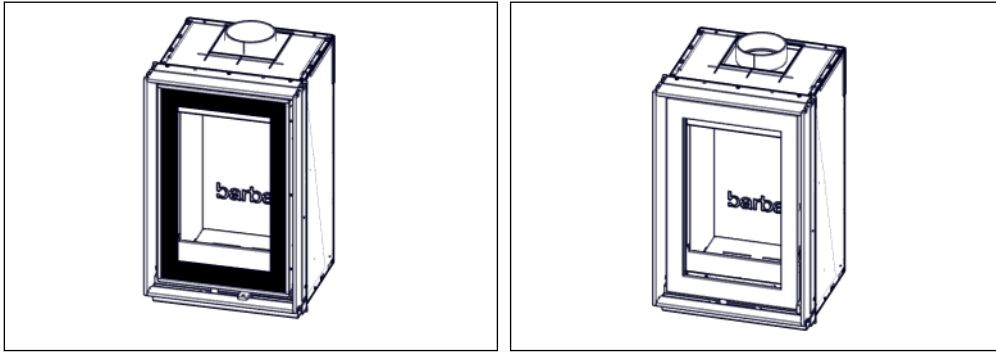


# barbas .

## Installation and maintenance manual

Unilux-7 45



This product is not suitable for primary heating purposes



Serial number:

Production date:

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## 1

## Declaration of Performance

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EU-declaration of conformity			
<p>This EC declaration of conformity applies to the product described below and describes the conformity with the following directives:  <b>2009/125/EC Directive for the setting of eco-design requirements for energy-related products (eco-design directive)</b>  Relevant Regulation: (EU) 2015/1185</p>			
Declaration of Performance			
No. 1.818.080-6 - CPR-2013/07/01			
Unique identification code of the product type:		Unilux-7 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. 1639	
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> ):		50 cm	
Ceiling (d <sub>c</sub> ):		50 cm	
Rear (d <sub>a</sub> ):		2.5 cm	
Side (d <sub>s</sub> ):		2.5 cm	
Side radiation area (d <sub>r</sub> ):		50 cm	
Front (d <sub>p</sub> ):		120 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 1171 mg/m3	
Nitrogen oxides emission (NO <sub>x</sub> )		104 mg/m3	
Emission of organic gaseous carbon (OGC)		110 mg/m3	
Particulate matter emission (PM)		20 mg/m3	
<i>Safety and accessibility in use</i>			
Data for installation to a chimney			
At nominal heat output			
Flue gas outlet temperature		362 °C	
Minimum flue draught		12 Pa	
Flue gas mass flow		6.3 g/s	
Fire safety of installation to the chimney		T400 G minimum	
<i>Energy economy and heat retention</i>			
Appliance's thermal heat output and energy efficiency			
At nominal heat output			
Space heat output		6 kW	
Efficiency		75.8 %	
Seasonal space heating efficiency		65.8 %	
Energy efficiency index (EEI)		100	
Energy efficiency class		A	
At nominal heat output		At part load heat output	
Electric power consumption		N/A	
At nominal heat output		At part load heat output	
N/A		N/A	
Standby mode		N/A	
<i>Sustainable use of natural resources</i>			
Environmental sustainability		NPD	
<p>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.</p>			
Signed for and on behalf of the manufacturer by:			
Danny Baijens, CEO			
		Bladel, The Netherlands 01 October 2025	

## 2 About this document

This document shows the necessary information to do these tasks on the Unilux-7 45

- Installation
- Maintenance

This document refers to the Unilux-7 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

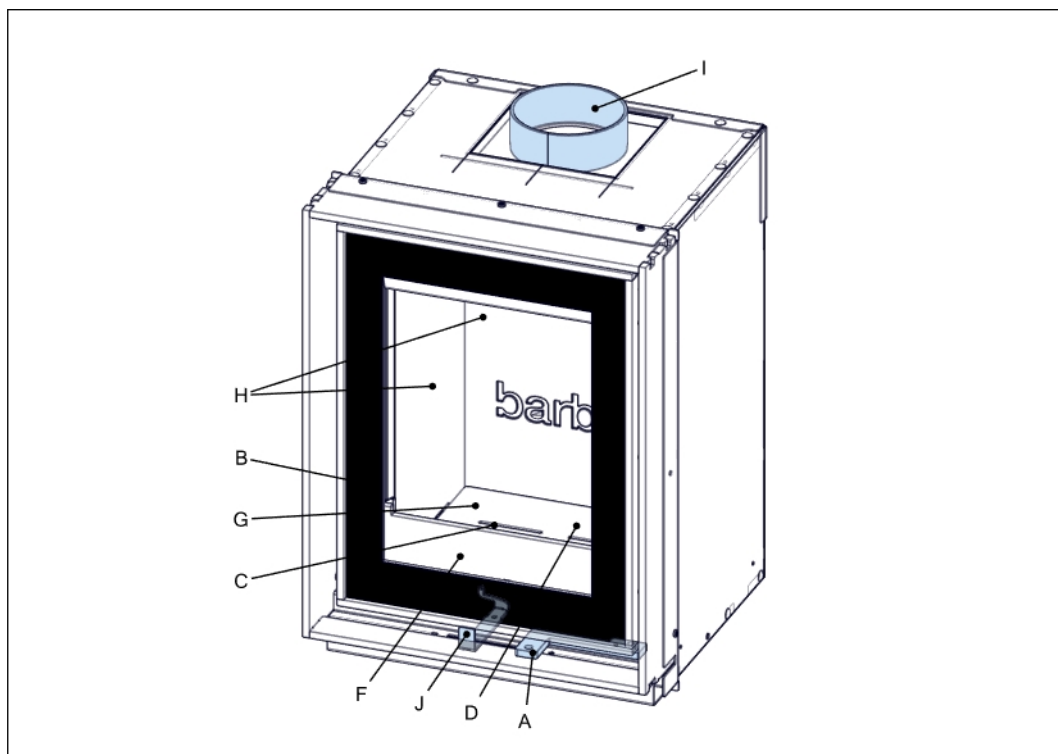
### 2.3 Related documentation

- Installation and maintenance manual
- User manual

## 3 Description

### 3.1 Overview of the Unilux-7 45

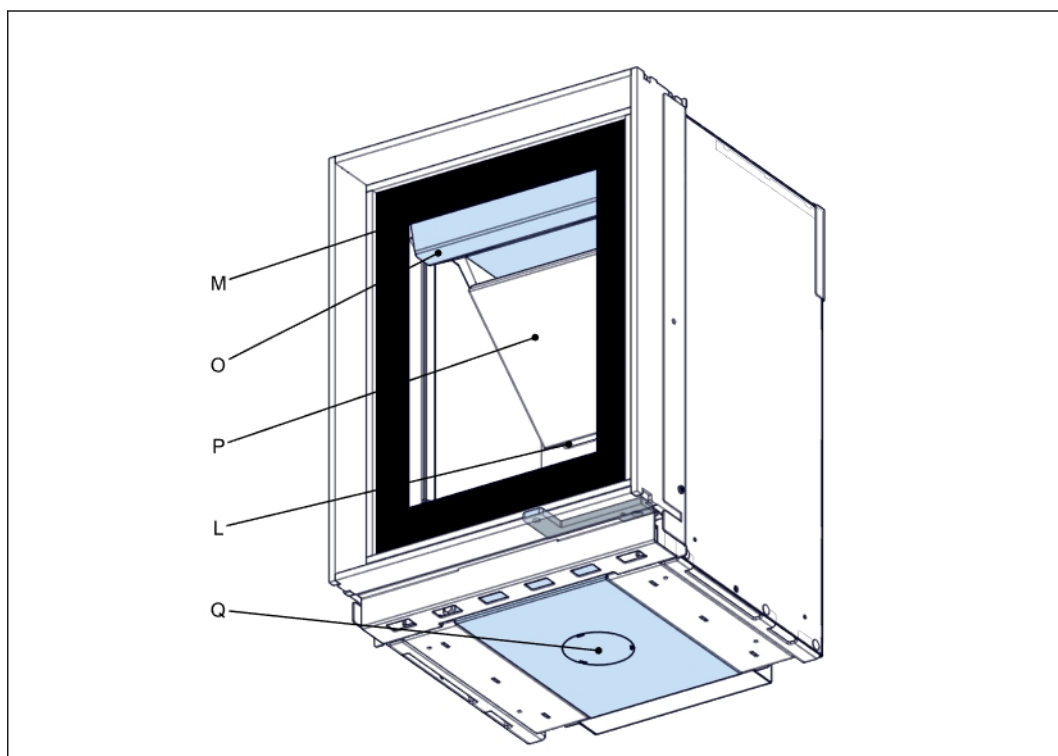
The Unilux-7 45 is available with a screened glass door or with a steel frame door.



- |   |                     |   |                                 |
|---|---------------------|---|---------------------------------|
| A | Door handle         | G | Ash tray (under the grate)      |
| B | Glass               | H | Ceramic panels                  |
| C | Primary air inlet - | I | Top flue connector <sup>1</sup> |
| D | Grate               | J | Control lever                   |
| F | Log guard           |   |                                 |

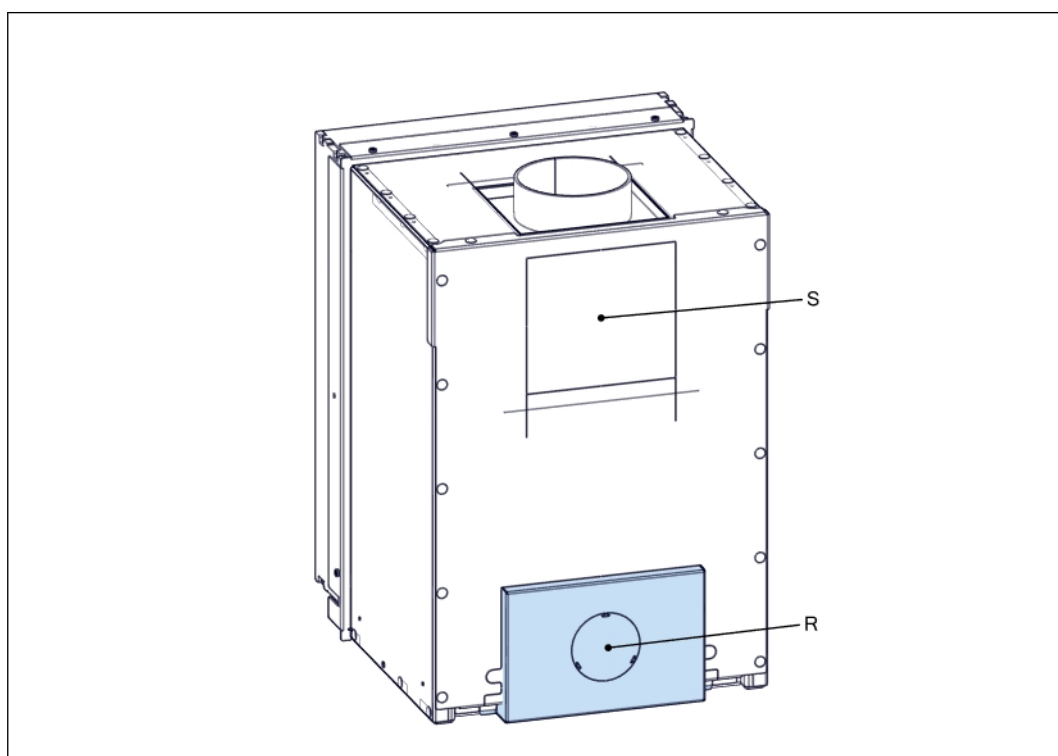
*Figure 1. Top view of the Unilux-7 45 with screened glass door*

<sup>1</sup> Optionally a 45 degree flue connector is available.



- |   |                      |   |  |
|---|----------------------|---|--|
| L | Secondary air inlet  | P | Lower baffle (ceramic)                 |
| M | Air wash inlet       | Q | Connection for external combustion air |
| O | Upper baffle (steel) |   |  |

Figure 2. Bottom view of the Unilux-7 45 with screened door



- |   |  |   |                     |
|---|--|---|---------------------|
| R | Connection for external combustion air | S | Rear flue connector |
|---|--|---|---------------------|

Figure 3. Rear view of the Unilux-7 45



## 3.2 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.

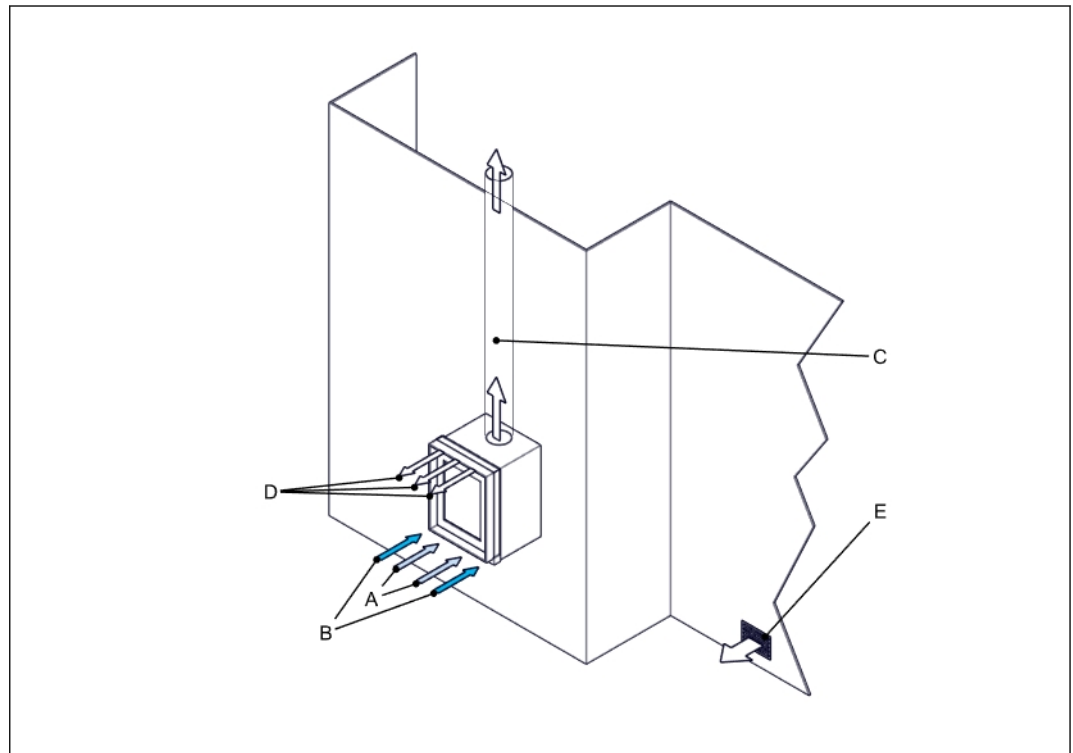
The appliance is intended to heat the room by direct heating. It is not allowed to connect the appliance to a central-heating installation.

## 3.3 Installation examples



### Note:

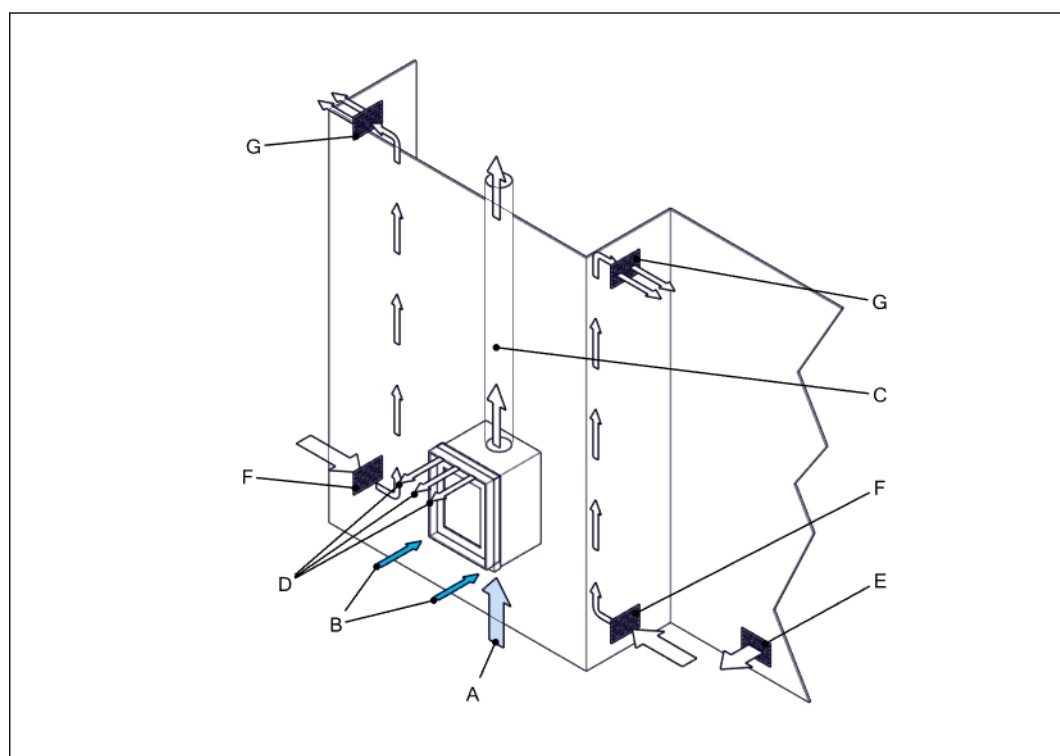
The illustrations shown in this paragraph are typical installation examples.



A Combustion air inlet  
B Convection air inlet  
C Chimney

D Convection air outlet  
E Air supply to the room

*Figure 4. Installation in an existing fireplace*



- |   |                               |   |                                   |
|---|-------------------------------|---|-----------------------------------|
| A | External combustion air inlet | E | Air supply to the room            |
| B | Convection air inlet          | F | Ventilation air inlet             |
| C | Chimney                       | G | Convection/ventilation air outlet |
| D | Convection air outlet         |   |                                   |

*Figure 5. Installation with external combustion air supply in a new fireplace surround*

## 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 instructions 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

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

The figure shows the minimum thickness of the insulation plates and the minimum clearances to flammable materials and walls.



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

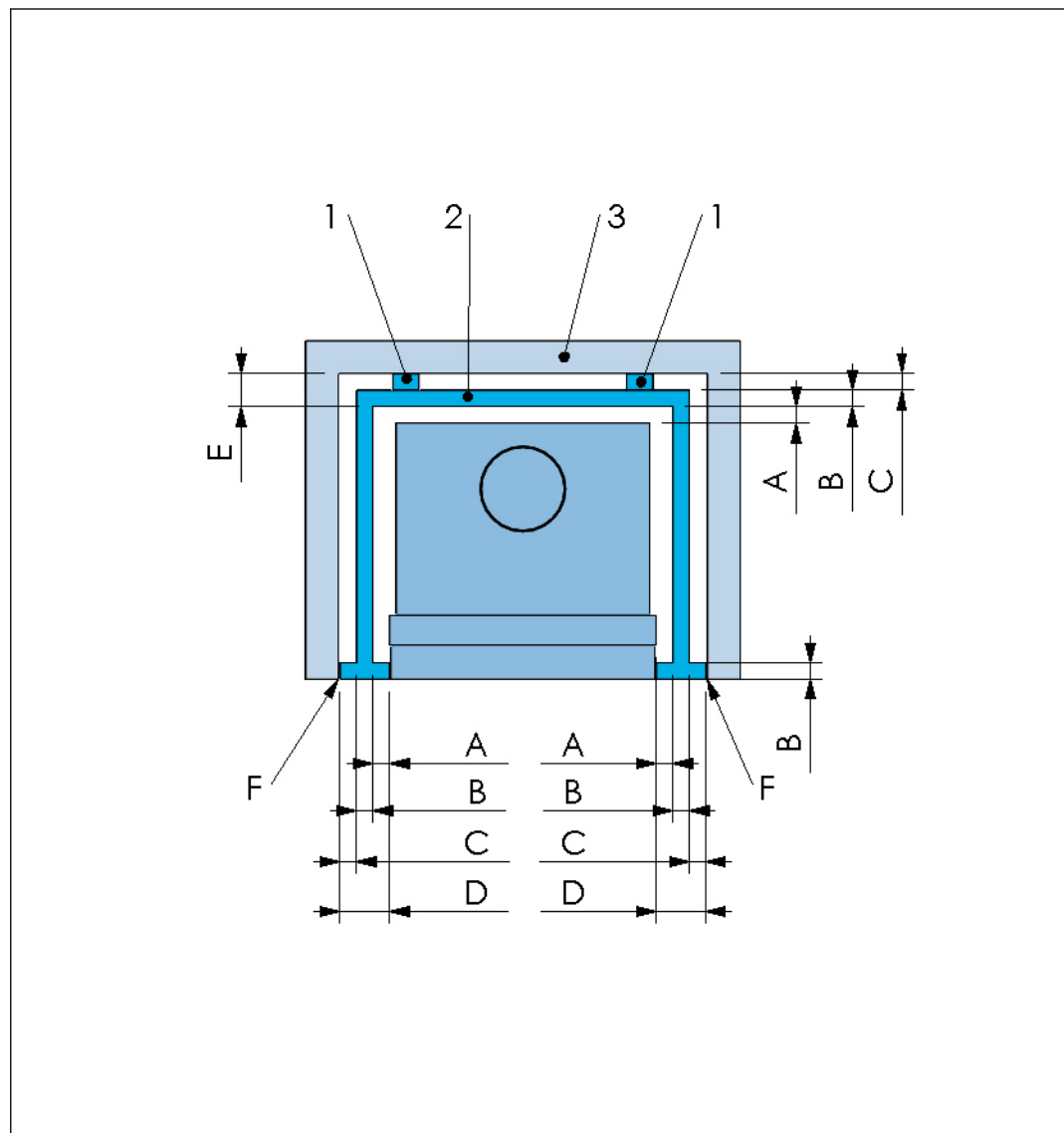


Figure 6. Clearances to flammable wall - Top view

Table 1: dimensions and minimum clearances to a flammable wall

Description		Insulation plate 25 mm
A	Air gap	25 mm
B	Thickness plate	100 mm
C	Air gap / Spacer ( $d_R$ , $d_S$ )	25 mm
D	A+B+C	150 mm
E	B+C	125 mm
F	Minimum 3 mm clearance between appliance and surrounding construction	

## 5.3 Clearance to flammable floor (under the appliance)

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.

## 5.4 Clearances to flammable ceiling

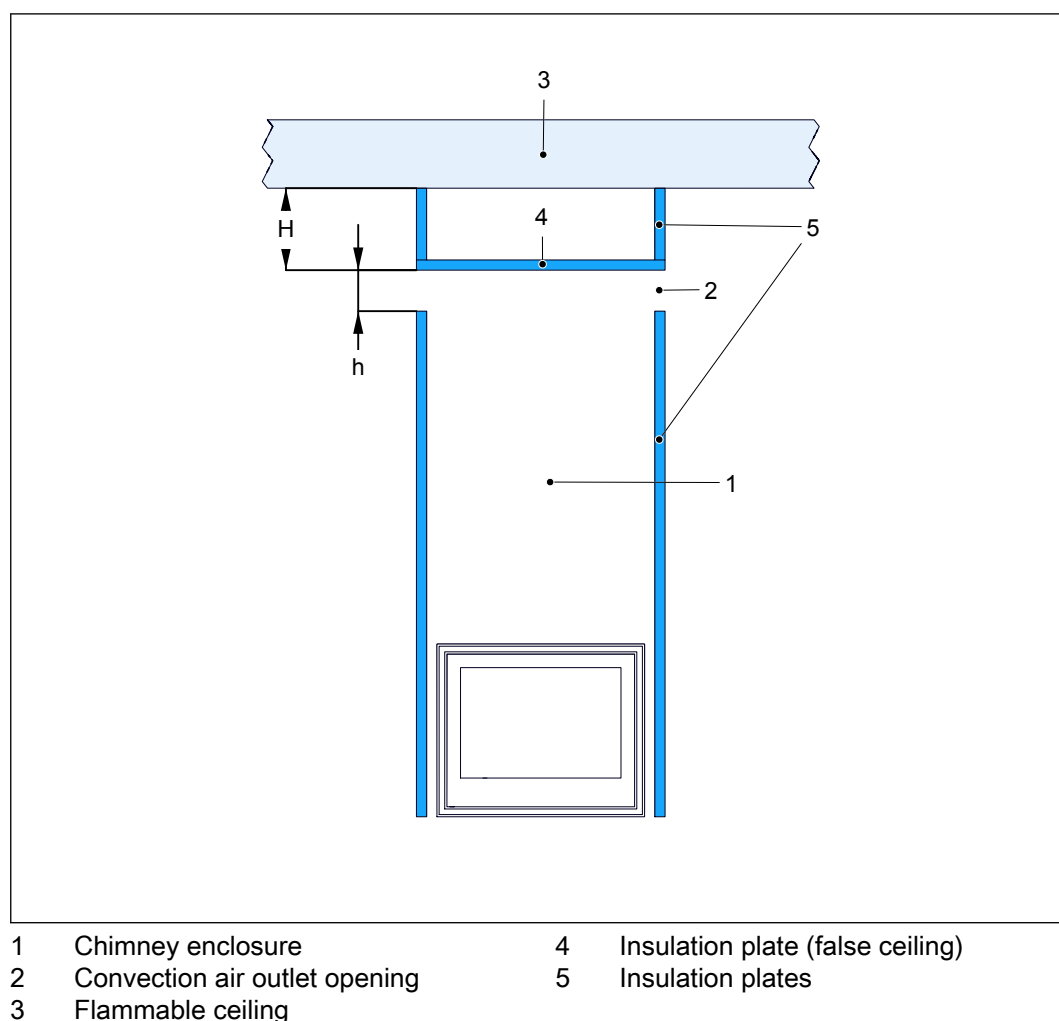
Put a non-flammable insulation plate (false ceiling) of minimum 7.5 cm thickness at a height of minimum 50 cm above the appliance. Keep a free space of minimum 50 cm ( $d_C$ ) between the insulation plate and the flammable ceiling.

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.



		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 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

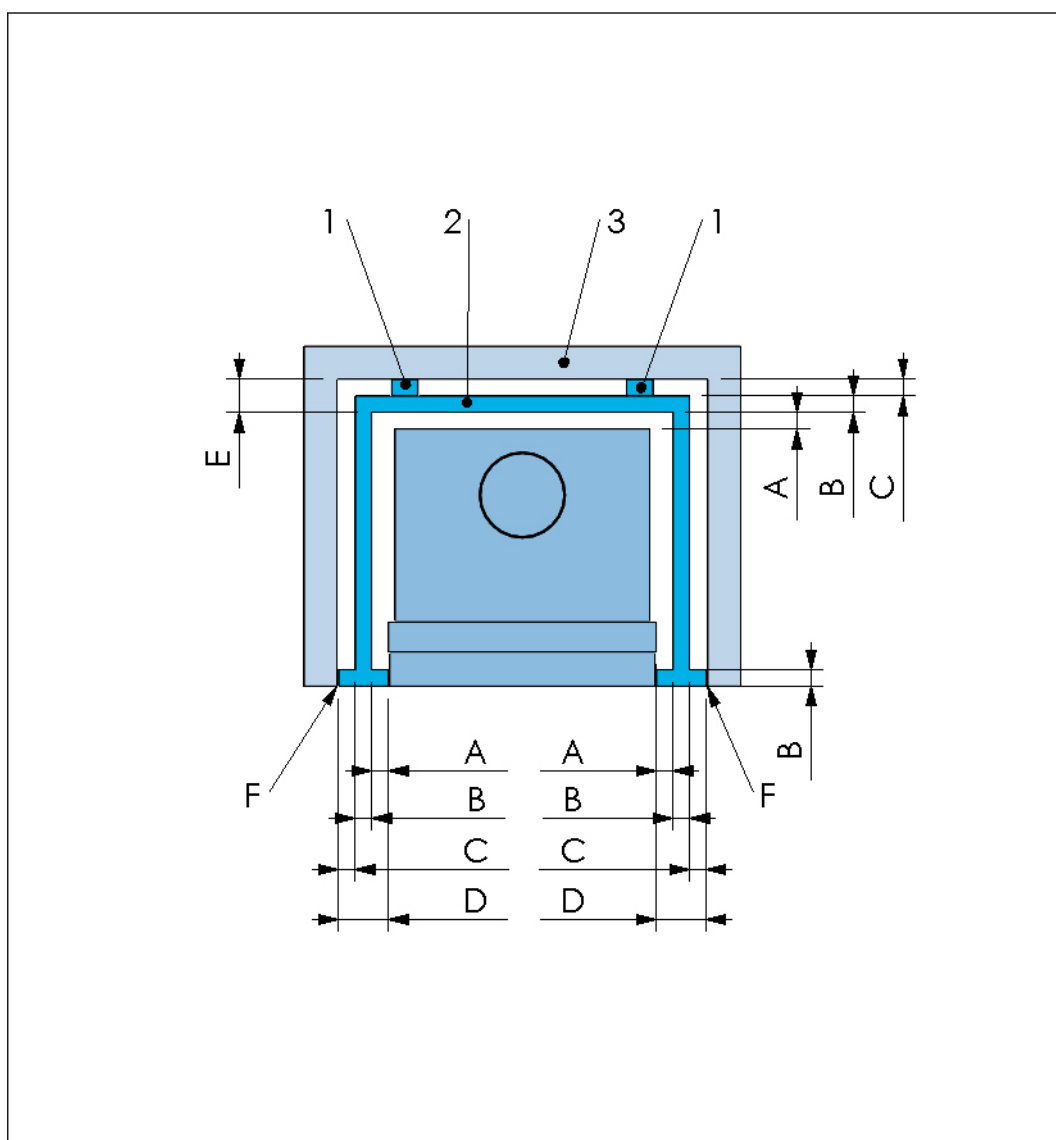
Put a non-flammable insulation plate between the appliance and the rear wall and side wall according [5.5](#)

[5.5](#) shows the minimum thickness of the insulation plates and the minimum clearances to non-flammable materials and walls.



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





- 1 Non-flammable spacer                      3 Non-flammable wall  
2 Non-flammable insulation plate

Figure 7. Clearances to non-flammable wall - Top view

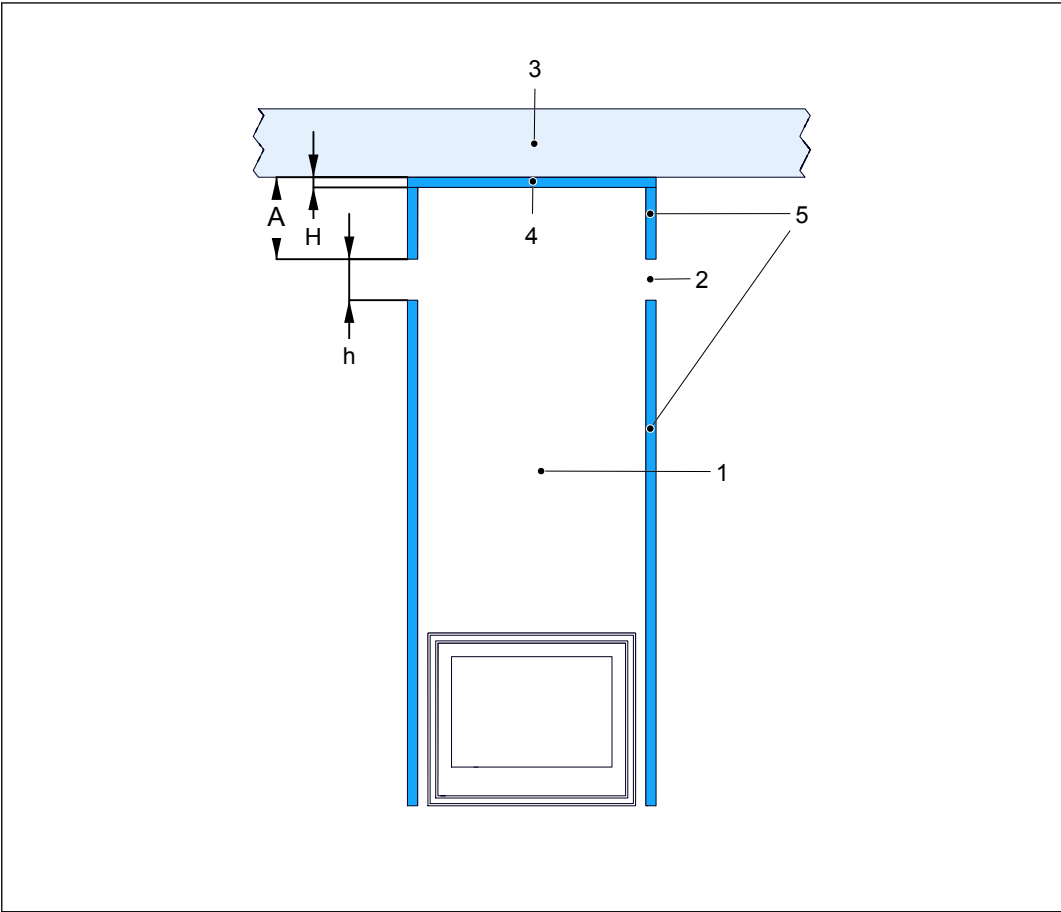
Table 2: Minimum dimensions between appliance and non-flammable walls

		Insulation plate 25 mm
A	Air gap	20 mm
B	Thickness plate	25 mm
C	Air gap / Spacer	20 mm
D	A+B+C	65 mm
E	B+C	45 mm
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.

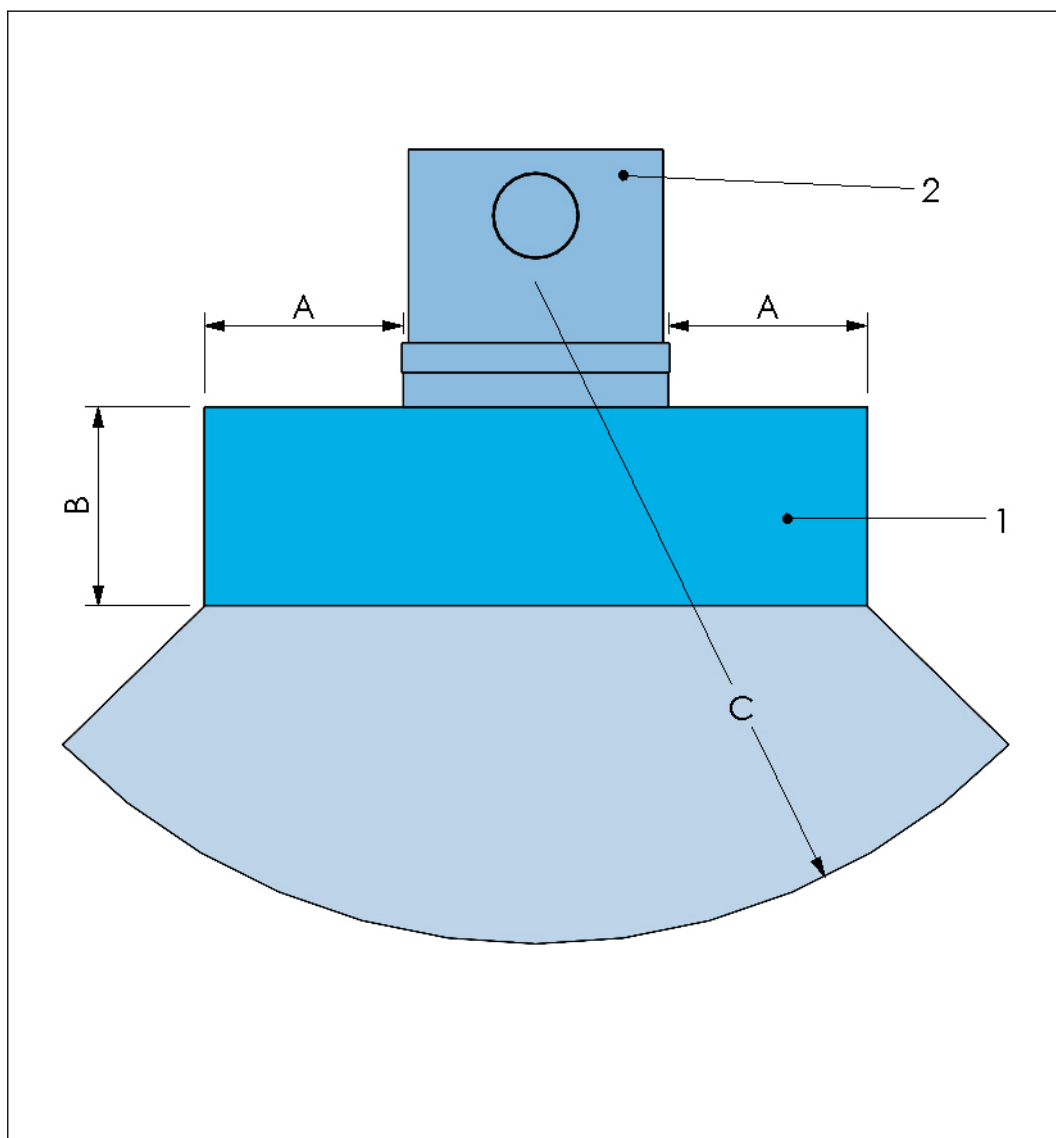
Obey the dimensions mentioned in the tabel hereunder.



- |   |                               |   |                                  |
|---|-------------------------------|---|----------------------------------|
| 1 | Chimney enclosure             | 4 | Insulation plate (false ceiling) |
| 2 | Convection air outlet opening | 5 | Insulation plates                |
| 3 | Non-Flammable ceiling         |   |                                  |

		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 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.

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 50 cm clearance ( $d_L$ ) to the side radiation area of the appliance. Minimum 120 cm ( $d_p$ ) clearance direct in front of the appliance.

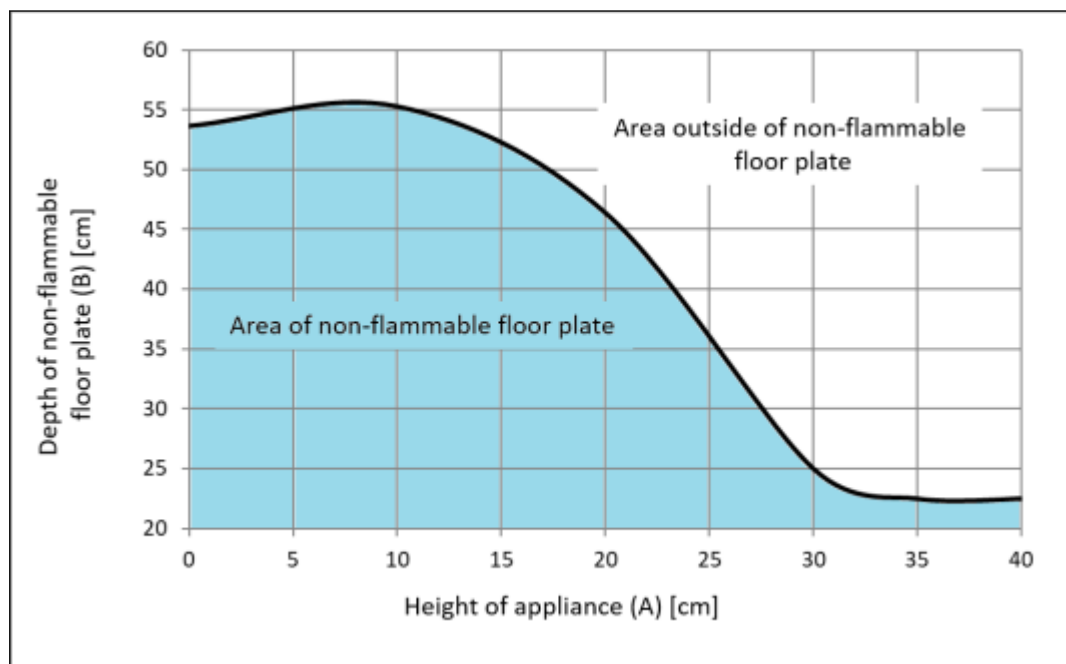


Figure 8. Height of appliance versus depth of the non-flammable floor plate

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

### 6.1 Installation requirements

#### 6.1.1 Requirements on the installation of the appliance in an existing fireplace

This section refers to the installation of the appliance in an existing open (masonry) fireplace.

- Make sure that the location agrees with the safety requirements. Refer to section [4.1](#)
- Make sure the opening in the fireplace is large enough for a gap of 1 - 3 cm between the appliance and the inner fireplace walls .
- Make sure the floor can support the weight of the appliance. Refer to section [9](#) for the weight of the appliance.
- Make sure that the floor temperatures in front of the appliance cannot be higher than 85 °C, during use of the appliance. Refer to section [5.7](#).
- The non-combustible floor in front of the appliance must have a width that extends at least 150 mm from each side of the appliance and a minimum depth in front of the appliance according the requirements in section [5.7](#).
- 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.

#### 6.1.2 Requirements on the installation of the appliance in a new built fireplace



**Important:**

- 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 chapter [5.3](#) and chapter [5.7](#).
- Make sure the distance between the underside of the appliance and the floor is minimum 1 cm.
- Make sure that the location agrees with the safety requirements. Refer to chapter [4.1](#).
- Make sure to obey the clearances as listed in chapter [5](#).
- Make sure the floor can support the weight of the appliance. Refer to chapter [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.
- Make sure there is a 3 mm clearance on the sides and top of the appliance to allow forexpansion of the appliance during use.
- Install ventilation openings near the bottom and near the top of the fireplace surround, to avoid heat accumulation in the fireplace surround.
- Make sure the total ventilation air inlet openings have a minimum area of 450 cm<sup>2</sup>. (2 inlet openings of minimum 225 cm<sup>2</sup>.)
- Make sure the total ventilation air outlet openings have a minimum area of 450 cm<sup>2</sup>. (2 outlet openings of minimum 225 cm<sup>2</sup>.)

### 6.1.3 Requirements on the chimney

- Make sure the flue system obeys the national and local applicable regulations.
- 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.
- If the appliance is installed on an existing (masonry) chimney, make sure the chimney is in good order and applicable for the appliance. Ask your dealer or chimney sweeper for advice.
- Make sure to use an appropriate chimney adapter, to connect the flue pipe to an existing chimney, that prevents air leakage from the fireplace surround to the existing chimney.
- Make sure the weight of the chimney is not supported by the appliance.
- Do not connect more than one appliance to the same chimney.
- The flue system must have a temperature class designation of at least T400.
- The inner diameter of the chimney must be at least 130 mm over the total length.
- Use a steel chimney pipe with a wall thickness of at least 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 at least 5 meter above the top of the appliance.
- The chimney outlet must be at least 40 cm above the top of a sloped roof.
- The chimney outlet must be at least 1 meter above a flat roof.
- The chimney outlet must be free from any objects (buildings, trees, etc.) within a horizontal range of at least 5 meter.
- If applicable, make sure an existing chimney valve has a free opening of minimum 12 % of the total area of the chimney, when closed.
- Make sure your fire insurance policy covers any damage caused by a chimney fire.

### 6.1.4 Requirements on the external combustion air pipe

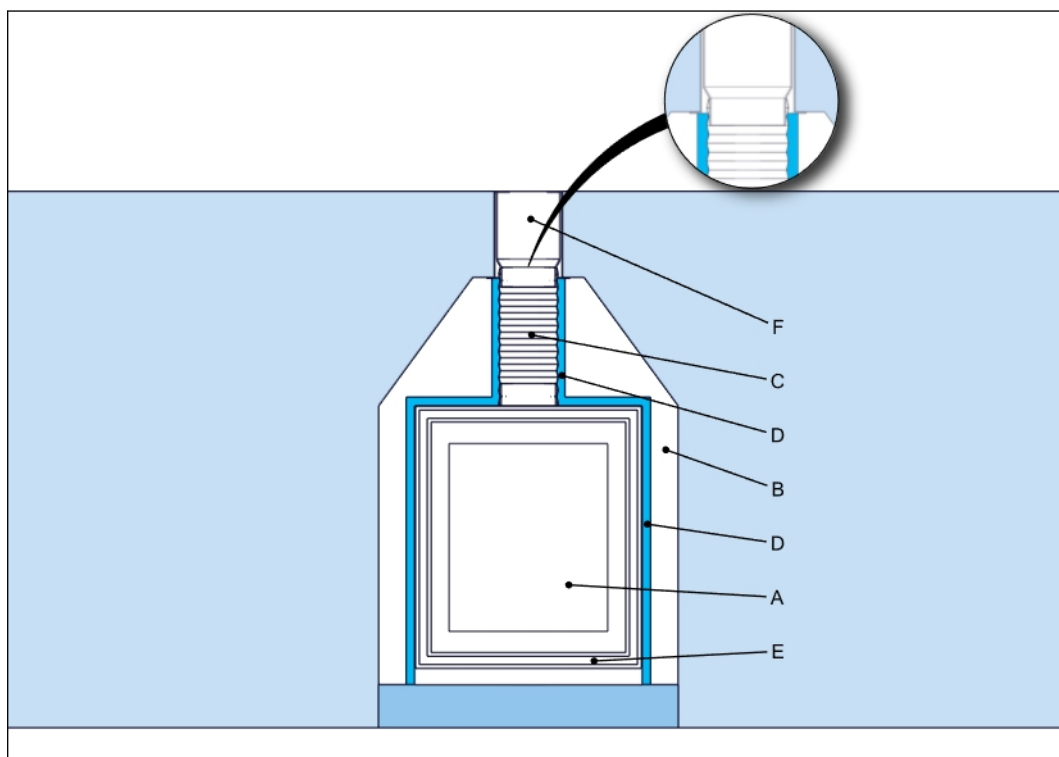
- Make sure the external combustion air pipe obeys the national and local applicable regulations.
- The inner diameter of the combustion air pipe must be minimum 80 mm over the total length.
- Use a flexible stainless steel or aluminum pipe.
- The maximum length of the external combustion air pipe is 3 meter.
- Do not use more than 1 bend of 90°.
- Make sure the position of the air inlet pipe at any point is not higher than the upper side of the appliance.
- 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.

## 6.2 Installation in an existing open fireplace

### 6.2.1 Preparation

1. Remove the existing fire basket and any other parts in the open fireplace.
2. Make sure the floor of the open fireplace is flat and not damaged.
3. Make sure the inner walls of the open fireplace are not damaged.
4. Put a layer of ceramic wool against the inner walls of the fireplace opening. Refer to chapter [5.1](#) for specifications.

5. Put an appropriate chimney adapter on the existing chimney.
6. Connect a stainless steel flexible pipe of sufficient length to the chimney adapter and secure it with a hose clamp.



- |   |                         |   |                      |
|---|-------------------------|---|----------------------|
| A | Appliance               | D | Ceramic insulation   |
| B | Existing open fireplace | E | Combustion air inlet |
| C | Flue gas pipe           | F | Chimney adapter      |

*Figure 9. Chimney adapter*

7. Put a layer of ceramic wool around the flexible flue pipe.
8. Remove the interior of the appliance. Refer to chapter 8 for instructions.

9. Remove the flue pipe connector.
  - a) Remove the screws that hold the flue pipe connector.

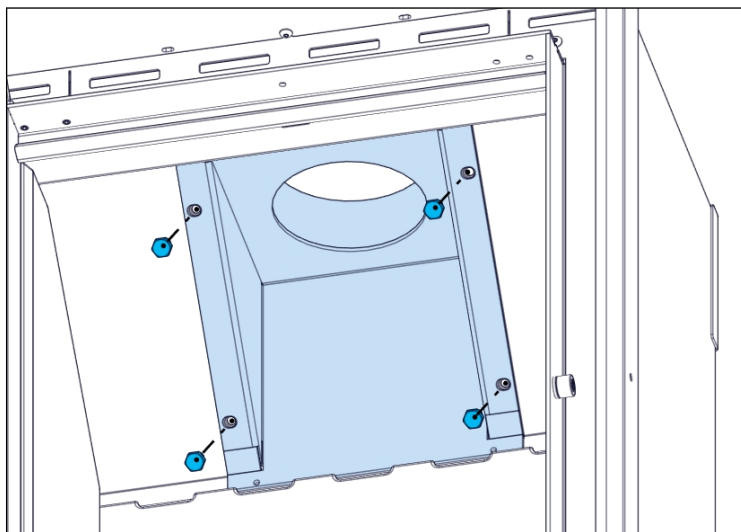
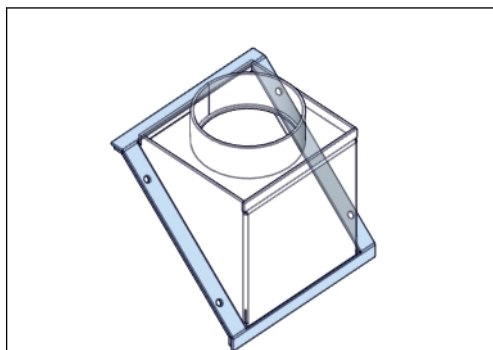


Figure 10. Flue pipe connector

- b) Carefully remove the flue pipe connector. Make sure the white gasket on the flue pipe connector does not damage.



## 6.2.2

### Install the appliance

1. Connect the stainless steel flexible flue pipe to the chimney adapter. Use a hose clamp to attach the flexible flue pipe to the chimney adapter.
2. Put the appliance in the correct position in the existing fireplace .
3. Make sure that the appliance is installed horizontally. Use a spirit level.
4. Pull the flexible flue pipe through the opening in the top of the appliance
5. Connect the flexible flue pipe on the flue pipe connector. Use a hose clamp. Make sure the gasket on the flue pipe connector is not damaged.
6. Push the flue pipe connector with the flue pipe into the correct position in the appliance.
7. Attach the flue pipe connector to the appliance with the 4 screws. Make sure the white gasket is in the correct position.
8. Put a layer of ceramic wool on the top of the appliance. Refer to section [5.1](#) for specifications of the ceramic wool.
9. Put all the interior parts in the correct position in the appliance. Refer to section [5.1](#) for instructions.



## 6.2.3 Final check on the appliance

1. Make sure the door closes and opens easy.
2. Make sure the control lever moves easy to left and right without undue noise.
3. Make sure all ceramic plates, the grate and the baffles are in the correct position.

Contact your dealer if the final check shows a defect.

## 6.3 Installation in a new fireplace

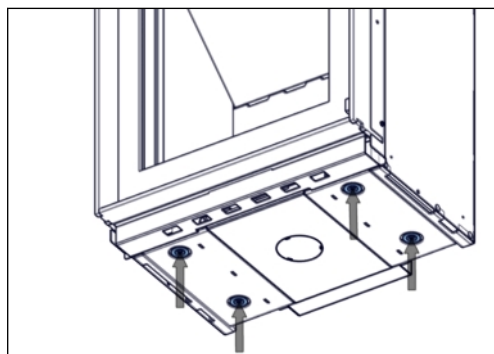
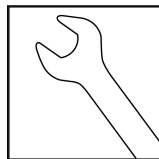
### 6.3.1 Install the appliance

1. Put the appliance on the intended and correct position.
2. If applicable, connect the external combustion air supply pipe to the appliance.

To connect the optional external combustion air supply to the rear of the appliance, refer to chapter [6.3.2](#).

To connect the optional external combustion air supply to the bottom of the appliance, refer to chapter [6.3.3](#).

3. Make sure that the appliance is installed horizontally. Use a spirit level.
4. If necessary, adjust the adjustable feet. Use a 13 mm fork spanner.



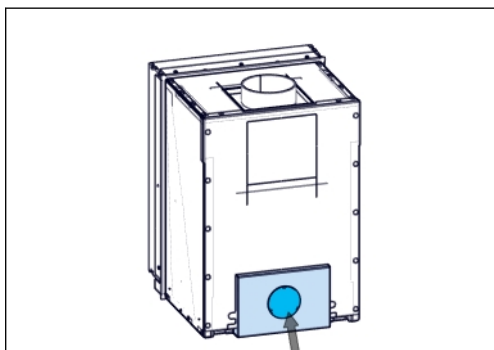
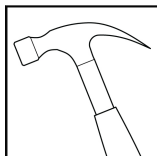
### 6.3.2 Connect the optional external air supply (rear connection)



#### Note:

- The appliance has the possibility to connect a supply pipe for external combustion air. During operation the appliance gets combustion air from this air duct. The appliance however, is not a room-sealed appliance according to the requirements for room-sealed appliances.
- The external air supply connection is only available when ordered with the appliance.
- 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.

1. Remove the round break out plate at the rear of the appliance with a hammer.



2. Put the connection ring in the open external air inlet opening.
3. Bend out the 3 lips on the connection ring to attach the connection ring on the inlet opening.
4. Identify the location in the outer wall for the external combustion air supply inlet.
5. Make a hole in the outer wall with at a minimum diameter of 80 mm.
6. Put a flexible aluminum pipe in the hole.
7. Install a grate in the hole in the outer wall and attach the flexible aluminum pipe to it.
8. Attach the other end of the flexible aluminum pipe on the connection ring. Use a hose clamp.

### 6.3.3

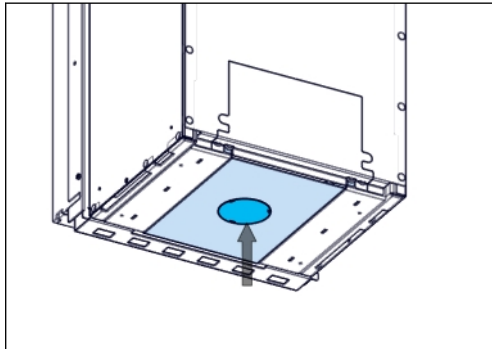
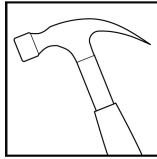
#### Connect the optional external air supply (bottom connection)



**Note:**

- The appliance has the possibility to connect a supply pipe for external combustion air. During operation the appliance gets combustion air from this air duct. The appliance however, is not a room-sealed appliance according to the requirements for room-sealed appliances.
- The external air supply connection is only available when ordered with the appliance.
- 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.

1. Remove the round break out plate at the bottom of the appliance with a hammer.



2. Put the collar adaptor in the open external air inlet opening.
3. Bend out the 3 lips on the collar adaptor to attach the collar adaptor on the inlet opening.
4. Identify the location in the floor for the external combustion air supply inlet.
5. Make a hole in the floor with at a minimum diameter of 80 mm.
6. Put a flexible aluminum pipe in the hole.
7. Attach the other end of the flexible aluminum pipe on the collar adapter. Use a hose clamp.

## 6.3.4

### Connect the flue gas pipe

The appliance can be connected to steel pipes, double-walled insulated stainless steel flues and flexible stainless steel flues.

#### Preliminary requirements

- If the appliance is installed on an unlined, masonry flue with a large diameter, use an insulated flue lining system .
- 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 to use a chimney adapter with the correct dimensions
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 [5.1](#) for the material requirements.

### 6.3.5 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.

### 6.3.6 Build the fireplace



**Important:**

- Refer to chapter [5](#) for clearances to flammable and non-flammable materials.
- Refer to chapter [5.1](#) for applicable insulating plates.
- Make sure that brickwork is build with a clearing of at least 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 making the brickwork.
  - 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 fitting boxes of the ventilation air inlet and the ventilation air outlet must be put. Refer to chapter [6.1.2](#) for requirements on the size of the ventilation air openings.
  2. If applicable, identify the positions where the fitting boxes of the convection air outlets must be put. Refer to chapter [6.1.2](#) for requirements on minimum distances from ceiling and neighboring wall.
  3. Build the brickwork around the appliance up to the upper frame around the glass.
  4. Install the fitting boxes of the ventilation air inlets.
  5. 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 at least 3 mm between the appliance and the mantle iron.
  6. Build the fireplace around the appliance.
    - a) Install the fitting boxes of the ventilation air outlets.
    - b) If applicable, install the fitting boxes of the convection air outlets
  7. If applicable, install the decorative frame on the appliance.

## 6.3.7

### 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. Make sure the control lever moves easy to left and right without undue noise.
3. Make sure all ceramic plates and the baffles are in the correct position.

Contact your dealer if the final check shows a defect.

## 7 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.

### 7.1 Appliance

1. Remove ashes from the floor of the combustion chamber.
2. Examine the door seals. Replace damaged seals.
3. Remove the grate and empty the ash tray.
4. Examine the baffle for damage. Replace when damaged.
5. Clean both sides of the glass with glass spray or ceramic hob cleaner.
6. Clean the inside of the appliance with a soft brush.
7. 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.

### 7.2 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.

### 7.3 Chimney

**Note:**

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

1. Sweep and inspect the chimney
2. Make sure there is no blockage in the chimney, for example by birds' nests.
3. Make sure the chimney is in good condition. Examine for cracks, loose parts and flue gas leakage. It is recommended to use an inspection camera.

Make sure to remove the baffles before the chimney sweep starts. Refer to chapter 8 for the procedure to remove the baffles.

Make sure to replace the baffles after the finish of the chimney sweep work and before firing the appliance.

## 8 Removal of the interior of the combustion chamber

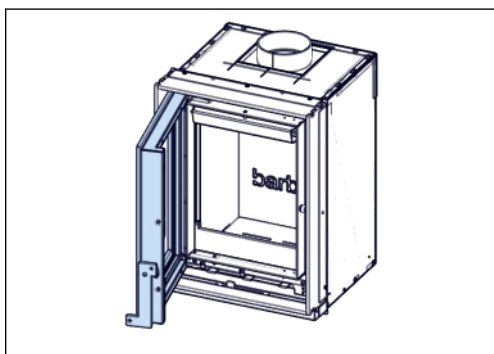


### Note:

For chimney sweep work, only remove the upper baffle (refer to step 4 of this instruction) and lower baffle (refer to step 5 of this instruction).

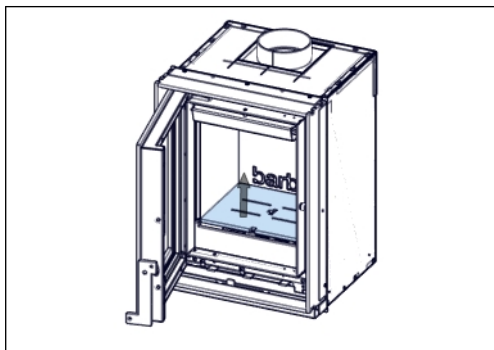
### 1. Remove the door

- a) Open the door completely.

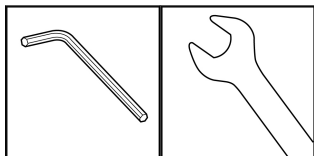


### 2. Remove the bottom

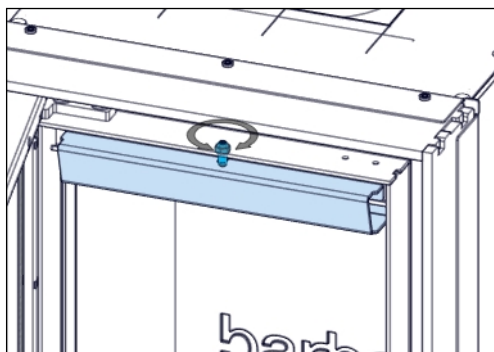
- a) Lift the grate and remove from the combustion chamber.
- b) Lift the left and right steel bottom plate and remove from the combustion chamber.



### 3. Remove the upper baffle



- a) Loosen the nut above the heat shield with a 3 mm hexagonal key and a 10 mm fork spanner. Make sure the nut stays attached to the socket screw.



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



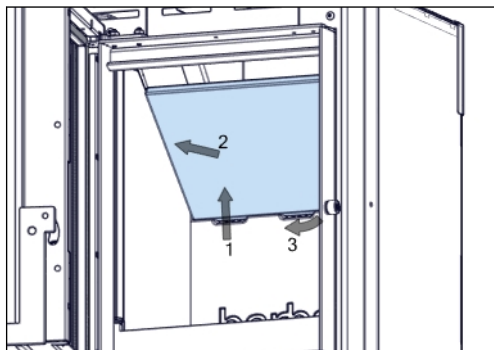
- c) Remove the upper baffle from the appliance.





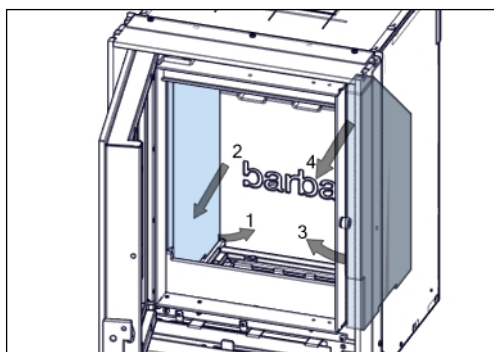
### 4. Remove the lower baffle.

- a) Push up the back side of the lower baffle and move it as far back as possible.
- b) Lower the front side of the lower baffle and remove it from the appliance.



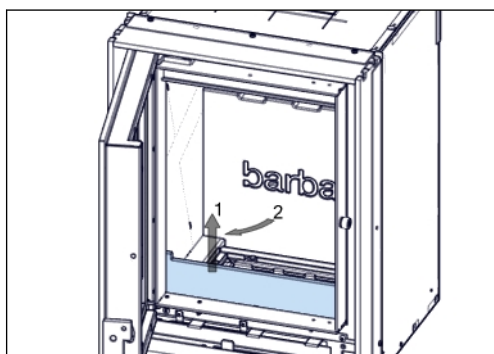
### 5. Remove the ceramic side panels

- a) Move the left side panel a little upward and inwards (1) and remove it from the appliance (2).
- b) Move the right side panel a little upward and inwards (3) and remove it from the appliance (4).



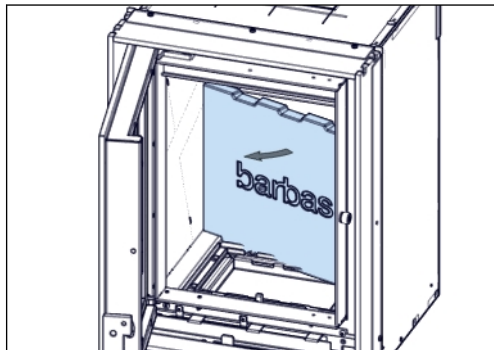
### 6. Remove the log guards

- a) Lift the front log guard and remove from the combustion chamber.



7. **Remove the ceramic back panel.**

- a) Move the bottom of the ceramic back panel forward and remove it from the appliance.



**Note:**

To put the parts of the combustion chamber interior back, do the above instructions in opposite order.

## 9 Technical data

### 9.1 Technical data

Name	Barbas
Model	Unilux-7 45
EPREL registration number	446938
Tested in accordance with	EN 16510-2-2: 2022
Energy efficiency index	100
Energy efficiency class	A
Fuel	Wood logs, Wood briquettes
Nominal fuel load	1.4 kg
Nominal heat output (net)	6 kW
Minimum heat output (net)	5 kW
Useful efficiency at nominal heat output	75.8 %
Useful efficiency at minimum heat output (indicative)	≥ 75 %
Seasonal efficiency	65.8 %
Indirect heating function	No
Room sealed	No (type B/BE)
<b>Emissions (at 13 % O<sub>2</sub>, 273 K, 1013 hPa)</b>	
• carbon monoxide (CO)	1171 mg/Nm <sup>3</sup>
• particles (PM)	20 mg/Nm <sup>3</sup>
• organic gaseous compounds (OGC)	110 mg/Nm <sup>3</sup>
• nitrogen oxides (NO <sub>x</sub> )	104 mg/Nm <sup>3</sup>
Flue gas mass flow	6.3 g/s
Flue gas outlet temperature	362 °C
Flue gas temperature	302 °C
Minimum chimney draught	12 Pa (0,12 mbar)
Flue gas connection	Ø 126 mm, suitable for a pipe with an inner diameter of 130 mm
External combustion air connection	80 mm
Weight	87 kg
<b>Minimum distance to flammable materials</b>	
• side wall • back wall • floor • ceiling	Refer to chapter 5
<b>Used materials</b>	
• Combustion chamber back and side panels	Heat resistant ceramic 1600 kg/m <sup>3</sup> / Vermiculite 750 kg/m <sup>3</sup> *)
• Combustion floor and grate	Steel
• Lower baffle	Heat resistant ceramic 2000 kg/m <sup>3</sup> / Vermiculite 750 kg/m <sup>3</sup> *)

• Upper baffle	Steel
• Front 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:	<ul style="list-style-type: none"> <li>• Installation and maintenance manual</li> <li>• User manual</li> </ul>
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>

\*) Dependent on the choice made at the time of purchase.


\*\*) 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

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

Model identifier		Unilux-7 45									
Equivalent models		N.A.									
Indirect heating function		No									
Direct heat output		6 kW									
Indirect heat output		- kW									
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Emissions at nominal heat output (*) [mg/Nm <sup>3</sup> (13 % O <sub>2</sub> )]				Emissions at minimum heat output (**)(***) [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	20	110	1171	104	N.A.	N.A.	N.A.	N.A.	
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 $\eta_{s, \text{ [%]}}$		66									
Energy efficiency index (EEI)		100									
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	
Heat output				Useful efficiency (NCV as received)							
Nominal heat output	P <sub>nom</sub>	6.0	kW	Useful efficiency at nominal heat output	$\eta_{th, \text{nom}}$	75.8	%				
Minimum heat output (indicative)	P <sub>min</sub>	N.A.	kW	Useful efficiency at minimum heat output (indicative)	$\eta_{th, \text{min}}$	N.A.	%				
Auxiliary power consumption				Type of heat output/room temperature control (select one)							
At nominal heat output	e <sub>l, max</sub>	N.A.	kW	Single-stage heat output, no room temperature control						yes	
At minimum heat output	e <sub>l, min</sub>	N.A.	kW	Two or more manual stages, no room temperature control						no	
In standby mode	e <sub>l, sb</sub>	N.A.	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 Hallenstraat 17 5531 AB BLADEL The Netherlands			www.barbas.com							
(*) PM = particulate matter, OGC = organic gaseous compounds, CO = carbon monoxide, NO <sub>x</sub> = nitrogen oxides (**) Only required if correction factors F(2) or F(3) are applied.											
Signed for and on behalf of the manufacturer by: Danny Baijens, CEO											
Bladel;		01 October 2025									

### 9.3 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 Frameless appliance

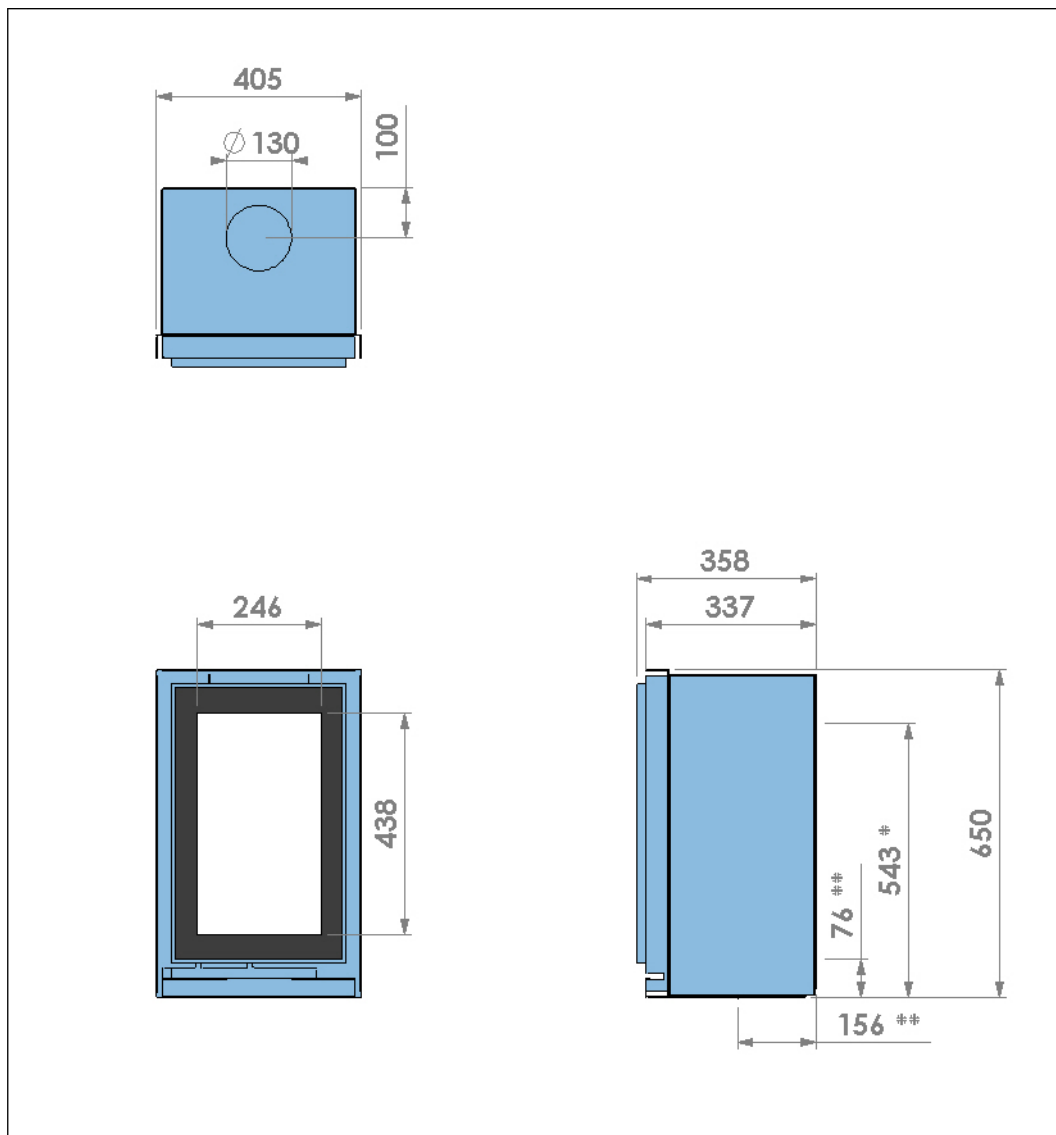


Figure 11. Dimensions of frameless appliance with screened glass door

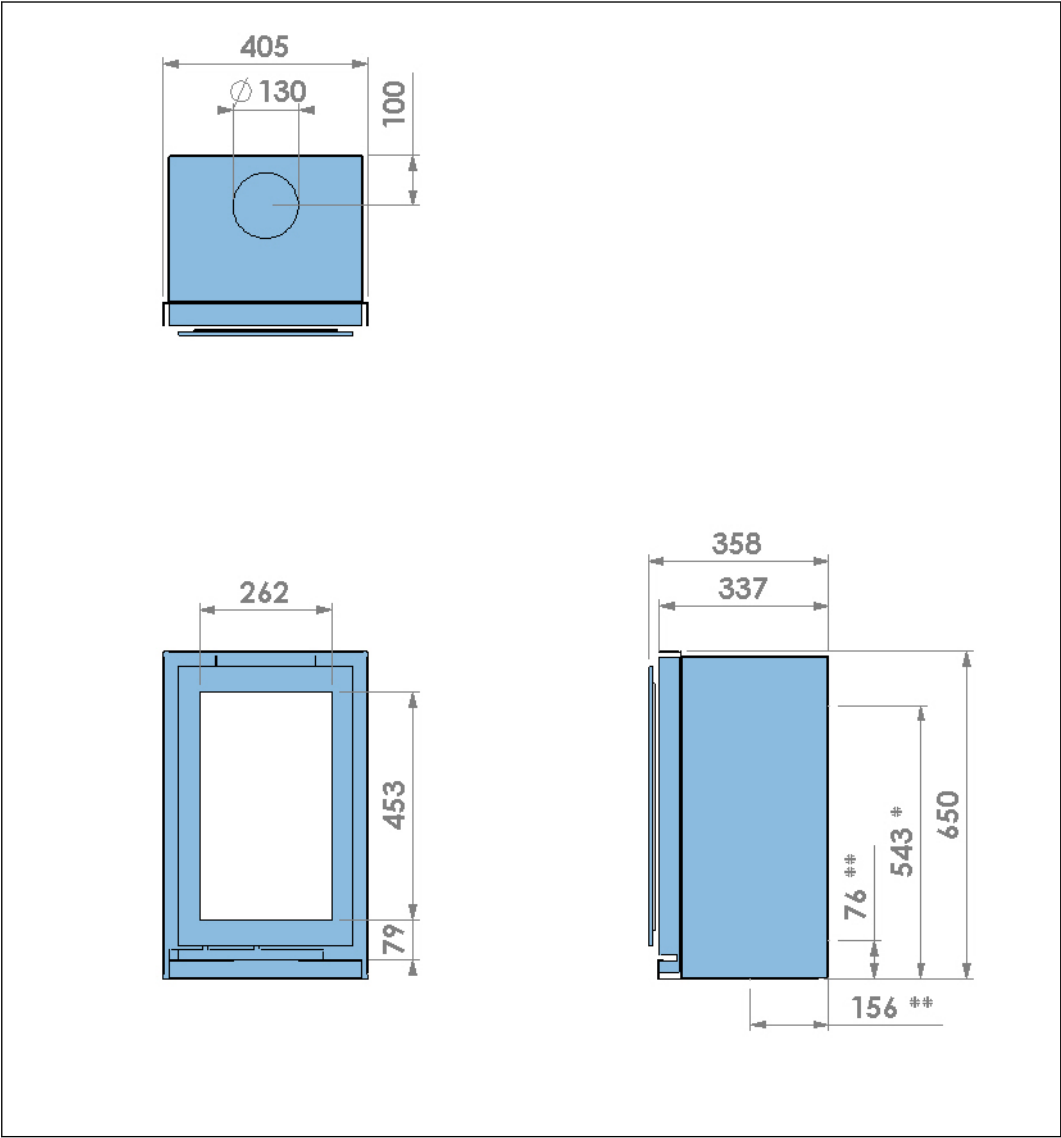


Figure 12. Dimensions of frameless appliance with steel frame door



## 10.2 Appliance with built-in frame

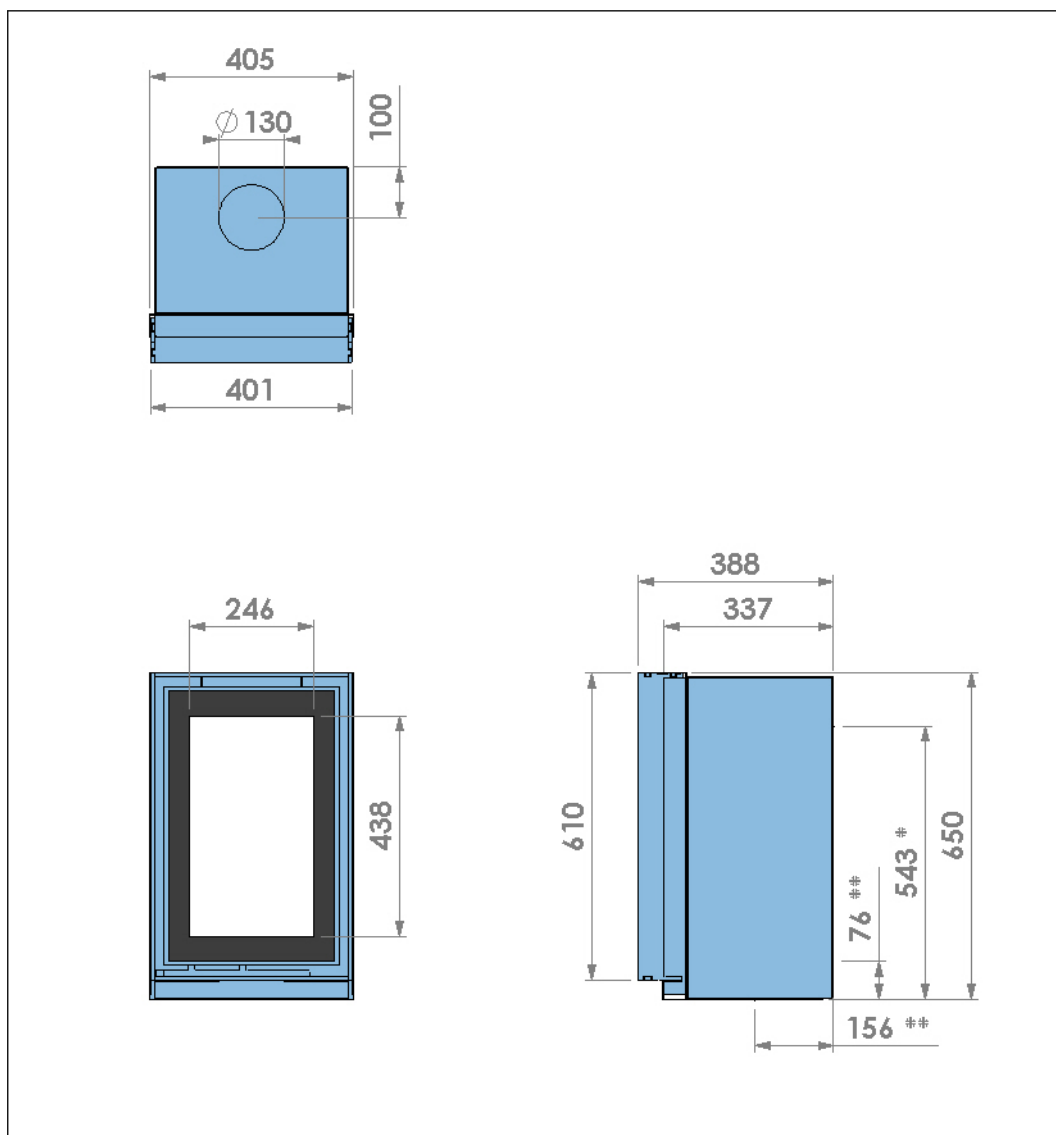


Figure 13. Dimensions of appliance with built-in frame and screened glass door

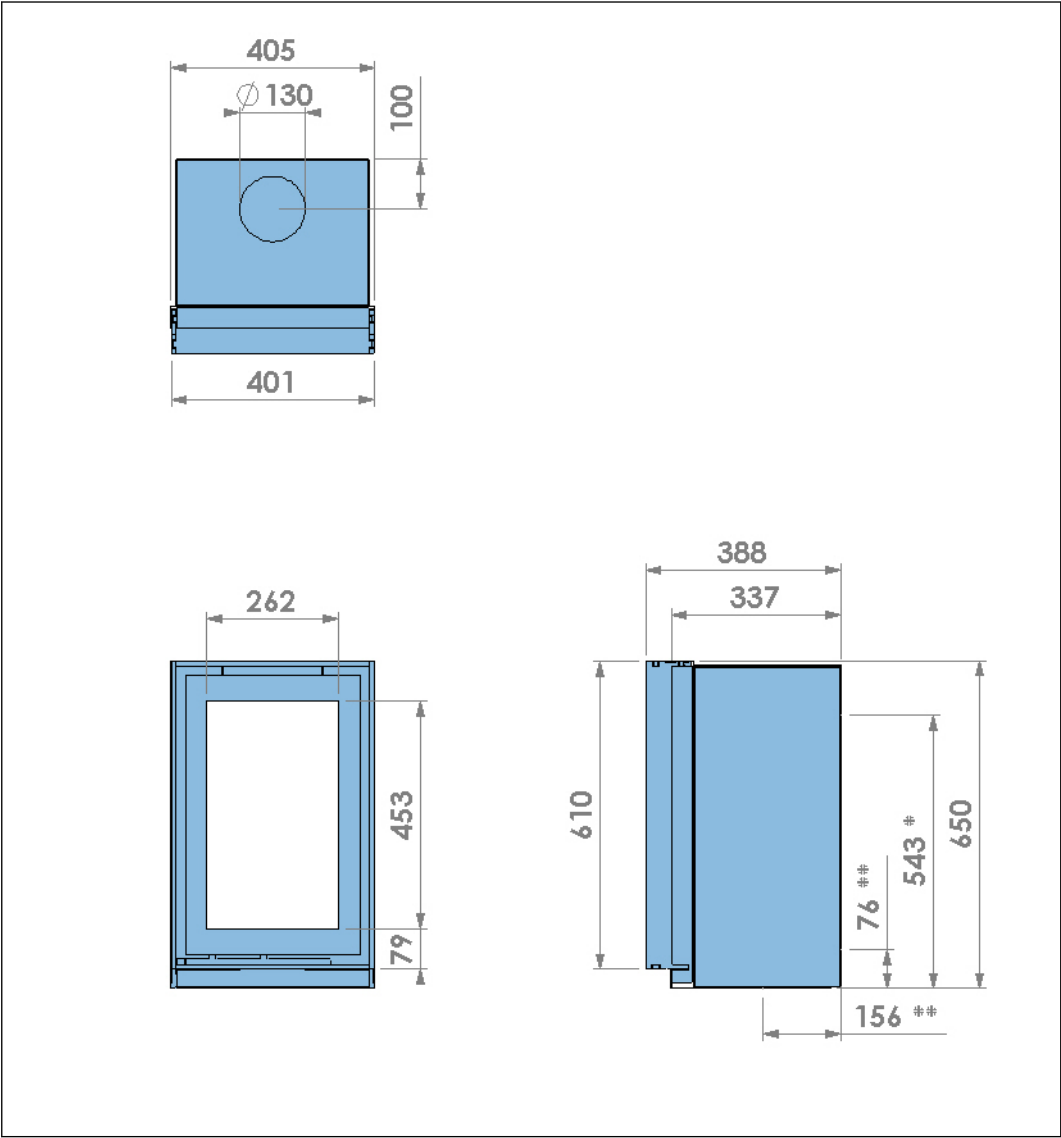


Figure 14. Dimensions of appliance with built-in frame and metal frame door

### 10.3 Appliance with classic frame

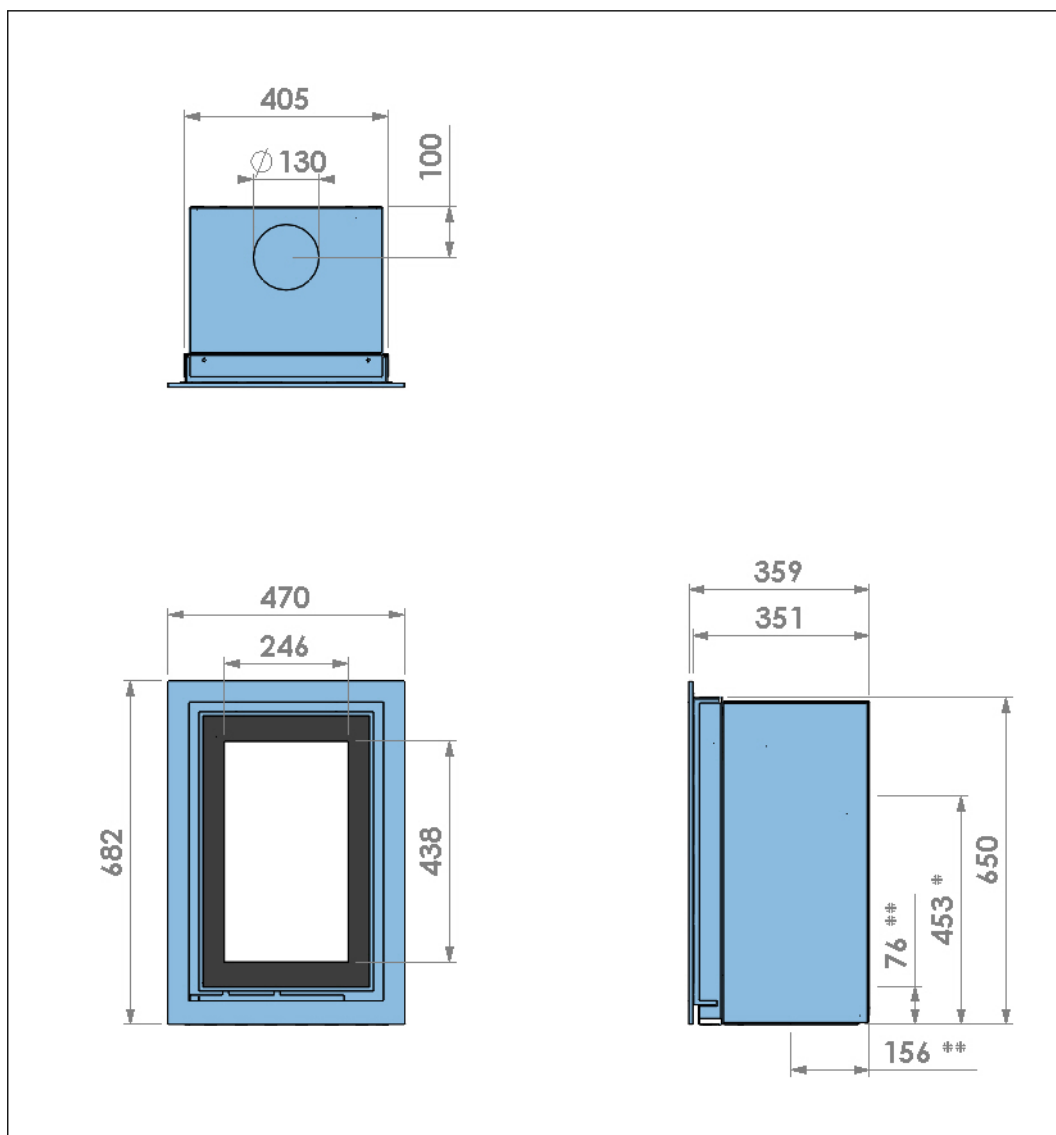


Figure 15. Dimensions of appliance with classic frame and screened glass door

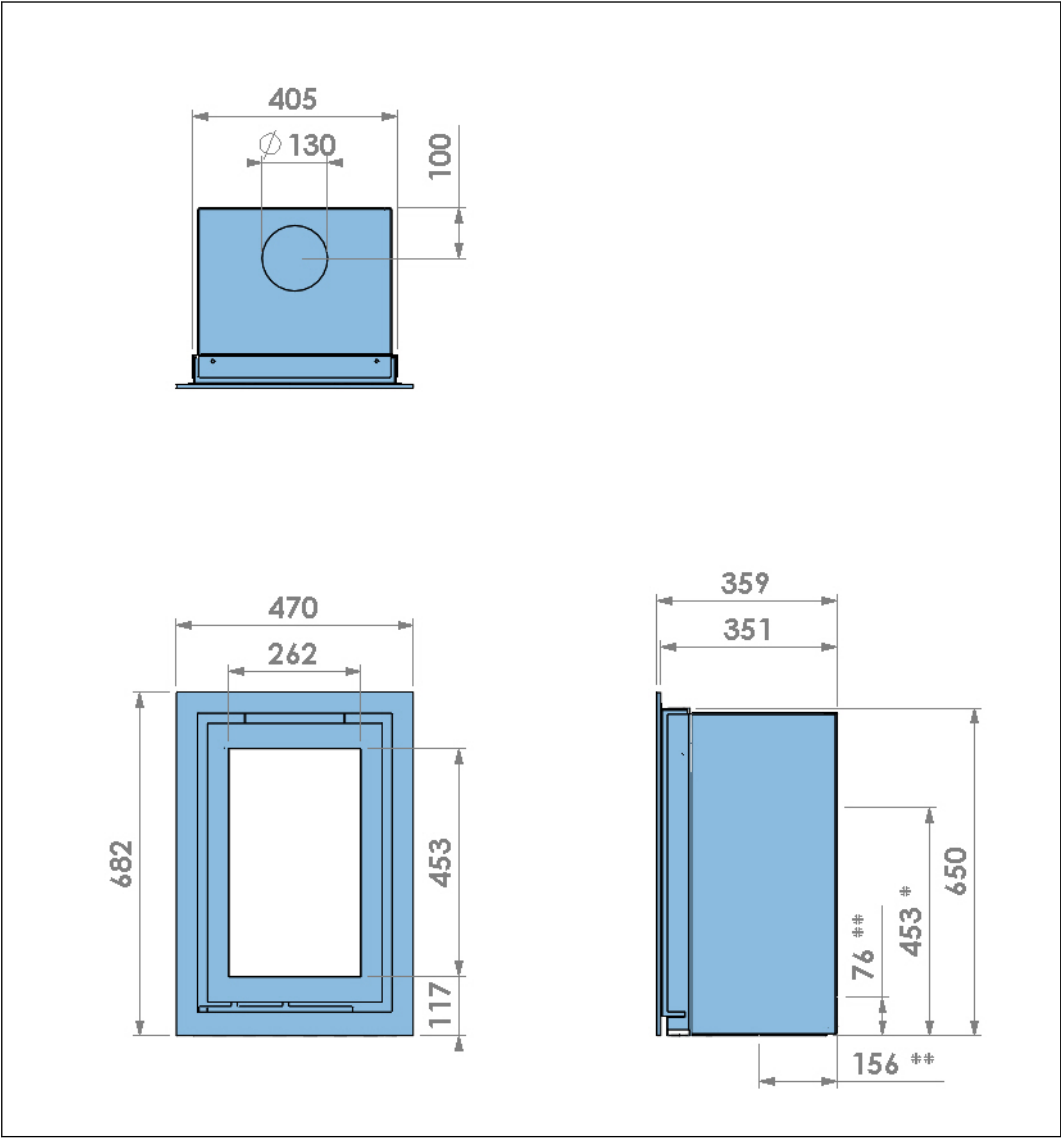


Figure 16. Dimensions of appliance with classic frame and metal frame door

## 10.4 Appliance with classic frame and 45° flue connector

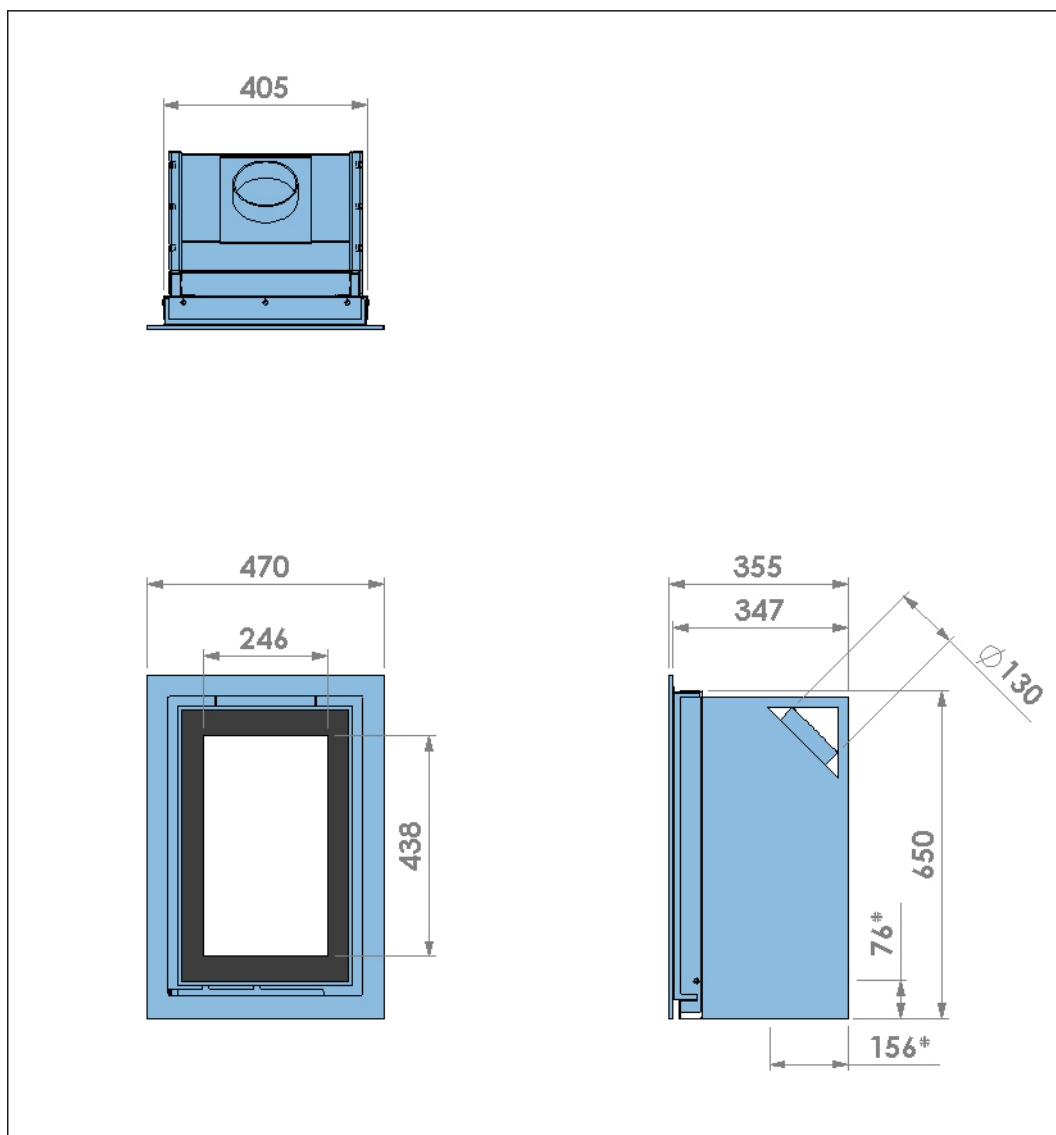


Figure 17. Dimensions of appliance with classic frame, 45° flue connector and screened glass door

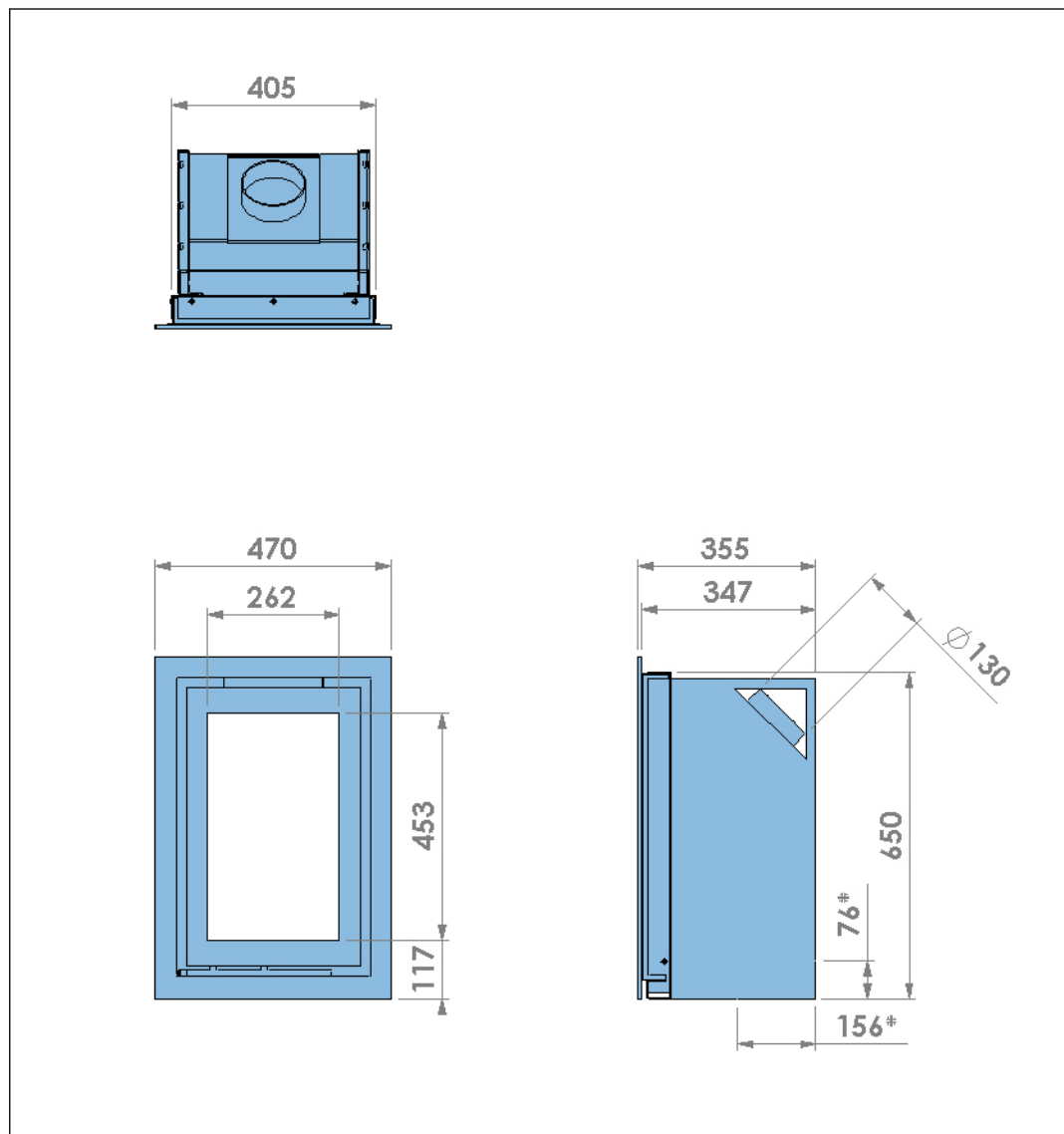


Figure 18. Dimensions of appliance with classic frame, 45° flue connector and metal frame door

## 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.  
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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