

Installation manual

Respect Premium OC

ENG



40011335-2009

 **faber**

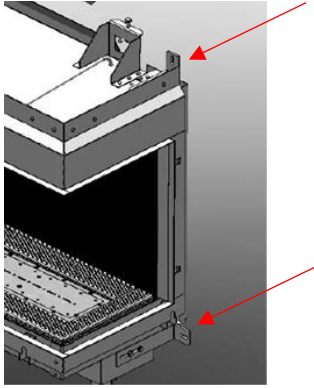


| Commissioning gas fire | | | |
|--|--|-------|--|
| Model: | | Date: | |
| Installation performed by: | | | |
| <p>I. Before starting the appliance, check:</p> <p>1. <input type="checkbox"/> If the front glass is taken out of the appliance and the decoration material has not been installed yet.</p> <p>2. <input type="checkbox"/> If the appliance is levelled.</p> <p>3. <input type="checkbox"/> If the safety hatches are cleaned and closed.</p> <p>4. <input type="checkbox"/> If there's a flue restrictor needed and is installed?</p> <p style="margin-left: 20px;"><input type="checkbox"/> Yes, _____ mm</p> <p style="margin-left: 20px;"><input type="checkbox"/> No, not needed.</p> <p>5. <input type="checkbox"/> If the position of the wall- or roof terminal is according to the correct operation and building regulations.</p> <p>6. <input type="checkbox"/> If the ventilation grids are installed and have in total min. 400cm² of free passage.</p> <p>7. <input type="checkbox"/> If all tie wraps are removed from the burner pipes and wiring.</p> <p>8. <input type="checkbox"/> Whether the ignition cable hang freely under the appliance and have no contact with any metal part.</p> <p>9. <input type="checkbox"/> If the service door is installed and gives access to the control unit.</p> | | | |
| <p>II. Installation:</p> <p>1. <input type="checkbox"/> Check main gas connection for leakage.</p> <p>2. <input type="checkbox"/> Check the standing pressure unloaded and compare with the rating plate:</p> <p style="margin-left: 20px;"><input type="checkbox"/> Measured standing pressure unloaded: _____ mbar (min./max. 20%, chapter 7)</p> <p style="margin-left: 20px;"><input type="checkbox"/> Deviation with the rating plate: _____ mbar.</p> <p>3. <input type="checkbox"/> Start the fire with the remote control (or the optional I.T.C. APP).</p> <p>4. <input type="checkbox"/> Run the appliance on max. settings and all burners.</p> <p>5. <input type="checkbox"/> Check <u>all</u> gas connections for leakage.</p> <p>6. <input type="checkbox"/> Check the standing pressure loaded and compare with unloaded pressure:</p> <p style="margin-left: 20px;"><input type="checkbox"/> Measured standing pressure loaded: _____ mbar.</p> <p>7. <input type="checkbox"/> Measure the thermocouple voltage <u>pilot flame side</u>:</p> <p style="margin-left: 20px;">(interrupter (red) / ground gas control block). This value must be between the 12 and 15 mV.</p> <p style="margin-left: 20px;"><input type="checkbox"/> Measured value: _____ mV.</p> <p>8. <input type="checkbox"/> Measure the thermocouple voltage <u>solenoid valve side</u>:</p> <p style="margin-left: 20px;">(interrupter (black) / ground gas control block). Value min. voltage 4,5 mV).</p> <p style="margin-left: 20px;"><input type="checkbox"/> Measured value: _____ mV.</p> <p>9. <input type="checkbox"/> Optional: measure the 2nd thermocouple voltage <u>main burner</u>:</p> <p style="margin-left: 20px;">(5-pin plug (receiver) / ground gas control block). Value 2 mV within 20 seconds.</p> <p style="margin-left: 20px;"><input type="checkbox"/> Measured value: _____ mV.</p> <p>10. <input type="checkbox"/> Check the burner on high and low setting.</p> <p>11. <input type="checkbox"/> Close and check all measuring nipples on leakage.</p> <p>12. <input type="checkbox"/> Switch off the appliance and let it cool down. Place the decoration material.</p> | | | |

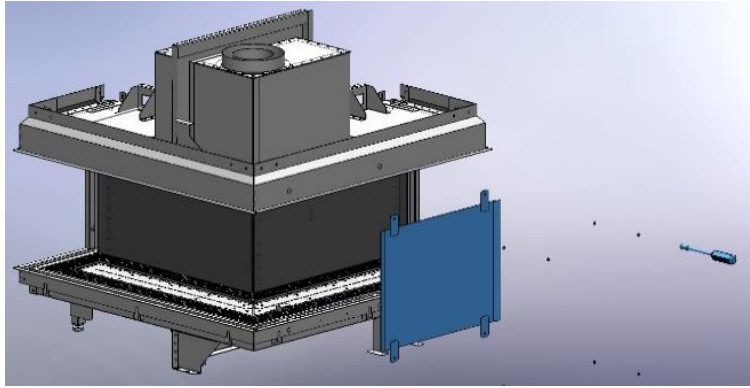


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| <p>III. Decoration:</p> <ol style="list-style-type: none">1. <input type="checkbox"/> The decoration material is placed according to the instructions (chapter 6 or the decoration instruction card).2. <input type="checkbox"/> Keep the pilot flame and if present the 2nd thermocouple, free from the decoration material. |
| <p>IV. Representation of the flames and flue gas analysis:</p> <ol style="list-style-type: none">1. <input type="checkbox"/> The glass is cleaned on both sides (chapter 5, 8 and 9). <i>Please note! Avoid fingerprints on the glass, these are no longer removable once the fire is used!</i>2. <input type="checkbox"/> Let the fireplace burn for at least 20 minutes at highest setting and check the flame for (chapter 7.1):<ul style="list-style-type: none"><input type="checkbox"/> Flame distribution;<input type="checkbox"/> Colour of the flames.3. <input type="checkbox"/> Perform, when it's possible, a flue gas analysis (see chapter 7.2).4. <input type="checkbox"/> Close and check all the measuring nipples on leakage. |
| <p>V. Information and material for the customer:</p> <ol style="list-style-type: none">1. <input type="checkbox"/> Inform the customer personally about the correct use of:<ul style="list-style-type: none"><input type="checkbox"/> the appliance;<input type="checkbox"/> the remote control;<input type="checkbox"/> if present, the APP and it's settings;<input type="checkbox"/> the maintenance process.1. <input type="checkbox"/> Handover to the customer:<ul style="list-style-type: none"><input type="checkbox"/> the installation manual;<input type="checkbox"/> the user manual;<input type="checkbox"/> the decoration instruction card;<input type="checkbox"/> the suction cups;<input type="checkbox"/> the Faber glass polish sample. <p><i>Please note! Before leaving the customer, save your company data in the Faber APP (if present).</i></p> |
| <p>VI. Comments:</p> |

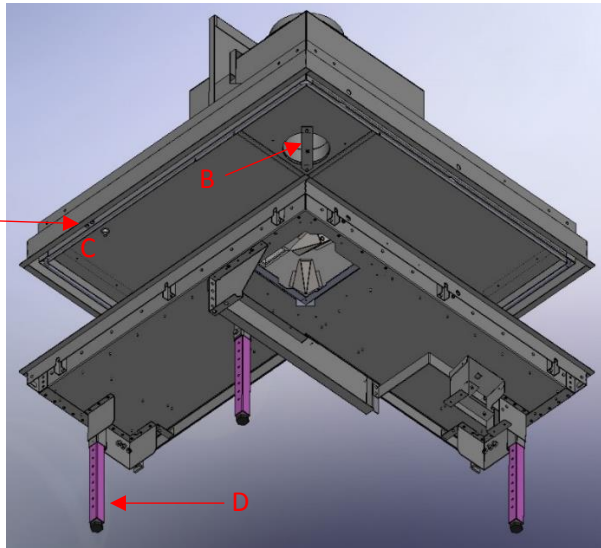
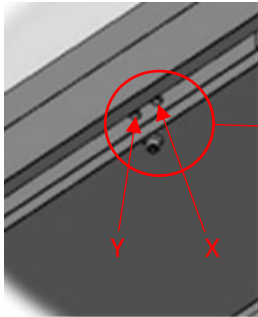
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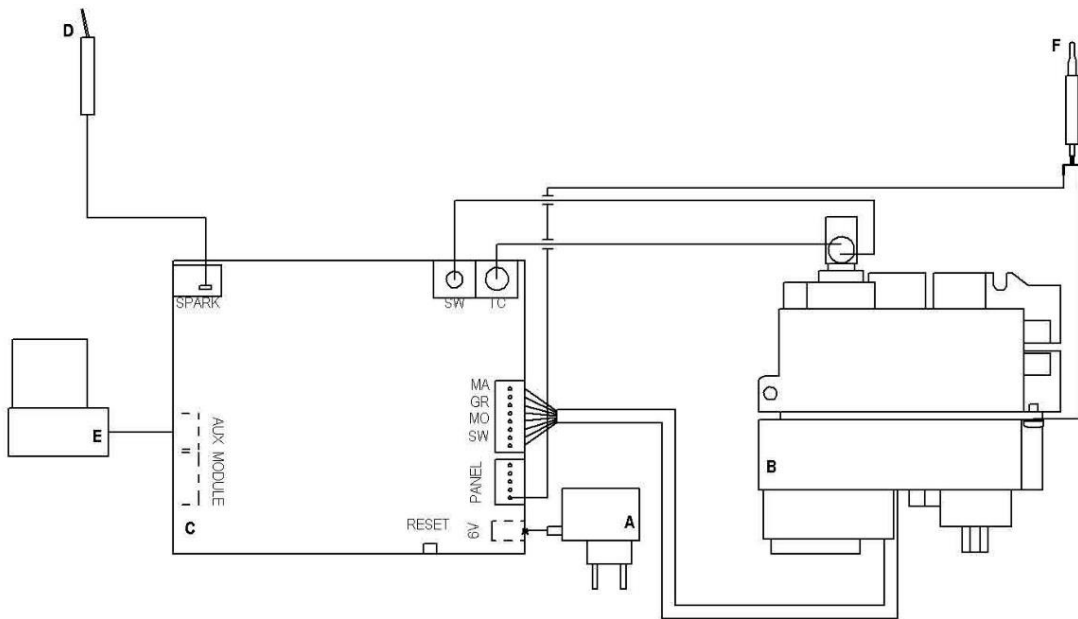
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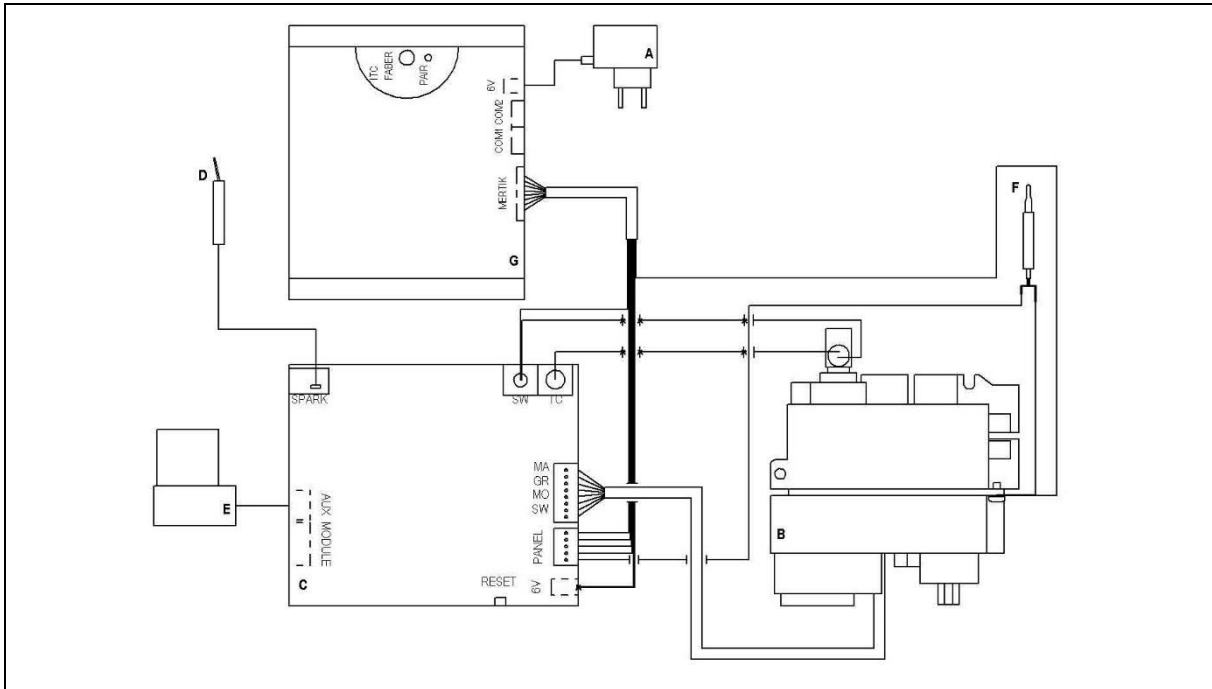
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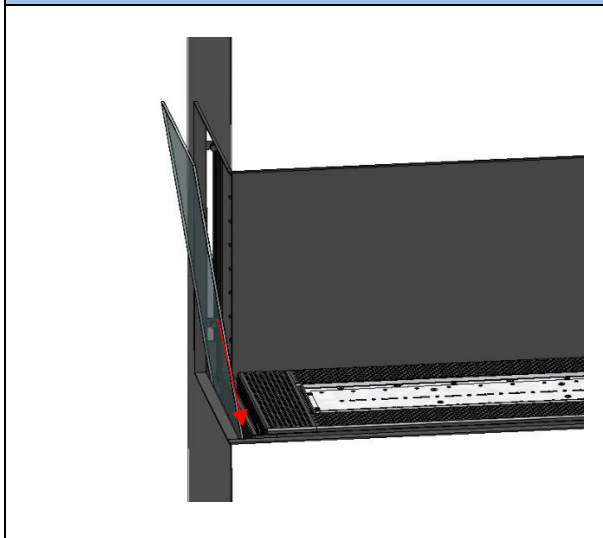
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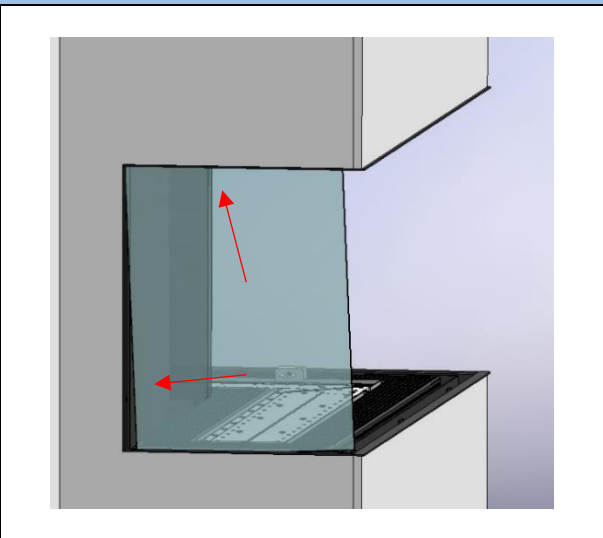
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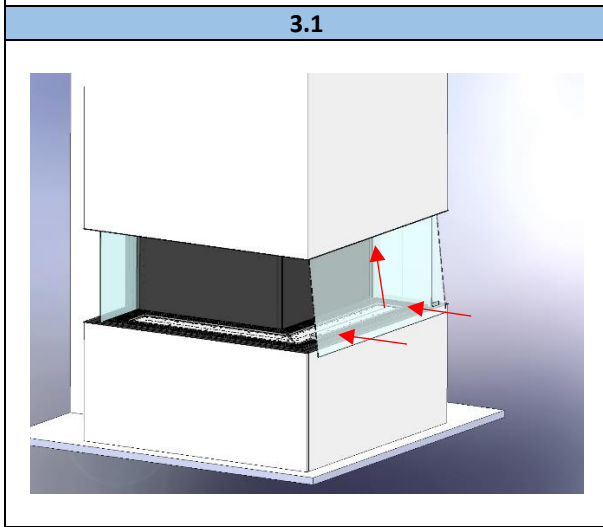
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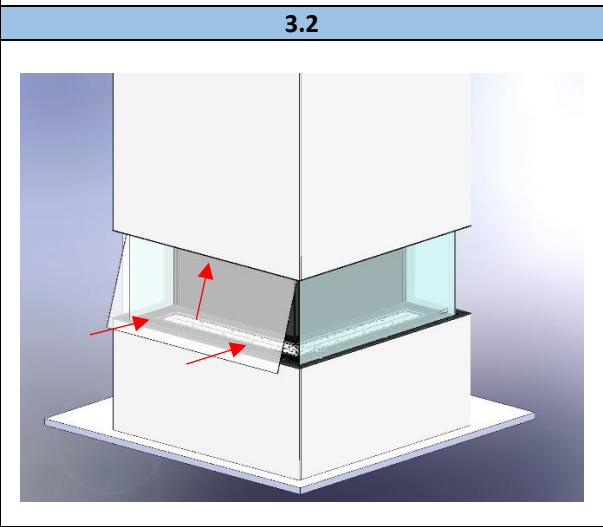
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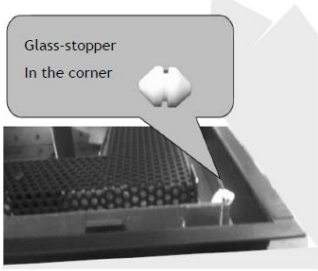


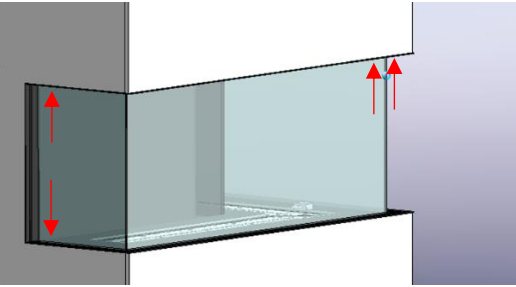
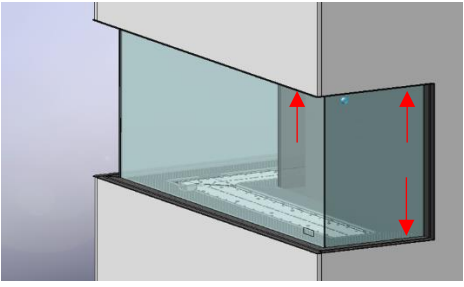
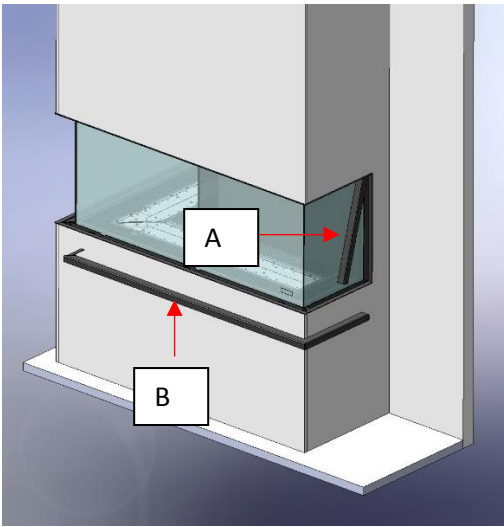
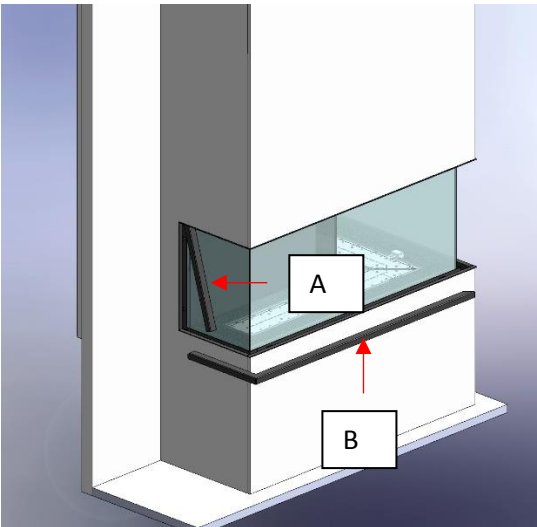


3.3



3.4



| | | |
|--|---|--|
|  <p>3.5</p> |  <p>3.6a</p> |  <p>3.6b</p> |
|  <p>3.6c</p> |  <p>3.6d</p> | |
|  <p>4.0</p> |  <p>4.0</p> | |





1 Dear user

Congratulations on your purchase of a Faber fire! A quality product from which you will experience warmth and atmosphere for many years. We recommend that you read this manual carefully before using the fireplace. If any problem arises despite our strict quality control, you can always contact your dealer or Glen Dimplex Benelux B.V.

For any warranty claims, it is essential you first register your fireplace. During this registration, you'll find all information regarding our warranty.

➤ Please note!

The details of your fireplace can be found in the user manual.

You can register your fire at: www.faberfires.com

Glen Dimplex Benelux B.V.

Address: Saturnus 8

NL-8448 CC

Heerenveen

Tel: +31 (0)513 656 500

Email: contact@faberfires.com

Info: www.faberfires.com

1.1 Introduction

Installation and maintenance of the appliance must be carried out by a professional with proven knowledge and competence. A professional takes into account all technical aspects such as heat radiation and gas connection as well as flue gas exhaust requirements.

Where the installation instructions are not clear, national/local regulations must be followed.

1.2 Check

Check the fireplace for transport damage and immediately report any damage to your supplier.

1.3 CE Declaration

We hereby declare that Glen Dimplex Benelux B.V. released Faber gas-atmosphere heating appliance by its design and construction method complies with the Regulation (EU): 2016/426 and (EU) 2015/1188.

Product: gas room heater

Model: Respect Premium OC

This declaration will become null and void as soon as the unit is in any way modified without written authorization of Glen Dimplex Benelux B.V.

2 Safety instructions

➤ Please note!

It is advisable to always install a screen for the fireplace if children, elderly or disabled people are present in the same room as the fireplace. **If regularly vulnerable persons can be present in the room without supervision, sufficient protection must always be placed around the fireplace.**

- This appliance must be installed according with the rules in force and used only in a sufficiently space.
- The appliance must be checked annually in accordance with this installation manual and the applicable national and local regulations.
- Ensure that the data on the type label matches the local gas type and pressure.
- The appliance is designed for atmosphere and heating purposes. This means that all visible surfaces, including the glass, can become hotter than 100°C. An exception by free standing models is the underside of the fireplace and the control buttons.
- Do not use the remote control and / or app outside the room where the fire is located. So that you are always aware of the situation around the fireplace when it is being operated.
- The settings and the construction of the fireplace must not be changed!
- Do not place extra imitation wood or other material on the burner or in the combustion chamber.
- Do not place any combustible materials within 0,5m of the radiation area of the fire.
- Through the natural air circulation of the fireplace moisture and uncured volatile components from paint, building materials and carpeted floors, etc. are attracted. These parts can settle as soot on cold surfaces. Therefore do not light the fireplace shortly after installation.

2.1 Using the fire for the first time

Provide extra ventilation and open all the windows of the room during the initial start-up of the fire. Let the fire burn at the highest setting for a few hours so that the paint gets the chance to harden and any released vapours are safely removed. Keep vulnerable people and pets out of this room during this process.



3 Installation requirements

3.1 Appliance

- This appliance may not be installed in a chlorine-containing environment. (Pools etc.).
- This appliance must be build into an existing or new false chimney.
- For appliances with flexible gas pipes, the control unit (fig. 1.2) is placed on the right side of the crate for transport reasons. Detach and mount it together with the remote access door in as low as possible position in the false chimney.
(To prevent damage to cables and pipes during transport, they are bound together by tie wraps. Remove these to ensure proper operation of the appliance.)

3.2 False chimney

- The false chimney should be of non-combustible material.
- The space above the fire should always be ventilated using grids with minimal free passage of 200cm² per grid.
- The false chimney construction should not rest on the build-in frame of the fireplace.

3.3 Discharge and outlet requirements

First, carry out a flue calculation (see chapter 11) and place the right flue restrictor before installing the outlet! (Generally a 30mm flue restrictor is installed).

- For supply and discharge always use the prescribed and to be supplied Faber flue materials. Please contact Glen Dimplex Benelux B.V.. Only with use of these materials Faber can guarantee proper performance.
- The distance to combustible materials must be min. 50mm, calculated from outside of the flue material (EN 1856-1 T600 N1 D Vm – L20040 O(50)).

Outlets (fig. 1.1)

The balanced flue pipe for combined air supply and discharge can use a wall terminal or a roof terminal. Verify that the desired outlet meets the local regulations regarding pollution and ventilation openings.

➤ Please note!

- For proper functioning, the outlet must at least be 0,5m away from:
- Corners of the building;
 - Roof overhangs and balconies;

- Roof edges (with the exception of the ridge edge, see chapter 15).

C11, outlet via facade

Through a wall or façade, use a Faber wall outlet. Depending on the flue calculation this can be 100/150mm or 130/200mm.

C31, outlet via roof

For a (flat) roof, use a Faber roof outlet with a diameter of 100/150mm.

C91, existing chimney

For an existing chimney, use a Faber chimney outlet with a diameter of 100/150mm. In this case the existing chimney acts as air inlet an inserted flexible stainless steel pipe discharges the flue gas. The top (Faber chimney cover plate) and the bottom (Faber chimney connection set) should be airtight.

Depending on the calculated flue diameter, you must use a flexible stainless steel pipe of Ø100mm (article number AJ005503) or Ø130mm (article number AJ005603) as specified by Faber. For this, contact Glen Dimplex Benelux B.V.

➤ Please note!

- The minimum chimney diameter for a 130mm flexible stainless steel pipe must be 200x200mm and for a 100mm flexible stainless steel pipe and 150x150mm.
- Don't connect more than one fire at the existing chimney.
- The chimney must be in good condition:
 - No leakage;
 - Well cleaned.

For more information about the connections to existing chimney ducts, please request the installation instructions "Chimney Connection Set".

4 Preparation and installation instructions

4.1 Gas connection

The gas connection must comply with the applicable local standards.

➤ Please note!

- Provide a flexible gas connection with at least 0,5m extra length, so that the control unit can be removed for installation and service!
- Calculate the gas pipe so that no pressure drop occurs.



We advise using a gas connection directly from the gas meter to the appliance, with a shut-off valve in the proximity of the appliance, which must always be freely accessible. Position the gas connection so that it is easily accessible for service and the burner unit can be disassembled at any time.

4.2 Electrical connection

Install a 230VAC/50Hz wall socket near the fireplace for connecting the control unit.

See fig. 2.0 for the wiring diagram:

- A= Adapter (6V)
- B = Gas valve
- C = Receiver
- D = Ignition pin
- E = Solenoid valve
- F = 2nd thermocouple

See fig. 2.1 for the wiring diagram with I.T.C (optional):

- A= Adapter (6V)
- B = Gas valve
- C = Receiver
- D = Ignition pin
- E = Solenoid valve
- F = 2nd thermocouple
- G = I.T.C. (Intelligent Technical Controller)

4.3 Smart Home installation

- **Please note**
This is only possible if the fire is equipped with I.T.C!

The controller can be connected to an external source, such as a Domotica system, by using a Faber Interface Unit (article number A9323000).

4.4 Preparing the fireplace

- Remove the fireplace from its packaging. Ensure that the gas supply pipes under the appliance are not damaged.
- Remove the glass and any mouldings, store them at a safe place and remove the packaged parts from the fireplace.
- Prepare the gas connection on the gas valve.

4.5 Transporting the fireplace

If necessary the upper parts of the appliance can be temporary be removed from the appliance. This gives the appliance a minimum height of 780mm. With the upper part removed, the appliance can be transported on its back (fig. 1.4).

- **Please note!**
The transport plate may only be removed after the fireplace has been fixed to the wall (see fig. 1.8).

4.6 Positioning the fireplace

Take into account the installation requirements (see chapter 3). Place the fireplace at the right place and level it (see fig. 1.9-D).

Rough height adjustment:

- With the adjustable legs.

Accurate height adjustment:

- With the adjustable feet.

- **Please note!**
 - It is important that the appliance is levelled, otherwise there is a chance that the glasses on the corners do not fit well together.
 - The appliance should always be fixed to the wall, by using the fixation brackets (see fig. 1.7).
 - The transport plate may only be removed after the fireplace has been fixed to the wall (see fig. 1.8).

Hanging on the wall

The fireplace can also be mounted on the wall by using the supplied wall brackets (see fig. 1.5).

- **Please note!**
 - Check the load-bearing capacity of the wall. The device weighs approximately 200kg.
 - The transport plate may only be removed after the fireplace has been fixed to the wall (see fig. 1.8).
 - Determine the height of the appliance and mount the wall brackets (see fig. 1.5).
 - Hang the appliance in the wall brackets.
 - Level the appliance with the set screws (see fig. 1.6).
 - Fix the appliance to the wall with the 4 mounting brackets (see fig. 1.7).
 - Perform a final check. Check if the appliance is aligned and levelled!
 - Remove the transport plate (see fig. 1.8).

Before proceeding with the installation, place all glasses in the appliance to check the squareness (see chapter 5). If the appliance is correctly installed, the glasses will fit well together.



4.7 Installing the flue pipes

Install the flue pipes according to the installation manual supplied with the appliance (40011968)!

- The distance to combustible materials must be min. 50mm, calculated from the outside of the flue pipe.
- Never start immediately with length-adjustable concentric flue pipe on the appliance.
- Horizontal sections should be installed to allow a slope towards the appliance (3 degrees).
- Build the system from the appliance. If this is not possible you can make use of an extendable adapter section.
- For fitting of the flue system, the 0,5m length-adjustable pipe must be used. Make sure that the inner pipe is always 15mm longer than the outer pipe. Wall- and roof terminal can also be cut. These components must be secured with a self-tapping screw.

4.8 Constructing the false chimney

Before positioning the false chimney, we advise to perform a functional test with the fireplace as defined in chapter 7 “Checking the installation”.

False chimney

- Construct the false chimney of non-combustible material in combination with metal profiles or of masonry/concrete blocks.
- Always use a lintel or reinforcing bars while bricking the false chimney. They should not be placed directly on the fireplace.
- Make sure that the fireplace never functions as a load-bearing construction, because of the expansion of the fireplace through warmth.

Ventilation

Correct ventilation prevents damaging overheating of the gas control block and its electronics and also limits the temperature of the convection air. Use the (optional) supplied Faber ventilation grids (article number A9296400) or a similar alternative with a minimum free passage of 200cm² per grid, in the space above the fire, when building the false chimney. Within the false chimney, an horizontal screen plate, made of non-combustible material, must be installed just above the ventilation openings. (see fig. 1.0-A).

5 Installing glass

- **Please note!**
Before installing the front glasses, install the side glasses first!

5.1 Side glasses

For cleaning only it's not necessary to remove the side glass.

- Place a suction cup on the side glass.
- Lower the side glass into the space behind the build-in frame (fig. 3.1).
- Hold the glass tilted at an angle and insert the glass into the upper glass groove (fig. 3.2).
- Now lower the side glass into the lower glass groove.

For removing the glass repeat the steps in reverse order.

- **Please note!**
Avoid fingerprints on the glass, these are no longer removable once the fire is used.

5.2 Front glasses

- **Please note!**
 - First install the side glasses (see chapter 5.1).
 - First install the right front glass (with Faber logo).
 - The white stopper in the glass groove on the right corner holds the right front glass in place (see fig. 3.5).

Front glass right (with Faber logo):

- Place the suction cups on the front glass.
- Insert the front glass into the upper glass groove and lower the glass into the lower glass groove (see fig. 3.3).

Front glass left:

- Place the suction cups on the front glass.
- Insert the front glass into the upper glass groove and lower the glass into the lower glass groove (see fig. 3.4).
- Check whether all the glasses at the corners are properly aligned.

For removing the glass repeat the steps in reverse order.

- **Please note!**
Avoid fingerprints on the glass, these are no longer removable once the fire is used.



5.3 Placing the sealing cord

- Start on the right-hand side in the upper right-hand corner and push the sealing cord into the glass clips (see fig. 3.6a) at the points indicated in the glass grooves (see fig. 3.6b to 3.6d).
- Place the vertical cover strips (fig. 4.0-A).
- Place the horizontal cover strips (fig. 4.0-B).

➤ **Please note!**

Avoid fingerprints on the glass, these are no longer removable once the fire is used.

6 Placing decoration material

➤ **Please note!**

- It is not permitted to use other or to add more material in the combustion chamber.
- Do not throw the decoration material on the burner at once. It is possible that the burner gets clogged.

6.1 Log set

See the supplied decoration instruction card or chapter 18.1:

- Divide part of the ash material on the burner and the bottom.
- Place the log set.
- Divide the rest of the ash material over the burner and the bottom. Avoid a double layer, this has a negative effect on the fire.

➤ **Please note!**

Keep the pilot flame and 2nd thermocouple free from ash material!

Glow fiber

Glow fiber gives a decorative glow effect. Pull the glow fiber apart and spread it between the logs on the burner.

➤ **Please note!**

Keep the pilot flame and 2nd thermocouple free from glow fiber!

- Start the fireplace as described in the user manual.
- Assess whether the flame distribution is good. Move or remove any ash material to create a nice glow bed.
- Install the front glasses and check the fire image.

6.2 Pebbles / Grey stones

See the supplied decoration instruction card or chapter 18.2 or 18.3:

Divide the pebbles / grey stones over the entire bottom. Avoid a double layer!

➤ **Please note!**

Keep the pilot flame and 2nd thermocouple free from pebbles / grey stones!

- Start the fireplace as described in the user manual.
- Assess whether the flame distribution is good. Move or remove any pebbles / grey stones.
- Install the front glasses and check the fire image.

7 Checking the installation

Checking for gas leaks

Check with a gas leak finder all connections and pipes for gas leakage.

Check primary- and burner pressure

Check if the primary pressure correspond to the data on the rating plate.

Measuring the primary pressure:

- Close the shutoff valve. Turn the measuring nipple "A" (fig. 1.3) a few turns to open and connect a measuring hose to the gas valve.
- Take this measurement when the fireplace runs at high and low settings.
- Do not use the device if the pressure deviates (+20% and -20%).

Measuring the burner pressure:

Check the burner pressure only with proper primary pressure.

- Turn measuring nipple "B" (see fig. 1.3) a few turns open and connect a measuring hose to the gas valve.
- The pressure must correspond to the value indicated in the technical specifications of this manual. In case of deviation contact the manufacturer.

➤ **Please note!**

Close both pressure measuring nipples and check for gas leakage.



Check ignition and burner

Ignite the fireplace by using the remote control as described in the user manual and test all burner possibilities.

7.1 Checking the flame image

Let the fireplace burn for at least 20 minutes at highest setting and check the flame for:

- flame distribution;
- colour of the flames.

If one or both points are not acceptable then check:

- The position of the logs and/or the amount of ash material or the layer thickness of the pebbles / grey stones.
- The pipe connections for leaks. (in case of blue flames);
- That the correct flue restrictor is fitted (see fig. 1.9-B);
- The outlet:
 - Wall terminal has the correct position and side up;
 - Roof terminal has the correct position.
- If the maximum lengths of the flue gas outlet is not exceeded.
- If possible, carry out a flue gas analysis (see section 7.2).

7.2 Flue gas analysis

It is possible to check the combustion gases and supply air with a CO/CO₂ flue gas analyser. There are two measuring pipes between the build-in frame and the front glass (fig. 1.9-C).

X = measuring pipe air supply
Y = measuring pipe flue gas

The ratio CO₂ and CO must not be greater than 1:100.

Example:

CO₂ is 4% and CO is 400ppm, measured at the highest point.

If the ratio is greater than 1:100 or flue gases are measured in the air supply, check the points in section 7.1.

8 Instructions for client

- Recommend that the fire should be checked annually by a qualified specialist to ensure the safe use and to guarantee a long service life.
- Provide instructions on the operation of:
 - the appliance;
 - the remote control;
 - if present, the App and its settings.
- Give advice and instructions on care and cleaning of the glass:



- Emphasize the danger of fingerprint burns at the glass.
- Handover to customer:
 - installation manual;
 - user manual;
 - decoration instruction card;
 - suction cups;
 - sample Faber glass polish.

9 Annual maintenance

Check

Check and clean if necessary:

- the combustion chamber;
- the burner
- the pilot flame;
- the wooden logs for breakage;
- the glass(es);
- the outlet.

Replace ash material if necessary.

Cleaning

Remove the front glass (see chapter 5).

You can clean the glass with Faber glass polish.

This is a specially formulated cleaning agent that can be ordered at authorized Faber dealers.

Never use aggressive cleaning agents or abrasive products.

➤ Please note!

Avoid fingerprints on the glass; these are no longer removable once the fire is used.

Now carry out check-up as described in chapter 7.

For an extensive maintenance instruction "maintenance protocol gas fires" see:



10 Conversion to other gas type

This can only be done by replacing the burner. To do so, please contact your dealer. Always provide the type and serial number of the appliance when ordering.

11 Flue calculation

A simple way to calculate whether the exhaust configuration is possible in combination with your fireplace, use the "Faber Flue App V2":



This is available free of charge and can be downloaded via:

Internet:

Android and PC (Windows Store, (Windows 10)).

App Store:

iPhone, iPad and Mac.

Google Play:

Android smart phones and Android tablets.

Alternatively, you can use the calculation sheet (see chapter 13).

The options for flue lengths and any flue restrictors are defined in a restrictor table, see 11.1 till 11.2. Start Length (STL), Total Vertical Height (TVH) and Total Horizontal Length (THL) are used in the table.

- **Start length (STL):**
The first part that is placed on the fireplace and represents a certain value (fig. 12.1, 12.2 and 12.3 A, N and F). You can find this value in the upper row of the restrictor table.
- **Total Vertical Height (TVH):**
TVH is the height difference measured from the top of the appliance to the outlet. This can be measured or determined in the building plan. For clarification, see also the TVH indication in the drawings (fig. 12.1, 12.2 and 12.3).

- **Total Horizontal Length (THL):**
THL is the Total Horizontal Length and consists of elbows and pipes entirely in the horizontal plane. See elbows I, K and Q and the elements H, J, L, M, P and R (fig. 12.1 and 12.2).
- **Horizontal length:**
The Horizontal Length consists of the elements H, J, L, M, P and R (fig. 12.1 and 12.2).
- **Elbows 90° in the horizontal plane:**
Horizontal elbows are elbows entirely in the horizontal plane (fig. 12.1, 12.2 and 12.3 I, K and Q).
- **Elbows 45° or 30° in the horizontal plane.**
Horizontal elbows are elbows entirely in the horizontal plane.
- **Elbows 90° vertical to horizontal:**
These are 90° elbows, which proceed from horizontal to vertical (fig. 12.2 and 12.3 G, O and S).
- **Elbows 45° or 30° vertical to horizontal plane:**
These are 30° or 45° elbows vertically offset less than 45° (fig. 12.1 B and D).
- **Pipes at an angle of inclination:**
These are pipes vertically ascending at an angle of 30° or 45° (fig. 12.1 C). Fill in only in combination with at least two 30° or 45° elbows in the vertical part.
- **Restrictor table:**
See restrictor table for the correct vertical (TVH) and horizontal length (THL).

In case of an "X" or if the values are outside the restrictor table, the combination is not permitted. Then adjust TVH or THL.

If a value is indicated, check that the calculated STL value is not lower than indicated in the restrictor table. In this case STL must be adjusted.

The value found indicates the width of the flue restrictor to be placed ("0" means no flue restrictor). Generally a 30mm flue restrictor is installed (fig. 1.9-B).

11.1 Restrictor table (100/150) Respect Premium OC

Start length (STL) Vertical (TVH) and Horizontal (THL)

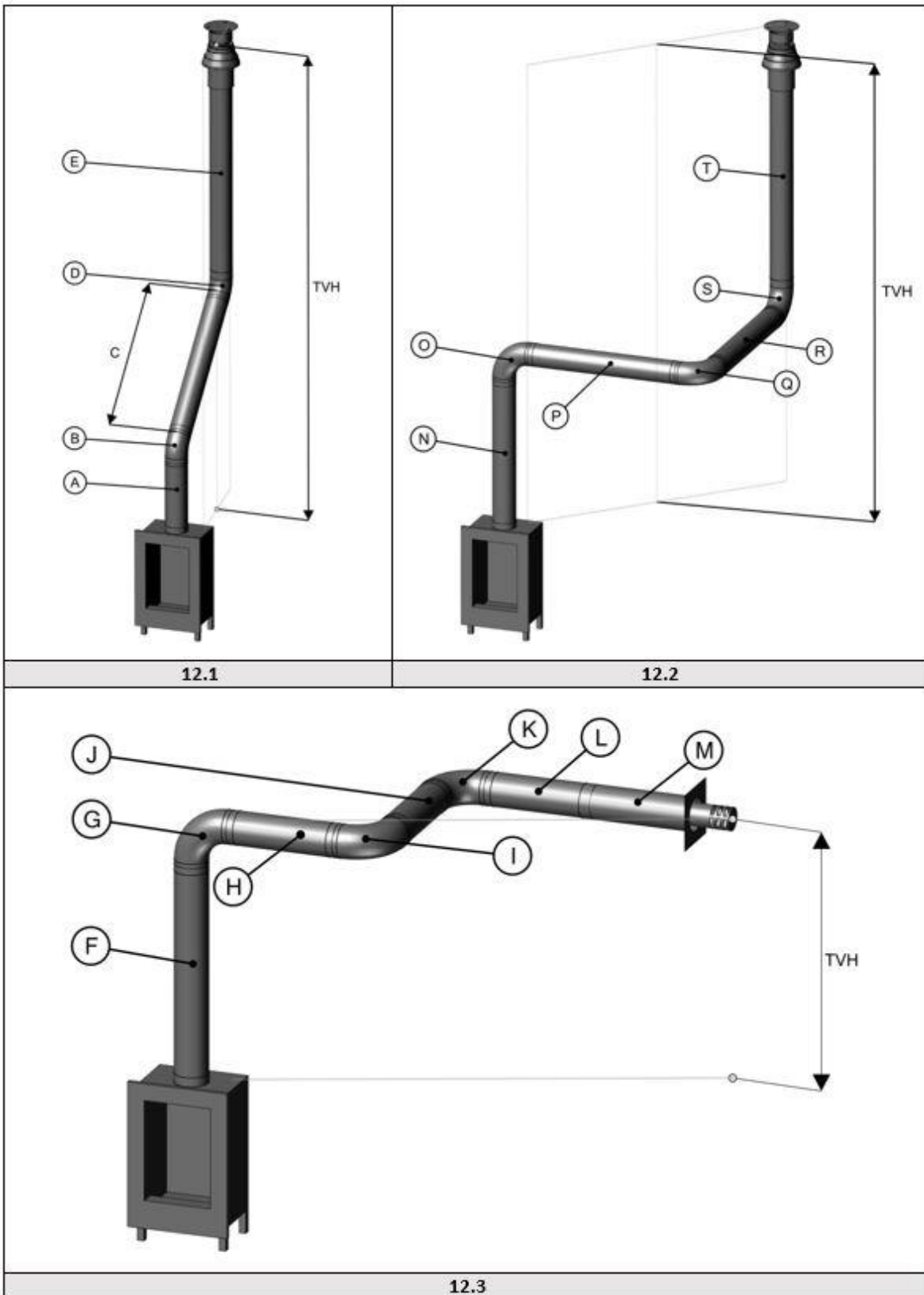
| STL | 0,1 | 0,1 | 0,2 | 0,5 | 0,5 | 0,5 | 0,5 | | | | |
|-----|-------|-------|-----|-----|-----|-----|-----|---|---|---|----|
| THL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| TVH | 0 | x | x | x | x | x | x | x | x | x | x |
| | 0,5 | x | x | x | x | x | x | x | x | x | x |
| | 1 | x | x | x | x | x | x | x | x | x | x |
| | 1,5 | 0.20 | x | x | x | x | x | x | x | x | x |
| | 2 | 30.20 | x | x | x | x | x | x | x | x | x |
| | 3 | 30.20 | x | x | x | x | x | x | x | x | x |
| | 4 | 40.20 | x | x | x | x | x | x | x | x | x |
| | 5 | 40.20 | x | x | x | x | x | x | x | x | x |
| | 6 | 50.20 | x | x | x | x | x | x | x | x | x |
| | 7 | 50.20 | x | x | x | x | x | x | x | x | x |
| | 8 | 60.20 | x | x | x | x | x | x | x | x | x |
| | 9 | 60.20 | x | x | x | x | x | x | x | x | x |
| | 10 | 60.20 | x | x | x | x | x | x | x | x | x |
| | 11 | 70.20 | x | x | x | x | x | x | x | x | x |
| | 12 | 70.20 | x | x | x | x | x | x | x | x | x |
| | 13 | 70.20 | x | x | x | x | x | x | x | x | x |
| | 14 | 70.20 | x | x | x | x | x | x | x | x | x |
| | 15 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 16 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 17 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 18 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 19 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 20 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 21 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 22 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 23 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 24 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 25 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 26 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 27 | 80.20 | x | x | x | x | x | x | x | x | x |
| | 28 | 80.20 | x | x | x | x | x | x | x | x | x |
| 29 | 80.20 | x | x | x | x | x | x | x | x | x | |
| 30 | 80.20 | x | x | x | x | x | x | x | x | x | |

11.2 Restrictor table (130/200) Respect Premium OC

Start length (STL) Vertical (TVH) and Horizontal (THL)

| STL | 0,1 | 0,2 | 0,5 | 0,5 | 1 | 1 | 1 | 1 | 1 | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| THL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| TVH | 0 | x | x | x | x | x | x | x | x | x | x |
| | 0,5 | x | 30.40 | x | x | x | x | x | x | x | x |
| | 1 | 30.40 | 40.40 | 30.40 | 0.40 | 0.40 | x | x | x | x | x |
| | 1,5 | 40.40 | 50.40 | 40.40 | 30.40 | 0.40 | 0.40 | 0.40 | x | x | x |
| | 2 | 50.40 | 60.40 | 50.40 | 40.40 | 30.40 | 0.40 | 0.40 | 0.40 | x | x |
| | 3 | 60.40 | 65.40 | 60.40 | 50.40 | 40.40 | 30.40 | 0.40 | 0.40 | 0.40 | x |
| | 4 | 65.40 | 70.40 | 65.40 | 60.40 | 50.40 | 40.40 | 30.40 | 0.40 | 0.40 | x |
| | 5 | 70.40 | 70.40 | 70.40 | 65.40 | 60.40 | 50.40 | 40.40 | 30.40 | 0.40 | x |
| | 6 | 70.40 | 70.40 | 70.40 | 70.40 | 65.40 | 60.40 | 50.40 | 40.40 | 30.40 | x |
| | 7 | 70.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | 60.40 | 50.40 | 40.40 | x |
| | 8 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | 60.40 | 50.40 | x |
| | 9 | 80.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | 60.40 | x |
| | 10 | 80.40 | 80.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 11 | 80.40 | 80.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 12 | 80.40 | 80.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 13 | 85.40 | 80.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 14 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 15 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 16 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 17 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 18 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 19 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 20 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 21 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 22 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | 65.40 | x |
| | 23 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | 70.40 | x | x |
| | 24 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | 70.40 | x | x | x |
| | 25 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | 70.40 | x | x | x | x |
| | 26 | 85.40 | 85.40 | 80.40 | 80.40 | 80.40 | x | x | x | x | x |
| | 27 | 85.40 | 85.40 | 80.40 | 80.40 | x | x | x | x | x | x |
| | 28 | 85.40 | 85.40 | 80.40 | x | x | x | x | x | x | x |
| 29 | 85.40 | 85.40 | x | x | x | x | x | x | x | x | |
| 30 | 85.40 | x | x | x | x | x | x | x | x | x | |

12 Examples flue materials



13 Calculation sheet

| Starter length (STL) | | | | |
|------------------------------------|--------|-------|---------------|---------------|
| First part on top of the appliance | | Value | | |
| Flue length from 0,1m till 0,45m | | 0,2 | | |
| Flue length from 0,5m till 0,90m | | 0,5 | | |
| Flue length from 1m till 1,4m | | 1 | | |
| Flue length from 1,5m till 2m | | 1,5 | | |
| Flue length 2m or more | | 2 | | |
| Bend 90° | | 0,1 | | |
| Bend 45°, 30° or 15° | | 0,2 | | |
| Roof terminal | | 1 | | |
| Wall terminal | | 0 | | |
| | | | | Value |
| | | | | |
| Total Vertical Height (TVH) | | | | |
| measured height | | | rounded value | |
| meter | | | meter | |
| Total Horizontal Length (THL) | | | | |
| Calculation | | | | |
| Part | number | x | value | result |
| Total Length in meters | | x | 1 | |
| 90° Bend, vertical to horizontal | | x | 0,4 | |
| 45° Bend, vertical to horizontal | | x | 0,2 | |
| 90° Bend in horizontal direction | | x | 1,5 | |
| 45° Bend in horizontal direction | | x | 1 | |
| flue pipes at an angle in meters | | x | 0,7 | |
| | | | | rounded value |
| Total | | | |+ |
| | | | | meter |

| | | |
|---|-----|--------------------------|
| Search in the table at TVH and THL and enter the value that is found. | | found value |
| | | |
| If the detected value is a number, check whether the completed STL is higher or equal to the value in the table. | | |
| Is the STL value lower as specified in the table then the installation is not possible. Solution: Start length to low, see for the minimum length in the top row of the table. | | |
| Is the found value X, then the installation is not possible. Solution: Change the TVH or THL. | | |
| Results | | |
| Restrictor size = Value for the comma | | mm |
| Extra information = Value behind the comma | | mark |
| Install the air restrictor plate, see installation manual | 0,1 | <input type="checkbox"/> |
| Install adapter 100/150 direct on top of the fire | 0,2 | <input type="checkbox"/> |
| In case of wall terminal, install adapter 100/150 before the last bend, in case of roof terminal just before the terminal. | 0,3 | <input type="checkbox"/> |
| In case of roof terminal (always size 100/150) install the 100/150 adapter just before the terminal. Wall terminal 130/200 | 0,4 | <input type="checkbox"/> |
| From the fire first an adjuster to 130/200 and 1 meter 130/200, after that reduce to 100/150 and everything 100/150. | 0,5 | <input type="checkbox"/> |

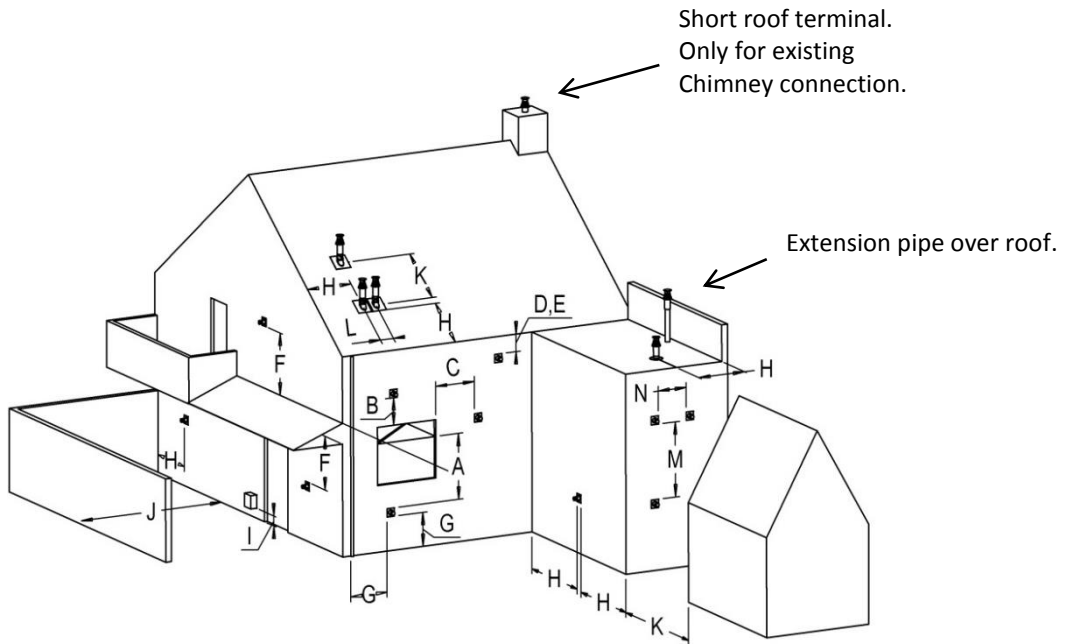
14 Technical data

| Technical data | | | | | | |
|--|----------------------|---|--------|--------|-----|-------------------------------|
| Type indication(s) | Respect Premium OC | | | | | |
| Type appliance | C11/C31/C91 | | | | | |
| Diameter outlet/inlet | 130/200 | | | | | |
| Gas connection | 3/8" | | | | | |
| Indirect heating functionality | no | | | | | |
| Category | II2H3+ | | | | | |
| | Symbol | | | | | Unit |
| Reference gas/inlet pressure | | G20-20 | G30-30 | G31-37 | | mbar |
| Emissions in space heating | NOx | 59 | 75 | 75 | | mg/kWh _{input} (GVC) |
| Direct heating output | | | | | | |
| Nominal heat output | P _{nom} | 10,8 | 10,6 | 10,0 | | kW |
| Minimum heat output (indicative) | P _{min} | 4,4 | 4,3 | 4,1 | | kW |
| Useful efficiency (NCV) | | | | | | |
| At nominal heat output | η _{th, nom} | 76,0 | 76,0 | 76,0 | | % |
| At minimum heat output (indicative) | η _{th, min} | 69,0 | 69,0 | 69,0 | | % |
| Appliance input data | | | | | | |
| Input | Hi | 14,2 | 13,9 | 13,1 | | kW |
| Gas rate at full mark | | 1,48 | 0,424 | 0,524 | | m ³ /h |
| | | | 1,07 | 0,98 | | kg/h |
| Burner pressure at full mark | | 10 | 23 | 28,4 | | mbar |
| Power requirement for permanent pilot light | | | | | | |
| Power requirement for permanent pilot light (if applicable) | P _{pilot} | 0,15 | 0,15 | 0,15 | | kW |
| Additional electricity consumption | | | | | | |
| At nominal heat output | el _{max} | 0 | 0 | 0 | | kW |
| At minimum heat output | el _{min} | 0 | 0 | 0 | | kW |
| In standby mode | el _{sb} | 0 | 0 | 0 | | kW |
| Energy-efficiency | | | | | | |
| Energy-efficiency class | | D | D | D | | |
| Energy-efficiency index | EEl | 73 | 73 | 73 | | |
| Type heating output/control room temperature | | Other control options | | | | |
| One step heat output, no control of room temperature | no | Control of room temperature, with presence detection | | | no | |
| Two or more manually adjustable stages, no control of room temperature | no | | | | | |
| With mechanical control of the room temperature by thermostat | no | Control of room temperature, with open window detection | | | no | |
| With electronic control of the room temperature | no | | | | | |
| With electronic control of the room temperature plus day-time switch | no | With optional remote control | | | yes | |
| With electronic control of the room temperature plus week-time switch | yes | | | | | |
| Glen Dimplex Benelux Saturnus 8 Heerenveen The Netherlands | | | | | | |

15 Outlet position

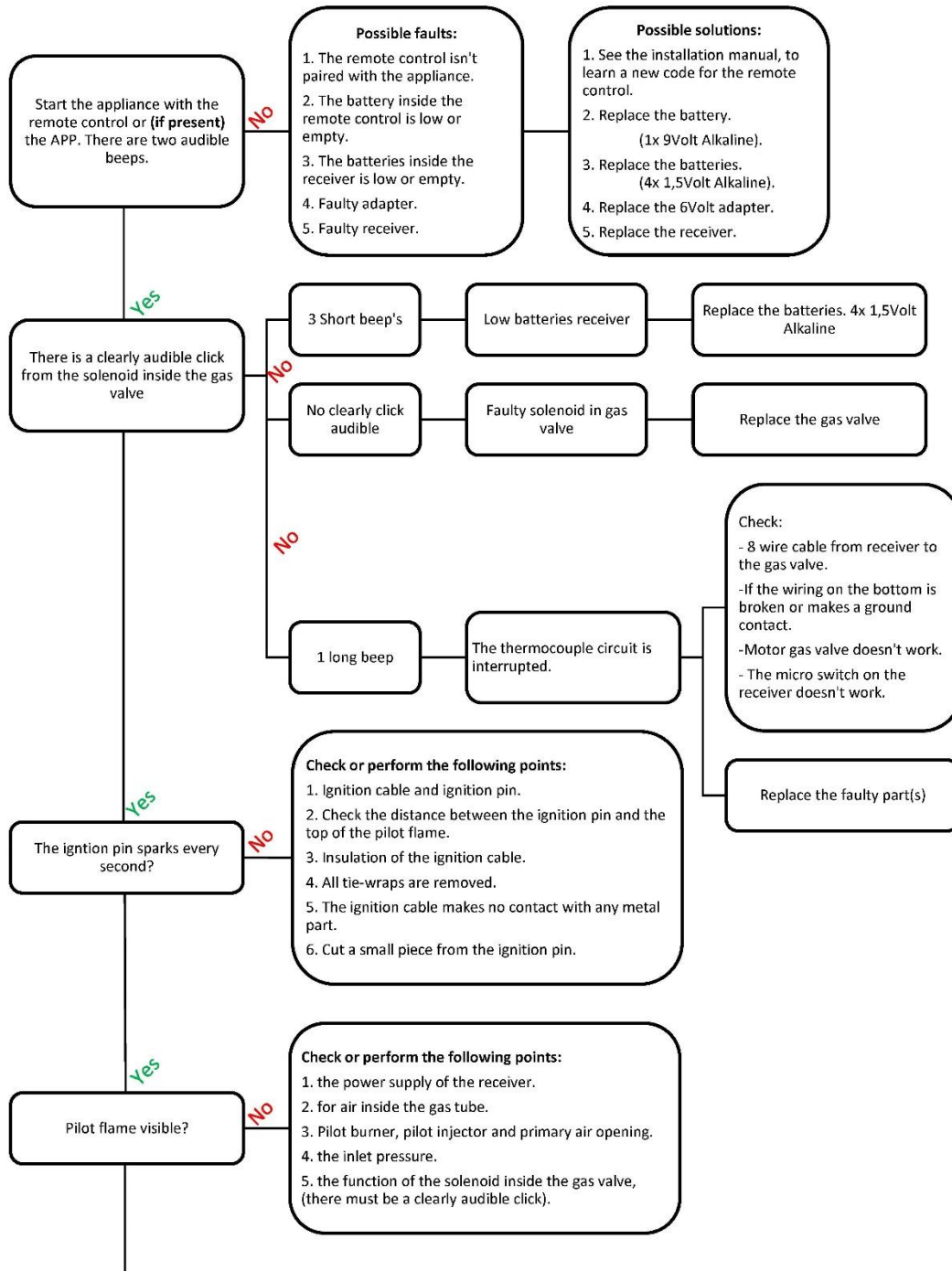
➤ **Please note!**

These rules apply only for the proper functioning of the unit, for ventilation and environmental protection you need to comply with the applicable rules as defined in the building regulations.

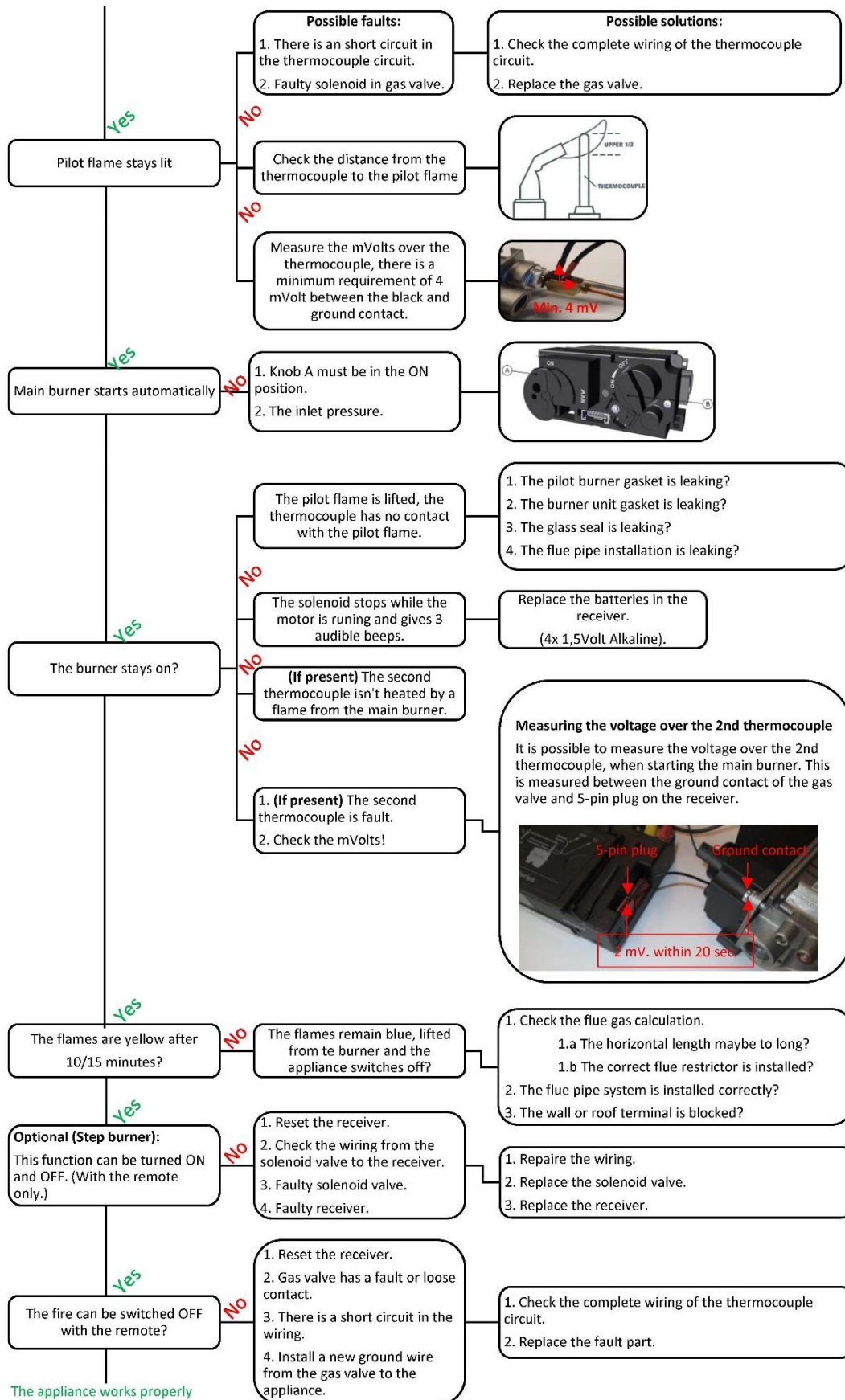


| Location | Position outlet | Distance mm |
|----------|---|-------------|
| D | Under a gutter | 500 |
| E | Under a roof edge | 500 |
| F | Under a carport or balcony | 500 |
| G | Vertical downpipe | 300 |
| H | Inside and outside corners | 500 |
| J | From wall surface to a wall outlet | 1000 |
| K | Two gable outlets against over each other | 1000 |
| L | Distance between two roof outlets | 450 |
| M | Two roof outlets above each other on a pitched roof | 1000 |
| N | Two gable outlets next to each other | 1000 |

16 Troubleshooting guide

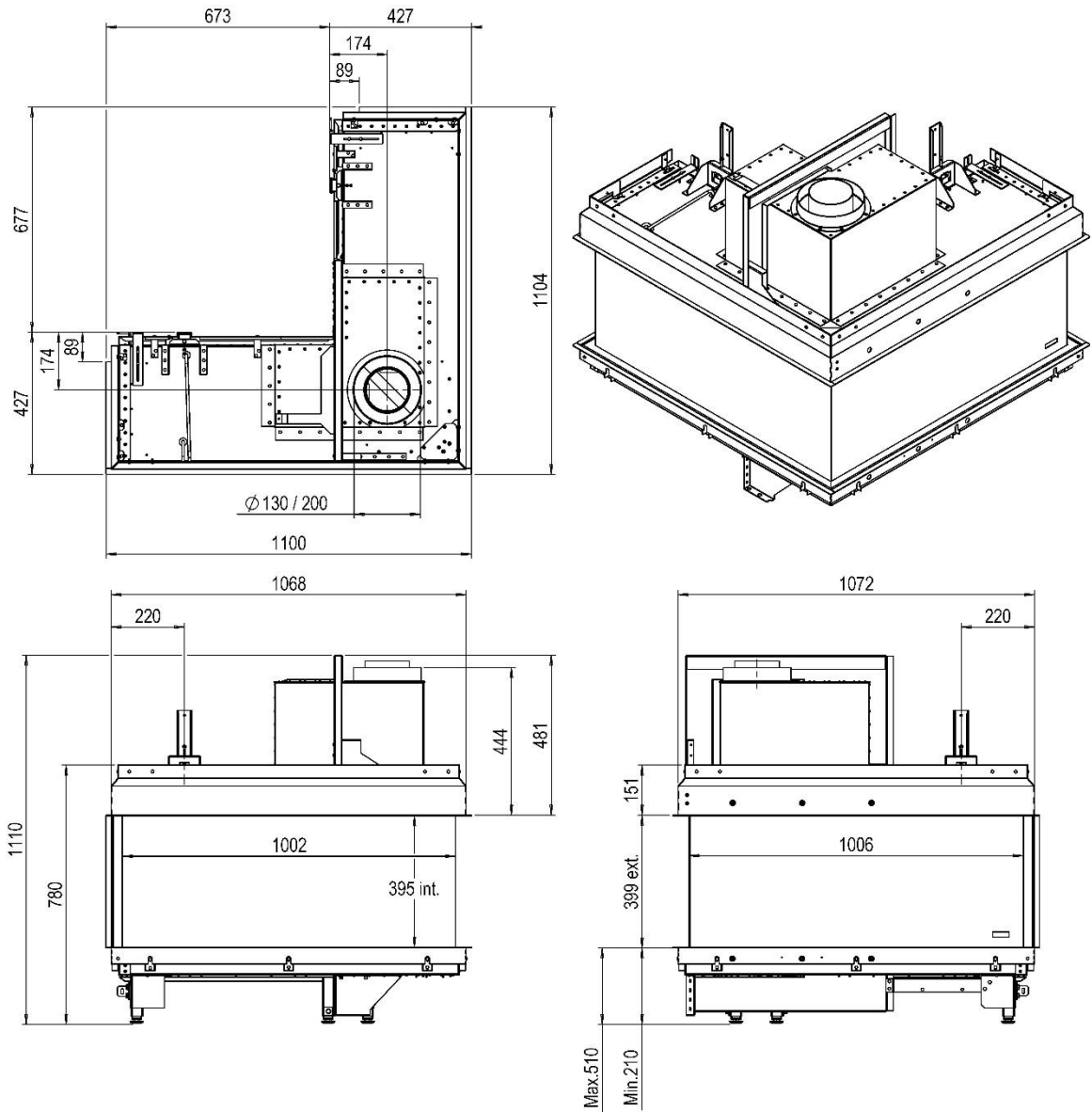


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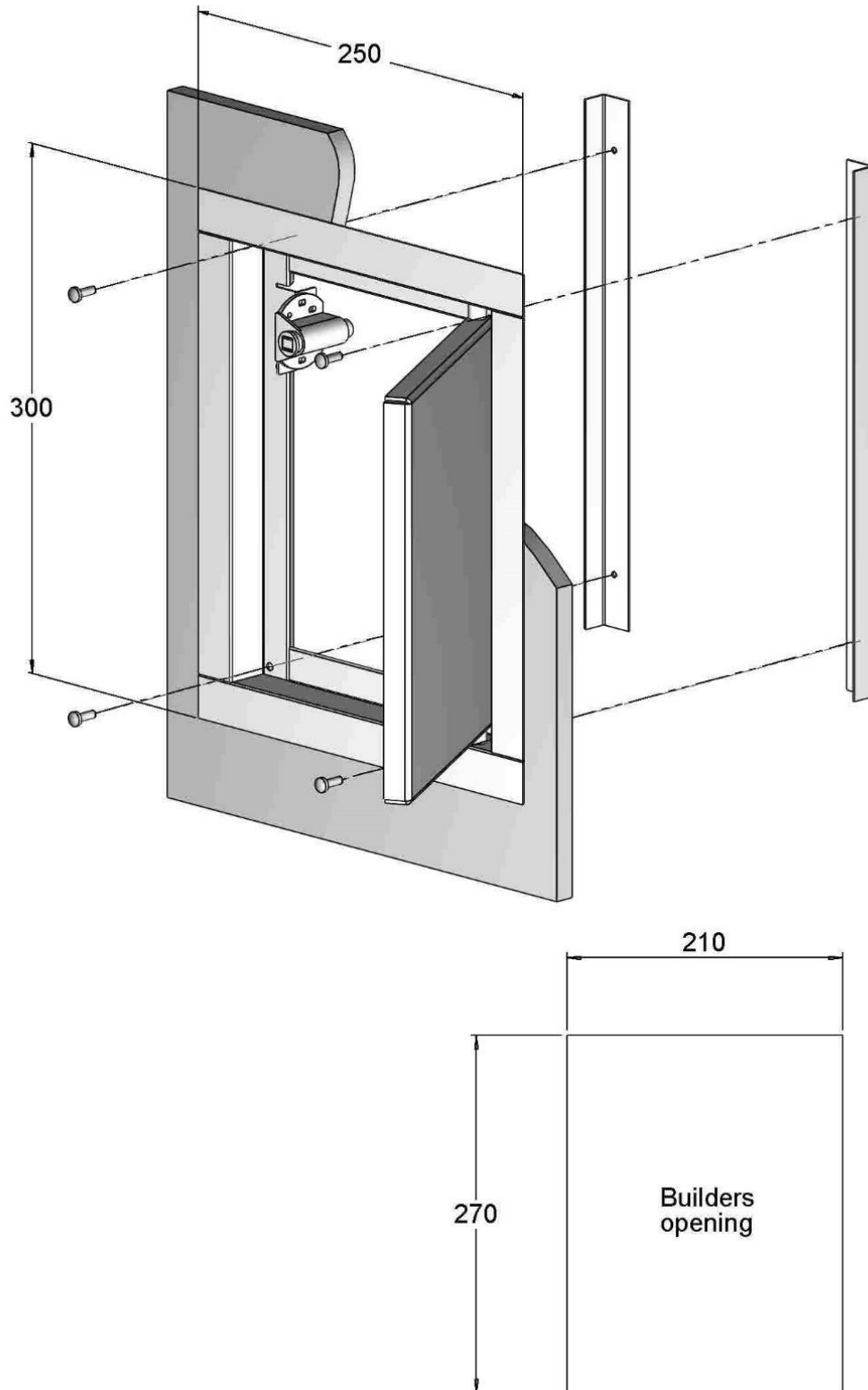


17 Dimensional drawings

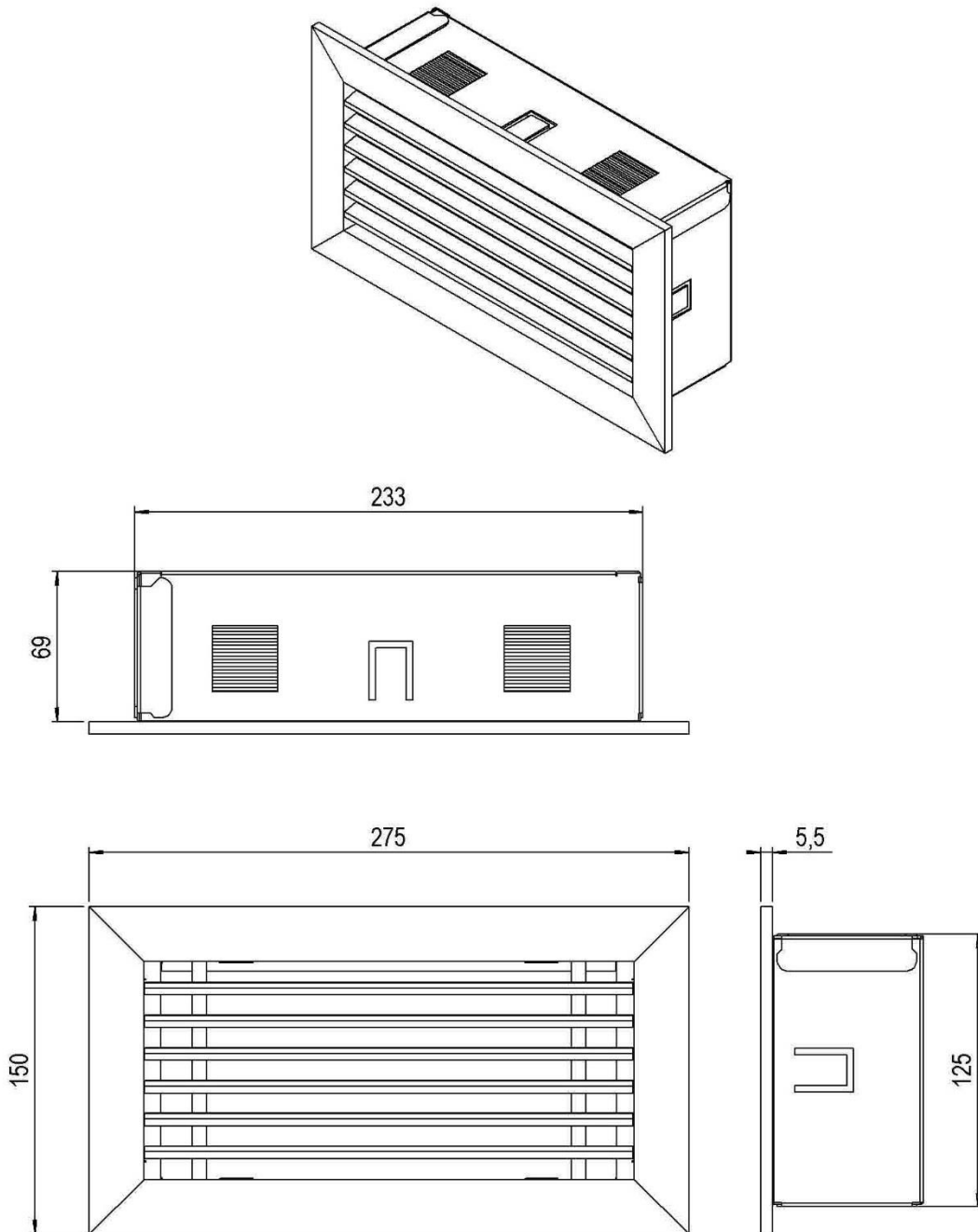
17.1 Respect Premium OC



17.2 Remote access door (article number A9299463)

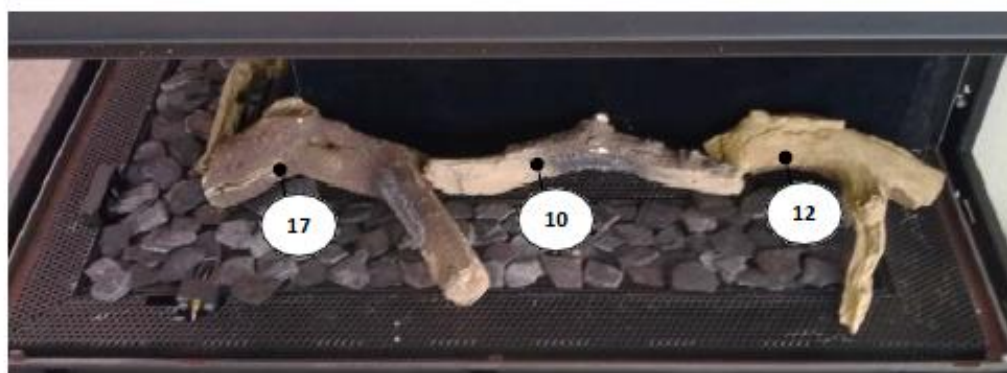


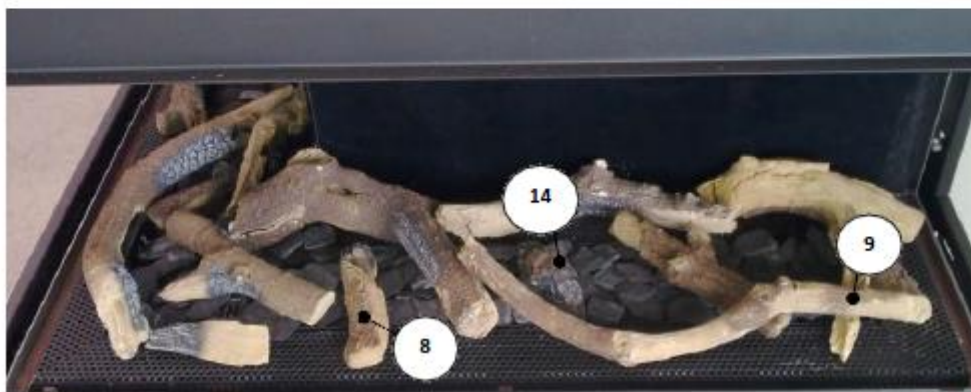
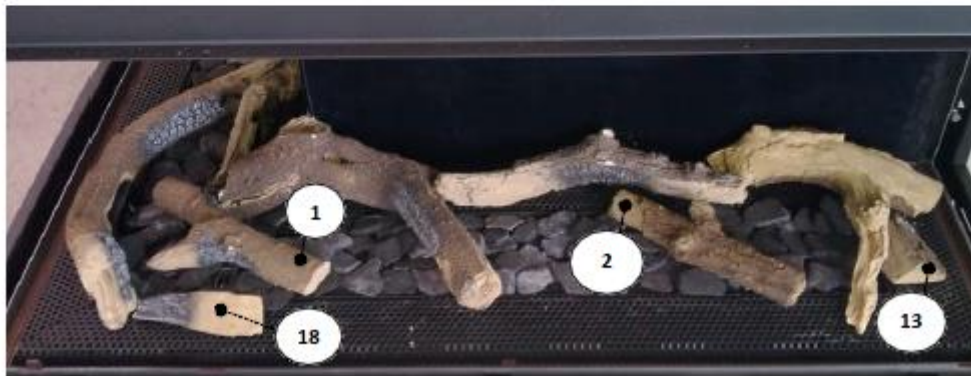
17.3 Ventilation grid (article number A9296400)



18 Decoration instruction card

18.1 Log set





18.2 Pebbles



18.3 Grey stones





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NL 8448 CC Heerenveen

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