if applicable, regional standards and according to the installation instructions supplied with the appliance.

2. On the Element4 gas appliances, the warranty period is 2 years, starting from the date of purchase that must be clearly stated on the purchase invoice.

3. The ceramic glass is not covered by the guarantee as well as physical and chemical effects from the outside during transport, storage or assembly.

4. If a fault should occur within the warranty period that is the result of a manufacturing defect or material defect, Element4 will send a spare part free of charge to the installer to replace the defective part, without compensation for assembly and disassembly.

5. If the installer himself can not rectify the malfunction, he can request Element4 BV to do so, if this is within the boundaries of the Benelux.

6. Only after prior consultation can the entire device or parts of it be sent for inspection or repair. These goods must be accompanied by this completed warranty document together with the dated proof of purchase.

7. In case of any on-home service by Element4 BV (only within the Benelux) during the warranty period, the warranty documents (this sheet together with the dated proof of purchase) must always be submitted.

The following costs will be charged for services provided at home outside of the guarantee period:

- Material costs
- Working hours
- Call-out costs

The warranty does not apply in the following cases:

- If the above points are not fulfilled or only partially.

- If, without the knowledge of Element4, any changes have been made to the device.

- If the appliance was not installed in accordance with the installation instructions, or was not used in accordance with the operating instructions.

- If there are other than the required artificial wooden trunks, ceramic material or stones on the burner bed.

## A First aid for malfunction

Below you will find an overview of the possible cause and solution in the event of a failure.

| | Problem | | Possible Cause | Solution |
|---|---|---|---|---|
| A | **No transmission (motor will not run)** | 1 | Batteries in the receiver empty | Replace the batteries (4x 1.5V AA) |
| | | 2 | Batteries hand remote empty | Replace the batteries (2x 1.5V AAA) |
| | | 3 | 6V-adapter defective | Check the adapter<br>Replace the adapter if necessary |
| | | 4 | Hand transmitter not linked to the receiver | Connect the hand transmitter to the receiver<br>Press and hold the reset button until you hear two beeps. After the second longer tone, release the reset button. Press within 20 sec. on the down arrow on the hand transmitter<br>Two short beeps confirm that the code has been set.<br><br>***Tip: For this action a video is available on our youtube channel*** |
| B | **Receiver does not receive a signal** | 1 | Receiver defective | Replace receiver |
| | | 2 | Bend pin connection on the receiver | Bend the pen straight again (See Figure A-1) |
| | | 3 | Hand transmitter defective | Replace the hand transmitter |
| | | 4 | No or bad reception. The receiver is in a metal box! This disturbs the reception. | Change the position of the antenna (See Figure A-2) |
| C | **No ignition; no beep** | 1 | Receiver defective | Reset the receiver (See K1)<br>If necessary, replace the receiver |
| D | **No ignition; receiver gives a five-second beep** | 1 | Loose contact in the thermocouple circuit / wiring 2nd thermocouple | Check plug connections<br>Repair the wiring if necessary |
| | | 2 | Receiver defective | Replace receiver |
| | | 3 | Magnetic coil defective | Replace gas block / or only coil coil |
| | | 4 | Bent pin connection on the receiver | See B2 |
| | | 5 | Thermocouple broken | Check the thermocouple at the bottom of the pilot burner if necessary. fracture.<br>Replace the thermocouple if necessary |
| E | **Ignition stops after 1 spark** | 1 | Mass on the gas block not OK | • Remove the 20mm Torx screw (See Figure A-3)<br>• File or scrape the surface thoroughly<br>• Reinstall the Screw and tighten it securely<br><br>***Tip: For this action a video is available on our youtube channel*** |
| F | **No pilot flame but there is an ignition** | 1 | No gas | Check / measure gas inlet pressure |
| | | 2 | Air in the gas line | Venting the gas line can be done via test point A (See Figure A-4<br><br>***Tip: For this action a video is available on our youtube channel*** |
| | | 3 | Pilot flame blocked | Check pilot burner |
| | | 4 | Thermocouple wiring is incorrect | Check the wiring on the interrupter (See Fig. A-5)<br>Check the wiring on the receiver (See Fig. A-6) |

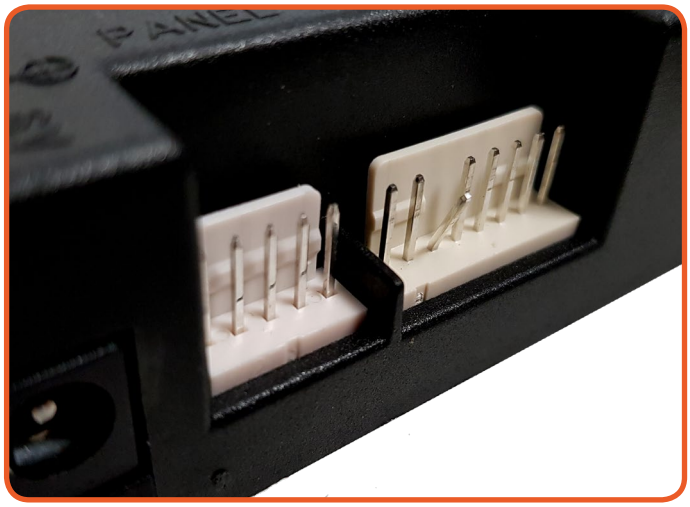


Figure A-1: Bend pin

Figure A-4: Testpoint A

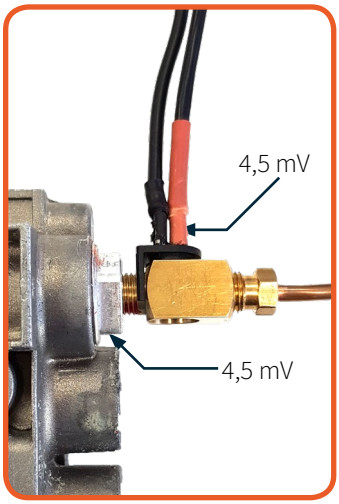



Figure A-5: interrupter

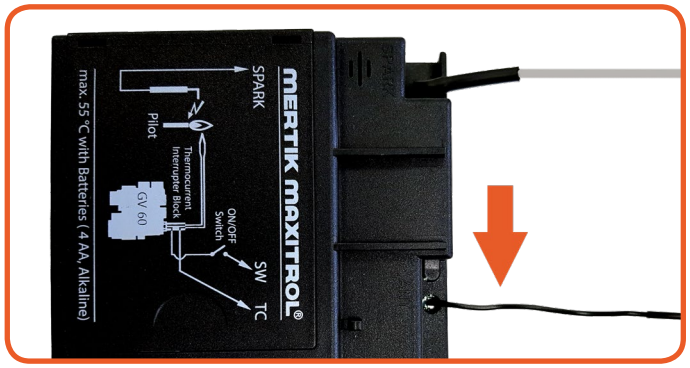



Figure A-2: Antenna

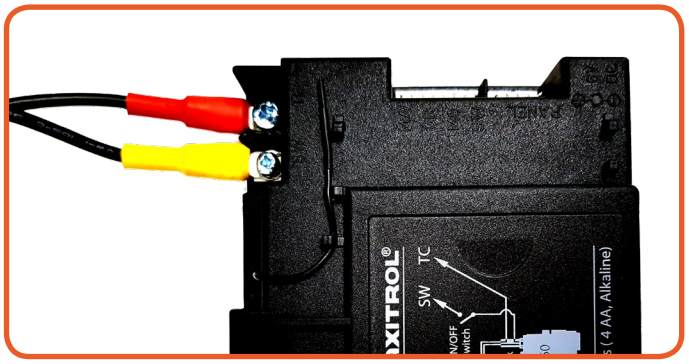



Figure A-6: Wiring receiver

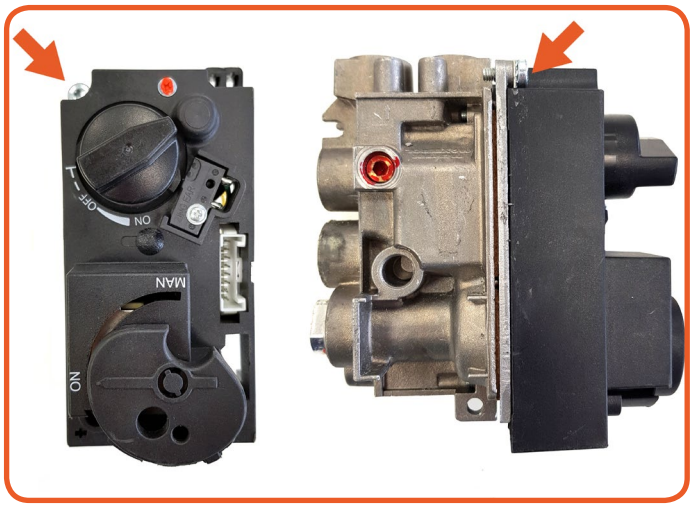



Figure A-3: Torx screw

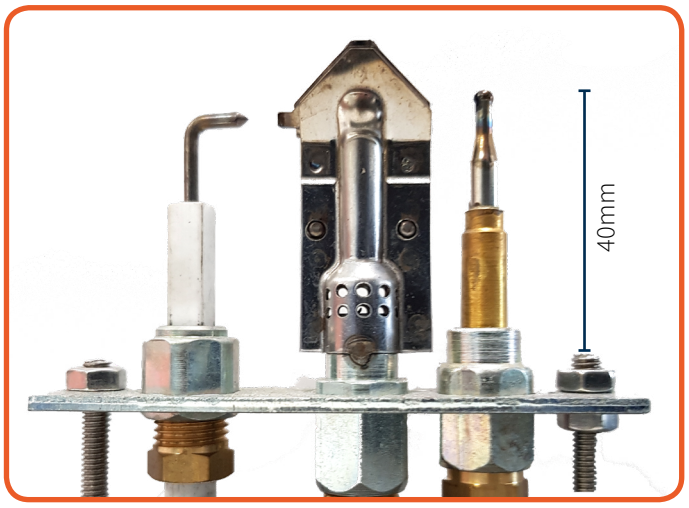



Figure A-7: Pilot set

| | Problem | | Possible Cause | Solution |
|---|---|---|---|---|
| G | **The pilot light goes on but goes out immediately when the main burner switches on** | 1 | Insufficient voltage across the thermocouple or too much resistance in the thermocouple circuit | Place the measuring pins of the multimeter on the ground and black cable of the breaker. This value must be at least 4.5 mV.<br><br>***Tip: For this action a video is available on our youtube channel*** |
| | | 2 | Gas pressure loss may cause the pilot flame to be too small | Check and measure the pre-pressure via test point A (See Figure A-4)<br><br>***Tip1: Measure the pre-pressure load and unloaded***<br>***Tip 2: For this action a video is available on our youtube channel*** |
| | | 3 | Thermocouple defect | Replace thermocouple<br><br>***Tip: Always use a new pressure piece when a thermocouple is replaced*** |
| | | 4 | Thermocouple is incorrectly positioned | Check the position of the second thermocouple. (See Figure A-7) |
| H | **Check the position of the second thermocouple. (See Figure A-7)** | 1 | Decoration material blocks 2nd thermocouple | Leave the space around and at the 2nd thermocouple free of decorative material. (See Figure A-8) |
| | | 2 | Burner grille does not fit well with the 2nd thermocouple | Position burner grate |
| | | 3 | Airflow in the burner chamber causes a restless fire image | Check drain configuration<br>Fit a flue gas limiter |
| I | **Receiver gives 3 short beeps after each command:** | 1 | Batteries in the receiver are empty | Replace the batteries4x 1.5V AA |
| J | **Pilot is on but the main burner does not start working:** | 1 | Gas valve is on manual | Set Knob A must be in the ON position |
| K | **Double burner does not work:** | 1 | RESET the receiver | Briefly press the RESET button and the receiver sounds 1 beep (See Figure A-10) |
| | | 2 | Wiring loose on the receiver | Click the plug in the AUX position on the receiver. (See Figure A-11) |
| | | 3 | Solenoid valve does not switch | Replace the solenoid valve.<br><br>***Tip: only connect a new valve to the receiver first*** |
| | | 4 | Remote defective. | Check if the AUX symbol is on the display when you press the PLUS PLUS key on the remote. (See Figure A-12) |
| L | **No response from the receiver when the fireplace is started via smartphone or tablet.** | | | Disconnect the Wi-Fi box from the receiver<br>Click the plug from the SI connection on the receiver (See Figure A-13)<br><br>***Tip: Reset the home router***<br><br>If the fireplace now functions normally, check the Wi-Fi settings |
| M | **Hearth does not respond via Domotica system** | | | Disconnect the cabling on the Domotica system and start the fire with the hand transmitter<br><br>When the fireplace now reacts normally, the problem is in the Domotics |

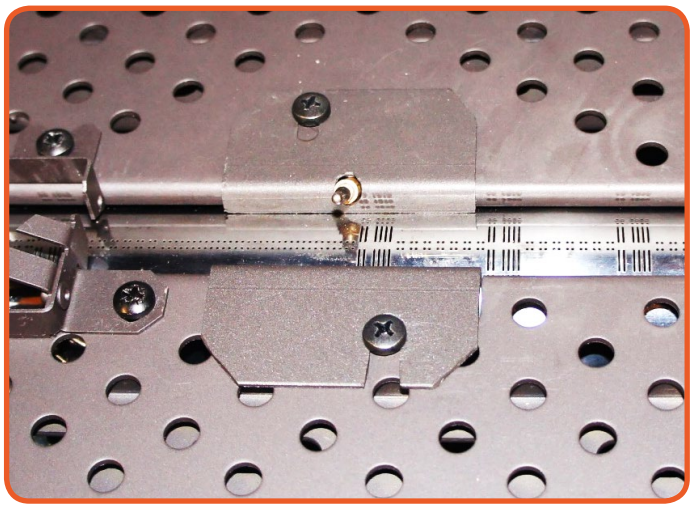


Figure A-8: Second thermocouple

Figure A-9: Button A on “On”

Figure A-10: RESET-button

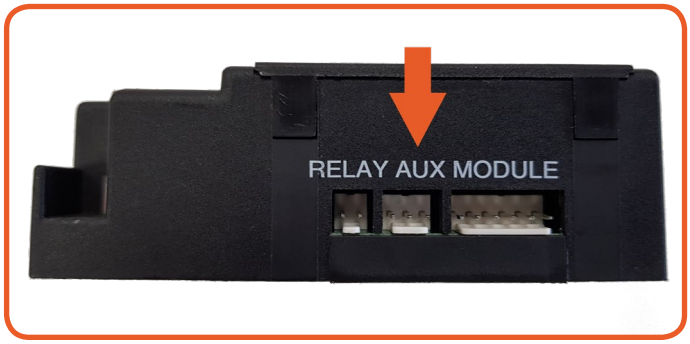
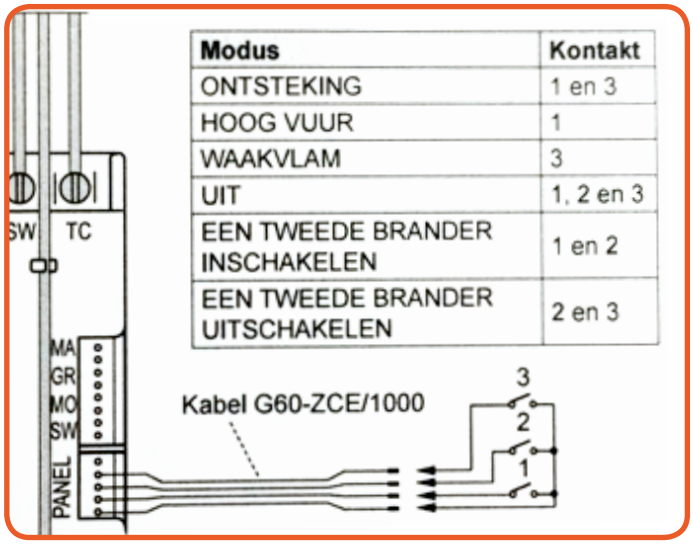



Figure A-11: Aux-position receiver

Figure A-12: “Doubble plus”-button on the remote

Figure A-13: SI-entrance




| Modus | Kontakt |
|---|---|
| ONTSTEKING | 1 en 3 |
| HOOG VUUR | 1 |
| WAAKVLAM | 3 |
| UIT | 1, 2 en 3 |
| EEN TWEEDE BRANDER INSCHAKELEN | 1 en 2 |
| EEN TWEEDE BRANDER UITSCHAKELEN | 2 en 3 |

Figure A-14: Domotica system

## B Errors codes Procontrol App

| Error code | Message in App | Description | Possible cause |
|---|---|---|---|
| F02 | Contact service | 5 sec beep van de ontvanger.<br>Geen reactie van ontvanger, en geen ontsteking. | • No engine end stop<br>• Wiring motor<br>• Microswitch<br>• Knob B |
| F03 | Contact service | 5 seconds beep from the receiver.<br>Ignition process is interrupted<br>No response from receiver, and no ignition. | Thermocouple wiring not in order / interrupted |
| F04 | Ignition failure. wait 1 minute, than try again. | No pilot flame within 30 sec.<br>After 3rd attempts F06 | • No gas<br>• Air in the pipe<br>• No spark |
| F06 | Contact service | 3rd time start attempt within 5 minutes | • No gas<br>• Air in the pipe<br>• No spark |
| F10 | Contact service | Pilot is on<br>2nd thermocouple procedure<br>Starting again after 2 min | • 2nd thermocouple is not heated<br>• 2nd thermocouple blocked by decoration material |
| F12 | Contact service | Motor turns to pilot light position | • Receiver above 60 ° |
| F13 | Contact service | Motor turns to pilot light position | • Receiver above 80 ° |
| F14 | Contact service | 5 sec. beep<br>No reaction from the fireplace and no ignition | • Wiring not in order<br>• 2nd thermocouple interrupted<br>• No right recipient |
| F15 | Contact service | 5 sec. beep<br>No reaction from the fireplace and no ignition | • 2nd thermocouple not connected<br>• Wiring 2nd thermocouple |
| F16 | Hand transmitter out of reach | No temperature in the app | • Hand transmitter out of reach for more than 1.5 hours.<br>• Electrical fault |
| F17 | Contact service | No ignition<br>No reaction from the fireplace | • Voltage above 7.5 volts<br>• AC adapter defective |
| F19 | Contact service | Pilot flame goes out when the main burner is opened | • 1st Thermocouple voltage not sufficient<br>• 1st thermocouple defective<br>• Too low pressure<br>• Resistance in the thermocouple circuit<br>• Gas control block (magnetic coil) |
| F26 | Contact service | No high flame regulation possible | • Receiver above 60 ° |
| F28 | On-Demand pilot | Pilot flame goes out | • Pilot flame goes out after there has been no motor movement for a long time. |
| F31 | Contact service | No reaction from the fireplace<br>No control possible by the electronics | • Receiver defective |
| F41 | Controleer Wi-Fi | No reaction from the fireplace | • No Wi-Fi connection |
| F43 | No receiver connected. Contact service | No reaction from the fireplace<br>No control possible by the electronics | • No communication between receiver and Wi-Fi module |
| F44 | Contact service | No temperature display in the App<br>“N.a.” in the App | • No hand transmitter connected<br>• Batteries hand transmitter empty |

| Error code | App Message | Time | Description | Possible Cause |
|---|---|---|---|---|
| F04 | F04 | 4 sec. | 5 seconds beep from the receiver.<br>No response from receiver, and no ignition. | No engine end stop<br>Wiring motor<br>Microswitch<br>Knob B |
| F06 | F06 | 4 sec. | 3rd time a start attempt within 5 minutes | No gas<br>Air in the pipe<br>No spark |
| F09 | F09 | 4 sec. | No reaction from the fireplace.<br>No electronic control | The torque of the hand transmitter and receiver did not work |
| F40 | Battery symbol<br>Contact service | Continu | Battery voltage in the hand transmitter too low | Replace batteries<br>2x 1.5 V AAA |
| F46 | F46 | 4 sec. | No reaction from the fireplace<br>Interrupted responses<br>No electronic control | No or bad connection between the receiver and hand transmitter<br>No voltage on the receiver<br>Low communication range, AC adapter |

## C Faults and error codes in the remote

This appendix can be consulted when error messages occur in the application for smartphone and tablet.

**F41 error**
This message will appear if there is no or bad Wi-Fi reception, this can be between app and router or Wi-Fi box and router

**App**
By closing the App and opening it again, this is solved in most cases.

**Cause**
The cause may be that the ProControl module is blocked or is too far away from the router.
See: router information.

**Possible solution**
Only place an external router for the ProControl module
Strengthen existing Wi-Fi signal
Resetting the router.

### C.1 Router information

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

### C.2 Wi-Fi Router
It is important to think carefully about the location of a router. This device spreads the wifi signal in and around your home. Therefore, preferably choose a central position. You prevent long distances from occurring. Many people put the router in the meter cupboard, because that is where the internet comes in at many households. A bad choice! For a powerful WiFi signal, the router needs as much space as possible. Therefore, do not place the device near a wall or on the ground. Some routers have multiple antennas that you can target. Try to spread these antennas so that you increase the range.

**Figure C-1: Application screen**

### C.3 Jammers
Many devices also emit radio waves just like your router. These include microwave ovens, wireless doorbells, baby monitors, Bluetooth adapters, wireless music systems, DECT telephones and security cameras. These devices can disrupt your wireless network (interference), so the Wi-Fi connection is not optimal. Try to keep jammers as far away as possible from the router. Neighboring wireless networks also play a role in the Wi-Fi area.

### C.4 2.4 or 5 GHz band?
By default, most routers use the 2.4 GHz band to broadcast the Wi-Fi signal. The disadvantage is that this frequency band is very busy, so that there is quickly interference. There are a lot of competing users and jammers using the same radio waves.
Since most “older” laptops, smartphones, tablets and other devices can not connect via the 5GHz band, the ProControl module is not suitable for 5GHz band.

## D Location terminal

"Distance" = minimum distance required to position the exhaust in order to prevent adverse effects in relation to;

1. A ventilation opening of a used room, toilet or bathroom
2. Supply of heated air when the supply flows through a used room.
3. A window that can be opened and located in the vicinity of a used room, toilet or bathroom.

| **To prevent adverse effects** | **Distance: Exhaust A, B or C** |
|---|---|
| At the same roof level | > 6m * |
| At a different roof level | > 3m * and ** |
| On a lower wall | > 2m * |
| On a higher sloping surface | > 6m *** |

At which;
* = If the required distance is not feasible, the rules regarding the exit position have priority.
** = If the exhaust is placed at least one meter higher than the inlet opening, or a window that can be opened.
*** = If the required distance is not feasible, the exhaust must be placed at least one meter above the highest façade / roof.

| | Position terminal | dist. (mm) |
|---|---|---|
| **A*** | Directly below an opening, ventilation stone, casement window etc. | 600 |
| **B** | Above an opening, ventilation stone, casement window etc. | 300 |
| **C** | In addition to an opening, ventilation stone, casement window etc. | 400 |
| **D** | Under gutters or drain pipes | 300 |
| **E** | Under eaves | 300 |
| **F** | Under balconies or roofs of open garages | 600 |
| **G** | From a vertical drain pipe | 300 |
| **H** | From an inside or outside corner | 600 |
| **I** | Above ground roof or balcony level | 300 |
| **J** | From a surface opposite the tip | 600 |
| **K** | From an end opposite the tip | 600 |
| **L** | From an opening in the open garage (eg door, window in the house) | 1200 |
| **M** | Vertically from one end to the same wall | 1500 |
| **N** | Horizontally from one end to the same wall | 300 |
| **P** | From a vertical structure on the roof | 600 |
| **Q** | Above the intersection with the roof | 150 |

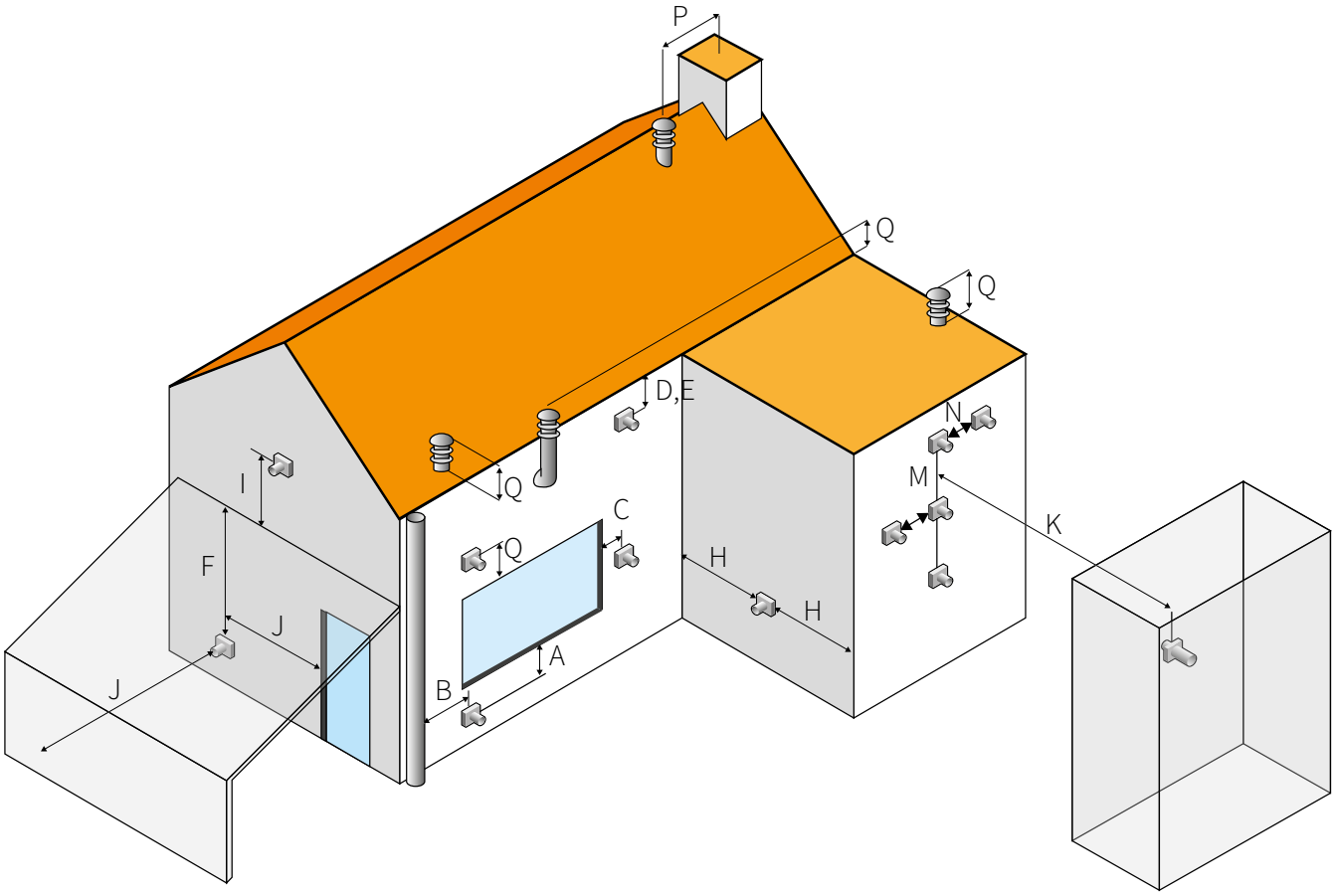



**Figure D-1 - Location of terminal**

# E General rules for flue gas extraction

## E.1 Power-Fan

For flue configurations that do not function on natural draft, the Power-Fan can be used. For extensive installation instructions and the operation of the Power-Fan we refer to the manual of the Power-Fan.

## E-2 Determining the flue gas extraction diameter:

The general rule is that you must always adhere to a flue diameter of 200/130. You always start with a vertical length of ½ meter

Except :
- When the stove flue pipe connection is 150/100 mm.
- when your flue only gradates vertically, in which case you may taper directly onto the stove, to a diameter of 150/100.
- (Barring category 3 stoves)

**Determining maximum vertical length:**
If you have tapered your flue gas extraction as per the above, to a diameter of 150/100, then the total maximum permitted vertical length of your flue gas extraction is 11 meters. If you are using a diameter of 200/130 then your maximum total length is 22 meters.

**Determining maximum horizontal length:**
In order to ascertain whether your intended extraction shall function properly, a stove category is determined.
After you have determined in which category your fire falls, you search for the corresponding calculation tables.

Each category refers to a table. Each appendix has two tables:
1. A table for horizontal outlet.
2. A table for vertical outlet

You must use the table applicable to you. You calculate your total vertical section (TVS) as well as your total horizontal section (THS). In the table you will find advice; TVS on the vertical axis and THS on the horizontal axis.

**Calculating the Total Vertical Section (TVS):**
You calculate the Total Vertical Section by adding up all vertical upward sections in the extraction gradation.

**Calculating the Total Horizontal Section (THS):**
You calculate the Total Horizontal Section by adding up all horizontal parts in the extraction gradation.

**Beware of bends!**
Bends provide no extra resistance in the system and must therefore be included in the TVS and THS.

There are 2 bend types:
- 45° and 90° bends from vertical to horizontal and vice versa. (Type N)
- 45° and 90° bends from horizontal to horizontal (Type Q)

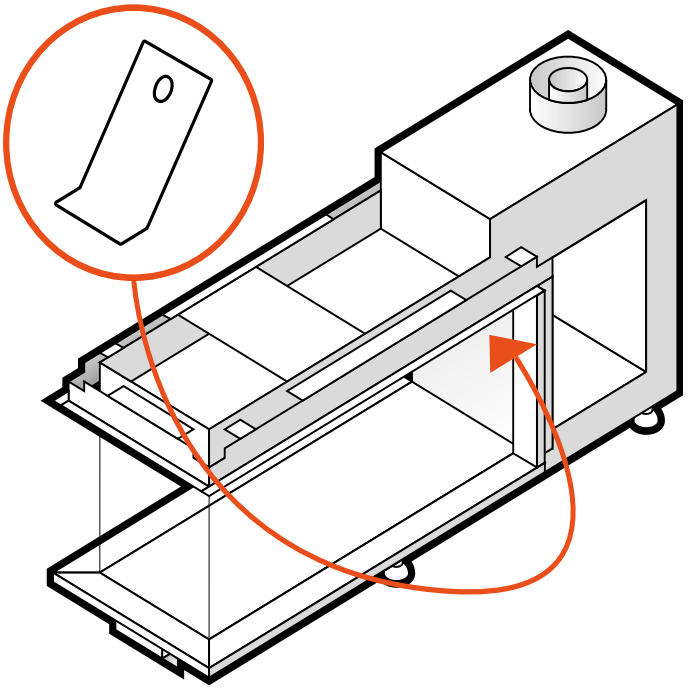



**Figure E-1: Position of the flue restrictor**

The first 3 type N bends (from vertical to horizontal) do not need to be included in your calculations. The next type N bends are each calculated as 1 horizontal meter in the THS.

For a type Q bend (horizontal to horizontal) the following applies:
- 90° bend in the horizontal section counts as 2 horizontal meters in the THS.
- 45° bend in the horizontal section counts as 1 horizontal meter in the THS

Extraction sections in a 45° upward pipe:
- 45° upward sections are calculated both vertically and horizontally.

## F Calculation table flue gas limiter

The calculation table shows when you need to place a flue gas limiter

| Result | Action |
|---|---|
| 0 | No ristrictor required |
| 35 | Position the resitrictor |
| x | No good operation guaranteed * |

* Perhaps the powerfan is a good solution here.

### F.1 Calculation table of horizontal flue diameter 200/130

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **10** | 35 | 35 | 35 | 35 | 35 | 0 | 0 |
| **9** | 35 | 35 | 35 | 35 | 35 | 0 | 0 |
| **8** | 35 | 35 | 35 | 35 | 35 | 0 | 0 |
| **7** | 35 | 35 | 35 | 35 | 35 | 0 | 0 |
| **6** | 35 | 35 | 35 | 35 | 35 | 0 | 0 |
| **5** | 35 | 35 | 35 | 35 | 35 | 0 | 0 |
| **4** | 35 | 35 | 35 | 35 | 35 | 0 | 0 |
| **3.5** | 35 | 35 | 35 | 35 | 35 | 0 | 0 |
| **3** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2.5** | 0 | 0 | 0 | 0 | 0 | 0 | x |
| **2** | 0 | 0 | 0 | 0 | 0 | x | x |
| **1.5** | 0 | 0 | 0 | 0 | x | x | x |
| **1** | 0 | 0 | 0 | x | x | x | x |
| **0.5** | x | 0 | x | x | x | x | x |
| **TGV/ THG** | **0** | **0.5** | **1** | **1.5** | **2** | **2.5** | **3** |

### F.2 Calculation table of vertical flue diameter 200/130

With a roof terminal, the total vertical height must be at least one meter.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **22** | 0 | x | x | x | x | x | x | x | x |
| **21** | 35 | 35 | 0 | x | x | x | x | x | x |
| **20** | 35 | 35 | 35 | 35 | 0 | x | x | x | x |
| **19** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **18** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **17** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **16** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **15** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **14** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **13** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **12** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **11** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **10** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **9** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **8** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | 0 |
| **7** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | x |
| **6** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | x |
| **5** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | 0 | x |
| **4** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | x | x |
| **3.5** | 35 | 35 | 35 | 35 | 35 | 35 | 0 | x | x |
| **3** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | x | x |
| **2.5** | 0 | 0 | 0 | 0 | 0 | 0 | x | x | x |
| **2** | 0 | 0 | 0 | 0 | 0 | x | x | x | x |
| **1.5** | 0 | 0 | 0 | 0 | x | x | x | x | x |
| **1** | 0 | 0 | 0 | x | x | x | x | x | x |
| **0.5** | x | 0 | x | x | x | x | x | x | x |
| **TGV/ THG** | **0** | **0.5** | **1** | **1.5** | **2** | **2.5** | **3** | **3.5** | **4** |

### F.3 Calculation table vertical flue diameter 150/100

If the channel is only vertical, you may reduce to a diameter of 150 / 100mm, similar to the hearth. If you reduce, you do not need to use a flue gas reduction plate.

## G Technical data

The dataplate specifies for which type of gas, gas pressure and for which country this appliance is intended. The nameplate is attached to a chain. It must remain attached to the chain.

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

| | | NATURAL GAS | | | | | LPG | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Country of use ▶** | | AT,BG,CH DK,ES,FI GB,GR,HR IE,IT,LT LV,NO,PT RO,SE,SI SK,TR | DE,LU PL | BE,FR | DE | NL | BG,DK,EE FI,GB,GR HU,HR,IT LY,MT,NL NO,RO,SE SI,SK,TR | AT,CH CZ,DE | AT,BE,CH CZ,DE,ES FR,GB,IE IT,NL,PT SK,TR | CZ,LT NL,SK |
| **Gas Category ▶** | | **$I2_H$** | **$I2_E$** | **$I2_{E+}$** | **I2ELL** | **$I2_L$/ $I2_{EK}$** | **$I3_{B/P}$** | **$I3_{B/P}$** | **I3+** | **I3+** |
| | **Unit** | **G20** | **G20** | **G20/G25** | **G20/G25** | **G25/G25,3** | **G30/G31** | | | |
| **Supply pressure** | mbar | 20 | 20 | 20 / 25 | 20 | 25 | 30 | 50 | 28 - 30/37 | 30 |
| **Burner pressure** | mbar | 14,1 | 14,1 | 14,1 / 18,8 | 14,1 | 18,8 | 28,1 | | | |
| **Gross input** | kW | 16,1 | 16,1 | 16,1 / 17 | 16,1 | 17 | 15,5 | | | |
| **Net input** | kW | 14,5 | 14,5 | 14,5 / 15,3 | 14,5 | 15,3 | 14,3 | | | |
| **max. Heat output** | kW | 13 | 13 | 13 /13,7 | 13 | 13,7 | 12,8 | | | |
| **min. Heat output** | kW | 4,3 | 4,3 | 4,3 / 4,6 | 4,3 | 4,6 | 4,3 | | | |
| **(Max.) Gas usage** | $m^3$/uur | 1,583 | 1,583 | 1,58 / 1,82 | 1,483 | 1,82 | 0,43 | | | |
| **NOx** | $mg/kWh_{input}$ | | | <100 | | | <100 | | | |
| **Pilot** | | | | G30-ZP2-312 | | | G30-ZP2-271 | | | |
| **Burnerinjection** | | | | 650 (2X) | | | 260 (2X) | | | |

**Additional electricity use**

| | | | |
|---|---|---|---|
| At rated heat output | $el_{max}$ | $9^{-5}$ | kW |
| With minimal heat emission | $el_{min}$ | $9^{-5}$ | kW |
| In standby mode | $el_{sb}$ | $9^{-5}$ | kW |

**Power requirement for the permanent pilot light**

| | | |
|---|---|---|
| Power requirement for the permanent pilot light (requirements applicable) | $P_{pilot}$ | Does not apply |

**Efficiency (NCV)**

| | | | |
|---|---|---|---|
| Efficiency at rated heat output | $\eta_{th,\,nom}$ | 89 | % |
| Efficiency at min. heat output (indicative) | $\eta_{th,\,min}$ | 58 | % |

**Type of heat release / control room temperature (Select one)**

With electronic control of the room temperature plus week switch

**Other control options**

Control of the room temperature with presence detection

Control the room temperature with open window detection

With the option of remote control

With adaptive control of the start

With limitation of the operating time

* i.e. $I2_{(43.46\ -45.3\ MJ/m3\ (0°C))}$

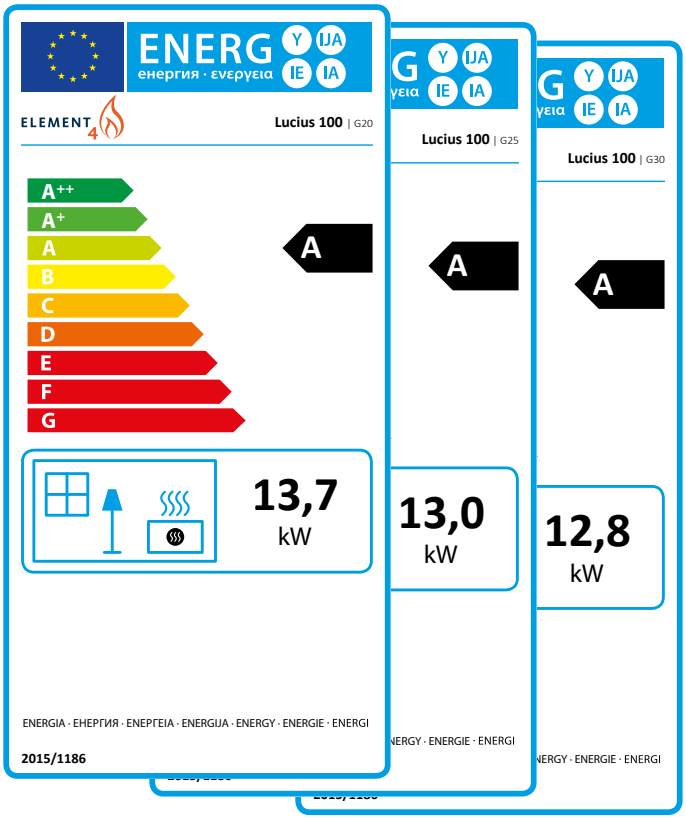
## H Ecodesign

Since 1 January 2018 every fireplace has been provided with an eco-label which is always supplied with the fireplace. The ecolabel shows which category the fireplace belongs to.

### H.1 Ecolabels

The ecolabels for the different types of gas are indicated below, respectively G20, G25 and G30.

**Lucius 100***




*Also goes for the Tenore 100

## I Dimensional drawings

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

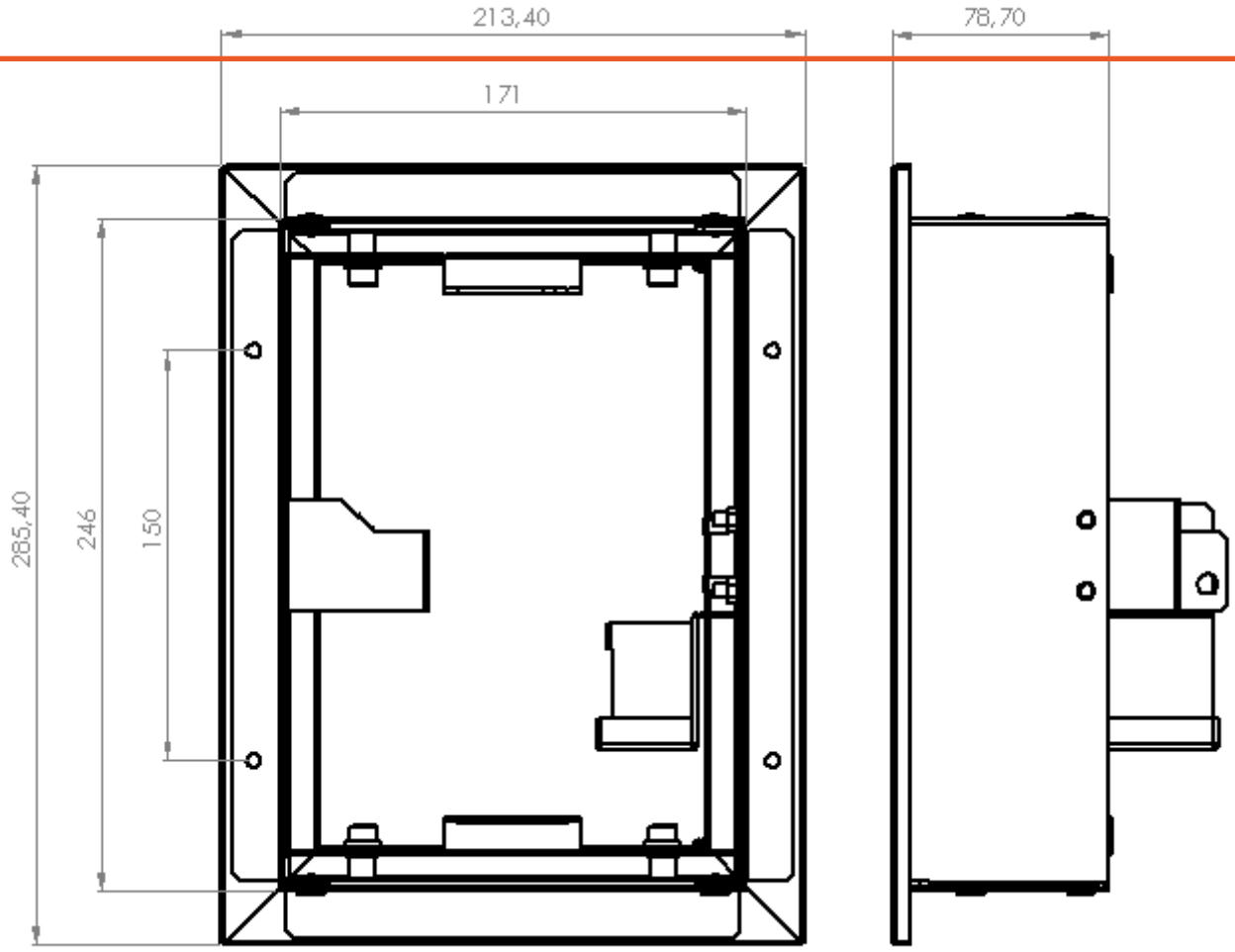



**Figure I-1: Service hatch, BDLE4**

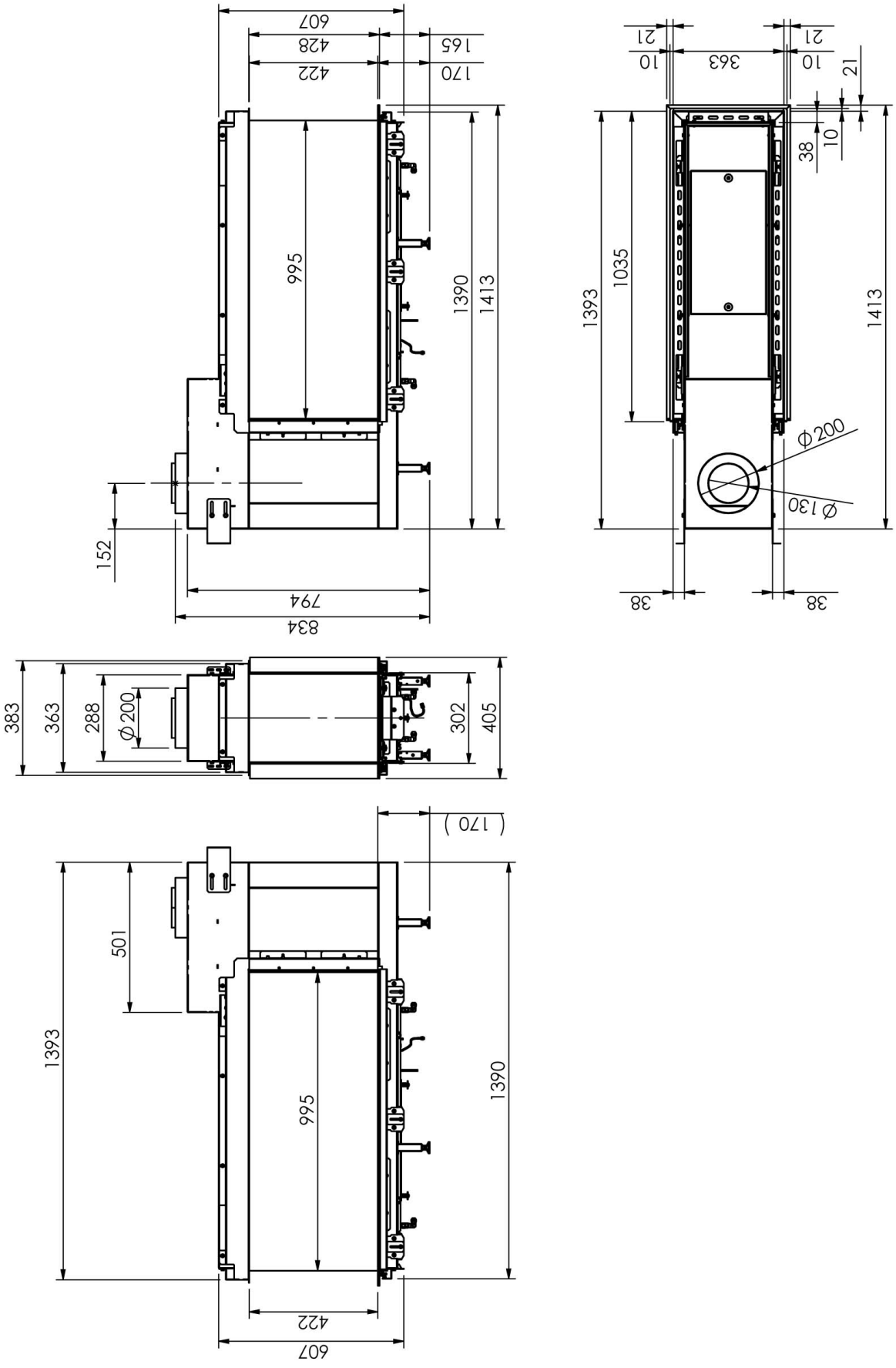



**Figure I-2: Technical Drawing Lucius 100**

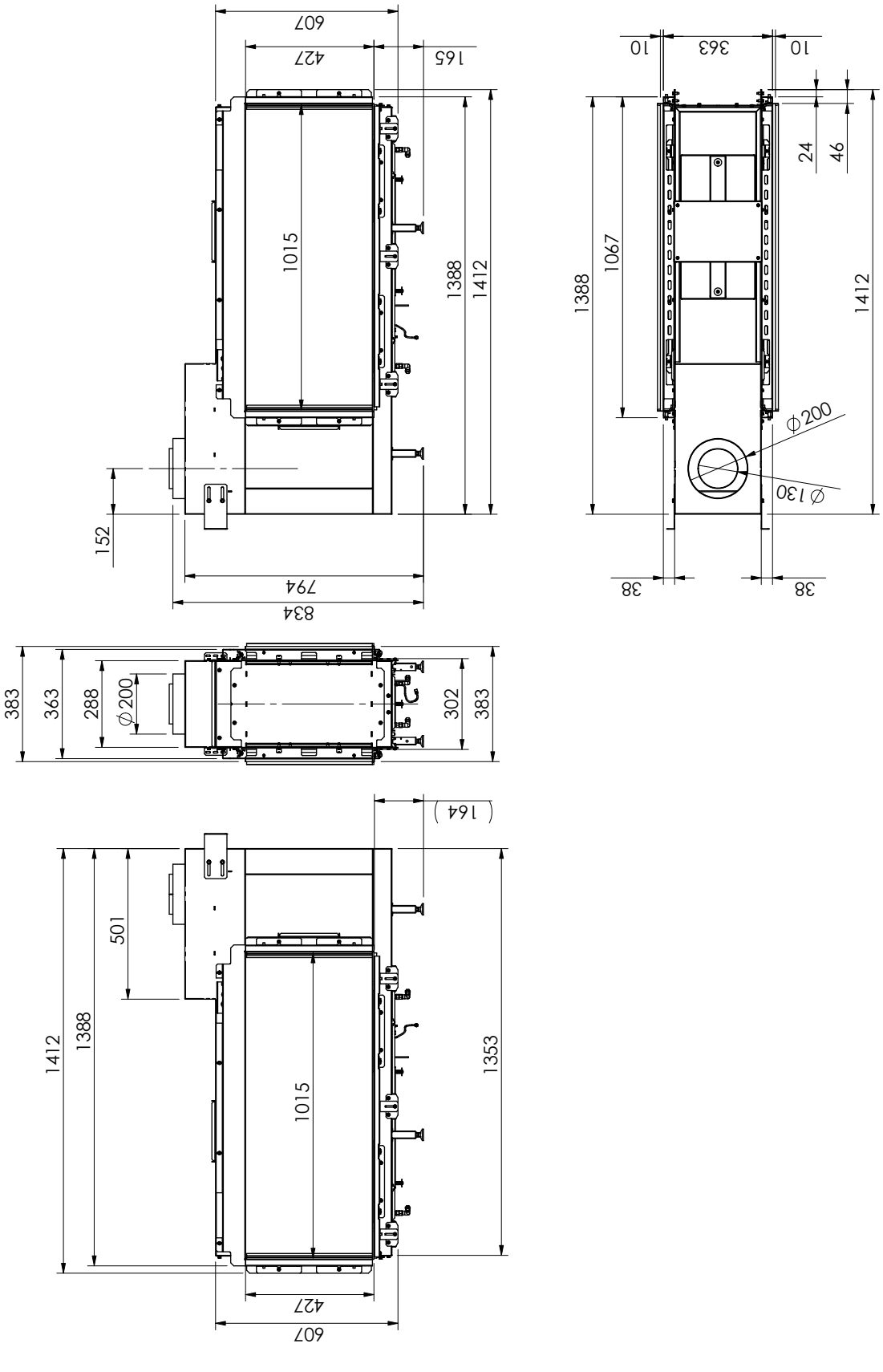



**Figure I-3: Technical Drawing Tenore100**

**ELEMENT 4 B.V.**

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