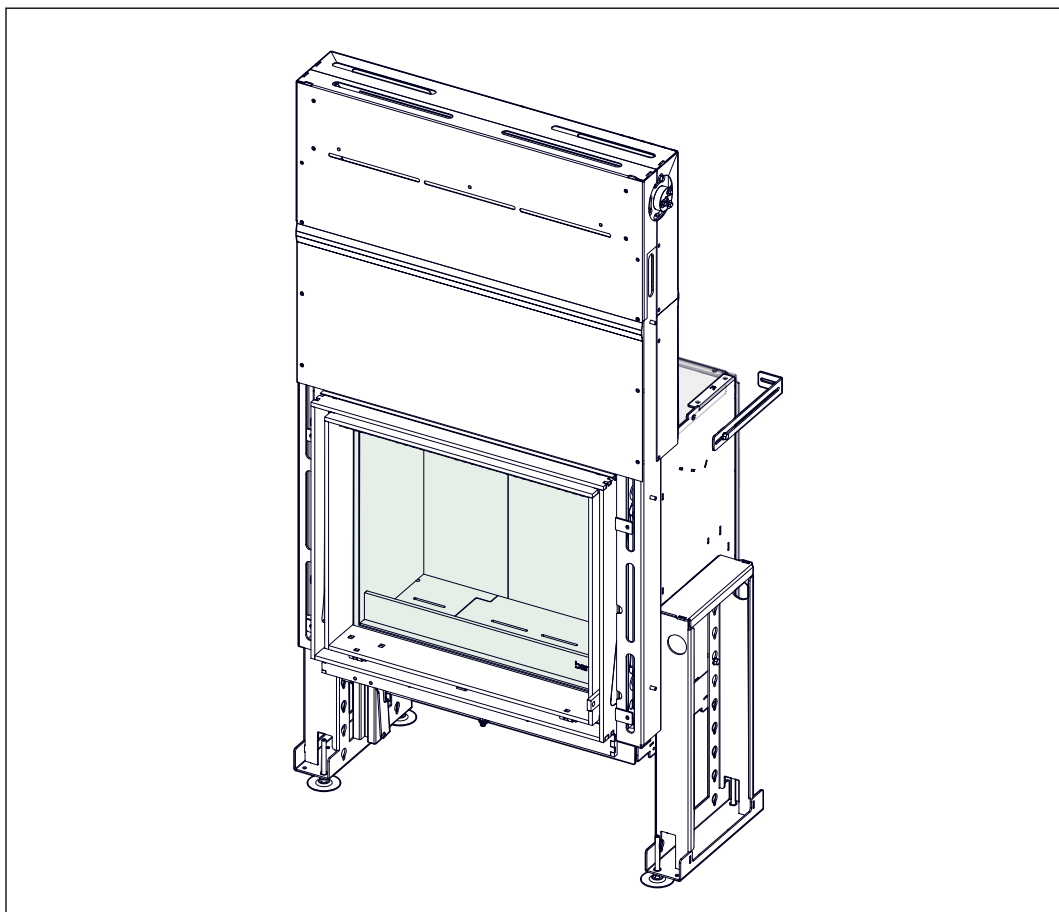


# barbas .

## Installation and maintenance manual

Evolux 55-45



This product is not suitable for primary heating purposes



Serial number:

Production date:

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## 1

## Declaration of performance

**barbas bellfires.**  
Crafted to wonder

| EU-declaration of conformity                                                                                                                                                                                                                                                                              |                                                                                     |                          |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------------------------|
| This EC declaration of conformity applies to the product described below and describes the conformity with the following directives:<br><b>2009/125/EC Directive for the setting of eco-design requirements for energy-related products (eco-design directive)</b><br>Relevant Regulation: (EU) 2015/1185 |                                                                                     |                          |                                             |
| Declaration of Performance                                                                                                                                                                                                                                                                                |                                                                                     |                          |                                             |
| No. 1.241-081-4 - CPR-2013/07/01                                                                                                                                                                                                                                                                          |                                                                                     |                          |                                             |
| Unique identification code of the product type:                                                                                                                                                                                                                                                           | Evolux 55-45                                                                        |                          |                                             |
| Intended use:                                                                                                                                                                                                                                                                                             | Space heating in residential buildings                                              |                          |                                             |
| Manufacturer:                                                                                                                                                                                                                                                                                             | Barbas Bellfires BV; Hallenstraat 17; 5531 AB Bladel; The Netherlands               |                          |                                             |
| System of AVCP:                                                                                                                                                                                                                                                                                           | 3                                                                                   |                          |                                             |
| Harmonised technical specifications:                                                                                                                                                                                                                                                                      | EN 16510-2-2:2022                                                                   |                          |                                             |
| Notified body:                                                                                                                                                                                                                                                                                            | No. 2013                                                                            |                          |                                             |
| Essential characteristics                                                                                                                                                                                                                                                                                 |                                                                                     |                          |                                             |
| <i>Mechanical resistance and stability</i>                                                                                                                                                                                                                                                                |                                                                                     |                          |                                             |
| Load bearing capacity                                                                                                                                                                                                                                                                                     | N/A                                                                                 |                          |                                             |
| <i>Safety in case of fire - Protection of combustible materials</i>                                                                                                                                                                                                                                       |                                                                                     |                          |                                             |
| Minimum distance to combustible materials                                                                                                                                                                                                                                                                 |                                                                                     |                          |                                             |
| Bottom (d <sub>b</sub> ):                                                                                                                                                                                                                                                                                 | 0 cm                                                                                |                          |                                             |
| Floor in front (d <sub>f</sub> ):                                                                                                                                                                                                                                                                         | 80 cm                                                                               |                          |                                             |
| Ceiling (d <sub>c</sub> ):                                                                                                                                                                                                                                                                                | 0 cm                                                                                |                          |                                             |
| Rear (d <sub>a</sub> ):                                                                                                                                                                                                                                                                                   | 0 cm                                                                                |                          |                                             |
| Side (d <sub>s</sub> ):                                                                                                                                                                                                                                                                                   | 0 cm                                                                                |                          |                                             |
| Side radiation area (d <sub>r</sub> ):                                                                                                                                                                                                                                                                    | 80 cm                                                                               |                          |                                             |
| Front (d <sub>f</sub> ):                                                                                                                                                                                                                                                                                  | 160 cm                                                                              |                          |                                             |
| Insulation material:                                                                                                                                                                                                                                                                                      | 10 cm plates with $\lambda \leq 0.1$ W/m.K                                          |                          |                                             |
| <i>Hygiene, health and the environment</i>                                                                                                                                                                                                                                                                |                                                                                     |                          |                                             |
| Carbon monoxide emission (CO)                                                                                                                                                                                                                                                                             | At nominal heat output                                                              | At part load heat output |                                             |
|                                                                                                                                                                                                                                                                                                           | 1346 mg/m <sup>3</sup>                                                              | 2537 mg/m <sup>3</sup>   |                                             |
| Nitrogen oxides emission (NO <sub>x</sub> )                                                                                                                                                                                                                                                               | 86 mg/m <sup>3</sup>                                                                | 87 mg/m <sup>3</sup>     |                                             |
| Emission of organic gaseous carbon (OGC)                                                                                                                                                                                                                                                                  | 83 mg/m <sup>3</sup>                                                                | 240 mg/m <sup>3</sup>    |                                             |
| Particulate matter emission (PM)                                                                                                                                                                                                                                                                          | 22 mg/m <sup>3</sup>                                                                | 40 mg/m <sup>3</sup>     |                                             |
| <i>Safety and accessibility in use</i>                                                                                                                                                                                                                                                                    |                                                                                     |                          |                                             |
| <i>Data for installation to a chimney</i>                                                                                                                                                                                                                                                                 |                                                                                     |                          |                                             |
| Flue gas outlet temperature                                                                                                                                                                                                                                                                               | At nominal heat output                                                              | At part load heat output |                                             |
|                                                                                                                                                                                                                                                                                                           | 326 °C                                                                              | 256 °C                   |                                             |
| Minimum flue draught                                                                                                                                                                                                                                                                                      | 12 Pa                                                                               | 6.7 Pa                   |                                             |
| Flue gas mass flow                                                                                                                                                                                                                                                                                        | 10.4 g/s                                                                            | 8.5 g/s                  |                                             |
| Fire safety of installation to the chimney                                                                                                                                                                                                                                                                | T400 G minimum                                                                      |                          |                                             |
| <i>Energy economy and heat retention</i>                                                                                                                                                                                                                                                                  |                                                                                     |                          |                                             |
| <i>Appliance's thermal heat output and energy efficiency</i>                                                                                                                                                                                                                                              |                                                                                     |                          |                                             |
| Space heat output                                                                                                                                                                                                                                                                                         | At nominal heat output                                                              | At part load heat output |                                             |
|                                                                                                                                                                                                                                                                                                           | 9.5 kW                                                                              | 5.6 kW                   |                                             |
| Efficiency                                                                                                                                                                                                                                                                                                | 78.2 %                                                                              | 78.2 %                   |                                             |
| Seasonal space heating efficiency                                                                                                                                                                                                                                                                         | 67.4 %                                                                              | Space heating efficiency |                                             |
| Energy efficiency index (EEI)                                                                                                                                                                                                                                                                             | 103                                                                                 |                          |                                             |
| Energy efficiency class                                                                                                                                                                                                                                                                                   | A                                                                                   |                          |                                             |
| Electric power consumption                                                                                                                                                                                                                                                                                | At nominal heat output                                                              | At part load heat output | Standby mode                                |
|                                                                                                                                                                                                                                                                                                           | 0.064 kW                                                                            | 0.024 kW                 | 0 kW                                        |
| <i>Sustainable use of natural resources</i>                                                                                                                                                                                                                                                               |                                                                                     |                          |                                             |
| Environmental sustainability                                                                                                                                                                                                                                                                              | NPD                                                                                 |                          |                                             |
| The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.                                    |                                                                                     |                          |                                             |
| Signed for and on behalf of the manufacturer by:                                                                                                                                                                                                                                                          |                                                                                     |                          |                                             |
| Danny Baijens, CEO                                                                                                                                                                                                                                                                                        |  |                          | Bladel, The Netherlands<br>26 November 2025 |

## 2 About this document

This document shows the necessary information to do these tasks on the Evolux 55-45

- Installation
- Maintenance

This document refers to the Evolux 55-45 as 'the appliance'. This document is an essential part of your appliance. Read it carefully before you do work on the appliance. Keep it in a safe place.

The original instructions of the document are in English. All other language versions of the document are translations of the original instructions. It is not always possible to provide a detailed illustration of every single item of the equipment. The illustrations in this document show a typical setup. The illustrations are for instructional use only.

### 2.1 How to work with this document

1. Make yourself familiar with the structure and content of the document.
2. Read the safety section in detail.
3. Make sure that you understand all the instructions.
4. Do the procedures completely and in the given sequence.

### 2.2 Warnings and cautions used in this document

#### Warning

If you do not obey these instructions, there is a risk that can cause personal injury or death.

#### Caution

If you do not obey these instructions, there is a risk of damage to the appliance, installation or to property.

#### Note

A note shows more information.

| Symbol                                                                              | Description                        |
|-------------------------------------------------------------------------------------|------------------------------------|
|  | Visual sign that there is a hazard |
|  | Visual sign that there is a notice |

### 2.3 Related documentation

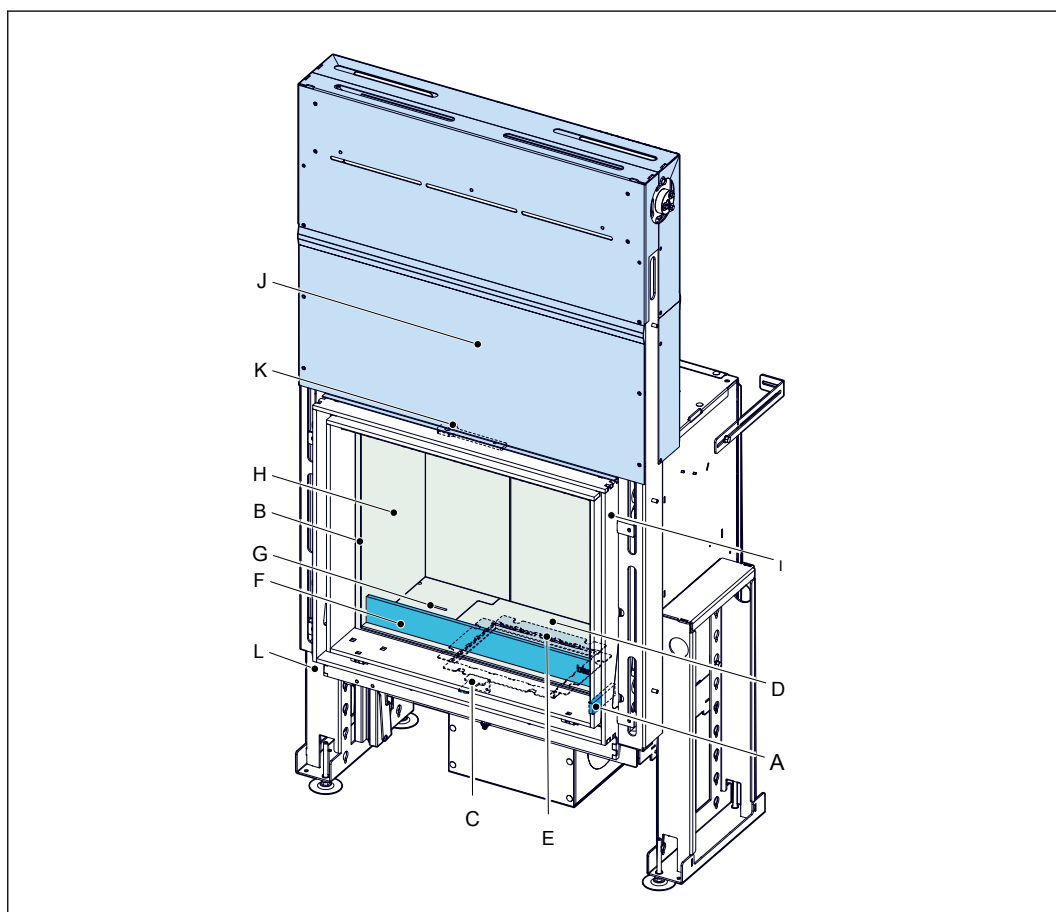
- Installation and maintenance manual
- User manual

### 3 Description

**Note:**

The appliance is a room-sealed appliance only if combustion air comes from the outer side of the building through a pipe that is connected to the combustion air inlet of the appliance. In all other cases the appliance is not a room-sealed appliance and the data for leak tightness as given in section 9 are not valid.

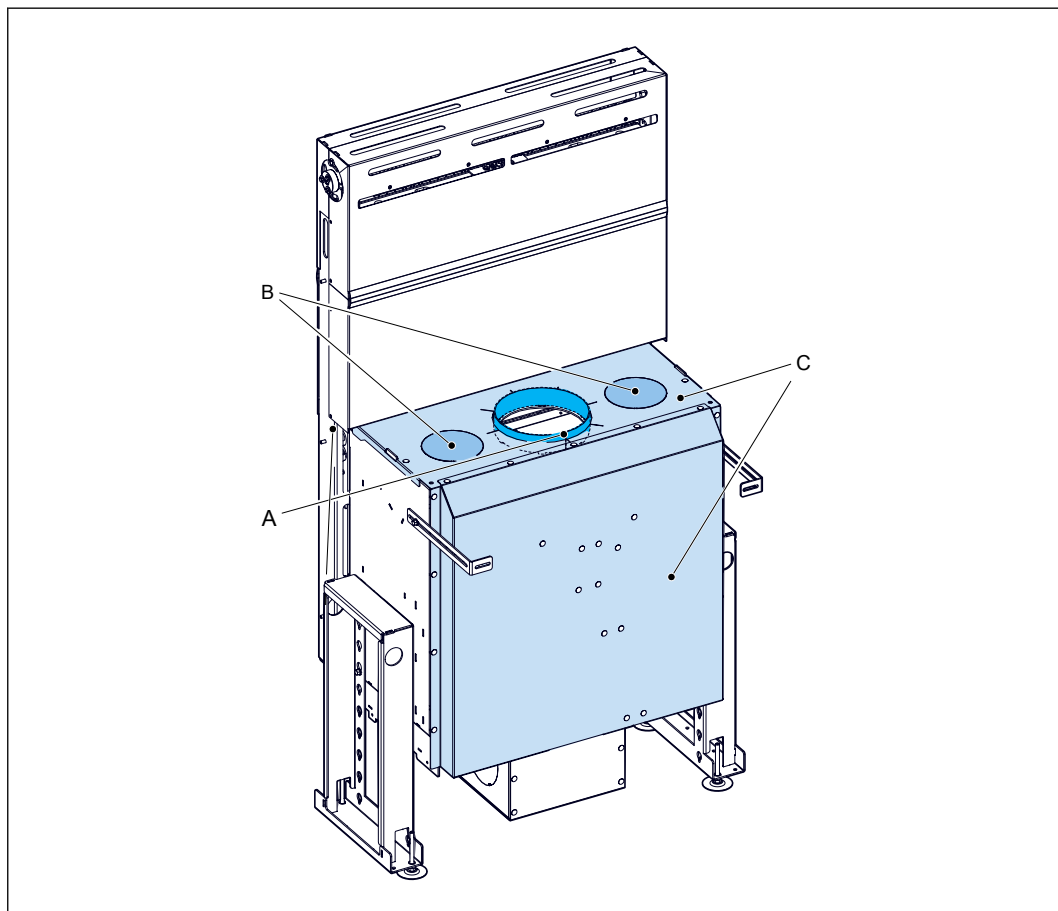
#### 3.1 Overview of the front of the appliance



- |   |                 |   |                           |
|---|-----------------|---|---------------------------|
| A | Door handle     | G | Primary air inlet         |
| B | Glass           | H | Combustion chamber panels |
| C | Control lever   | I | Frame                     |
| D | Grate           | J | Chain case cover          |
| E | Ash tray        | K | Door lock handle          |
| F | Front log guard |   |                           |



## 3.2 Overview of the rear of the appliance

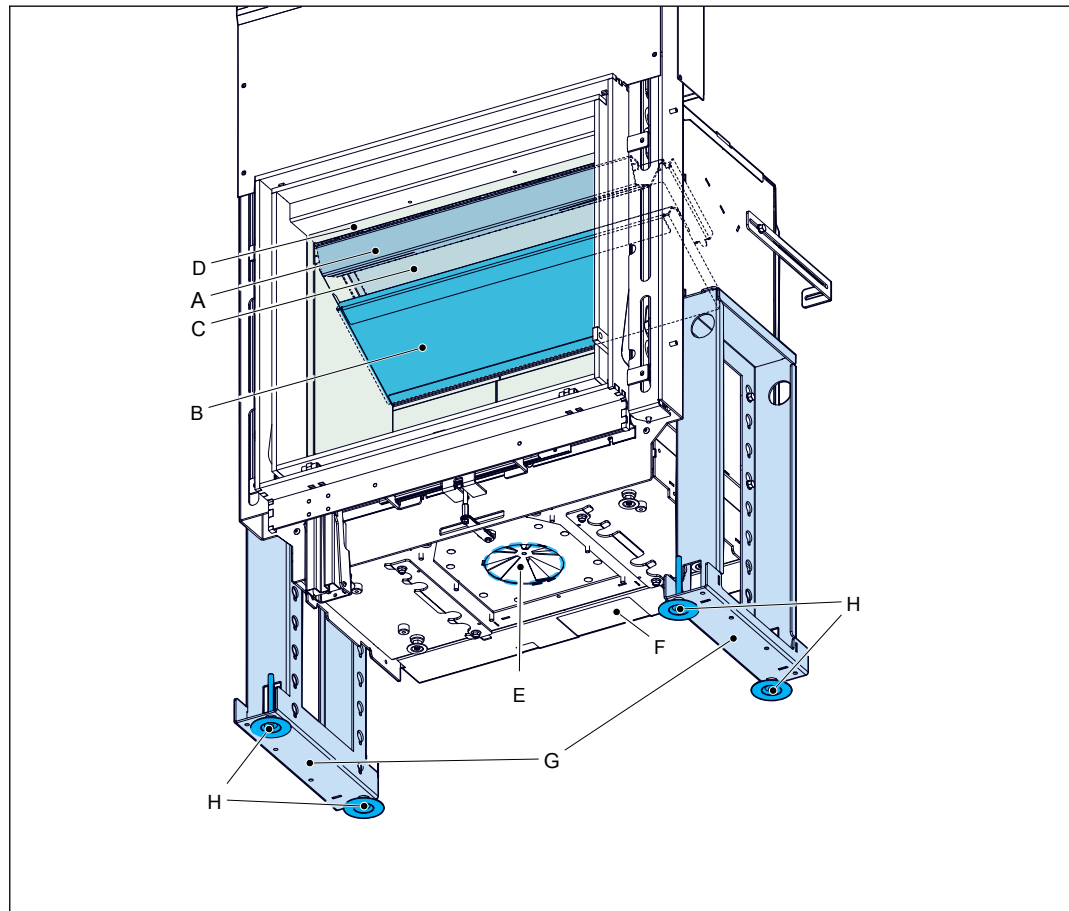


A Flue connector <sup>1</sup>  
 B Convection air outlet

C Convection casing

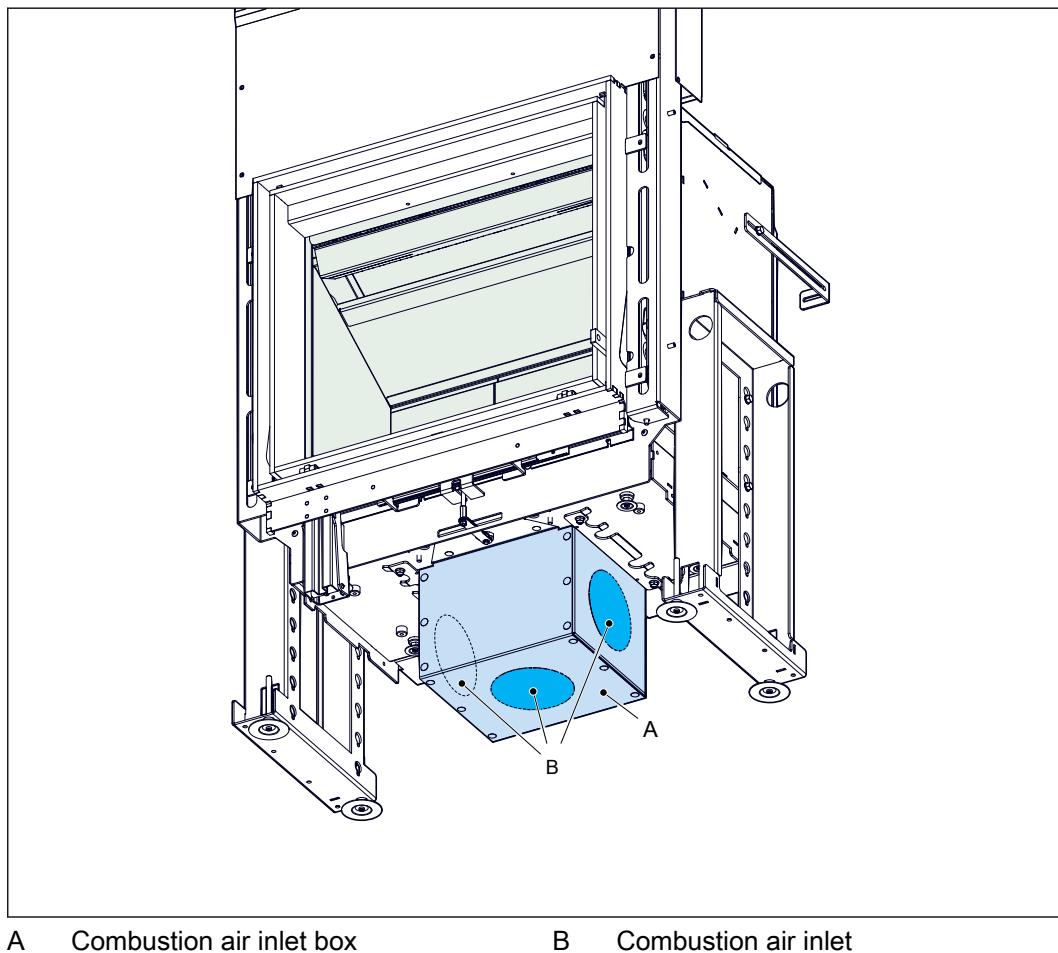
<sup>1</sup> A 30° flue connector is also available

### 3.3 Overview of the bottom of the appliance



- |   |                            |   |                         |
|---|----------------------------|---|-------------------------|
| A | Heat shield (steel)        | E | Combustion air inlet    |
| B | Lower baffle               | F | Convection air inlet    |
| C | Upper baffle (vermiculite) | G | Adjustable height frame |
| D | Air wash inlet             | H | Adjustable feet         |

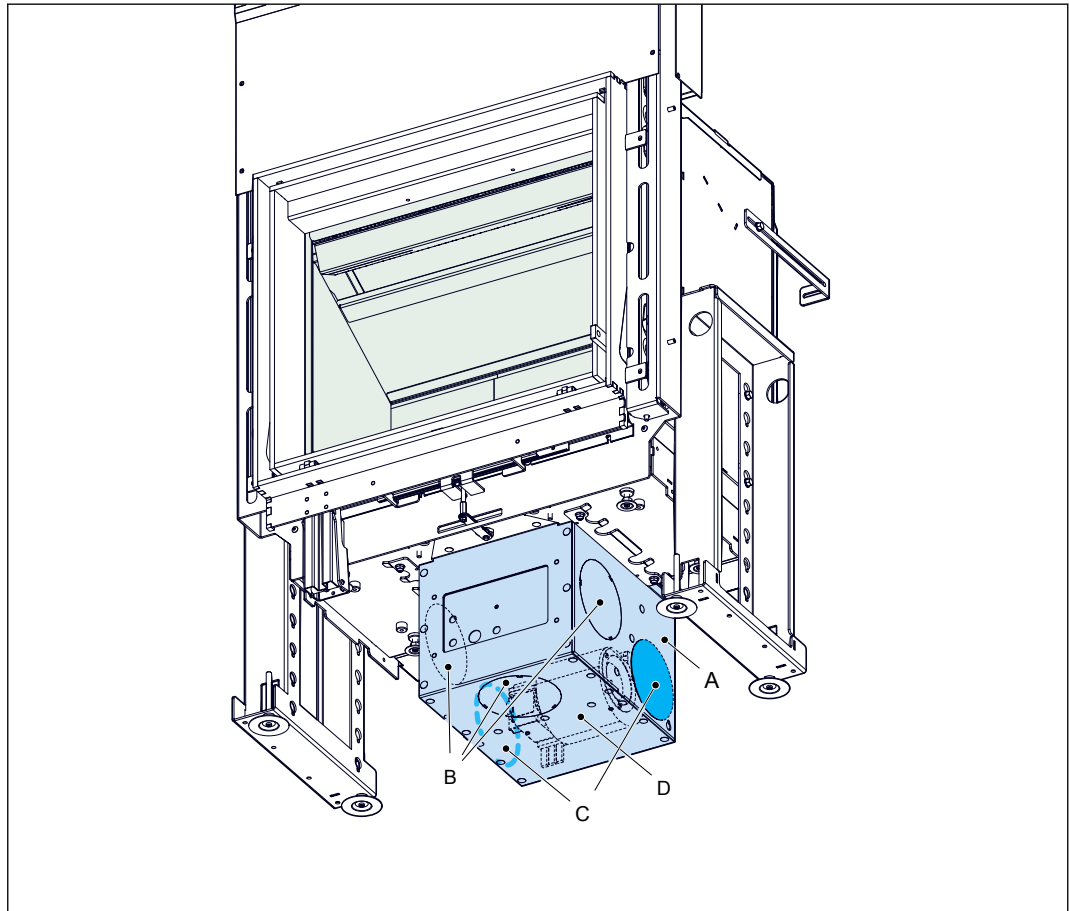
## 3.4 Overview of combustion air inlet box



A Combustion air inlet box

B Combustion air inlet

### 3.5 Overview of the convection ventilator / combustion air inlet box



- |   |                                                  |   |                       |
|---|--------------------------------------------------|---|-----------------------|
| A | Convection ventilator / combustion air inlet box | C | Convection air inlet  |
| B | Combustion air inlet                             | D | Convection ventilator |

## 3.6 Appliance options

| Option                                                    | Description                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Combustion air inlet box                                  | The appliance can be installed with a combustion air inlet-box to connect a flexible aluminum pipe for the external combustion air supply.                                                                                                                                                                                                                                                           |
| Combined convection ventilator / combustion air inlet box | The appliance can be installed with a combined convectionventilator / combustion air inlet box to connect a flexible aluminum pipe for the external combustion air supply and to connect a flexible aluminum pipe for the supply of convection air.                                                                                                                                                  |
| Top convection air outlet or front convection air outlet  | By default, the appliance is delivered with the front outlet open and the top outlet closed. With the included 3 metal strips the front outlet can be closed. Refer to section <a href="#">7.8.1</a> for instructions.                                                                                                                                                                               |
| Convection set                                            | The appliance can be installed with a convection set. The convection set collects the heated convection air from the appliance and releases this air into the room. A convection ventilator / combustion air inlet box is needed for the convection system.<br><br>The convection air outlet openings are optionally on the front of the appliance and/or via outlet openings in the chimney breast. |
| 30° flue connector                                        | Not available in combination with a convection system.                                                                                                                                                                                                                                                                                                                                               |
| Adjustable height frames                                  | The appliance can be installed with 2 adjustable height frames. With these frames the appliance can be installed at an elevated level.                                                                                                                                                                                                                                                               |

## 3.7 Intended use

The appliance is intended for indoor use to heat the room wherein it is installed. Do not use it for other purposes.

It is not allowed to use the appliance as primary heating appliance.

The appliance is intended for use with wood logs or wood briquettes as fuel. Do not use other fuels and waste.

The appliance is intended for use with the door closed.

The appliance may only be used at the location that meets the requirements for the installation of the appliance.

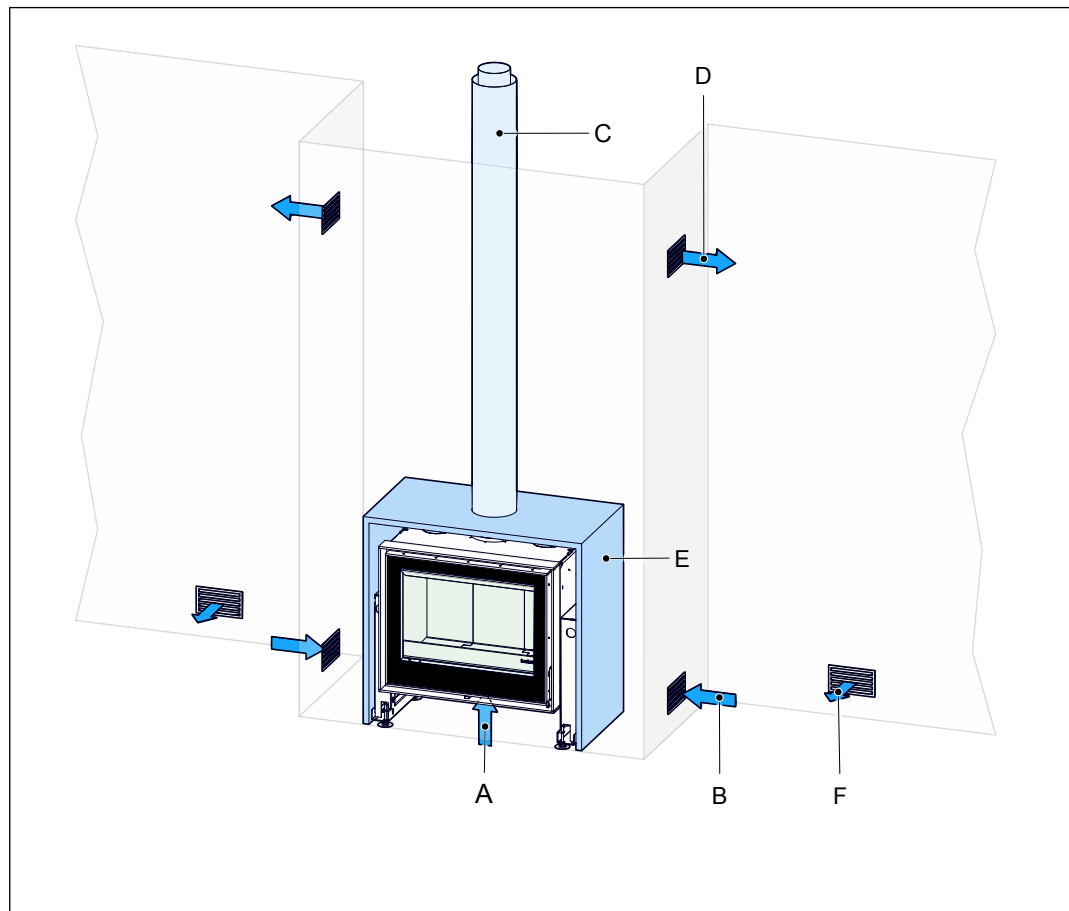
The appliance is intended for intermittent use and is not intended for continuous use.

It is not allowed to connect the appliance on a shared flue gas channel.

The appliance is intended to heat the room by direct heating. It is not allowed to connect the appliance to a central-heating installation.

### 3.8 Installation examples

#### 3.8.1 Combustion air supply from the installation room

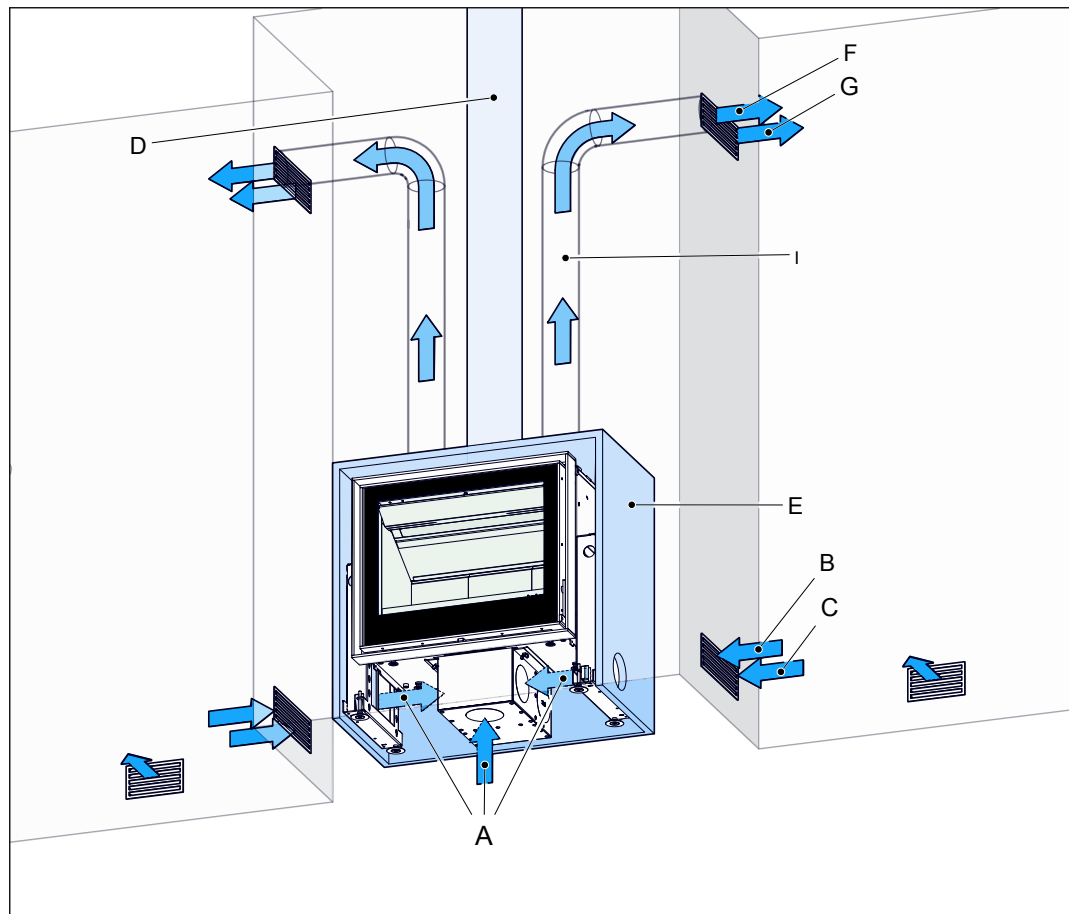


A Combustion air inlet  
B Ventilation air inlet  
C Chimney

D Ventilation air outlet  
E Insulating material  
F Air supply to the room

## 3.8.2

### External combustion air supply with convection set



- A Combustion air inlet
- B Convection air inlet opening
- C Ventilation air inlet opening
- D Chimney

- E Insulating material
- F Convection air outlet
- G Ventilation air outlet
- I Flexible aluminum pipe

## 4 Safety

### 4.1 Safety instructions for installation

**Warning:**

- Installation must be done by a qualified installer.
- Install the appliance in accordance with the following installation instructions and the national and local applicable regulations.
- Make sure that the area around the fireplace is free of combustible material at all times. The minimal safe distance is 100 cm.
- If applicable, contact the authorities if it is allowed to connect the appliance to a flue that is also connected to another appliance.
- Install a carbon monoxide alarm. The carbon monoxide alarm should be battery-powered and designed to operate for the life of the carbon monoxide alarm, following which it should be replaced. Alternatively a mains powered carbon monoxide alarm can be used, however this must be fitted with a sensor failure warning device.

**Caution:**

- Install the appliance on a floor with adequate load-bearing capacity. Refer to section 9 for the weight of the appliance.
- Make sure that the chimney has no creaks and is in general good order.
- Install a suitable cap on the chimney outlet to avoid birds' nests build in the chimney.
- Parts in the appliance can be moved during transportation. Make sure these parts are in the correct position.
- Do not use masking tape on the appliance. Masking tape can damage the finish of the appliance.
- Do not use fiberglass, rockwool or any other sort of insulation material. These materials produce a pungent odor and can produce discoloration of the appliance.
- Make sure that the brickwork is build with a clearing of minimum 3 mm between the sides and the top of the appliance and the brickwork. The appliance can expand during operation due to heating.
- Make sure that the chimney temperature class is minimum T400 sootfire resistant.
- Do not install the appliance in a room with a ventilation system that makes pressures below -15 Pa.
- Heat radiation from the appliance can cause cracks in a floor plate of natural stone if put directly in front of the appliance. Make sure the floor plate is resistant to temperatures of more than 100 °C. Refer to the supplier of the natural stone for advice.

### 4.2 Safety instructions with regard to the environment

- Dispose of the packing materials in an environmentally friendly way.
- Dispose of ceramic heat-resistant glass as household waste. Do not dispose of ceramic heat-resistant glass in a glass recycling container.
- Dispose of an obsolete appliance according to instructions of the authorities or the fitter.
- Obey the local regulations.



## 5 Clearances

**Warning:**

- Obey the instructions in this section. Failure to follow these instruction can create a fire hazard.
- Do not put the appliance directly against a flammable or non-flammable wall.

### 5.1 Insulating material requirements

- Use insulating plates with a maximum thermal conductivity of 0.10 W/m.K or a thermal resistance of minimum 10 K.m/W. The table hereunder shows some examples of suitable insulating plate materials.

| Examples of suitable plate material | Thermal conductivity |
|-------------------------------------|----------------------|
| Promat Promatect L insulating board | 0.083 W/m.K          |
| Skamol Skamotec 225                 | 0.06 W/m.K           |
| Skamol Super-Isol                   | 0.08 W/m.K           |

- Only use white unbound ceramic insulation wool. Do not use glass wool or rock wool, these materials can cause a bad smell, unwanted smoke and is not applicable for high temperatures.

| Insulation wool property | Requirement            |
|--------------------------|------------------------|
| Temperature resistance   | > 700 °C               |
| Density                  | > 80 kg/m <sup>3</sup> |

### 5.2 Clearances to flammable or load-bearing walls



**Caution:** Make sure there is a 3 mm clearance between the appliance and the surrounding construction, to allow for expansion of the appliance during use.

Put a non-flammable insulation plate between the appliance and the rear wall and side wall according the figure hereunder.

Obey the requirements as mentioned in the table hereunder.



| Item |                                                                       | Dimension |
|------|-----------------------------------------------------------------------|-----------|
| A    | Air gap                                                               | 2.5 cm    |
| B    | Thickness plate                                                       | 10 cm     |
| C    | Air gap / Spacer                                                      | 2.5 cm    |
| D    | A+B+C                                                                 | 15 cm     |
| E    | B+C                                                                   | 12.5 cm   |
| F    | Minimum 3 mm clearance between appliance and surrounding construction |           |

Put a non-flammable insulation plate with a minimum thickness of 3 cm under the appliance. To avoid damage to this non-flammable plate, put ceramic or steel tiles (approx. 10 x 10 cm) under the feet of the appliance.

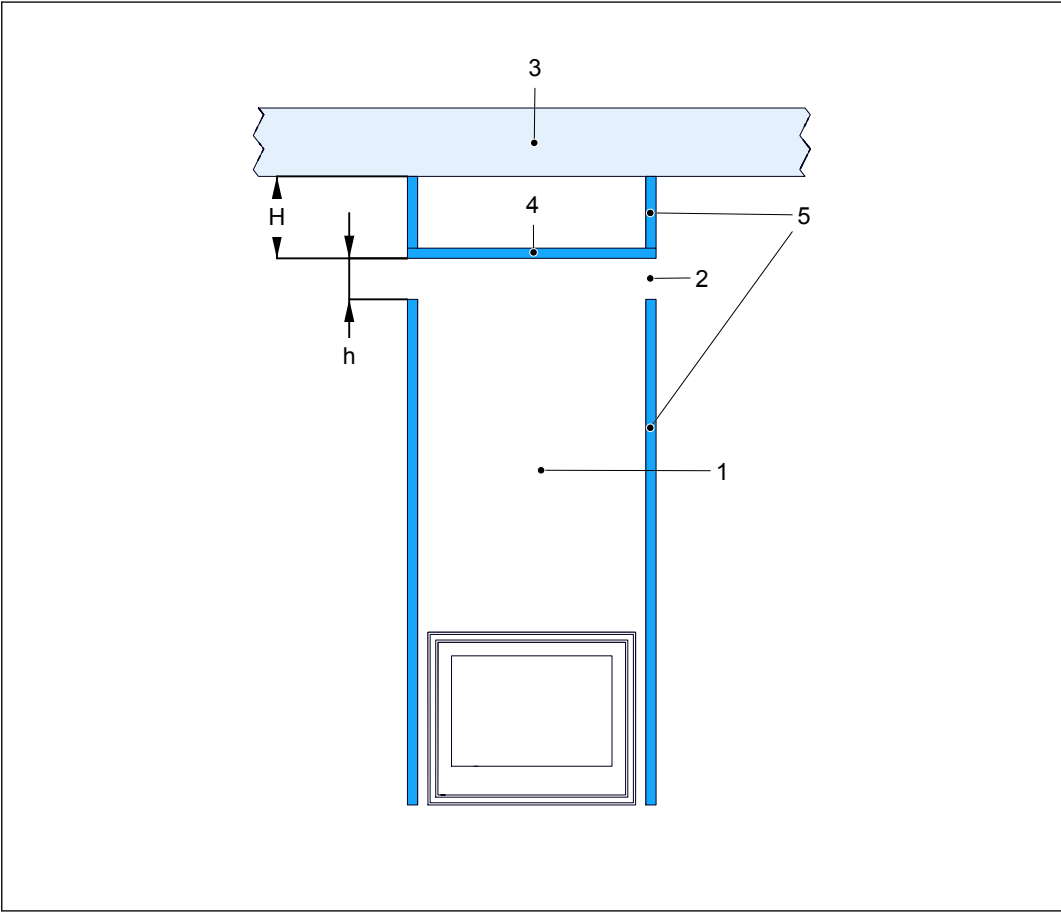
Put a non-flammable insulation plate (false ceiling) of minimum 7.5 cm thickness at a height of minimum 50 cm above the appliance. Keep a free space of minimum 50 cm ( $d_C$ ) between the insulation plate and the flammable ceiling.

Alternative without a false ceiling: Make an open space of minimum 50 cm height ( $d_C$ ) between the chimney enclosure top side (complete width and depth of the enclosure) and the flammable ceiling.

The figure shows the minimum thickness of the insulation plates and the minimum clearances to a flammable ceiling

Make sure the total area of the convection air outlet openings is minimum 440 cm<sup>2</sup>.

Obey the dimensions mentioned in the tabel under the figure.



- 1

Chimney enclosure
- 2

Convection air outlet opening
- 3

Flammable ceiling
- 4

Insulation plate (false ceiling)
- 5

Insulation plates

|   |                                                                                                   | With false ceiling                                                            | Without false ceiling                                                                                                                       |
|---|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| h | Area of the convection air outlet opening                                                         | Minimum 300 cm <sup>2</sup>                                                   | Minimum 50 cm open space between ceiling and chimney enclosure                                                                              |
| H | Height of the false ceiling<br>minimum distance convection air outlet opening - flammable ceiling | Minimum 57.5 cm (= 50 cm free space (d <sub>C</sub> ) + 7.5 cm false ceiling) | Not applicable (the top side of the chimney enclosure is open with a clearance of minimum 50 cm (d <sub>C</sub> ) to the flammable ceiling. |

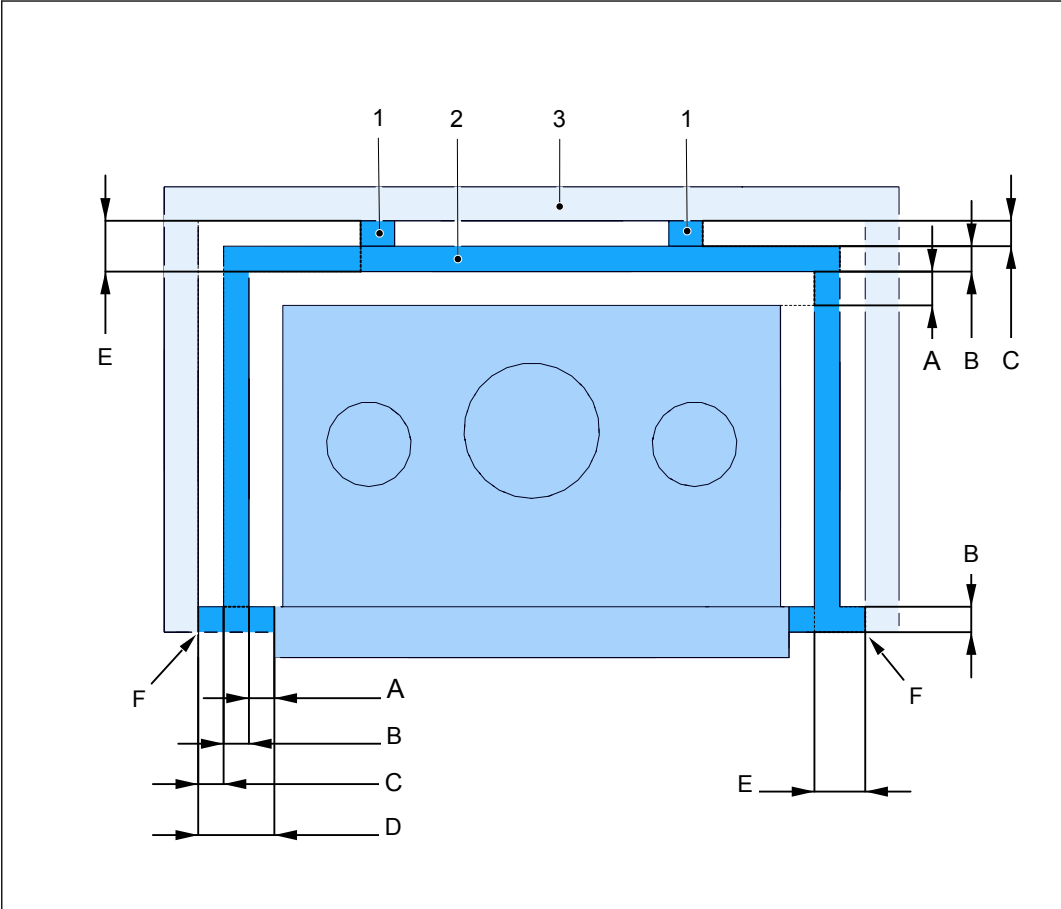
5.5 Clearances to non-flammable walls



**Caution:** Make sure there is a 3 mm clearance between the appliance and the surrounding construction, to allow for expansion of the appliance during use.

Put a non-flammable insulation plate between the appliance and the rear wall and side wall according the figure hereunder.

Obey the requirements as mentioned in the table hereunder.



- 1

Non-flammable spacer
- 2

Non-flammable insulation plate
- 3

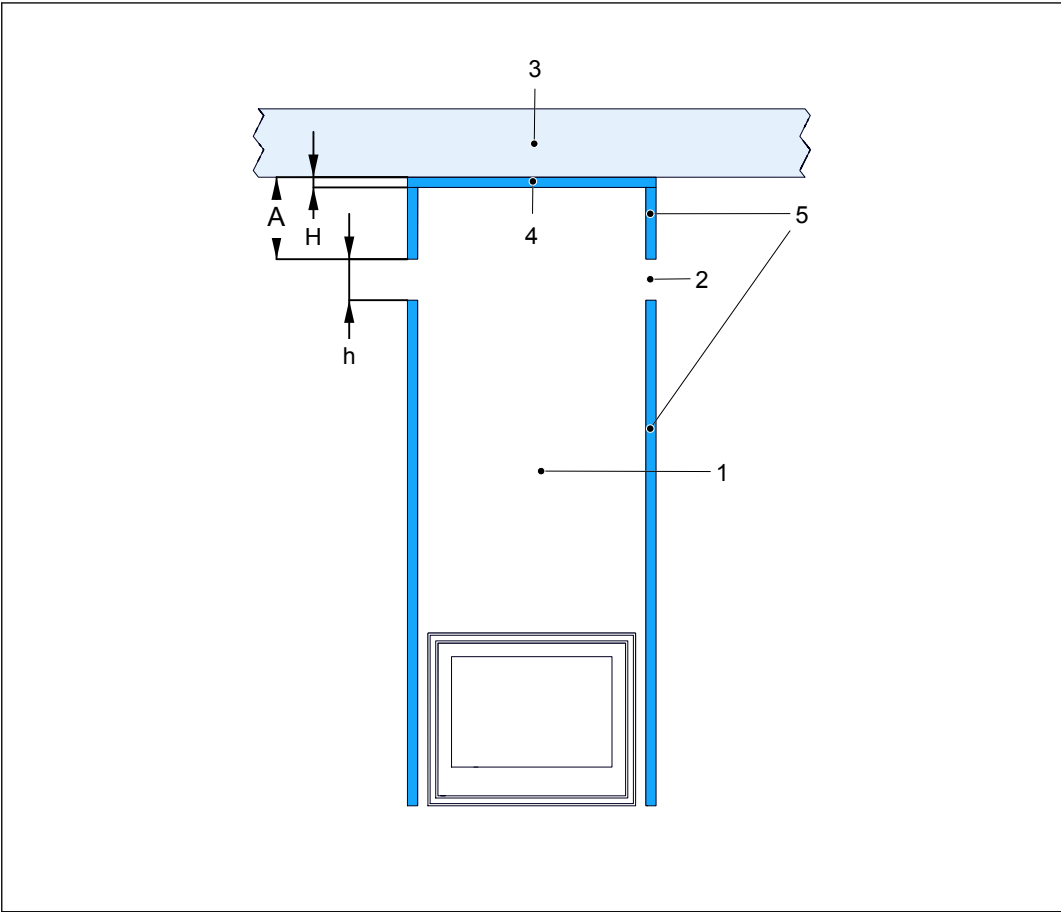
Non-flammable wall

| Item |                                                                       | Dimension |
|------|-----------------------------------------------------------------------|-----------|
| A    | Air gap                                                               | 2 cm      |
| B    | Thickness plate                                                       | 2.5 cm    |
| C    | Air gap / Spacer                                                      | 2 cm      |
| D    | A+B+C                                                                 | 6.5 cm    |
| E    | B+C                                                                   | 4.5 cm    |
| F    | Minimum 3 mm clearance between appliance and surrounding construction |           |

5.6 Clearances to a non-flammable ceiling

Put a non-flammable insulation plate (false ceiling) of minimum 5 cm thickness at a height of minimum 50 cm above the appliance.

Obey the dimensions mentioned in the tabel hereunder.



- 1

Chimney enclosure
- 2

Convection air outlet opening
- 3

Non-Flammable ceiling
- 4

Insulation plate (false ceiling)
- 5

Insulation plates

|   |                                                            | Dimensions                               |
|---|------------------------------------------------------------|------------------------------------------|
| h | Area of the convection air outlet opening                  | Minimum 300 cm <sup>2</sup>              |
| H | Height of the false ceiling                                | Minimum 5 cm (= thickness false ceiling) |
| A | Distance between convection air outlet opening and ceiling | Minimum 50 cm                            |

## 5.7 Mantel clearances



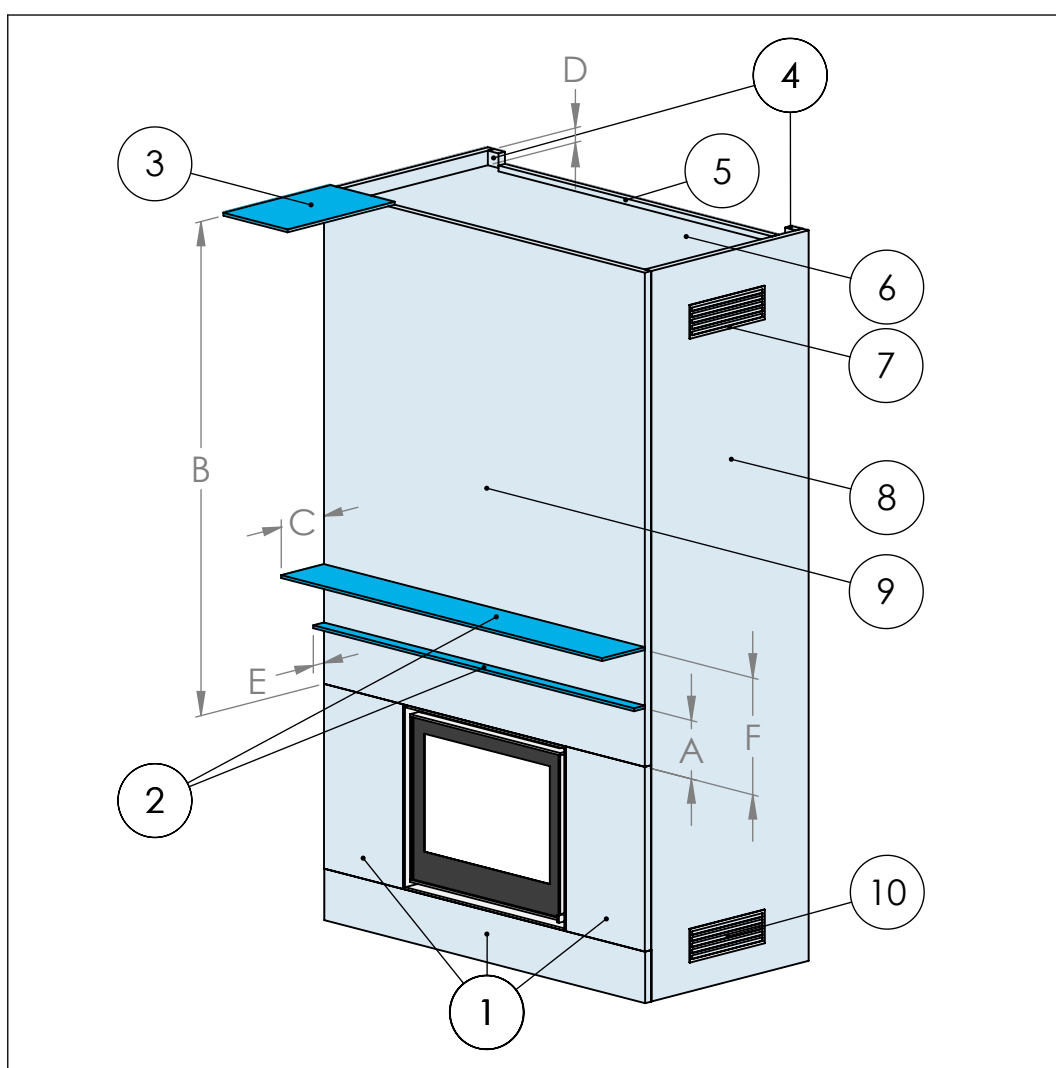
### Caution:

All insulation plates in this section must be made of non-flammable material.

Put a mantel piece of flammable material minimum 20 cm from the top and sides of the appliance

If a wooden beam is present directly above the appliance, make sure to protect it against direct heat radiation. Make sure to put a non-flammable insulation plate with a thickness of minimum 3 cm between the wooden beam and the appliance. with an air gap of minimum 1 cm between the insulation plate and the wooden beam.

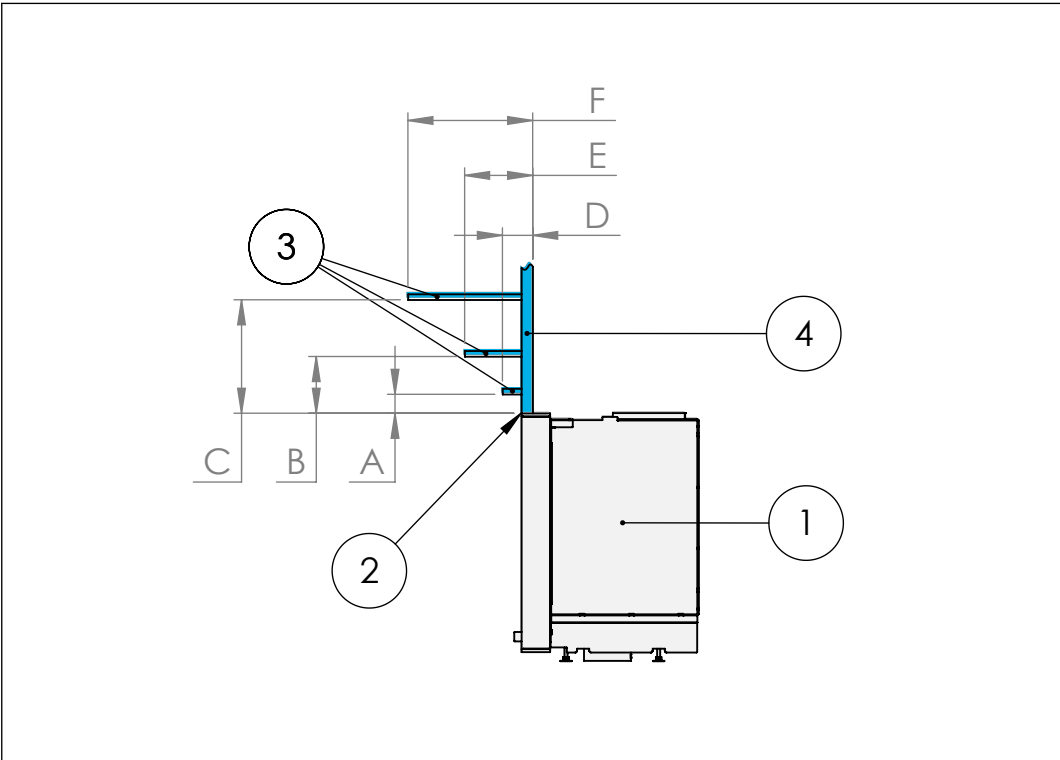
The pictures below show the minimum clearances between mantel pieces and the appliance.



- 1 Insulation plate
- 2 Flammable mantel piece
- 3 Ceiling
- 4 Non-flammable spacer
- 5 Insulation plate back panel

- 6 Non-flammable false ceiling
- 7 Convection / ventilation air outlet openings. Total minimum 440 cm<sup>2</sup>
- 8 Insulation plate side panel
- 9 Insulation plate front panel
- 10 Convection / ventilation air inlet openings. Total minimum 220 cm<sup>2</sup>

|   |                                                                                                |
|---|------------------------------------------------------------------------------------------------|
| A | Minimum 20 cm from top of glass                                                                |
| B | Flammable ceiling: minimum 100 cm from glass / Non flammable ceiling: minimum 50 cm from glass |
| C | Mantel piece depth maximum 20 cm                                                               |
| D | Flammable ceiling: minimum 50 cm / Non flammable ceiling: minimum 0 cm                         |
| E | Mantel piece depth: maximum 5 cm                                                               |
| F | Minimum 40 cm from top of glass                                                                |



- 1

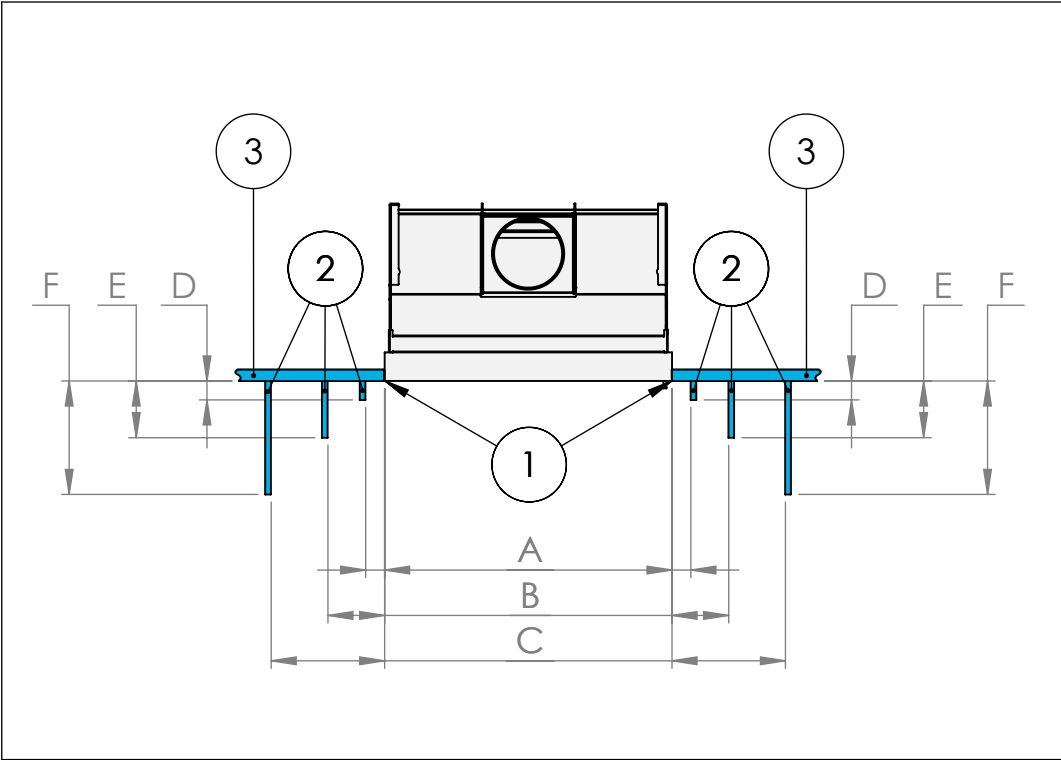
Appliance
- 2

Top of appliance
- 3

Flammable mantel piece
- 4

insulation plate

| Height of mantel piece |       | Depth of mantel piece |       |
|------------------------|-------|-----------------------|-------|
| A                      | 20 cm | D                     | 5 cm  |
| B                      | 30 cm | E                     | 10 cm |
| C                      | 40 cm | F                     | 20 cm |

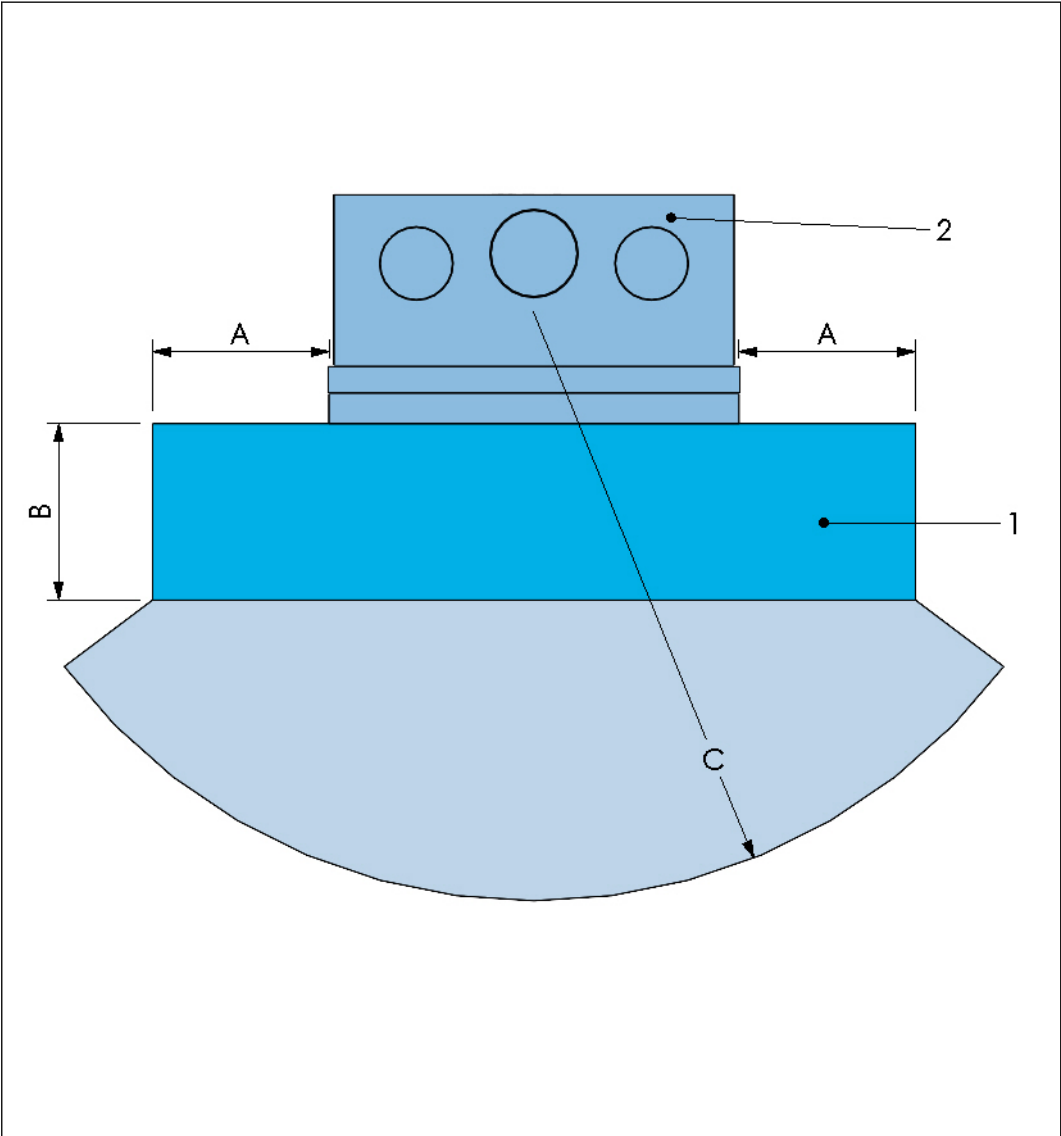


- 1 Side of appliance  
2 Flammable mantel piece  
3 Insulation plate

| Width of mantel piece |       | Depth of mantel piece |       |
|-----------------------|-------|-----------------------|-------|
| A                     | 20 cm | D                     | 5 cm  |
| B                     | 30 cm | E                     | 10 cm |
| C                     | 40 cm | F                     | 20 cm |



5.8 Clearances in front of the appliance



1 Non-flammable floor plate                      2 Appliance

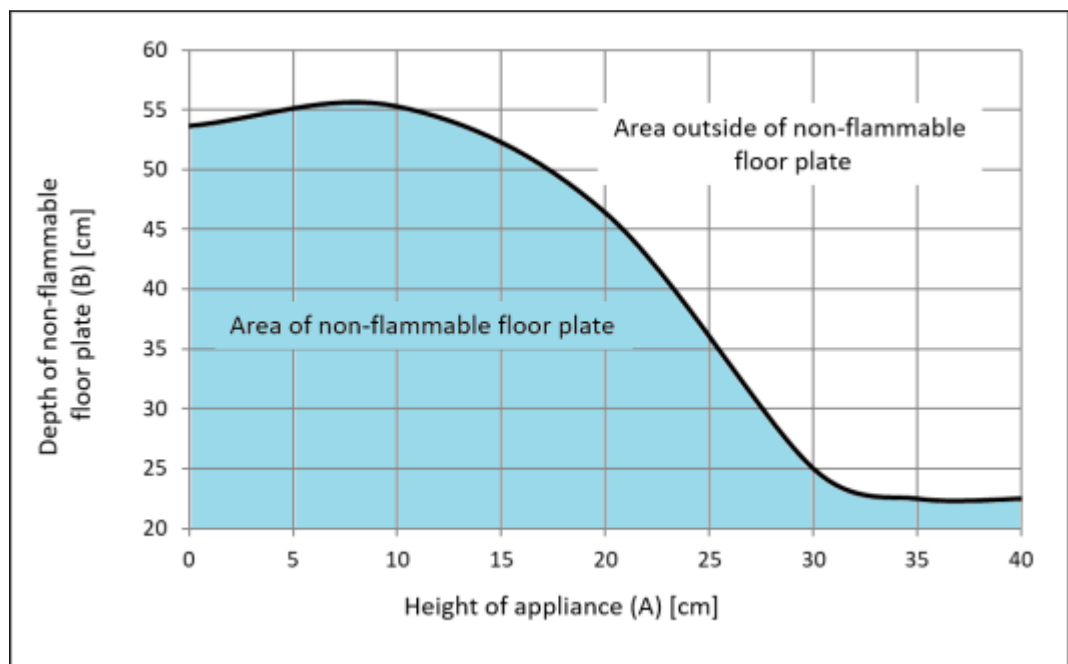
Put a non-flammable floor plate with a minimum thickness of 12 mm in front of the appliance above a flammable floor. The depth of the floor plate is dependent on the vertical distance between the bottom of the appliance and the floor.

The non-flammable floor plate must have a width that extends minimum 150 mm from each side of the appliance.



**Note:** A transparant glass plate is not suitable as floor plate.

|   |                                                                                                                                                       |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | Minimum 15 cm from the sides of the appliance.                                                                                                        |
| B | Minimum depth of the non-flammable floor plate (see graph for exact depth).                                                                           |
| C | Minimum 80 cm clearance ( $d_L$ ) to the side radiation area of the appliance.<br>Mnimum 160 cm ( $d_p$ ) clearance direct in front of the appliance. |



1. Measure the distance between the floor and the bottom of the visible part of the appliance. This is the distance when the appliance is built into a fireplace surround.
2. Read on the vertical axis of the graph the minimum depth of the non-flammable floor plate.

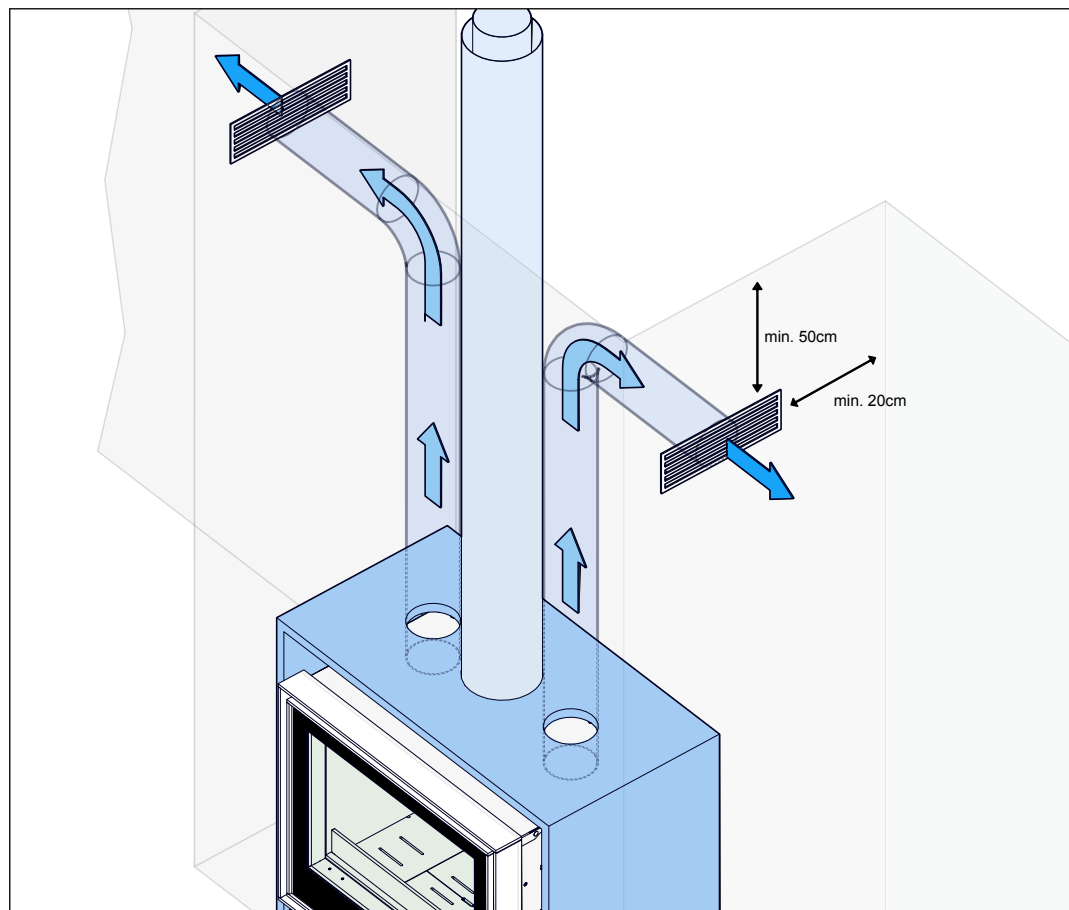
**Example to find the correct minimum depth of a non-flammable floor plate**

If the measured distance between the bottom of the visible part of the appliance is 20 cm, according to the graph the minimum depth of the floor plate is 47 cm.

## 6 Installation requirements

### 6.1 Requirements on the installation of the appliance in a new fireplace

- Make sure the floor is made of concrete or a solid pedestal of nonflammable material.
- Make sure that the floor temperatures under and in front of the appliance are maximum 85 °C, during use of the appliance. Refer to section 5.3 and section 5.8.
- Make sure that the location agrees with the safety requirements. Refer to section 4.1.
- Do not install the appliance against a combustible rear wall or combustible side wall.
- Make sure to obey the clearances as listed in section 5.
- Make sure the floor can support the weight of the appliance. Refer to section 9 for the weight of the appliance.
- Make sure the room where the appliance is installed is properly ventilated.
- Make sure that combustion air can flow into the appliance without obstruction.
- If applicable, install a valve in the external combustion air pipe.
- If the appliance is equipped with the optional convection ventilator, the combustion air must be supplied from outside through a flexible aluminum pipe to the appliance.
- Make sure there is an earthed wall socket for the power supply of the convection ventilator. This socket must be accessible at all times.
- Make sure the distance between the convection air outlet openings and the ceiling above is minimum 50 cm.
- Make sure the distance between the convection air outlet openings and a neighboring wall is minimum 20 cm.



- The fireplace must have ventilation openings near the bottom and near the top of the fireplace to avoid heat accumulation in the fireplace. Refer to section [6.4](#) for specifications.
- The carbon monoxide alarm must be fitted and fixed in place within the same room as the appliance and can be placed either on the ceiling or wall between 1 meter and 3 meter horizontally from the appliance. If fitting to the ceiling it must be at least 300mm from any wall. If fitting to a wall, it must be placed as high as possible above any doors or windows at 150mm below the ceiling.

## 6.2 Requirements on the chimney

- Make sure the design and installation of the chimney is in accordance with EN 15287-2:2008, EN 13384-1:2015+A1:2019 and the good operation of the chimney is proven according EN 13384-2:2015+A1:2019 for the situation on site.
- Make sure that in case of use of an existing (masonry) chimney, it is in good order and applicable for the appliance. Ask your dealer or chimney sweeper for advice.
- Make sure the flue system obeys the national and local applicable regulations.
- Make sure the weight of the chimney is not supported by the appliance.
- Only connect the appliance to a chimney that is also connected with other appliances if it is permitted by local regulations and if the chimney allows to connect multiple appliances to it. Ask your installer for advice.
- The flue system must have a temperature class designation of minimum T400.
- The inner diameter of the chimney must be minimum 180 mm over the total length.
- Use a steel chimney pipe with a wall thickness of minimum 2 mm between the appliance and the existing chimney.
- Do not use more than 2 bends of 45°.
- Do not use horizontal flue pipes.
- The chimney outlet must be minimum 6 meter above the top of the appliance.
- The chimney outlet must be minimum 40 cm above the top of a sloped roof.
- The chimney outlet must be minimum 1 meter above a flat roof.
- The chimney outlet must be free from any objects (buildings, trees, etc.) within a horizontal range of minimum 5 meter.
- Make sure to remove the chimney valve when present in the existing chimney.
- Make sure your fire insurance policy covers any damage caused by a chimney fire.

## 6.3 Requirements on the external combustion air pipe

- Make sure the external combustion air pipe obeys the national and local applicable regulations.
- The inner diameter of the combustion air pipe must be minimum 125 mm over the total length.
- Use a flexible stainless steel or aluminum pipe.
- The maximum length of the external combustion air pipe is 5 meter.
- Do not use more than 1 bend of 90°.
- Make sure to cover the inlet of the external combustion inlet pipe with a suitable grate.
- It is recommended to install a valve in the external combustion air valve, to avoid debris of fallen leaves in the line and to avoid water vapour condensation in the appliance.

## 6.4 Requirements on the ventilation/convection air openings

- Install the following minimum openings in the fireplace enclosure to prevent overheating of the appliance and fireplace enclosure.

| Ventilation/<br>convection air <u>in-</u><br><u>let</u> opening<br>at the bottom of<br>the fireplace en-<br>closure | Ventilation/convection air <u>outlet</u> opening<br>at the top of the fireplace enclosure |                                                              |                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                     | Appliance <u>with-</u><br><u>out</u> convection<br>casing                                 | Appliance <u>with</u> convection casing                      |                                                                                                                                        |
|                                                                                                                     |                                                                                           | Openings at the top of<br>the convection casing<br>are open. | 2 openings at the top of<br>the convection casing con-<br>nected with flexible convec-<br>tion pipes Ø125mm to 2 out-<br>let openings. |
|                                                                                                                     |                                                                                           |                                                              | Convection air via 2 flexible<br>convection pipes: Minimum<br>net 220 cm <sup>2</sup>                                                  |
|                                                                                                                     |                                                                                           |                                                              | Ventilation air via the inside<br>of the fireplace enclosure:<br>Minimum net 220 cm <sup>2</sup>                                       |
| 220 cm <sup>2</sup> (*)                                                                                             | 440 cm <sup>2</sup> (**)                                                                  | 440 cm <sup>2</sup> (**)                                     | Total 440 cm <sup>2</sup> (**)                                                                                                         |

The ventilation/convection air openings can be realized with the decorative 'BARBAS AirBox' insert air vents, by using:

- (\*): 2x Barbas AirBox 160
- (\*\*): 2x Barbas AirBox 320

| BARBAS AirBox | Model                 | Air vent opening surface |
|---------------|-----------------------|--------------------------|
| AirBox 160    | Insert Frameless      | 110 cm <sup>2</sup>      |
|               | Insert Slim Frame     |                          |
|               | Insert Classic Frame  |                          |
|               | Insert Built-in Frame |                          |
| AirBox 320    | Insert Frameless      | 220 cm <sup>2</sup>      |
|               | Insert Slim Frame     |                          |
|               | Insert Classic Frame  |                          |
|               | Insert Built-in Frame |                          |

Refer to sections [10.6](#) and [10.7](#) for the dimensions of the AirBox.

## 7 Installation in a new fireplace

### 7.1 Install the appliance - general procedure

1. Prepare the appliance. Refer to section [7.2](#).
2. Install the appliance. Refer to section [7.3](#).
3. Horizontally align the appliance. Refer to section [7.4](#).
4. If applicable, make the electrical connection. Refer to section [7.5](#).
5. Connect the flue gas pipe. Refer to section [7.6](#).
6. If applicable, connect the external combustion air supply pipe. Refer to section [7.7](#).
7. If applicable, connect the convection system. Refer to section [7.8](#).
8. Insulate the appliance. Refer to section [7.9](#).
9. Build the fireplace. Refer to section [7.10](#).
10. Do a final check. Refer to section [7.11](#).

### 7.2 Preparation for installation



**Warning:**

- The electrical connections must be made by a certified electrician.
- The optional convection ventilator needs a 230 VAC electrical power supply near the installation location. Make sure to have a grounded electrical power supply for the convection ventilator.
- Make sure the electrical connections can always be accessed.
- Make sure the door of the appliance opens and closes correctly.
- Make sure the baffles are in the correct position
- Make sure the control lever can move freely to left and to right.
- Make sure the ashtray is empty.

### 7.3 Install the appliance



**Caution:** Do not lift the appliance with any kind of forklift. This will cause damage to the underside of the appliance.



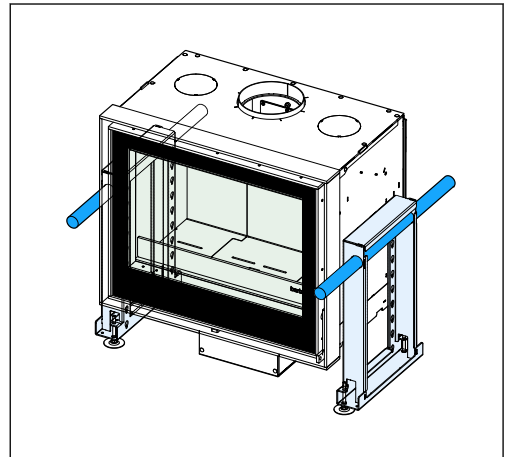
**Caution:** If the appliance is installed against a flammable rear and/or side wall, precautions must be taken to prevent accidental fire. Refer to section [5.2](#) for a description of suitable precautions.

1. If applicable, put carrying tubes (Ø38 mm) in the optional adjustable height frames. You can use the carrying tubes to move the appliance.



**Note:** The carrying tubes are not included with the appliance.

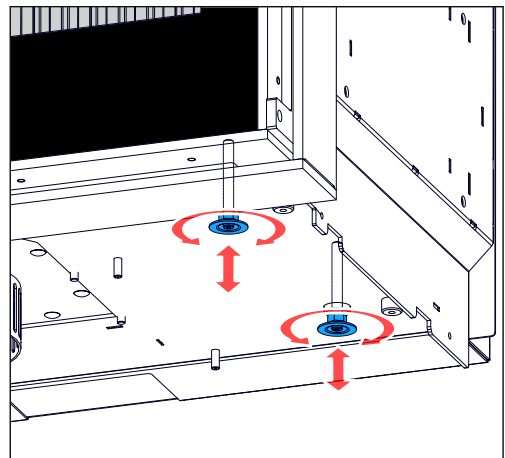
2. Install the appliance. Make sure the distance between the appliance and rear wall is approximately 10 cm minimum.
3. Make sure there is minimum 3 mm gap between the bottom of the air box and the floor.
4. Remove the carrying tubes.
5. Make sure the door opens and closes correctly.
6. Refer to section [5.2](#) for measures to be taken when installed against a flammable rear and/or side wall.



## 7.4 Horizontally align the appliance

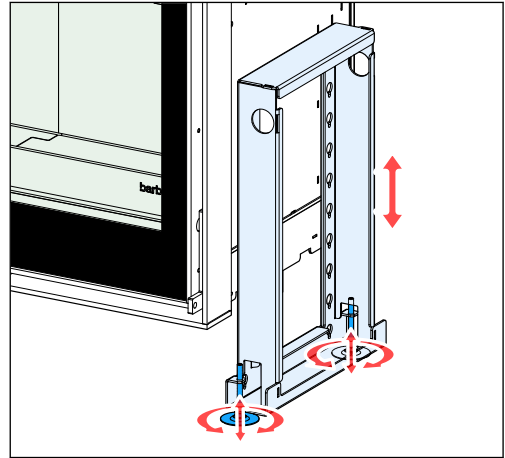
### 7.4.1 Aligning with adjustable feet

1. Adjust the adjustable feet. Use a 13 mm fork spanner.
2. Align the appliance horizontal. Use a spirit level.



### 7.4.2 Aligning with adjustable height frame

1. If applicable, disconnect the 2 height frames and connect these again on the required height on the appliance. Use a 10 mm socket spanner for the 4 screws. Make sure to attach each height frame with all 4 screws.
2. Adjust the 4 adjustable feet with a 13 mm fork spanner until the appliance is level. Use a spirit level.



### 7.5 Connect the convection ventilator (optional)



**Caution:**

- Use a wall socket with an earth connection.
- The socket must be accessible at all times.



**Note:** Refer to section [9.2](#) for the connection scheme.

1. Connect the 2 earth wires (yellow/green) with each other.
2. Connect the 2 neutral wires (blue) with each other.
3. Connect the two line wires (brown) to the connectors marked L and M on the dimmer.
4. Connect the 230 VAC plug of the convection ventilator with the wall socket.
5. Make sure that the cables do not touch the appliance, due to the high temperatures of the appliance.
6. Make sure the convection ventilator works by turning the dimmer knob.

### 7.6 Connect the flue gas pipe

The appliance can be connected to steel pipes, double-walled insulated stainless steel flues and flexible stainless steel flues with an outside diameter of 180 mm.

**Preliminary requirements**

- If the appliance is installed on an unlined, masonry flue with a large diameter, use an insulated flue lining system .

**Preliminary requirements**

- Make sure the design and installation of the chimney is in accordance with EN 15287-2:2008, EN 13384-1:2015+A1:2019 and the good operation of the chimney is proven according EN 13384-2:2015+A1:2019 for the situation on site.





**Caution:**

- During operation of the appliance the outer side of the flue system becomes hot. Refer to the installation instructions of the flue system for safe installation. Follow these instructions with regard to safe distances to combustible material.

**Procedure**

1. Connect the flue to the flue gas connection on the appliance. If necessary use a steel flue adaptor.
2. If a flexible stainless steel flue is used, secure the flue connection with 2 clamps.
3. If the flue is connected to an existing (masonry) chimney, make sure that the gap between the flue and the existing chimney is sealed, with ceramic wool or any other applicable component (ask your flue system supplier for advice)
4. Make sure that all mechanical connections of the flue system are correctly used.
5. Make sure that all of the flue system is gas-tight,
6. Insulate any non-insulated pipes with ceramic insulation wool. Refer to section 5.1 for the insulating material requirements.

## 7.7

### Connect the external combustion air supply



**Warning:**

Make sure to always remove a break out plate from the combustion air inlet box. Make sure to do this also when the appliance has combustion air supply from the installation room.



**Note:**

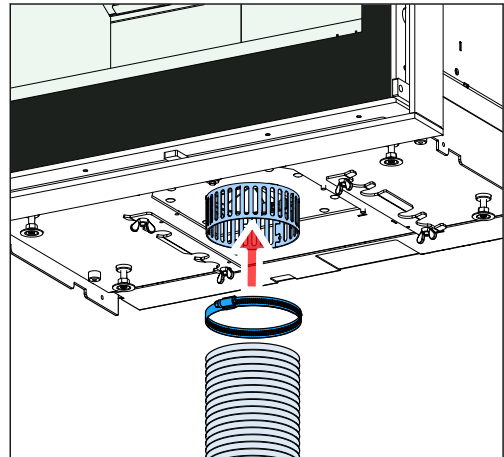
- It is possible to install the appliance without external air supply and take combustion air from the installation room. If so, make sure the combustion air inlet on the appliance is not blocked and the ventilation air inlets are according the requirements. Refer to section 6.4 for dimensions of the ventilation air openings.
- The appliance is a room-sealed appliance when combustion air comes from the outer side of the building through a flexible pipe that is connected to one of these:
  - the combustion air inlet under the appliance.
  - the combustion air inlet on the combustion air box.
  - the combustion air inlet on the convection ventilator / combustion air box.
- If not connected to one of these three possibilities, the appliance is not a room-sealed appliance and the data for leak tightness as given in section 9 are not valid.
- It is strongly recommended to install a valve in the external combustion air supply pipe, to avoid debris in the pipe and to avoid water vapor condensation in the appliance when not in use.
- Connection direct under the appliance, refer to section 7.7.1.
- Connection on the combustion air box, refer to section 7.7.2.

#### 7.7.1

#### Connection direct on the appliance

1. Make a hole in the outer wall or floor with a diameter of minimum 125 mm.
2. Install a grate in the hole in the outer wall. A grate is not needed when the combustion air supply comes from the crawl space under the floor.

3. Put a 125 mm flexible aluminum pipe over the combustion air supply connector
4. Secure the connection with a clamp.
5. To make the connection leak tight, apply a sealing compound (e.g. silicone sealant or similar) between the air supply connector and the connection ring.
6. Connect the other end of the flexible aluminum pipe with the hole in the floor of with the grate in the wall. Use a suitable connector.



## 7.7.2

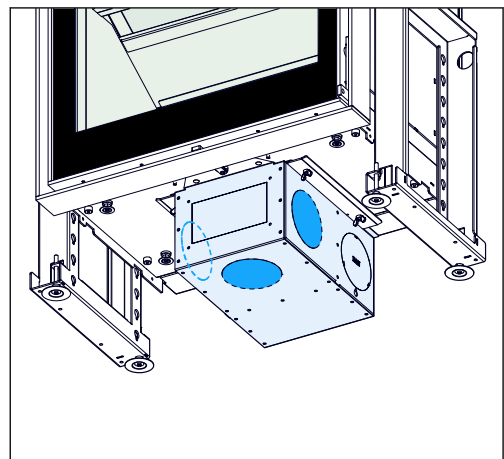
### Connection on the combustion air box

1. Identify the location in the outer wall or in the floor (to a ventilated crawl space) for the external combustion air supply inlet.
2. Make a hole in the outer wall or floor with a diameter of minimum 125 mm.
3. Install a grate in the hole in the outer wall. A grate is not needed when the combustion air supply comes from the crawl space under the floor.

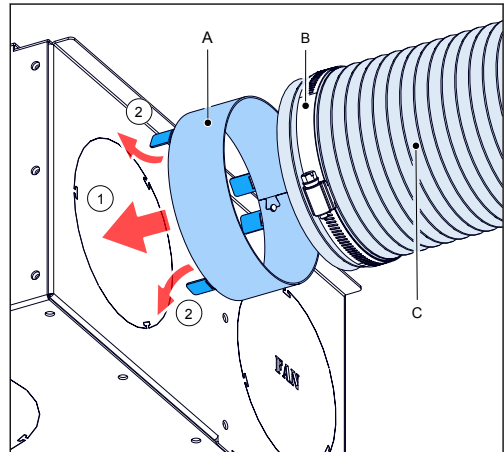


**Note:** The image shows the combined convection ventilator / combustion air inlet box.

4. If applicable, select one of the 3 inlet openings on the left, right or bottom of the optional combustion air inlet box or the convection ventilator / combustion air inlet box .
5. Remove the break out plate in the selected inlet opening of the optional convection air/ combustion air inlet box with a hammer.



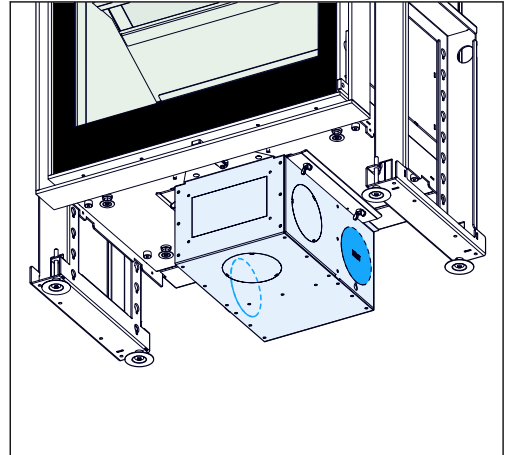
6. Put the connection ring in the open inlet opening (1).
7. Bend out the 3 lips on the connection ring (2) and turn the connection ring until it locks.
8. To make the connection leak tight, apply a sealing compound (e.g. silicone sealant or similar) between the air supply connector and the connection ring.



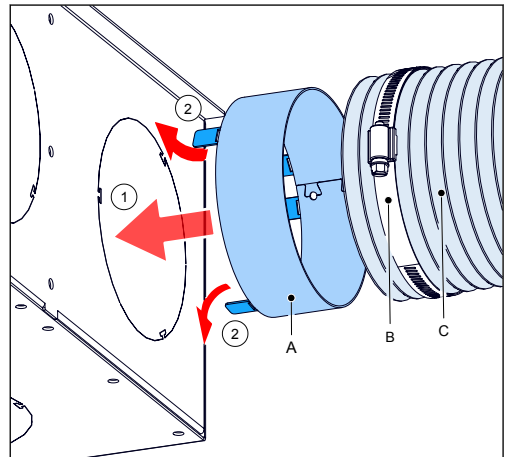
9. Connect a flexible aluminum pipe (C) with a diameter of 125 mm on the connection ring. Use a hose clamp (B).
10. Connect the other end of the flexible aluminum pipe with the hole in the floor or the grate in the wall. Use a suitable connector.

## 7.8 Connect the convection set (optional)

1. On the convection air box select one of the 2 inlet openings, identified by FAN, on the left or right side.
2. Remove 1 break out plate in the selected convection air inlet opening with a hammer.



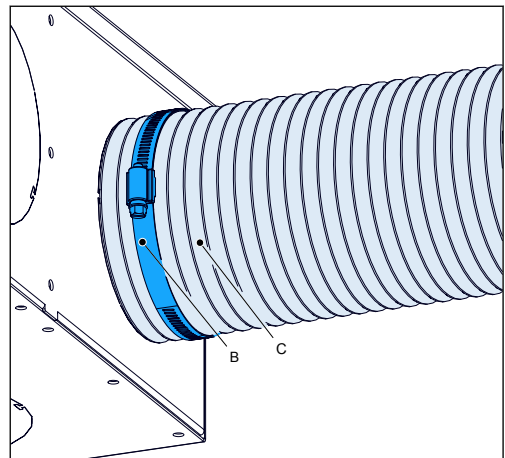
3. Put the connection ring in the open inlet opening (1).
4. Bend out the 3 lips on the connection ring (2) and turn the connection ring until it locks.



5. Connect a flexible aluminum pipe (C) on the connection ring. Use a hose clamp (B).

The convection air outlet can go via the front of the appliance and/or the top of the appliance.

- Outlet of the convection air at the front of the appliance: refer to section [7.8.1](#).
- Outlet of the convection air on top of the appliance: Refer to section [7.8.2](#).



### 7.8.1 Convection air via the front of the appliance

The appliance air outlet openings on the front of the appliance are open on delivery of the appliance. Do the procedure hereunder to close the convection air openings on the front of the appliance.

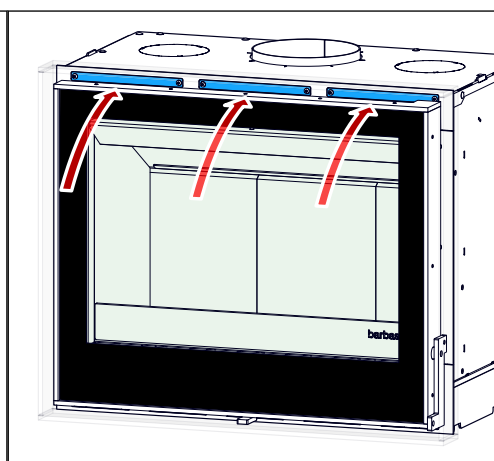
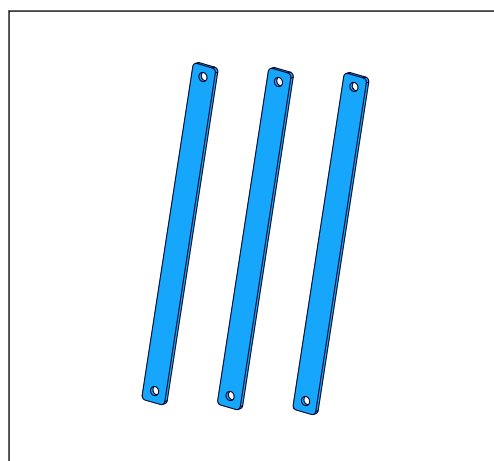
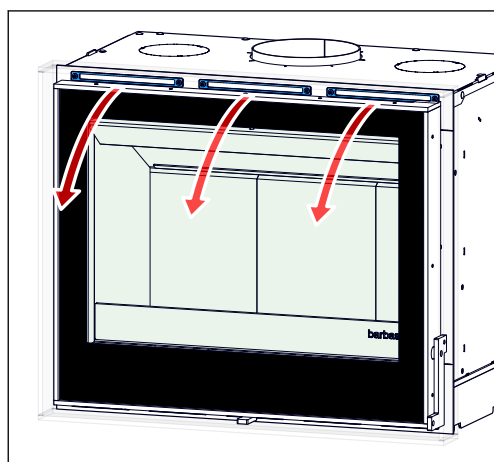


**Caution:** if you close the openings on the front of the appliance, make sure to open the convection air openings on top of the appliance. Refer to section [7.8.2](#). To not obey this can cause damage to the appliance.



**Note:** A convection ventilator causes a strong air flow from the front outlet openings. To reduce this flow, open the convection air outlet openings on top of the appliance. Refer to section [7.8.2](#).

1. To open the 3 convection air outlet openings, remove the 3 strips with a hexagonal key. Keep the screws.

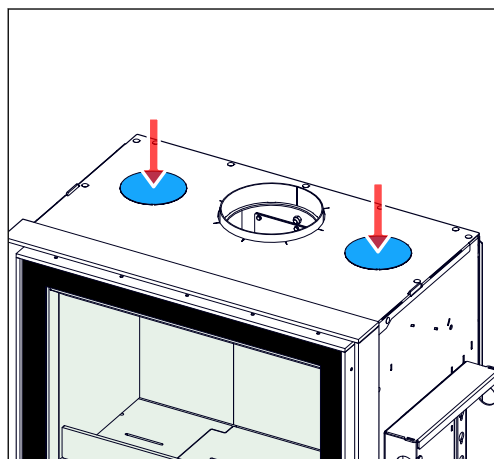


2. To close the 3 convection air outlet openings, attach the 3 metal closure strips with the screws on the appliance.

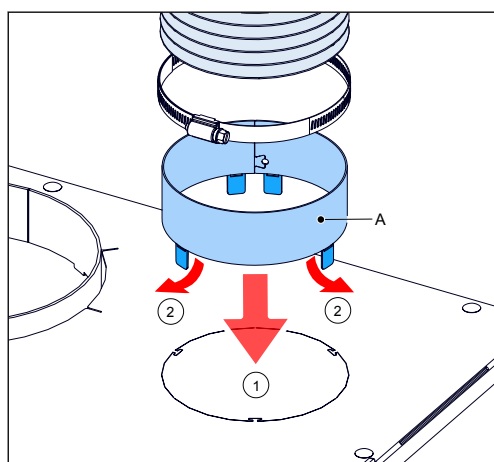
### 7.8.2 Convection air via the top outlet openings

To close the convection air openings at the front of the appliance, refer to section [7.8.1](#).

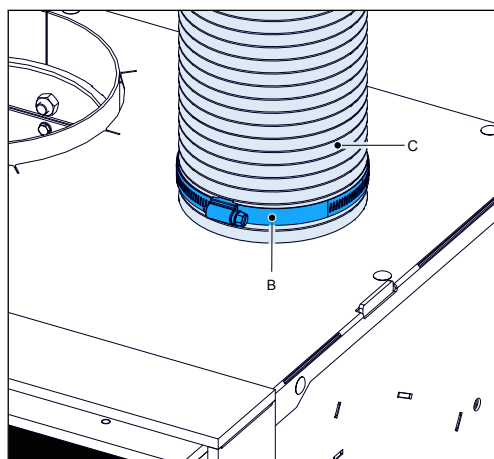
1. On the appliance, remove the two break out plates in the convection air outlet openings with a hammer.



2. Put the connection rings in the open outlet openings (1).
3. Bend out the 3 lips on each connection ring, and turn the connection ring until it locks.



4. Connect the flexible aluminum pipes (C) on the connection rings. Use a hose clamp (B).



5. Connect the flexible aluminum pipes to the decorative "BARBAS AirBox" in the chimney breast.

## 7.9

### Insulate the appliance



#### Caution:

- Use white unbound ceramic insulation wool. Do not use glass wool or rock wool, these materials can cause a bad smell, unwanted smoke and is not applicable for high temperatures. Refer to section 5.1 for the specifications.

- Put a ceramic wool blanket with a thickness of at least 5 cm on the top of the appliance and the sides and back of the appliance.
- Keep approximately 10 cm free of insulation material between the front of the appliance and the front of the fireplace. This space is needed for the build of the fireplace.

## 7.10 Build the fireplace



### Caution:

- Refer to section 5 for clearances to flammable and non-flammable materials.
- Refer to section 5.1 for applicable insulating plates.
- Make sure that brickwork is build with a clearing of minimum 3 mm between the sides and top of the appliance and the brickwork. The appliance can expand during operation due to heating.



### Note:

- Make sure the thickness of any plastering is taken into account when the brickwork is being build.
  - Do not use masking tape on the appliance. Masking tape damages the paint on the appliance.
  - If you use other material than bricks, install the material in accordance with the instructions of the supplier of the material
  - If you use other material than bricks, refer to the instructions of the supplier of the used material for information on the need to use a mantle iron.
1. Identify the positions where the inlet openings and the outlet openings, for the AirBox inserts or the grates, must be put. Refer to section 6.4 for requirements on the size of the ventilation air and - if applicable - convection air openings. Refer to 5 for requirements on minimum distances from ceiling and neighboring wall.
  2. Build the brickwork around the appliance up to the upper frame around the glass.
  3. Install the AirBox boxes or grates of the ventilation air inlets and - if applicable - the convection air inlets.
  4. If applicable, install a mantle iron to support the brickwork above the appliance. Put the mantle iron on both sides of the brickwork. Maintain a space of minimum 3 mm between the appliance and the mantle iron.
  5. If applicable, install the flexible aluminum pipes of the convection set. Refer to section 7.8.
  6. Build the fireplace around the appliance.
  7. Install the AirBox boxes or grates of the ventilation air outlets and - if applicable - convection air outlets.
  8. Install the frame around the appliance.

## 7.11 Final check on the appliance



### Caution:

Wait 4 weeks after the installation before you use the appliance. The cement used for the fireplace needs to harden and to avoid damage to the plaster work.

1. Make sure the door closes and opens easy.
2. If applicable, make sure the control lever moves easy to left and right without undue noise.

3. Make sure all combustion chamber panels and the baffles are in the correct position.
4. Contact your dealer if the final check shows a defect.

## 8 Maintenance

**Warning:**

Make sure that the appliance has cooled down completely before doing the procedures in this section.

Do all procedures in this section when necessary.

### 8.1 Appliance

1. Remove ashes from the floor of the combustion chamber.
2. Examine the door seals. Replace damaged seals.
3. Remove the bottom plates, the grate and empty the ash tray. Refer to section [8.5](#) for the procedure to remove the bottom plates.
4. Remove the ashes from the bottom of the combustion chamber. Make sure there are no ashes on the air valve.
5. Examine the two baffles for damage. Replace when damaged. Refer to section [8.6](#) for access to the baffles.
6. Clean both sides of the glass with glass spray or ceramic hob cleaner.
7. Clean the inside of the appliance with a soft brush.
8. Clean the metal parts on the outside of the appliance with a dry lint free cloth. Use Barbas heat resistant paint spray to repair lacquer damage.
9. Install the bottom plates, ash tray and grate. Refer to section [8.7](#) for the installation procedure.

### 8.2 Combustion air supply

1. Make sure that the inlet of the pipe of the external combustion air supply is not blocked by leaves or other debris.
2. Clean the inlet of the pipe of the external combustion air supply.

### 8.3 Convection air system

**Preliminary requirements**

- Do the procedure in this section only when a convection air system has been installed.

**Procedure**

1. Clean the 2 inlet openings of the convection air in the chimney breast.
2. Clean the 2 outlet openings of the convection air in the chimney breast.

### 8.4 Chimney

**Note:**

It is recommended to contact a registered chimney sweep company to inspect and clean the chimney.

1. Remove the heat shield, lower baffle and upper baffle before the chimney sweep work. Refer to section [8.6](#) for the procedure to remove the heat shield and the baffles.
2. Sweep and inspect the chimney



3. Make sure there is no blockage in the chimney, for example by birds' nests.
4. Examine for cracks, loose parts and flue gas leakage. It is recommended to use an inspection camera.
5. Install the heat shield, lower baffle and upper baffle. Refer to section [8.8](#) for the procedure to install the heat shield and the baffles.

## 8.5

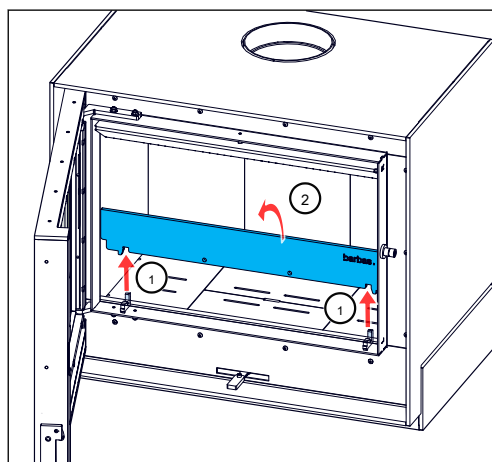
### Removal of the bottom plates, grate and ash tray



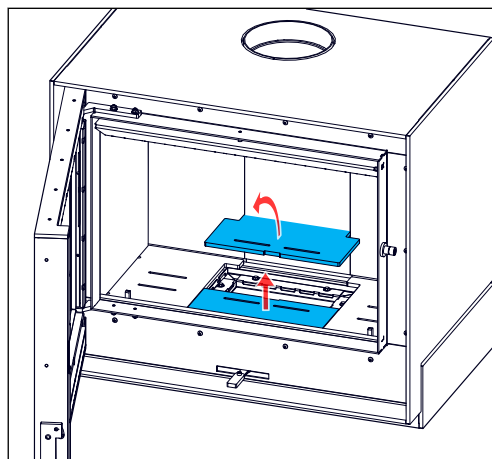
**Note:**

Make sure to remove all ashes and unburnt wood from the combustion chamber before the start of this procedure.

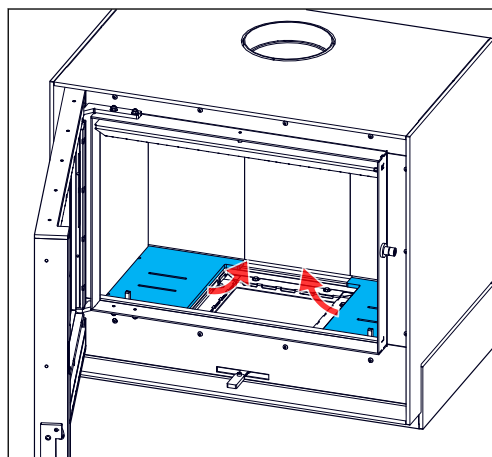
1. Lift the front log guard (1) and move the left side up.
2. Remove the front log guard (2)



3. Lift the 2 grate plates and remove from the combustion chamber.



4. Move the 2 steel bottom plates to the center of the fireplace bottom.
5. Lift the steel bottom plates up and remove.



## 8.6 Removal of the baffles



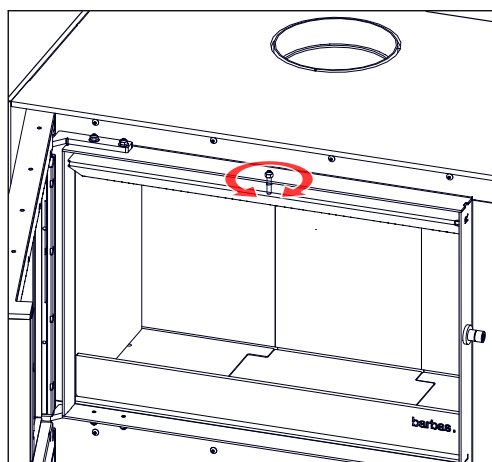
**Note:**

Make sure to remove all ashes and unburnt wood from the combustion chamber before the start of this procedure.

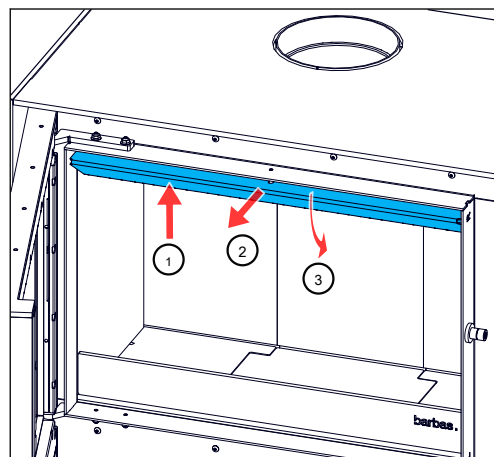
1. Remove the heat shield. Refer to section [8.6.1](#).
2. Remove the lower baffle. Refer to section [8.6.2](#).
3. Remove the upper baffle. Refer to section [8.6.3](#).

### 8.6.1 Remove the heat shield

1. Open the door.
2. Loosen the nut above the heat shield with a 3 mm hexagonal key and a 10 mm fork spanner. Turn the nut down with the fork spanner and turn the screw up with the hexagonal key until the screw is loose from the heat shield.



3. Push up the front of the heat shield (1) and pull it forward (2) and move downward to a vertical position (3).

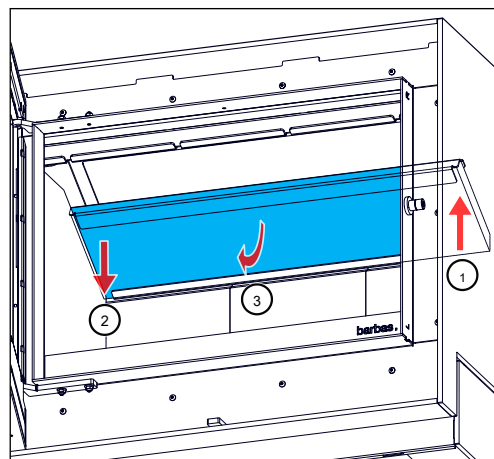


## 8.6.2

### Remove the lower baffle

Only do this procedure after finish of the procedure in section [8.6.1](#).

1. Push up the right side of the lower baffle a small distance (1).
2. Lower the left side of the lower baffle a small distance (2) and remove the baffle from the appliance (3).

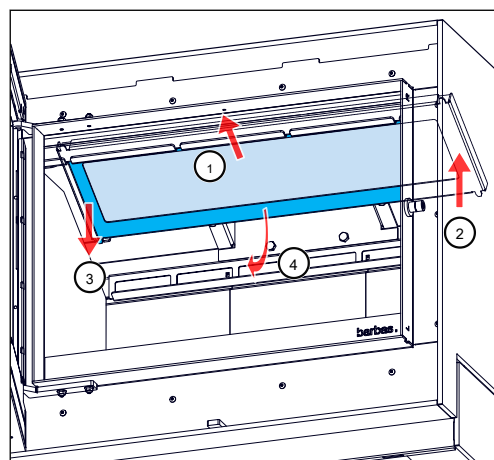


## 8.6.3

### Remove the upper baffle

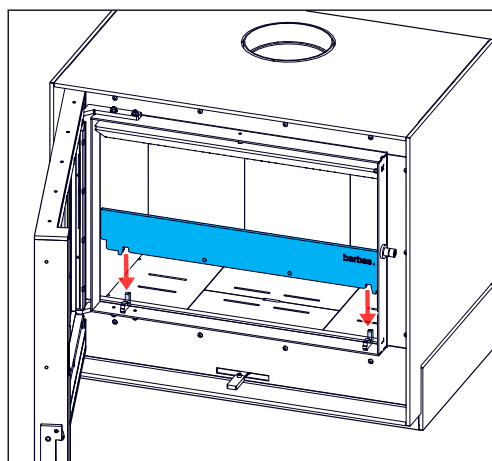
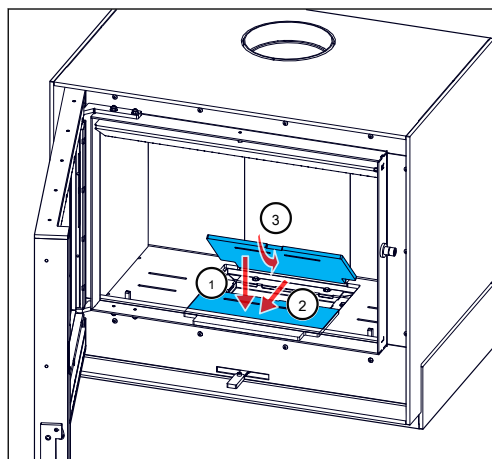
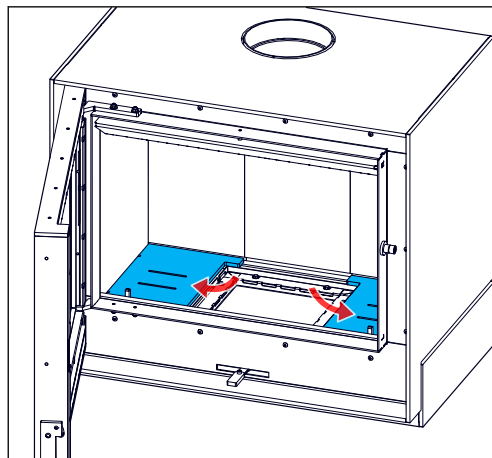
Only do this procedure after finish of the procedure in section [8.6.2](#).

1. Move the upper baffle approximately 1 cm forward (1).
2. Push up the right side of the upper baffle a small distance (2).
3. Lower the left side of the upper baffle a small distance (3) and remove the baffle from the appliance (4).



## 8.7 Install the bottom plates, ash tray and grate

1. Put the left steel bottom plate on the bottom of the combustion chamber.
2. Move the steel bottom plate to the left as much as possible.
3. Put the right steel bottom plate on the bottom of the combustion chamber.
4. Move the steel bottom plate to the right as much as possible.
5. Put a grate on the ashtray with the short side in the direction of the rear wall and move to the rear as far as possible
6. Put the other grate plate with the short side in the direction of the front of the combustion chamber. Move the grate as far as possible to the front of the bottom of the combustion chamber.
7. Put the front log guard on the notches.



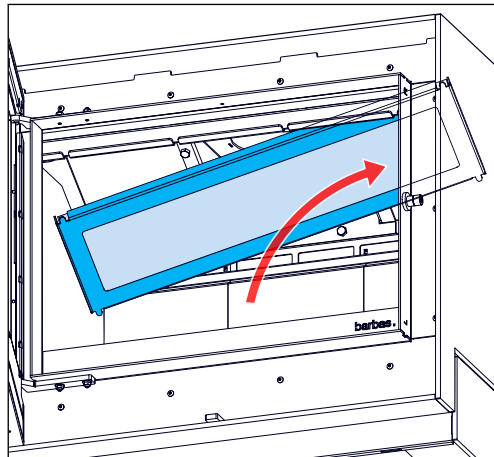
## 8.8 Installation of the baffles

1. Install the upper baffle. Refer to section [8.8.1](#).
2. Install the lower baffle. Refer to section [8.8.2](#).
3. Install the heat shield. Refer to section [8.8.3](#).

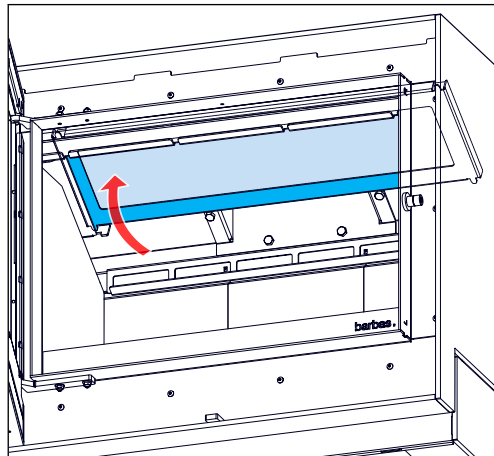
## 8.8.1

### Install the upper baffle

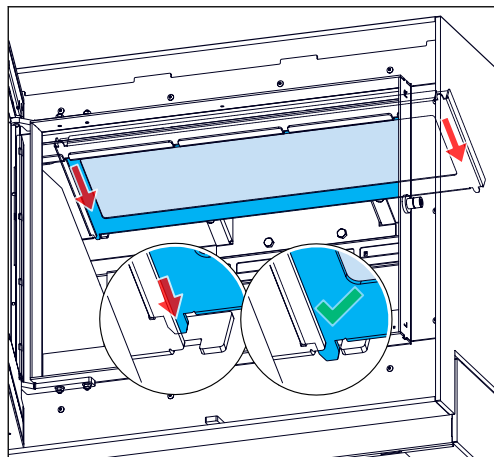
1. Move the upper baffle under an angle into the combustion chamber.
2. Move the right side of the baffle as high as possible to the far right side of the combustion chamber.



3. Move the left side of the baffle up until it is horizontal.
4. Lower the baffle on the baffle holder.



5. Push the baffle rearward until the 2 cams on the rear of the baffle go into the notches.
6. The cam is in the notch if the baffle cannot move to the left or the right.

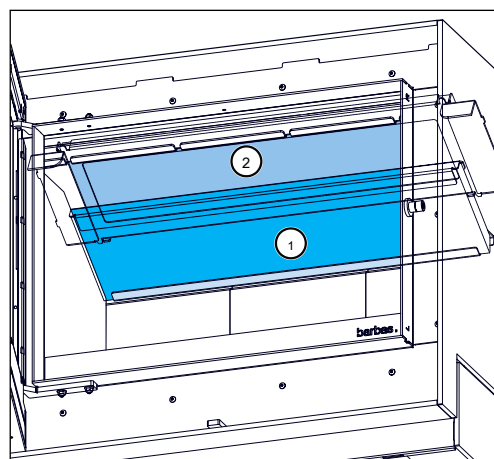
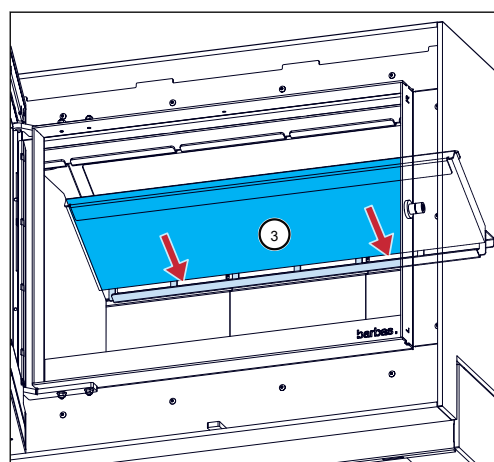
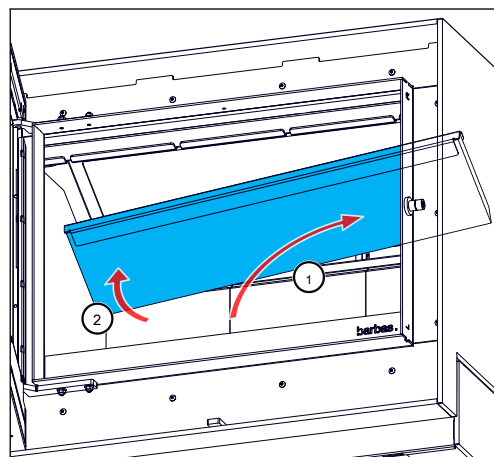


## 8.8.2

### Install the lower baffle

Only do this procedure after finish of the procedure in section [8.8.1](#).

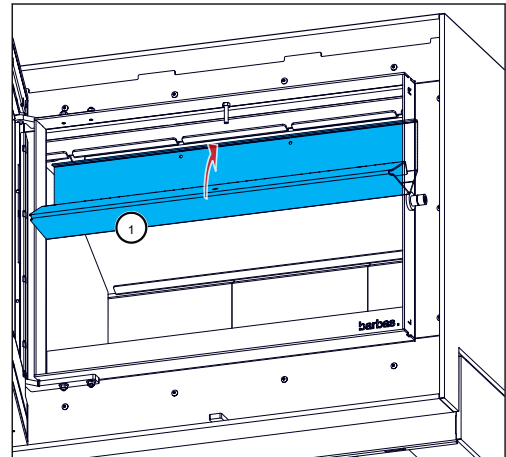
1. Move the lower baffle up under an angle into the combustion chamber (1) and put the right side of the baffle above the side panels (2) on the right.
2. Move the left side of the lower baffle up and put it on top of the side panels on the left. If it does not fit, make sure the side panels are firmly seated against the side wall of the appliance.
3. Put the rear side of the baffle against the rear wall (3).
4. Make sure the lower baffle is horizontal and against the rear wall.
5. Make sure the upper baffle (2) is still in the correct position.
6. If the upper baffle is not in the correct position, remove the lower baffle (1) and put the upper baffle in the correct position and install the lower baffle again.



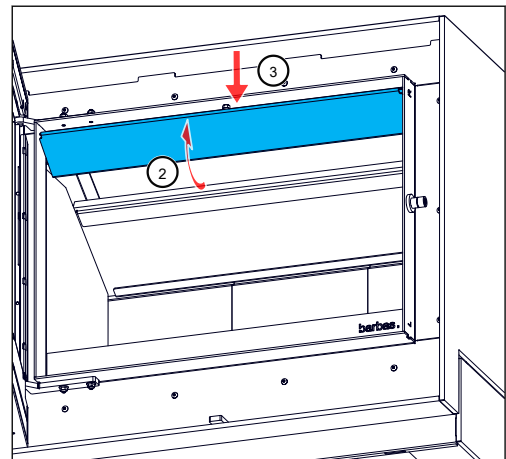
### 8.8.3 Install the heat shield

Only do this procedure after finish of the procedure in section [8.8.2](#).

1. Move the heat shield up and put the rear side above the upper baffle (1).



2. Move the front of the heat shield up (2) and put the edge on the metal strip under the air wash inlet (3).
3. Turn the screw down with a 3 mm hexagonal key until it is in the screw hole in the heat shield.
4. Turn the nut up with a 10 mm fork spanner and tighten it.



## 9 Technical data

### 9.1 Technical data

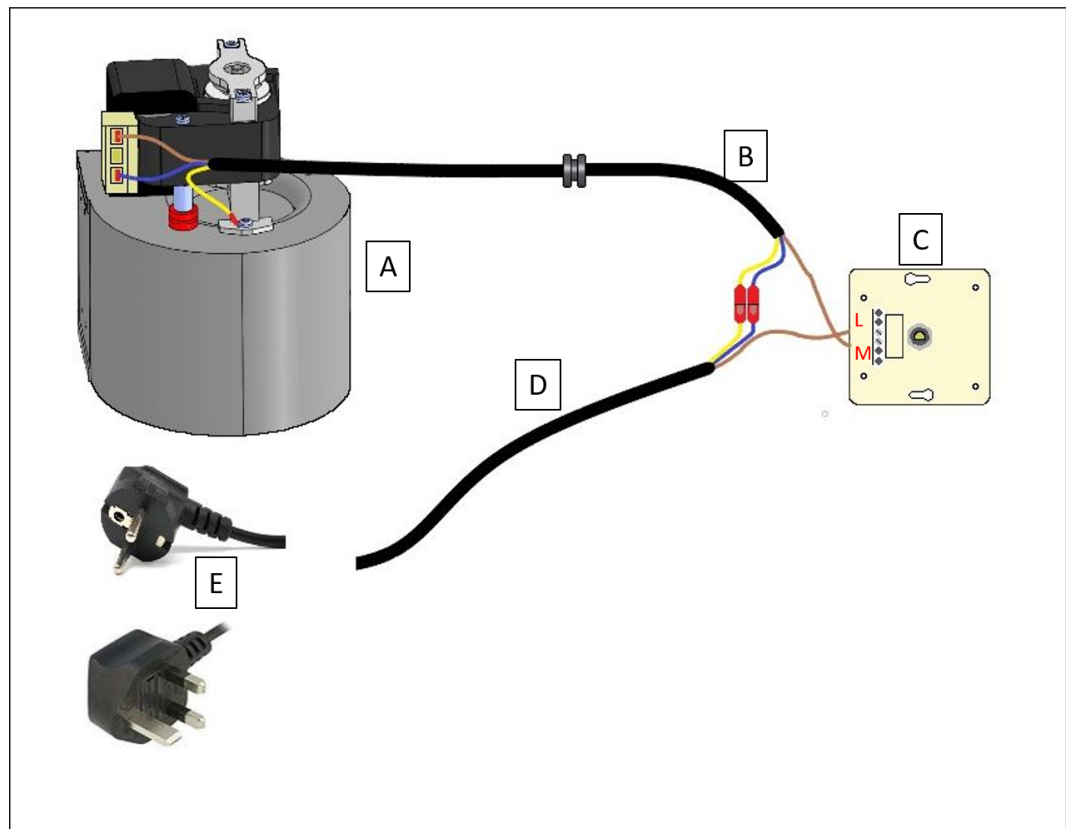
|                                               |                                                                             |                              |
|-----------------------------------------------|-----------------------------------------------------------------------------|------------------------------|
| Name                                          | Barbas                                                                      |                              |
| Model                                         | Evolux 55-45                                                                |                              |
| EPREL registration number                     | 2562399                                                                     |                              |
| Tested in accordance with                     | EN16510-2-2                                                                 |                              |
| Energy efficiency index                       | 103                                                                         |                              |
| Energy efficiency class                       | A                                                                           |                              |
| Fuel                                          | Wood logs, Wood briquettes                                                  |                              |
| Indirect heating function                     | No                                                                          |                              |
| Room sealed                                   | Yes                                                                         |                              |
| Leak rate at 10 Pa                            | 2.1 m³/h                                                                    |                              |
| Seasonal efficiency                           | 67.4 %                                                                      |                              |
|                                               | <b>Nominal load</b>                                                         | <b>Part load heat output</b> |
| Fuel load                                     | 2.5 kg                                                                      | 1.2 kg                       |
| Nominal heat output (net)                     | 9.5 kW                                                                      | 5.6 kW                       |
| Useful efficiency                             | 78.2 %                                                                      | 78.2 %                       |
| • carbon monoxide (CO) emission               | 1346 mg/Nm³                                                                 | 2537 mg/Nm³                  |
| • particles (PM) emission                     | 22 mg/Nm³                                                                   | 40 mg/Nm³                    |
| • organic gaseous compounds (OGC) emission    | 83 mg/Nm³                                                                   | 240 mg/Nm³                   |
| • nitrogen oxides (NO <sub>x</sub> ) emission | 86 mg/Nm³                                                                   | 87 mg/Nm³                    |
| Flue gas mass flow                            | 10.4 g/s                                                                    | 8.5 g/s                      |
| Flue gas outlet temperature                   | 326 °C                                                                      | 256 °C                       |
| Flue gas temperature                          | 272 °C                                                                      | 213 °C                       |
| Minimum chimney draught                       | 12 Pa                                                                       | 7 Pa                         |
| Minimum temperature class of the chimney      | T 400                                                                       |                              |
| Flue gas connection                           | Outer diameter 178 mm, suitable for a pipe with an inner diameter of 180 mm |                              |
| External combustion air connection            | 125 mm                                                                      |                              |
| Minimum distance to flammable materials       | Refer to chapter <a href="#">5</a>                                          |                              |
| <b>Weight</b>                                 |                                                                             |                              |



|                                                                                                                                                       |                                                    |                                               |                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------|-----------------------------------|
|                                                                                                                                                       | Vermiculite interior                               | Concrete interior                             | Cast iron interior                |
| Basic appliance                                                                                                                                       | 174 kg                                             | 184 kg                                        | 204 kg                            |
| Basic appliance with all available options                                                                                                            | 191 kg                                             | 201 kg                                        | 221 kg                            |
| Used materials                                                                                                                                        |                                                    |                                               |                                   |
|                                                                                                                                                       | Vermiculite interior                               | Concrete interior                             | Cast iron interior                |
| Combustion chamber side and back panels                                                                                                               | Vermiculite 750 kg/m <sup>3</sup>                  | Heat resistant ceramic 1600 kg/m <sup>3</sup> | Cast iron                         |
| Combustion floor and grate                                                                                                                            | Steel                                              | Steel                                         | Steel                             |
| Lower baffle                                                                                                                                          | Vermiculite 750 kg/m <sup>3</sup>                  | Heat resistant ceramic 2000 kg/m <sup>3</sup> | Vermiculite 750 kg/m <sup>3</sup> |
| Upper baffle                                                                                                                                          | Vermiculite 750 kg/m <sup>3</sup>                  | Vermiculite 750 kg/m <sup>3</sup>             | Vermiculite 750 kg/m <sup>3</sup> |
| Front glass                                                                                                                                           | Heat resistant ceramic glass                       | Heat resistant ceramic glass                  | Heat resistant ceramic glass      |
| The specific precautions that shall be taken when the local space heater is assembled, installed or maintained, are listed in the attached documents: | Installation and maintenance manual<br>User manual |                                               |                                   |
| Maximum capacity to carry a chimney                                                                                                                   | 120 kg *)                                          |                                               |                                   |
| Additional information in order to achieve relevant test results for market surveillance                                                              |                                                    |                                               |                                   |
| Mass of basic fire bed                                                                                                                                | 120 g                                              |                                               |                                   |
| Criterion for the end of the test cycle                                                                                                               | 5 vol% CO <sub>2</sub>                             |                                               |                                   |

\*) if the weight of the chimney or part of the chimney, being carried by the appliance, is more than indicated, the chimney must be supported with a wall bracket.

## 9.2 Connection scheme convection ventilator



- A Convection ventilator
- B Electric cable from dimmer to convection ventilator
- C Dimmer
- D Electric cable from plug to dimmer
- E 230 VAC Euro or UK plug

## 9.3

## Product information according regulation (EU) 2015/1185

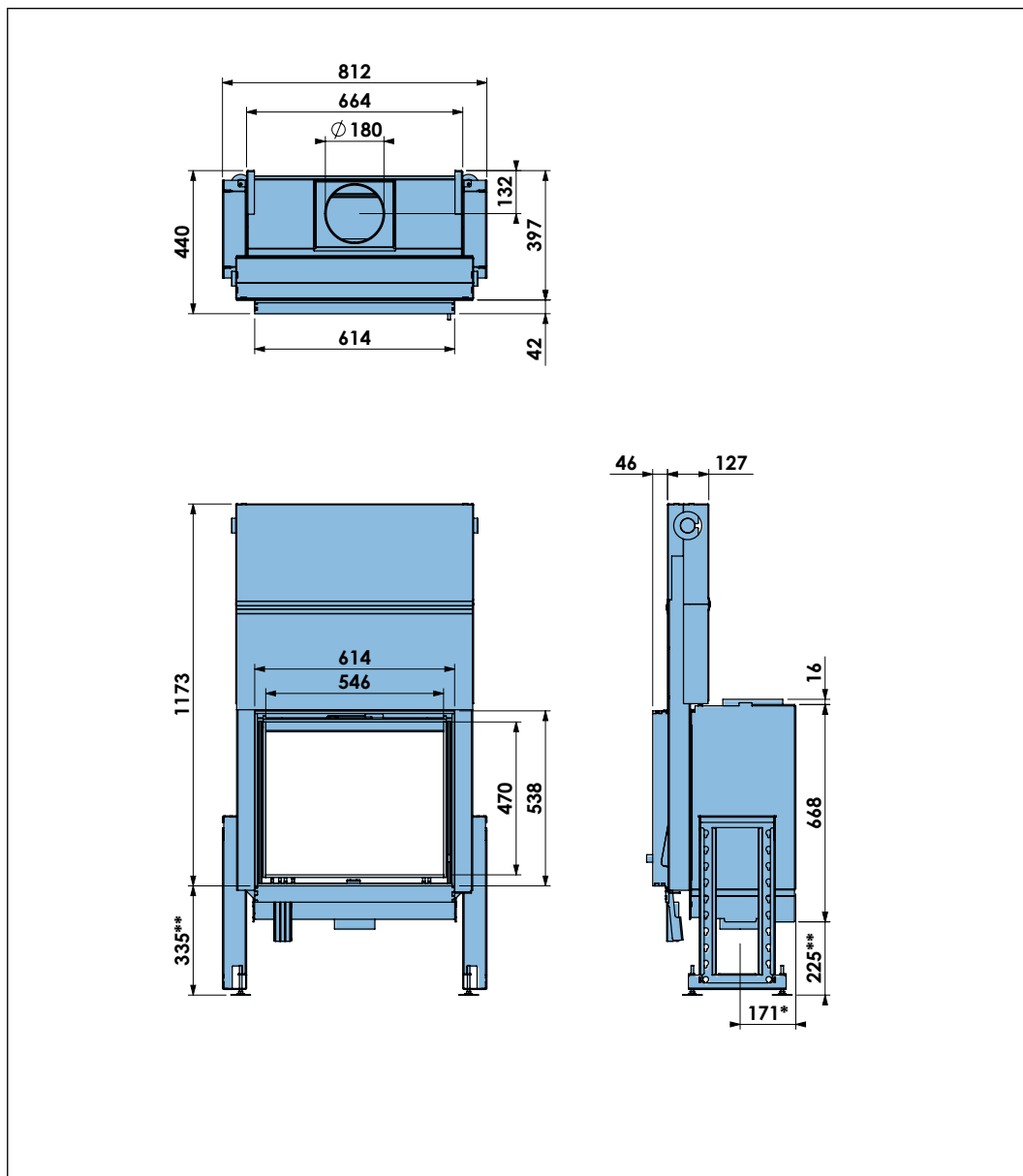
| Model identifier                                                                                                                                                                            |                                                                             | Evolux 55-45           |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------|-----------------|-------------------------------------------------------------------------------------------|------|--------|-----------------|------|----|
| Equivalent models                                                                                                                                                                           |                                                                             | N.A.                   |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Indirect heating function                                                                                                                                                                   |                                                                             | No                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Direct heat output                                                                                                                                                                          |                                                                             | 9.5 kW                 |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Indirect heat output                                                                                                                                                                        |                                                                             | - kW                   |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Fuel                                                                                                                                                                                        | Preferred fuel (only one)                                                   | Other suitable fuel(s) | Emissions at nominal heat output (*)<br>[mg/Nm <sup>3</sup> (13 % O <sub>2</sub> )] |                                                           |                  |                 | Emissions at minimum heat output (**)(***)<br>[mg/Nm <sup>3</sup> (13 % O <sub>2</sub> )] |      |        |                 |      |    |
|                                                                                                                                                                                             |                                                                             |                        | PM                                                                                  | OGC                                                       | CO               | NO <sub>x</sub> | PM                                                                                        | OGC  | CO     | NO <sub>x</sub> |      |    |
| Wood logs, moisture content < 25 %                                                                                                                                                          | yes                                                                         | no                     | 22                                                                                  | 83                                                        | 1346             | 86              | 40                                                                                        | 240  | 2537   | 87              |      |    |
| Compressed wood, moisture content < 12 %                                                                                                                                                    | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Other woody biomass                                                                                                                                                                         | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Non-woody biomass                                                                                                                                                                           | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Anthracite and dry steam coal                                                                                                                                                               | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Hard coke                                                                                                                                                                                   | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Low temperature coke                                                                                                                                                                        | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Bituminous coal                                                                                                                                                                             | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Lignite briquettes                                                                                                                                                                          | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Peat briquettes                                                                                                                                                                             | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Blended fossil fuel briquettes                                                                                                                                                              | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Other fossil fuel                                                                                                                                                                           | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Blended biomass and fossil fuel briquettes                                                                                                                                                  | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Other blend of biomass and solid fuel                                                                                                                                                       | no                                                                          | no                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Characteristics when operating with the preferred fuel                                                                                                                                      |                                                                             |                        |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Seasonal space heating efficiency $\eta_{se}$ [%]                                                                                                                                           |                                                                             | 67                     |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Energy efficiency index (EEI)                                                                                                                                                               |                                                                             | 103                    |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Item                                                                                                                                                                                        | Symbol                                                                      | Value                  | Unit                                                                                | Item                                                      | Symbol           | Value           | Unit                                                                                      | Item | Symbol | Value           | Unit |    |
| Heat output                                                                                                                                                                                 |                                                                             |                        |                                                                                     | Useful efficiency (NCV as received)                       |                  |                 |                                                                                           |      |        |                 |      |    |
| Nominal heat output                                                                                                                                                                         | P <sub>nom</sub>                                                            | 9.5                    | kW                                                                                  | Useful efficiency at nominal heat output                  | $\eta_{th, nom}$ | 78.2            | %                                                                                         |      |        |                 |      |    |
| Minimum heat output (indicative)                                                                                                                                                            | P <sub>min</sub>                                                            | 5.6                    | kW                                                                                  | Useful efficiency at minimum heat output (indicative)     | $\eta_{th, min}$ | 78.2            | %                                                                                         |      |        |                 |      |    |
| Auxiliary power consumption                                                                                                                                                                 |                                                                             |                        |                                                                                     | Type of heat output/room temperature control (select one) |                  |                 |                                                                                           |      |        |                 |      |    |
| At nominal heat output                                                                                                                                                                      | e <sub>l, max</sub>                                                         | 0.064                  | kW                                                                                  | Single-stage heat output, no room temperature control     |                  |                 |                                                                                           |      |        |                 | yes  |    |
| At minimum heat output                                                                                                                                                                      | e <sub>l, min</sub>                                                         | 0.024                  | kW                                                                                  | Two or more manual stages, no room temperature control    |                  |                 |                                                                                           |      |        |                 | no   |    |
| In standby mode                                                                                                                                                                             | e <sub>l, sb</sub>                                                          | 0                      | kW                                                                                  | With mechanic thermostat room temperature control         |                  |                 |                                                                                           |      |        |                 | no   |    |
| Permanent pilot flame power requirement                                                                                                                                                     |                                                                             |                        |                                                                                     | With electronic room temperature control                  |                  |                 |                                                                                           |      |        |                 |      | no |
| Pilot flame power requirement (if applicable)                                                                                                                                               | P <sub>pilot</sub>                                                          | N.A.                   | kW                                                                                  | With electronic room temperature control plus day timer   |                  |                 |                                                                                           |      |        |                 | no   |    |
|                                                                                                                                                                                             |                                                                             |                        |                                                                                     | With electronic room temperature control plus week timer  |                  |                 |                                                                                           |      |        |                 | no   |    |
|                                                                                                                                                                                             |                                                                             |                        |                                                                                     | Other control options (multiple selection possible)       |                  |                 |                                                                                           |      |        |                 |      |    |
|                                                                                                                                                                                             |                                                                             |                        |                                                                                     | Room temperature control, with presence detection         |                  |                 |                                                                                           |      |        |                 | no   |    |
|                                                                                                                                                                                             |                                                                             |                        |                                                                                     | Room temperature control, with open window detection      |                  |                 |                                                                                           |      |        |                 | no   |    |
|                                                                                                                                                                                             |                                                                             |                        |                                                                                     | With distance control option                              |                  |                 |                                                                                           |      |        |                 | no   |    |
| Contact details                                                                                                                                                                             | Barbas Bellfires BV<br>Hallenstraat 17<br>5531 AB BLADEL<br>The Netherlands |                        |                                                                                     | www.barbas.com                                            |                  |                 |                                                                                           |      |        |                 |      |    |
| (*) PM = particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NO <sub>x</sub> = nitrogen oxides<br>(**) Only required if correction factors F(2) or F(3) are applied. |                                                                             |                        |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Signed for and on behalf of the manufacturer by:<br>Danny Baijens, CEO                                                                                                                      |                                                                             |                        |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |
| Bladel; 26 November 2025                                                                                                                                                                    |                                                                             |                        |                                                                                     |                                                           |                  |                 |                                                                                           |      |        |                 |      |    |

## 9.4 Explanation of used notations on typeshield

| Notation                                                                            | Description                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| $m_{chim}$                                                                          | The maximum weight of a chimney the appliance may carry                                         |
| $d_B$                                                                               | The minimum distances below the bottom to combustible material                                  |
| $d_F$                                                                               | The minimum distances from the front to combustible material in the bottom front radiation area |
| $d_C$                                                                               | The minimum distances from the top to combustible material                                      |
| $d_R$                                                                               | The minimum distances from the rear to combustible material                                     |
| $d_S$                                                                               | The minimum distances from the sides to combustible material                                    |
| $d_L$                                                                               | The minimum distances from the front to combustible material in the side front radiation area   |
| $d_P$                                                                               | The minimum distances from the front to combustible material                                    |
| $CO_{nom}$                                                                          | Carbon monoxide emission at nominal heat output                                                 |
| $NO_{xnom}$                                                                         | Nitrogen oxide emission at nominal heat output                                                  |
| $OGC_{nom}$                                                                         | Hydrocarbons emission at nominal heat output                                                    |
| $PM_{nom}$                                                                          | Particle emission at nominal heat output                                                        |
| $CO_{part}$                                                                         | Carbon monoxide emission at part load heat output                                               |
| $NO_{xpart}$                                                                        | Nitrogen oxide emission at part load heat output                                                |
| $OGC_{part}$                                                                        | Hydrocarbons emission at part load heat output                                                  |
| $PM_{part}$                                                                         | Particle emission at part load output                                                           |
| $T_{snom}$                                                                          | The flue gas outlet temperature at nominal heat output                                          |
| $p_{nom}$                                                                           | Minimum flue draught at nominal heat output                                                     |
| $\Phi_{f,g nom}$                                                                    | The flue gas mass flow at nominal heat output                                                   |
| $T_{spart}$                                                                         | The flue gas outlet temperature at part load heat output                                        |
| $p_{part}$                                                                          | Minimum flue draught at part load heat output                                                   |
| $\Phi_{f,g part}$                                                                   | The flue gas mass flow at part load heat output                                                 |
| $T_{class}$                                                                         | Temperature designation of the chimney                                                          |
| $P_{nom}$                                                                           | The nominal heat output                                                                         |
| $\eta_{nom}$                                                                        | The appliance efficiency at nominal heat output                                                 |
| $P_{part}$                                                                          | The part load heat output                                                                       |
| $\eta_{part}$                                                                       | The appliance efficiency at part load heat output                                               |
| $\eta_s$                                                                            | The appliance seasonal space heating efficiency at nominal heat output                          |
| EEI                                                                                 | The energy efficiency index                                                                     |
| $E_{class}$                                                                         | The energy efficiency class                                                                     |
| INT                                                                                 | The appliance is capable of intermittent operation                                              |
| CM                                                                                  | Room-sealed appliance with a manually closed and locked door                                    |
| B                                                                                   | Non-room-sealed appliance                                                                       |
|  | Read and follow the user operating instructions                                                 |

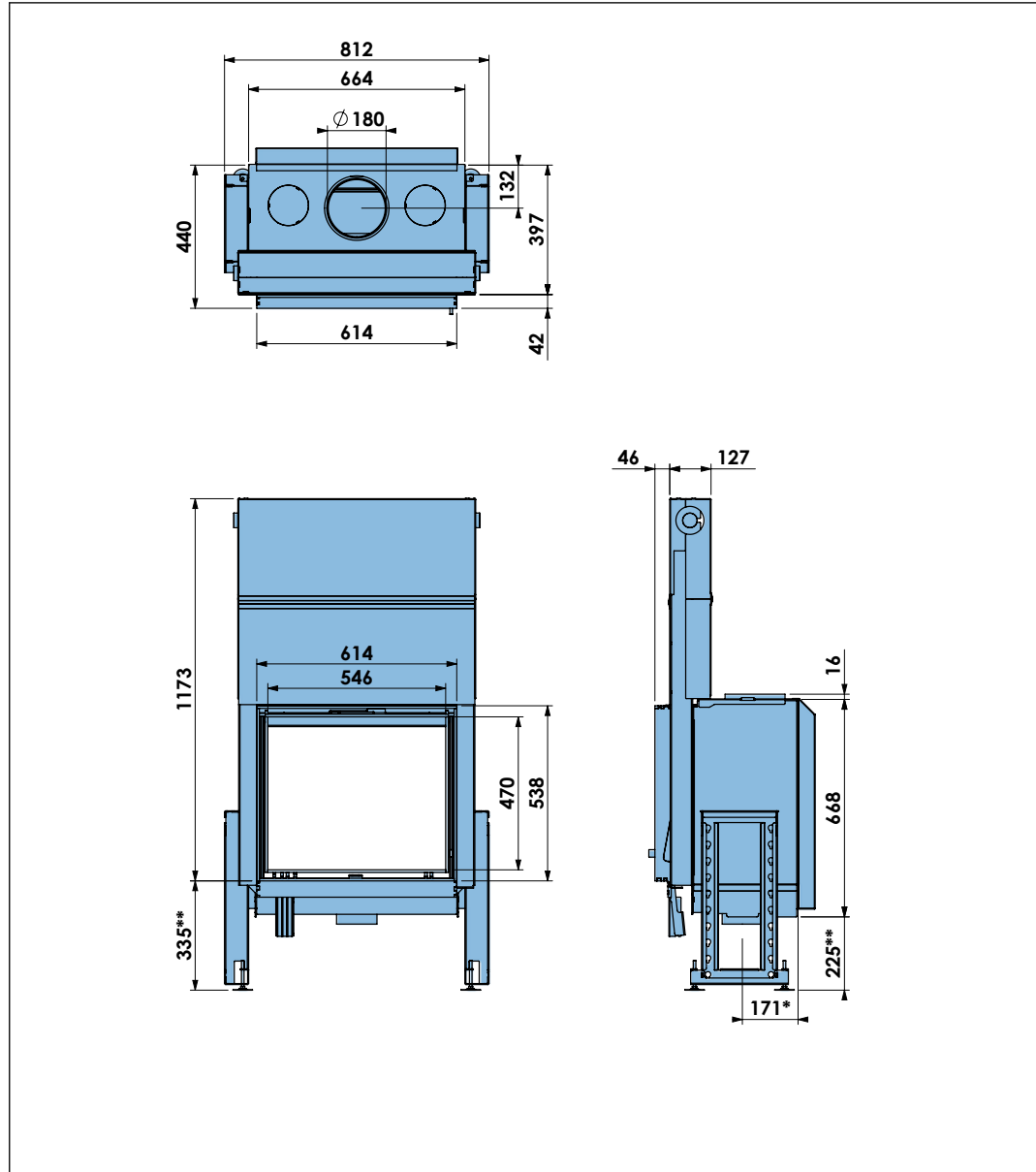
## 10 Dimensions

### 10.1 Evolux 55-45 with built-in frame



## 10.2 Evolux 55-45 with built-in frame and convection casing

\*) Combustion air inlet opening (Ø 125 mm) at the bottom of the appliance.

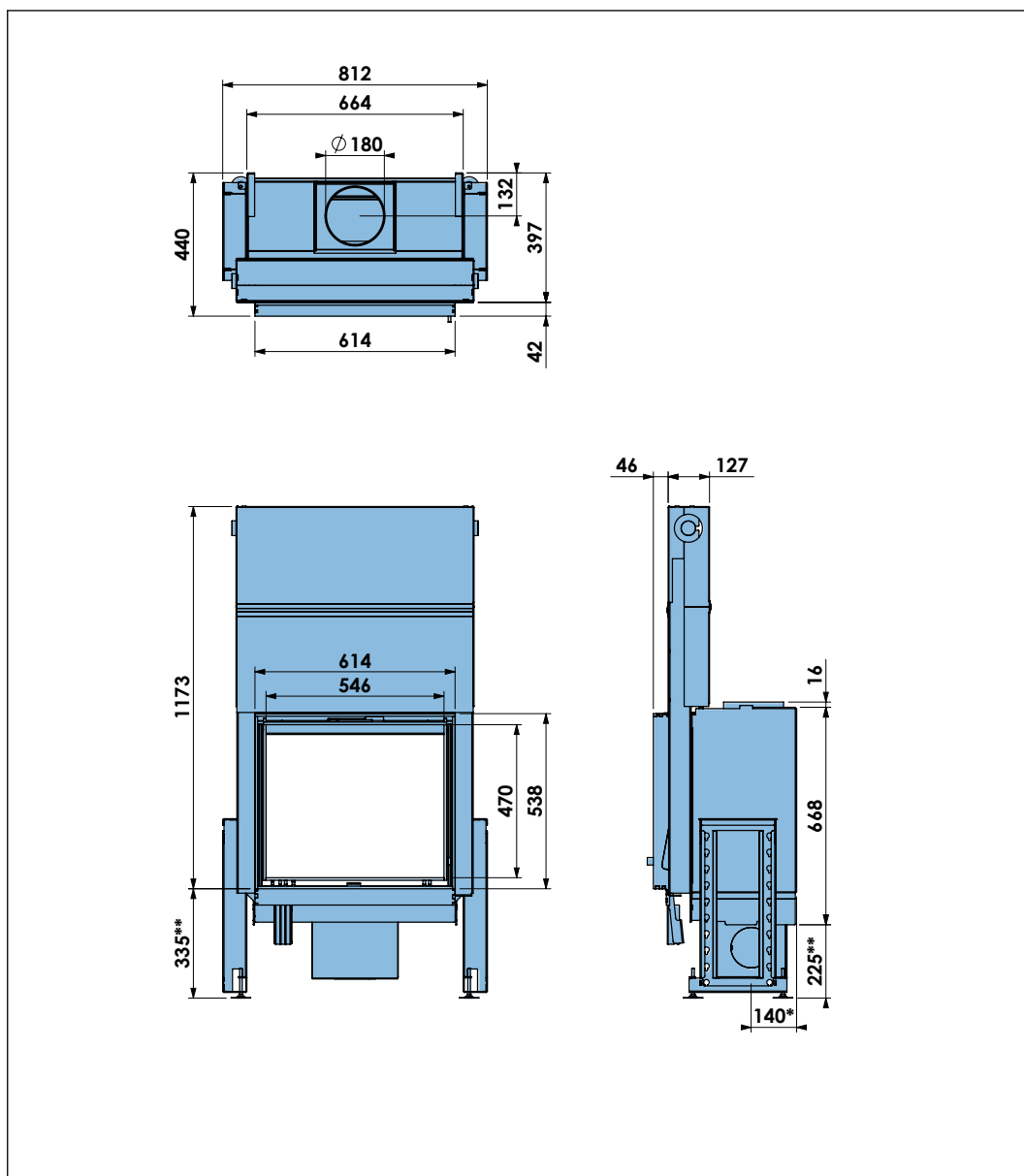


## 10.3

### Evolux 55-45 with built-in frame and air box

\*) 3 Combustion air inlet openings (Ø 125 mm) at the left side, right side and bottom of the air box.

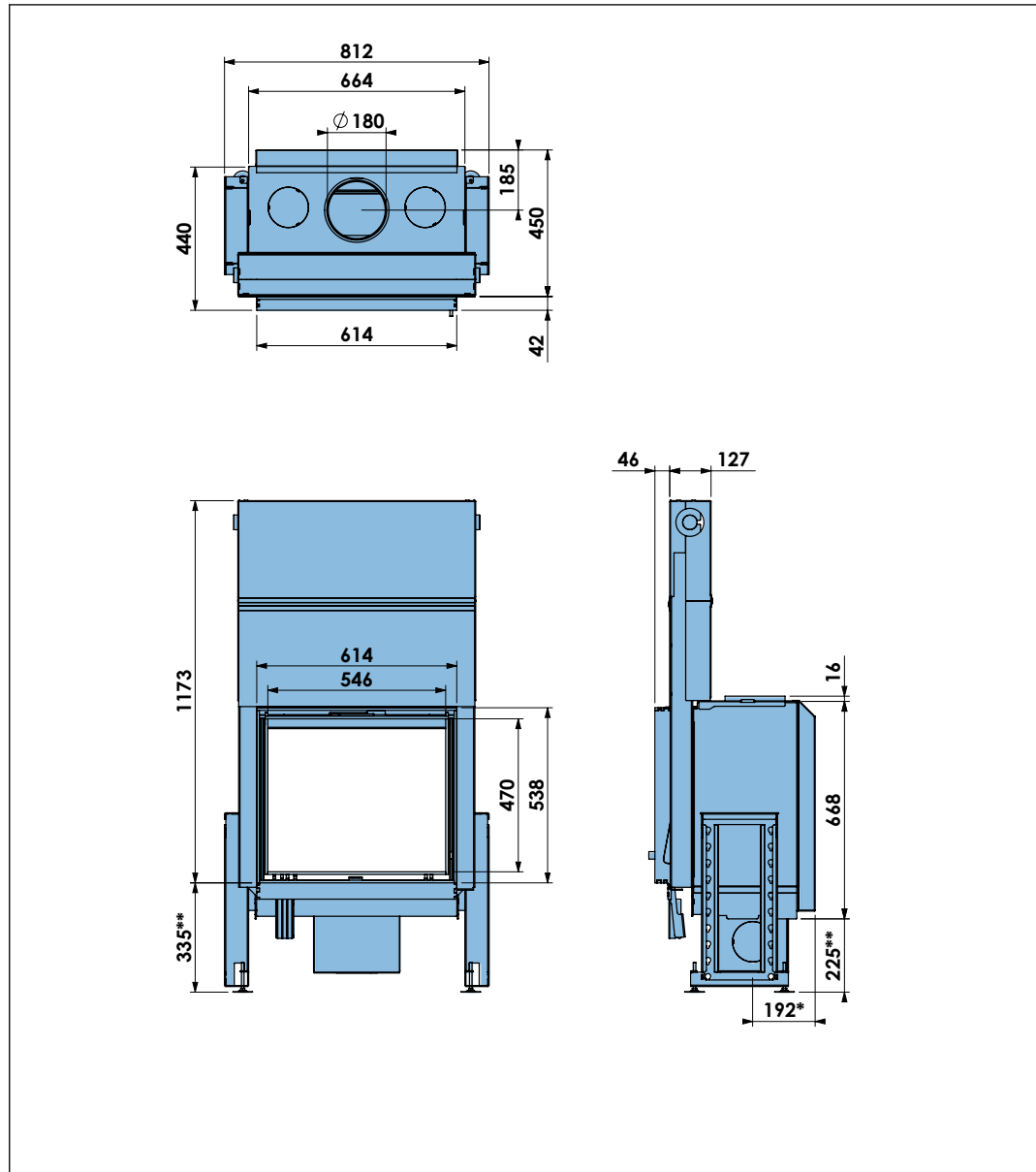
\*\*) Adjustable height frame, max +150 mm



## 10.4 Evolux 55-45 with built-in frame, air box and convection casing

\*) 3 Combustion air inlet openings (Ø 125 mm) at the left side, right side and bottom of the air box.

\*\*) Adjustable height frame, max +150 mm





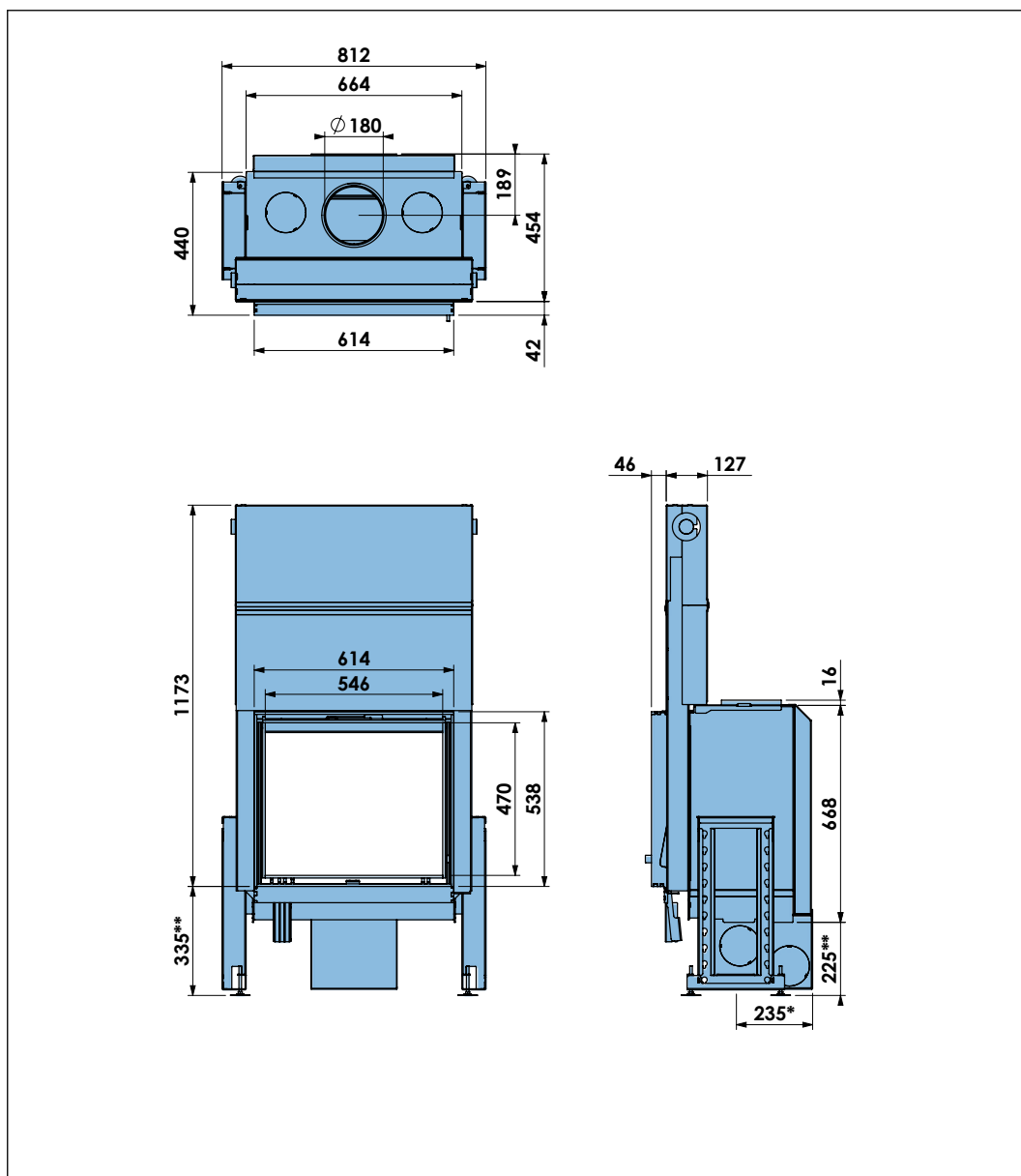
## 10.5

### Evolux 55-45 with built-in frame, combustion air / convection ventilator box and convection casing

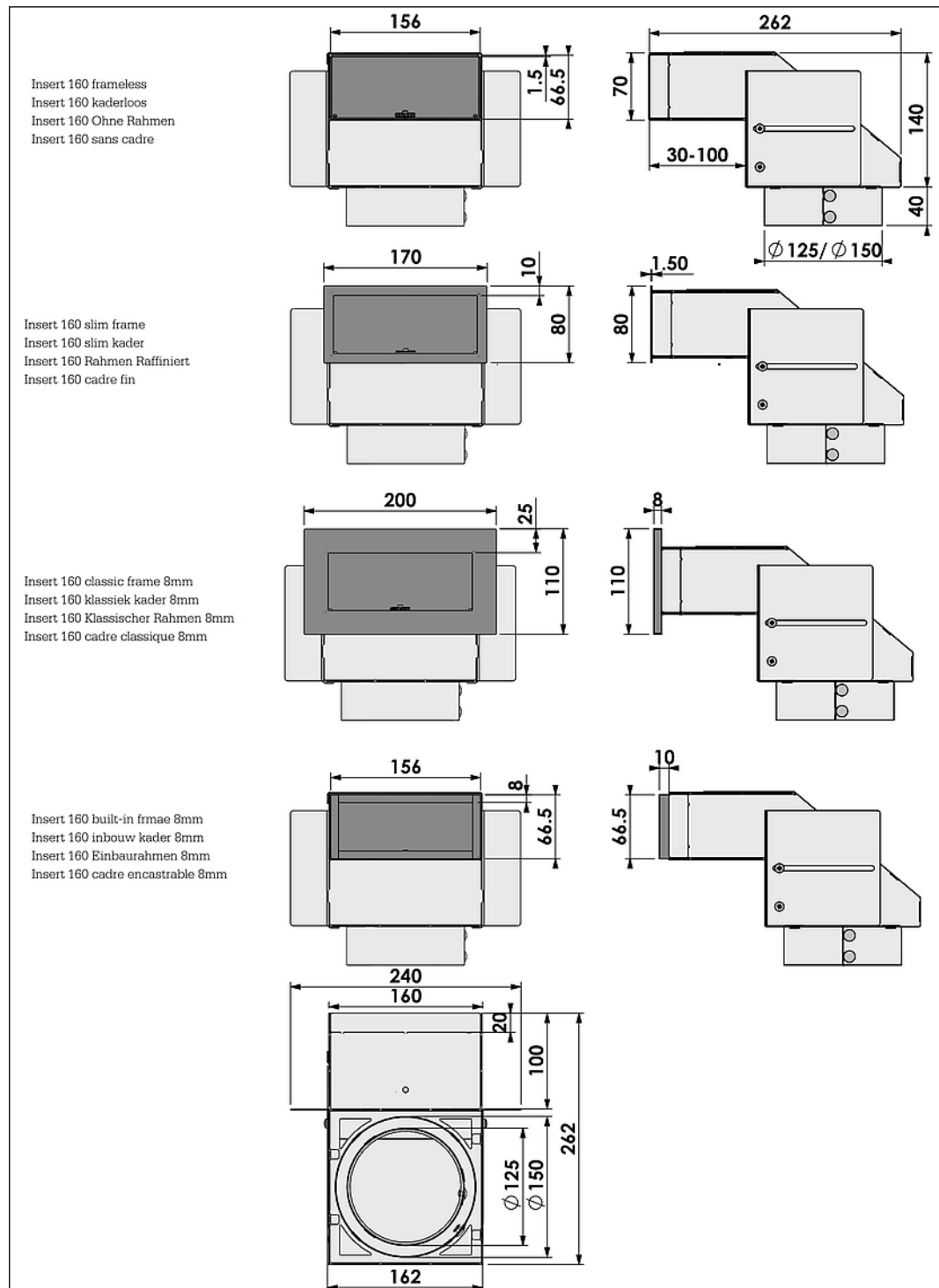
\*) 3 Combustion air inlet openings (Ø 125 mm) at the left side, right side and bottom of the air box.

2 Convection air inlet openings (Ø 125 mm) at the left side and right side of the convection ventilator / combustion air box.

\*\*) Adjustable height frame, max +150 mm

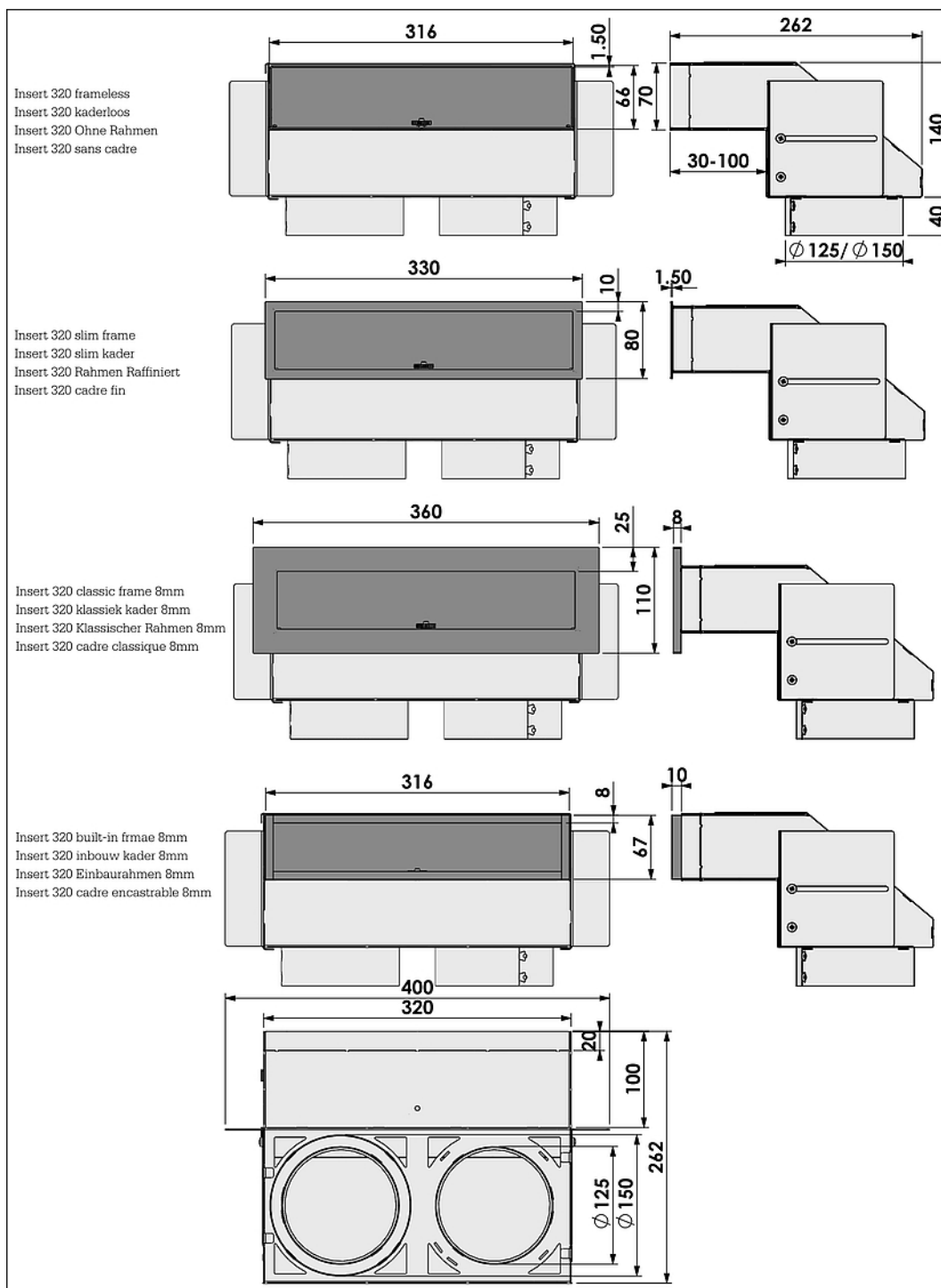


## 10.6 BARBAS Airbox 160 with 4 insert models



## 10.7

## BARBAS Airbox 320 with 4 insert models



## 11 Warranty Terms

To make a claim under the warranty, it is important to register the Barbas appliance after purchase via [www.barbas.com](http://www.barbas.com).

### Barbas Warranty Terms

Barbas B.V. guarantees the quality of the supplied Barbas appliance and the quality of the materials used. All Barbas appliances are developed and manufactured according to the highest possible quality standards. If, despite all this, something should prove amiss with the Barbas appliance you have purchased, Barbas B.V. offers the following manufacturer's warranty.

#### Article 1: Warranty

1. If Barbas B.V. determines that the Barbas appliance you have purchased is defective as a result of a flaw in the construction or material, Barbas B.V. guarantees to repair or replace the appliance free of charge, without charging any costs for labor or spare parts.
2. Repair or replacement of the Barbas appliance will be undertaken by Barbas B.V. or by a Barbas dealer as designated by Barbas B.V.
3. This warranty is supplementary to the existing legal national warranty of Barbas dealers and Barbas B.V. in the country of purchase and is not intended to restrict your rights and claims based on the applicable legal provisions.

#### Article 2: Warranty conditions

1. Should you wish to claim under the warranty, please contact your Barbas dealer.
2. Complaints should be reported as quickly as possible after they have manifested themselves.
3. Complaints will only be accepted if they are reported to the Barbas dealer, together with the serial number of the Barbas appliance which is stated on the enclosed documents.
4. In addition, the original receipt (invoice, receipt, cash receipt) showing the date of purchase must also be submitted.
5. Repairs and replacements during the warranty period do not give any entitlement to an extension of the warranty period. After a repair or replacement of warranty parts, the warranty period shall be deemed to have started on the date of purchasing the Barbas appliance.
6. If a certain part is eligible for the warranty and the original part is no longer available, Barbas B.V. shall ensure that an alternative part of at least the same quality shall be provided.

#### Article 3: Warranty exclusions

1. The warranty on the Barbas appliance ceases to be in effect if:
  - a. it is not installed according to the installation instructions, and to national and/or local regulations;
  - b. it has been installed, connected or repaired by a non-Barbas dealer;
  - c. it has not be used or maintained according to the instructions for use;

- d. it has been changed, neglected or roughly treated;
- e. it has been damaged as a result of external causes (outside the appliance itself), for example, lightning strike, water damage or fire;
- 2. In addition, the warranty lapses if the original purchase receipt shows any change, deletion, removal or if it is illegible.

#### **Article 4: Warranty area**

- 1. The warranty is only valid in those countries where Barbas appliances are sold through an official dealer network.

#### **Article 5: Warranty period**

- 1. This warranty will only be granted during the warranty period.
- 2. The body of the Barbas appliance is guaranteed for a period of 10 years against construction and/or material faults, starting from the moment of purchase.
- 3. For other parts of the Barbas appliance, a similar warranty applies from the moment of purchase for a period of two years.
- 4. For user parts such as glass, glass sealing cord and the interior of the combustion chamber, a similar guarantee is given until after the first burning.

#### **Article 6: Liability**

- 1. A claim granted by Barbas B.V. under this warranty does not automatically imply that Barbas B.V. also accepts liability for any possible damage. The liability of Barbas B.V. never extends further than that stated in these warranty conditions. Any liability of Barbas B.V. for consequential damage is expressly excluded.
- 2. That stated in this provision is not valid if and to the extent that it derives from a mandatory provision.
- 3. All agreements entered into by Barbas B.V. are, unless specifically stated otherwise in writing and to the extent that they are permitted based on applicable law, subject to the FME-CWM general sales and delivery conditions for the technology industry.

Barbas B.V.  
Hallenstraat 17  
5531 AB Bladel  
The Netherlands

Email: [info@Barbas.com](mailto:info@Barbas.com)

Carefully retain the enclosed documents; they show the serial number of the appliance. You will need this if you wish to claim under the warranty.





# barbas .

Your Barbas dealer