

Installation manual

MatriX 800/500 RD

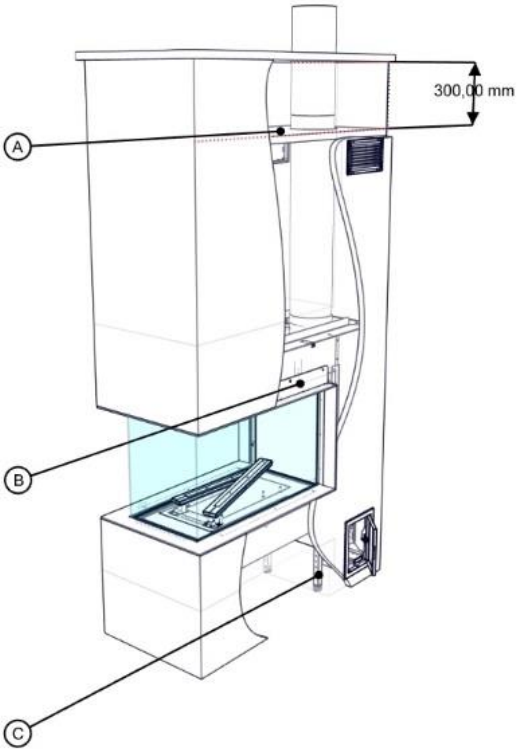
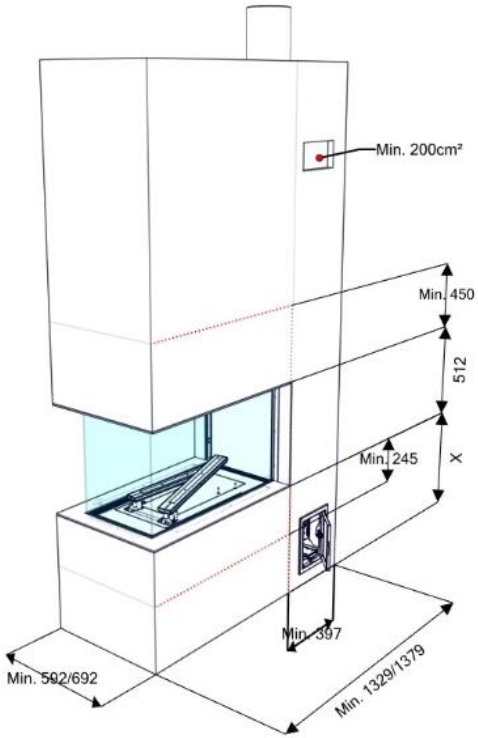
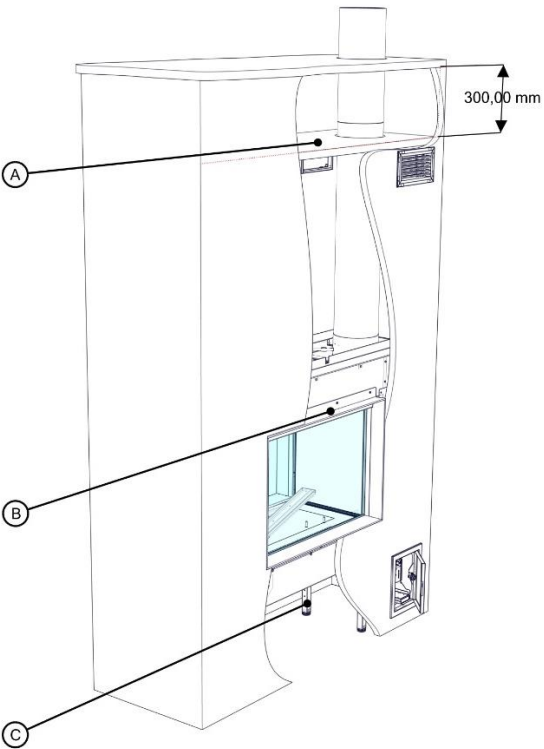
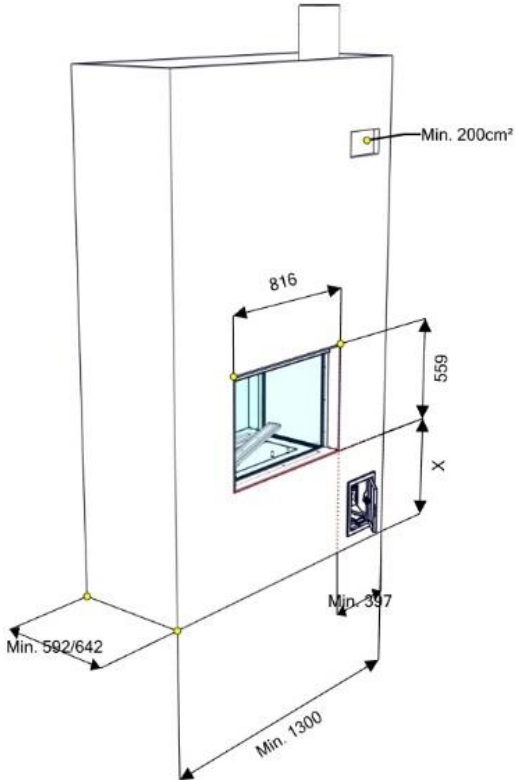
MatriX 800/500 ST

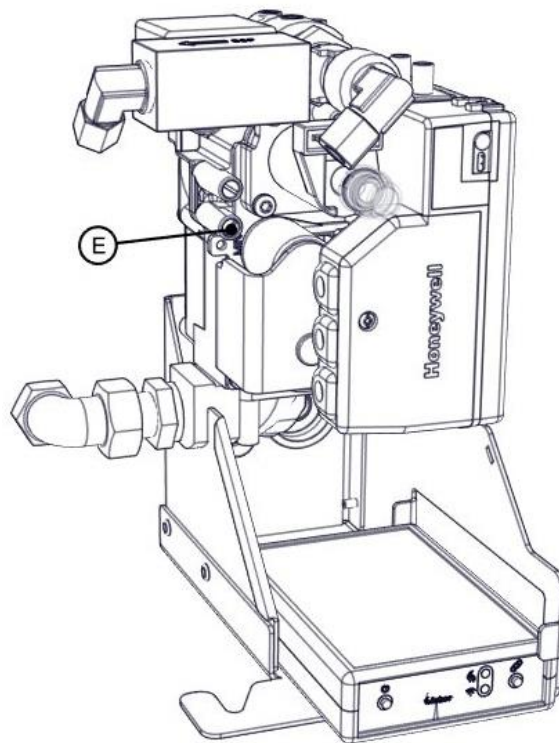
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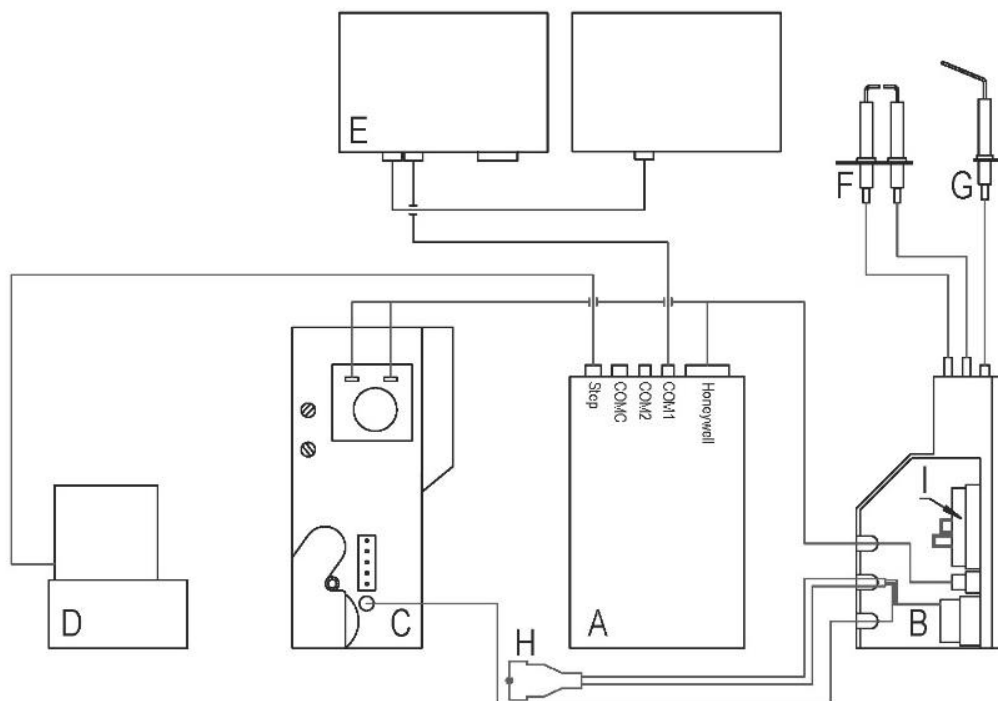
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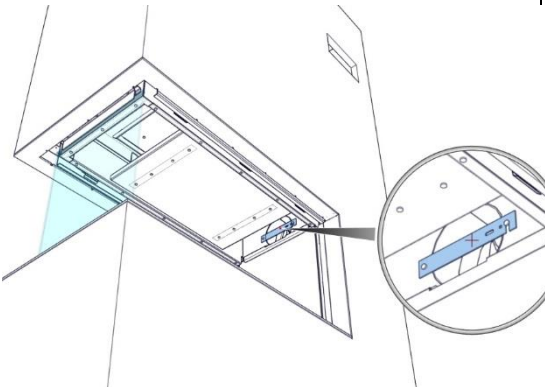
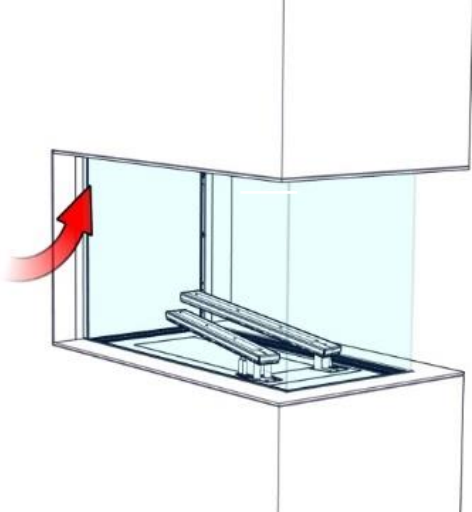
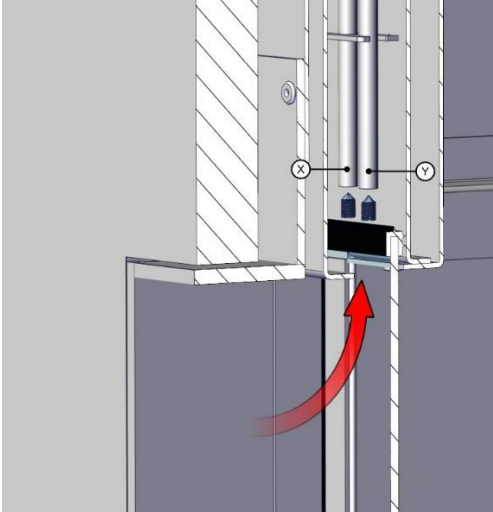
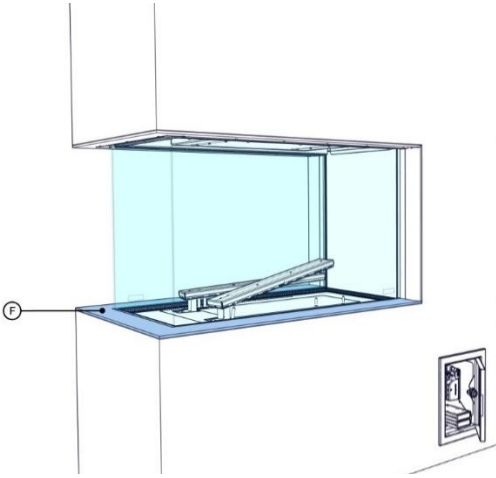
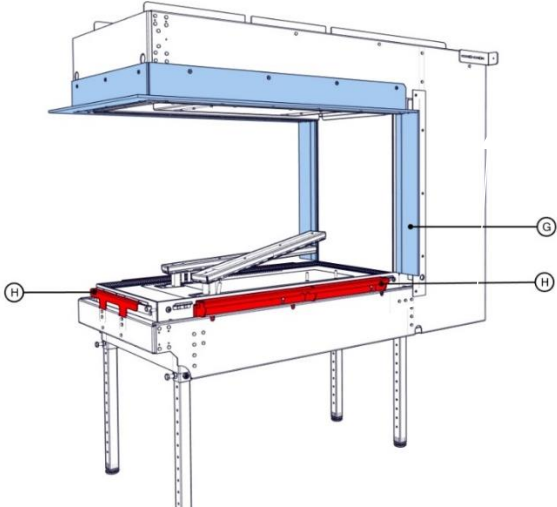
	
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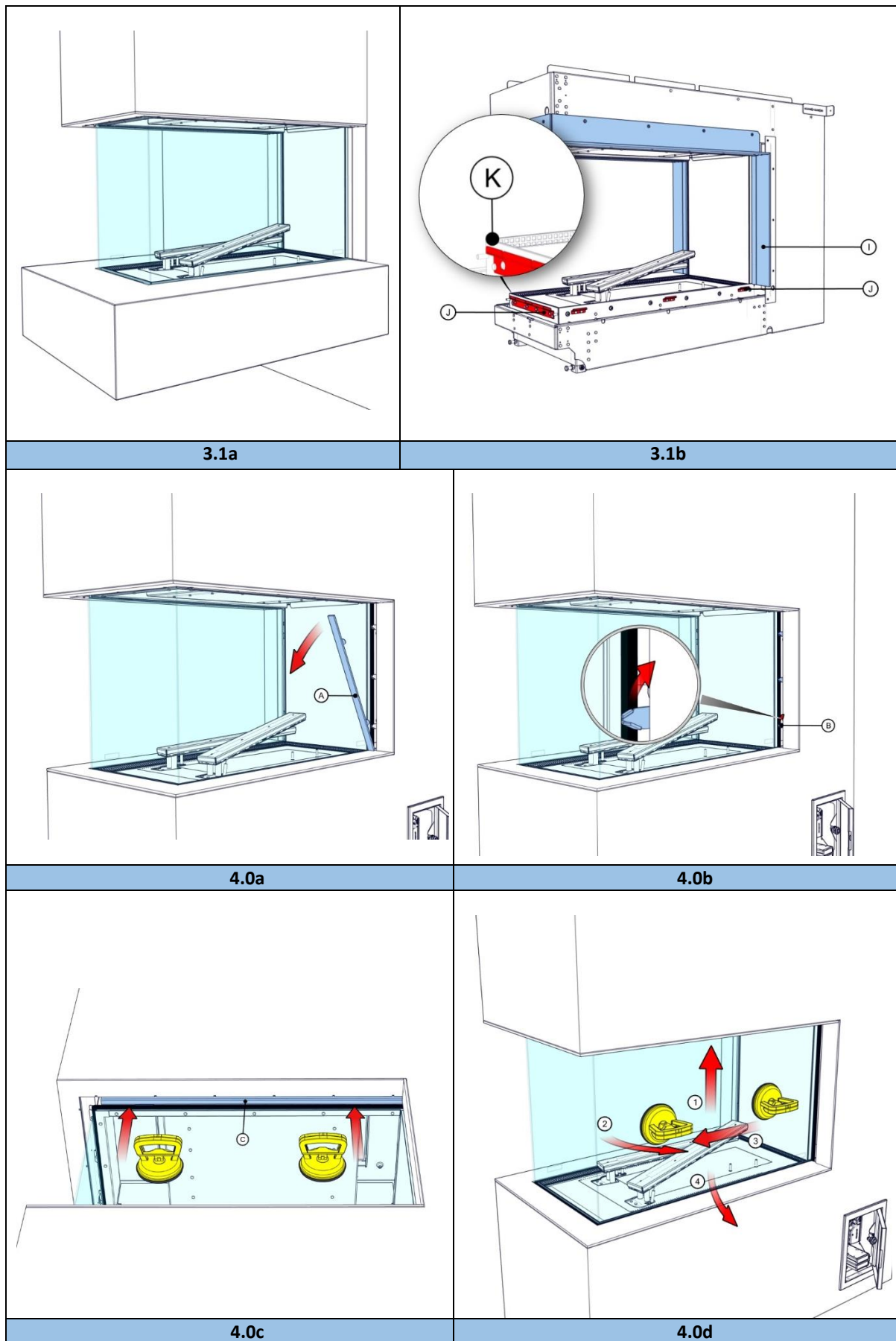


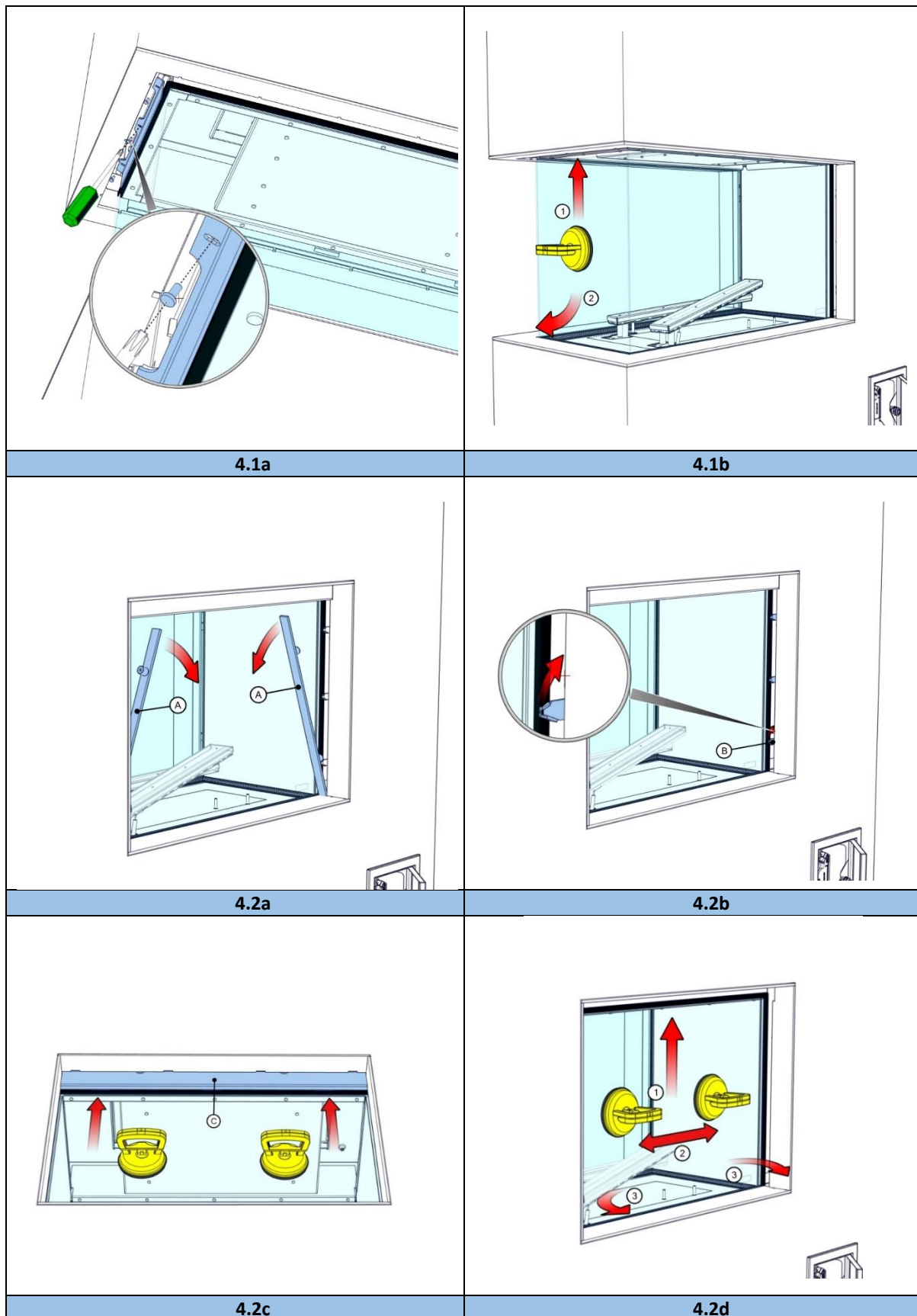
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1.6	2.0
	
2.1a	2.1b
	
3.0a	3.0b





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: MatriX 800/500 RD

MatriX 800/500 ST

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 fireplace. Heat the stove for a few hours at the highest setting so that the paint gets the chance to harden and any released vapors 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 built into an existing or new false chimney.
- For transport reasons, for appliances with flexible gas pipes, the control unit (fig. 1.4) is mounted at the bottom of the crate. Detach and mount it together with the control box and remote access door in as low as possible position in the false chimney. (See supplied instruction manual 40011721).

(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.)

- If desired, a 2 meter pipe set is available (article number 20901530).

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.
- Use for finishing special decorative plaster (min. 100°C resistant) or fiberglass wallpaper to prevent discoloration and cracks etc., minimum drying time 24 hours per mm applied finish.
- 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. 1.6)

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 box FAB1806.

See fig. 1.5 for the wiring diagram:

- A = I.T.C. (Intelligent Technical Controller)
- B = electronics
- C = gas valve
- D = solenoid valve
- E = symbio LED module (optional)
- F = ignition pin
- G = ionization pin
- H = power cable
- I = configuration plug

4.3 Smart Home installation

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 regulator.

4.5 Positioning the fireplace

Take into account the installation requirements (see chapter 3). Place the fireplace at the right place and level it (see "C" in fig. 1.0 and 1.2).

Rough height adjustment:

- With the adjustable (optional) legs.

Accurate height adjustment:

- With the adjustable feet.

4.6 Installing the flue pipes

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

- 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.

4.7 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 regulator block and its electronics and also limits the temperature of the convection air. Use the supplied Faber ventilation grids 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 chim-



ney, a horizontal screen plate, made of non-combustible material, must be installed just above the ventilation openings. (see A in fig. 1.0 and 1,2).

Installation and finishing

➤ Please note!

- Take into account a minimum distance of 2 mm due to expansion of the fireplace.
- Take into account the thickness of any finishing layer!

Method I: installation WITH cover strip

(see F, Fig. 3.0a)

For installation and finishing the following points are of interest (fig. 3.0b):

G = Build-in frame
H = Spacer profile

- Build the false chimney against the build-in frame **G** and the spacer profile **H** (Fig. 3.0b).
- Do not build the false chimney (underneath the appliance) higher than the top of the distance profile **H**.

Method II without cover strip (see Fig. 3.1a)

For installation and finishing the following points are of interest (fig. 3.1b):

I = Build-in frame
J = Glass support
K = Upper side of combustion chamber setting

- Remove all-round spacer profile **H** (Fig. 3.0b).

➤ Please note!

Ensure that the screws of the spacer profiles **H** are replaced to ensure the air tightness of the device.

- For the height of the platform, observe point **K** (Fig. 3.1b).
- Due to the expansion of the fireplace, there should be at least 2mm play between the platform and the glass supports **J** (Fig. 3.1b).

5 Removing the glass

5.1 MatriX 800/500 RD

Removing the glass from the front

- Remove cover strip "A" (Fig. 4.0a).
- Rotate clamp "B" clockwise (fig. 4.0b).
- Place the suction cups on the glass and slide the upper frame "C" upward (fig. 4.0c).
- See fig. 4.0d:
 1. Slide the glass to the top so that the bottom is released from the slot.
 2. Bring the left side slightly towards you.
 3. Slide the glass a little to the left.
 4. Pull the glass down and store it at a safe place.

For replacing 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.

Removing the glass from the side

It is not necessary to take out the glass from the side to place the wood set or for maintenance.

- Remove the glass strip at the top (fig. 4.1a).
- Place the suction cup on the glass (fig. 4.1b).
- See fig. 4.1b:
 1. Slide the glass to the top so that the bottom is released from the slot.
 2. Pull the glass down and store it at a safe place.

For replacing 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 MatriX 800/500 ST

- Remove cover strips "A" (fig. 4.2a).
- Rotate clamp "B" clockwise on both sides (fig. 4.2b).
- Place the suction cups on the glass and slide the upper frame "C" upward (fig. 4.2c).
- See fig. 4.2d:
 1. Slide the glass to the top so that the bottom is released from the slot.
 2. Now carefully slide the glass to the left or right.
 3. Bring the released side towards you and store the glass at a safe place.

Replace the glass in reverse order.

➤ Please note!

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

6 Placing the decorative material

It is not permitted to use other or to add more material in the combustion chamber.

➤ Please note!

Always keep space (min. 1cm):

- Around the base of the burner (fig. 17.2d);
- Under the burners (fig. 17.2b and c);
- At the ignition pin (fig. 17.2e);
- At the ionization pin (fig. 17.2d).

See fig. 17.0 to 17.5 or the log set instruction card:

- Distribute the glass granules on the entire base plate (fig. 17.0). Where the burners go up, a little more may be placed.
- Distribute the chips (natural) around the outer edge of the base plate (fig. 17.1).
- Distribute the chips (black) in the middle of the base plate (fig. 17.2a).
- Place the first large wooden log (fig. 17.3). To place it, pull up the other burner a little.
- Place the small log, which has a hole at the bottom of the pin (fig. 17.3 and 17.4).
- Place the other large log (fig. 17.5).

Check again that both burners, ignition and ionisation pins are free of glass granules and chips!

- Start the fireplace as described in the user manual.
- Assess whether the flame distribution and, if any, the Symbio effect (glow bed),

is good. Move or remove any chips/glass granules to create a nice glow bed.

- Install the front glass 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 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 "E" (fig. 1.4) a few turns to open and connect a measuring hose to the gas regulator.
- Take this measurement when the fire-place runs at high and low settings.
- Do not connect the unit if the pressure is too high (+20% or -20%).

➤ Please note!

Close the pressure measuring nipple 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.

Now repeat the above check by using the APP. (App set to Dealer level).

Check:

- the Actual measured values;
- the Diagnosis messages.

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 chips/glass granulates.
- The pipe connections for leaks. (in case of blue flames);
- That the correct flue restrictor is fitted (see fig. 2.0);



- 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. 2.1a,b).

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;
 - 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 wooden logs for breakage;
- the glass;
- the outlet.

Replace chips and/or glass granulate 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. 2.0).

11.1 Restrictor table (100/150) MatriX 800/500 RD,ST

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

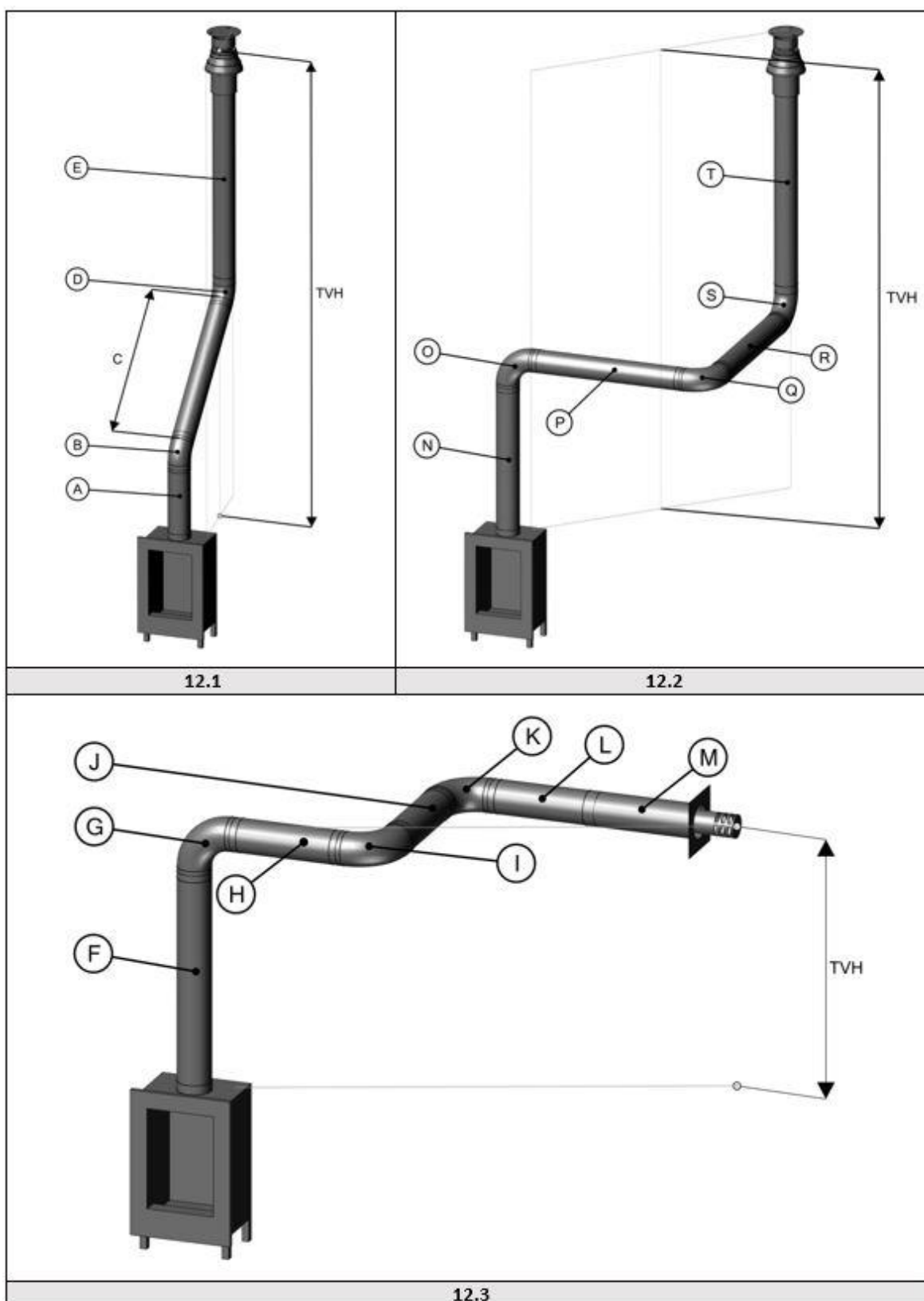
STL												
THL		0	1	2	3	4	5	6	7	8	9	10
TVH	0	x	x	x	x	x	x	x	x	x	x	x
	0.5	x	x	x	x	x	x	x	x	x	x	x
	1	x	x	x	x	x	x	x	x	x	x	x
	1.5	x	x	x	x	x	x	x	x	x	x	x
	2	30.2	x	x	x	x	x	x	x	x	x	x
	3	30.2	x	x	x	x	x	x	x	x	x	x
	4	30.2	x	x	x	x	x	x	x	x	x	x
	5	40.2	x	x	x	x	x	x	x	x	x	x
	6	40.2	x	x	x	x	x	x	x	x	x	x
	7	50.2	x	x	x	x	x	x	x	x	x	x
	8	55.2	x	x	x	x	x	x	x	x	x	x
	9	55.2	x	x	x	x	x	x	x	x	x	x
	10	60.2	x	x	x	x	x	x	x	x	x	x
	11	60.2	x	x	x	x	x	x	x	x	x	x
	12	60.2	x	x	x	x	x	x	x	x	x	x
	13	70.2	x	x	x	x	x	x	x	x	x	x
	14	70.2	x	x	x	x	x	x	x	x	x	x
	15	70.2	x	x	x	x	x	x	x	x	x	x
	16	70.2	x	x	x	x	x	x	x	x	x	x
	17	80.2	x	x	x	x	x	x	x	x	x	x
	18	80.2	x	x	x	x	x	x	x	x	x	x
	19	80.2	x	x	x	x	x	x	x	x	x	x
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	23	80.2	x	x	x	x	x	x	x	x	x	x
	24	80.2	x	x	x	x	x	x	x	x	x	x
	25	80.2	x	x	x	x	x	x	x	x	x	x
	26	80.2	x	x	x	x	x	x	x	x	x	x
	27	80.2	x	x	x	x	x	x	x	x	x	x
	28	80.2	x	x	x	x	x	x	x	x	x	x
	29	80.2	x	x	x	x	x	x	x	x	x	x
	30	80.2	x	x	x	x	x	x	x	x	x	x

11.2 Restrictor table (130/200) MatriX 800/500 RD,ST

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

STL		0,2	1	1	1,5							
THL		0	1	2	3	4	5	6	7	8	9	10
TVH	0	x	x	x	x	x	x	x	x	x	x	x
	0,5	x	x	x	x	x	x	x	x	x	x	x
	1	x	30.40	0.40	0.40	0.40	0.40	0.40	x	x	x	x
	1,5	x	30.40	30.40	0.40	0.40	0.40	0.40	0.40	x	x	x
	2	0.40	30.40	30.40	30.40	0.40	0.40	0.40	0.40	0.40	x	x
	3	30.40	30.40	30.40	30.40	30.40	0.40	0.40	0.40	0.40	x	x
	4	50.40	30.40	30.40	30.40	30.40	30.40	0.40	0.40	0.40	x	x
	5	60.40	50.40	30.40	30.40	30.40	30.40	30.40	0.40	0.40	x	x
	6	70.40	60.40	50.40	30.40	30.40	30.40	30.40	30.40	0.40	x	x
	7	75.40	70.40	60.40	50.40	30.40	30.40	30.40	30.40	30.40	x	x
	8	75.40	75.40	70.40	60.40	50.40	30.40	30.40	30.40	30.40	x	x
	9	80.40	75.40	75.40	70.40	60.40	50.40	30.40	30.40	30.40	x	x
	10	80.40	80.40	75.40	75.40	70.40	60.40	50.40	30.40	30.40	x	x
	11	80.40	80.40	80.40	75.40	75.40	70.40	60.40	50.40	30.40	x	x
	12	80.40	80.40	80.40	80.40	75.40	75.40	70.40	60.40	50.40	x	x
	13	80.40	80.40	80.40	80.40	80.40	75.40	75.40	70.40	60.40	x	x
	14	80.40	80.40	80.40	80.40	80.40	80.40	75.40	75.40	70.40	x	x
	15	80.40	80.40	80.40	80.40	80.40	80.40	80.40	75.40	75.40	x	x
	16	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	75.40	x	x
	17	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	x	x
	18	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	x	x
	19	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	x	x
	20	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	x	x
	21	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	x	x
	22	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	x	x
	23	80.40	80.40	80.40	80.40	80.40	80.40	80.40	80.40	x	x	x
	24	80.40	80.40	80.40	80.40	80.40	80.40	80.40	x	x	x	x
	25	80.40	80.40	80.40	80.40	80.40	80.40	x	x	x	x	x
	26	80.40	80.40	80.40	80.40	80.40	x	x	x	x	x	x
	27	80.40	80.40	80.40	80.40	x	x	x	x	x	x	x
	28	80.40	80.40	80.40	x	x	x	x	x	x	x	x
	29	80.40	80.40	x	x	x	x	x	x	x	x	x
	30	80.40	x	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	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	
.....				
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, incase 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"/>

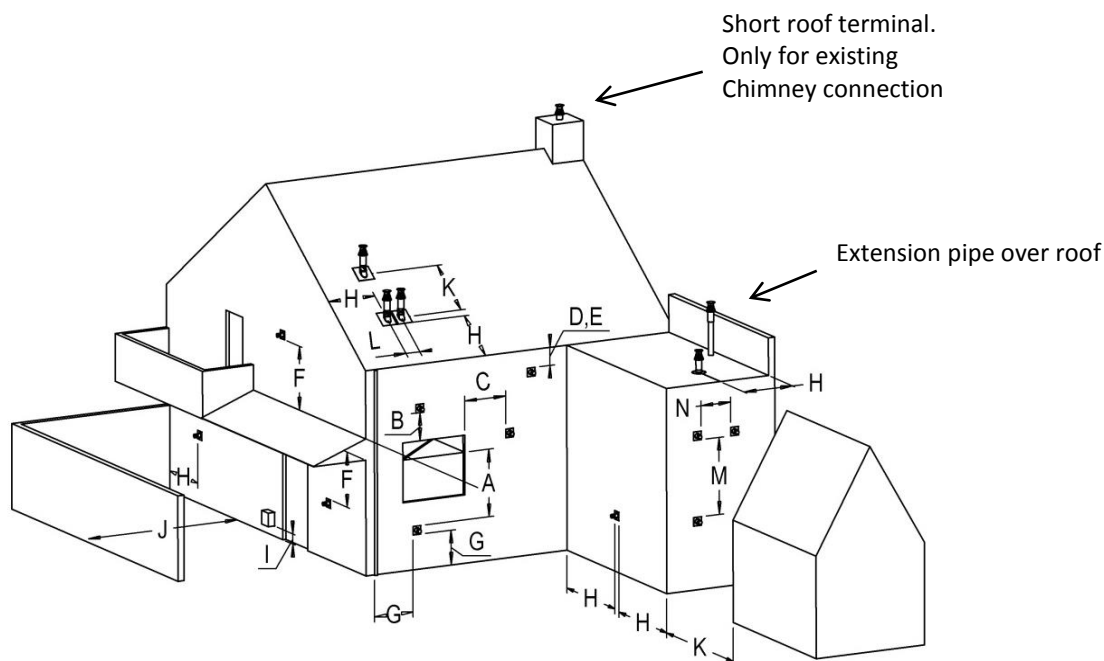
14 Technical data

Technical data						
Type indication(s)		MatriX 800/500 RD,ST				
Type appliance		C11/C31/C91				
Diameter outlet/inlet		130/200				
Gas connection		3/8"				
Indirect heating functionality		no				
Category		II2H3P				
	Symbol					Unit
Reference gas/inlet pressure			G20-20		G31-37	mbar
Emissions in space heating	NOx		120		114	mg/kWh _{input} (GVC)
Direct heating output						
Nominal heat output	P _{nom}		10,5		10,5	kW
Minimum heat output (indicative)	P _{min}		3,5		3,5	kW
Useful efficiency (NCV)						
At nominal heat output	η _{th,nom}		84,9		84,9	%
At minimum heat output (indicative)	η _{th,min}		72,3		72,3	%
Appliance input data						
Input	Hi		12,4		12,4	kW
Gas rate at full mark			1,313		0,502	m³/h
					0,96	kg/h
Burner pressure at full mark			10,5		28	mbar
Power requirement for permanent pilot light						
Power requirement for permanent pilot light (if applicable)	P _{pilot}		0		0	kW
Additional electricity consumption						
At nominal heat output	el _{max}		0,016		0,016	kW
At minimum heat output	el _{min}		0,012		0,012	kW
In standby mode	el _{sb}		0,0037		0,0037	kW
Energy-efficiency						
Energy-efficiency class			B		B	
Energy-efficiency index	EEl		84		84	
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			yes
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!

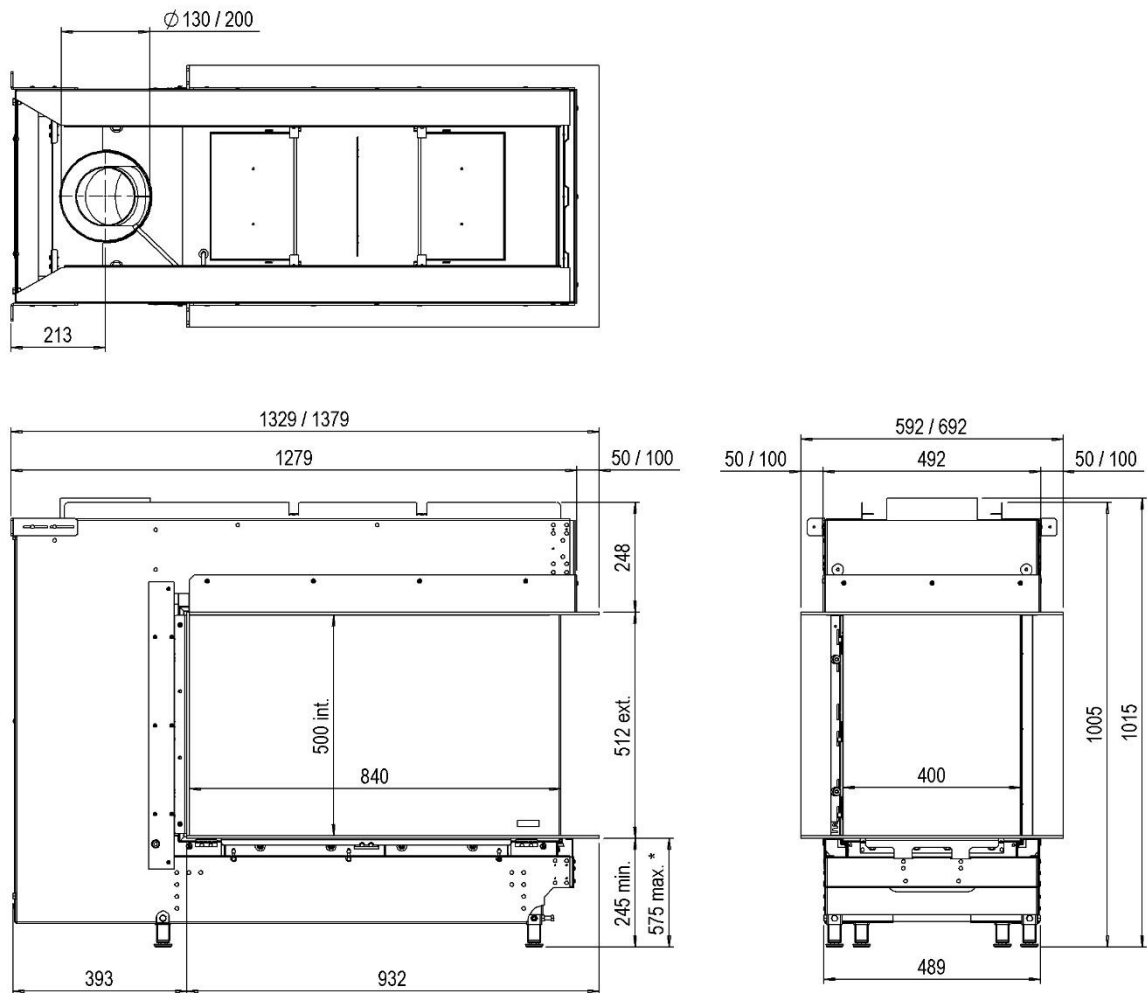
These rules apply only for the proper functioning of the unit, for ventilation and environmental protection you need to comply with the applicable rules as defined in the building regulations.



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

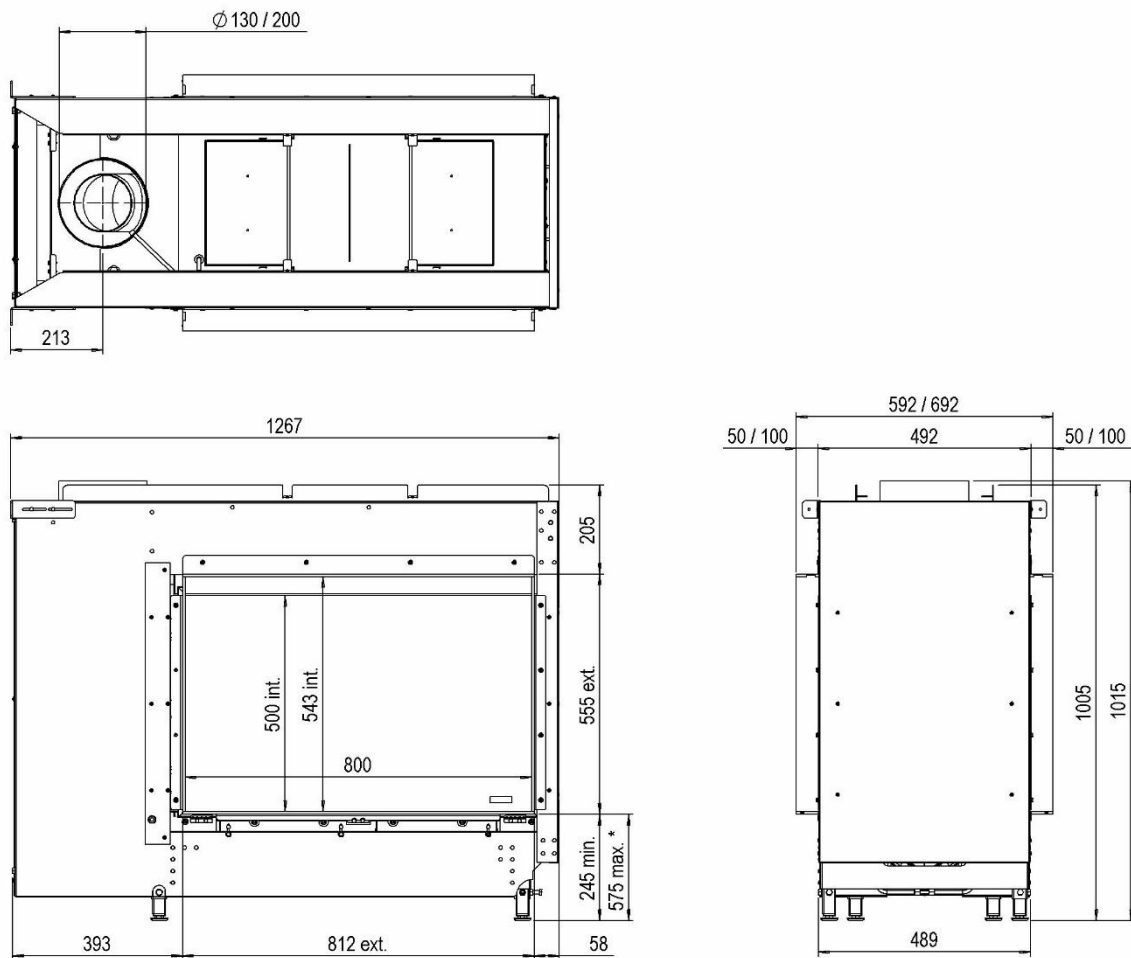
16 Dimensional drawings

16.1 MatriX 800/500 RD



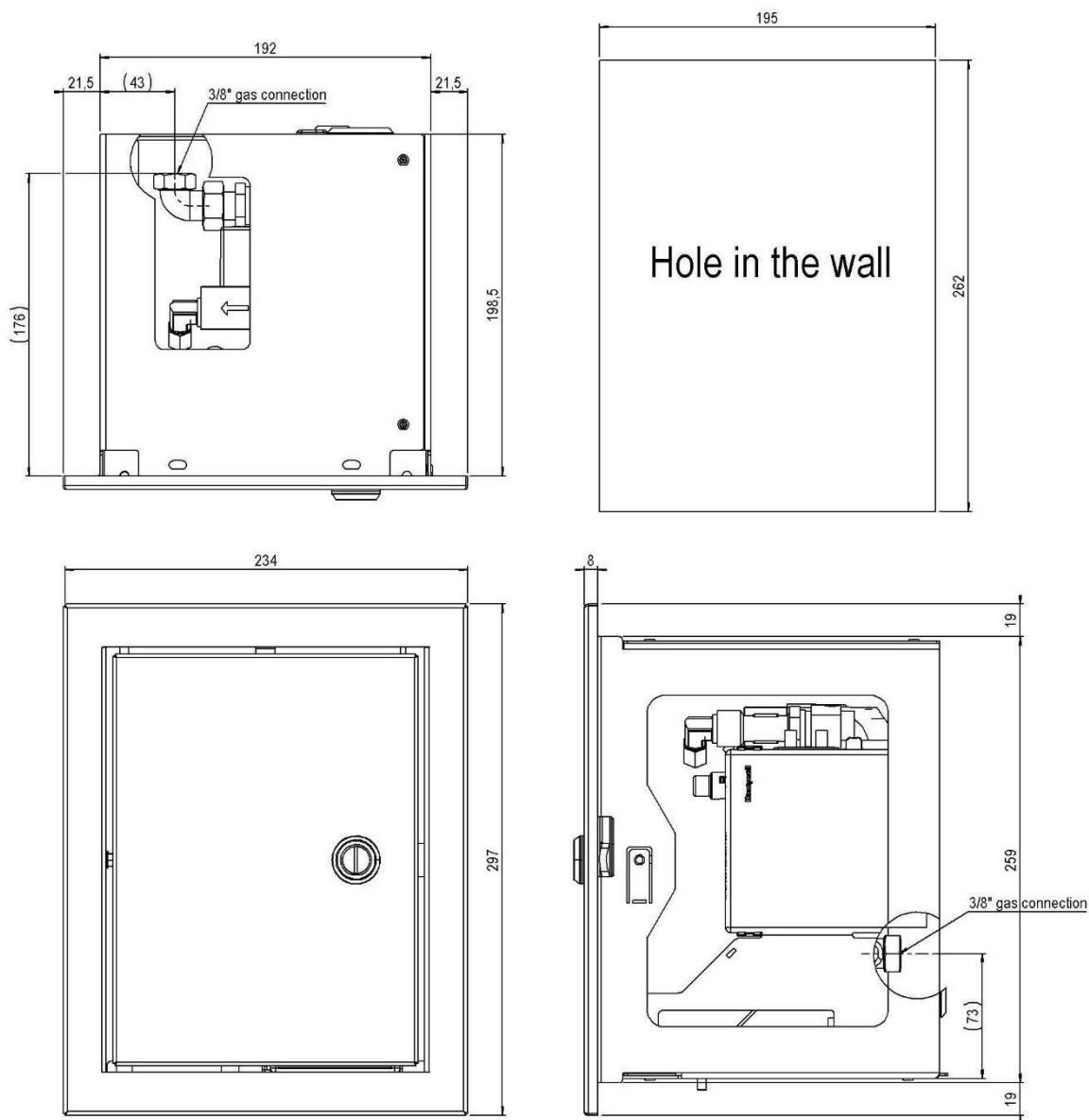
* Incl. optional adjustable feet

16.2 MatriX 800/500 ST

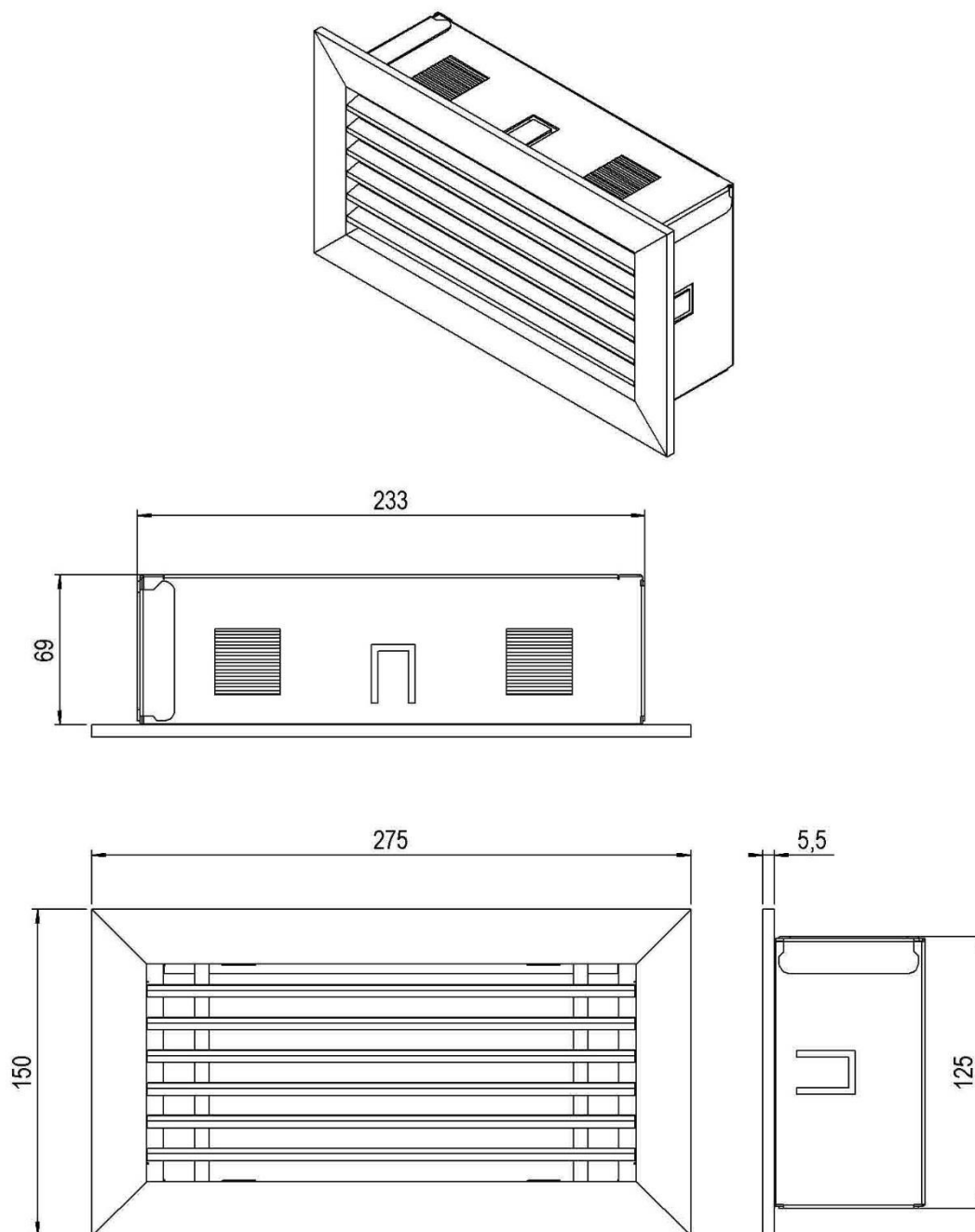


* incl. optional adjustable feet

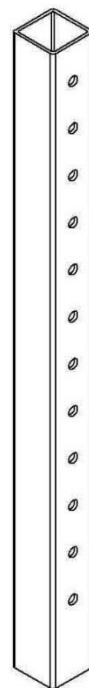
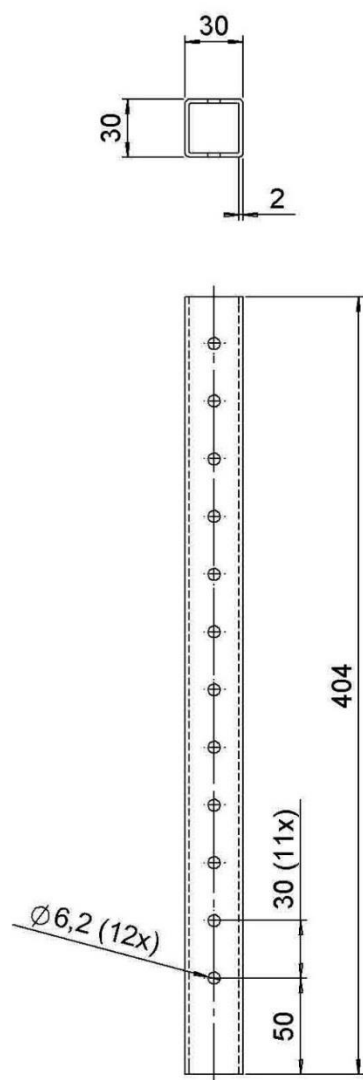
16.3 Control box FAB1806



16.4 Ventilation grid (article number A9296400)



16.5 Adjustable feet (article number A9319696)



17 Decoration instruction card



17.0



17.1



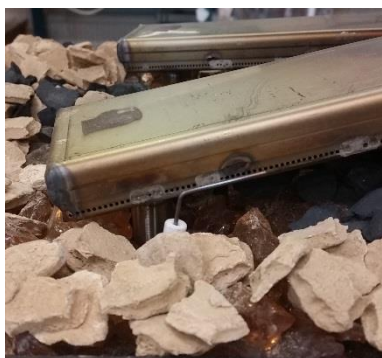
17.2a



17.2b



17.2c



17.2d



17.2e



17.3



17.4



17.5



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