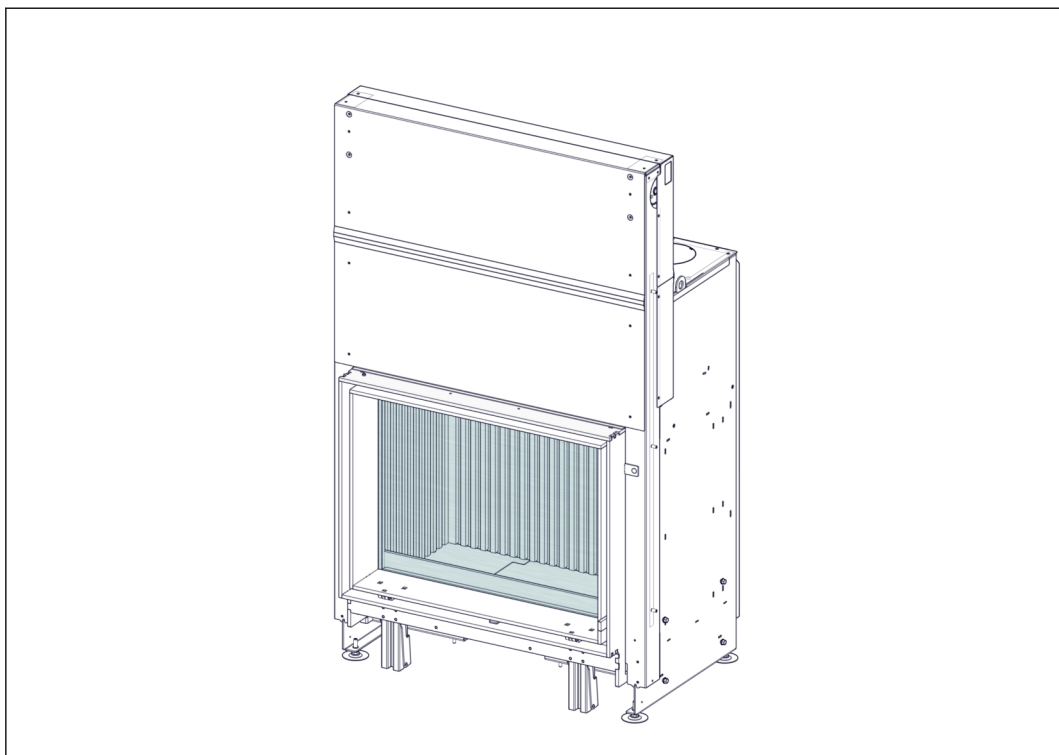


barbas .

Installation and maintenance manual

Evolux 65-45



This product is not suitable for primary heating purposes



Serial number:

Production date:

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Declaration of performance

barbas bellfires .
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EU-declaration of conformity			
This EC declaration of conformity applies to the product described below and describes the conformity with the following directives: 2009/125/EC Directive for the setting of eco-design requirements for energy-related products (eco-design directive) Relevant Regulation: (EU) 2015/1185			
Declaration of Performance			
No. 3.130.136-3 - CPR-2013/07/01			
Unique identification code of the product type:		Evolux 65-45	
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. 0608	
Essential characteristics			
Mechanical resistance and stability			
Load bearing capacity		N/A	
Safety in case of fire - Protection of combustible materials			
Bottom (d _b):		0 cm	
Floor in front (d _f):		60 cm	
Ceiling (d _c):		0 cm	
Rear (d _a):		0 cm	
Side (d _s):		0 cm	
Side radiation area (d _r):		130 cm	
Front (d _p):		130 cm	
Insulation material:		10 cm plates with $\lambda \leq 0.1$ W/m.K	
Hygiene, health and the environment			
Carbon monoxide emission (CO)		At nominal heat output 789 mg/m ³	
Nitrogen oxides emission (NO _x)		101 mg/m ³	
Emission of organic gaseous carbon (OGC)		43 mg/m ³	
Particulate matter emission (PM)		18 mg/m ³	
Safety and accessibility in use			
Flue gas outlet temperature		At nominal heat output 370 °C	
Minimum flue draught		12 Pa	
Flue gas mass flow		13.0 g/s	
Fire safety of installation to the chimney		T400 G minimum	
Energy economy and heat retention			
Space heat output		At nominal heat output 14.8 kW	
Efficiency		77.7 %	
Seasonal space heating efficiency		67.2 %	
Energy efficiency index (EEI)		102	
Energy efficiency class		A	
Electric power consumption		At nominal heat output 0.064 kW	At part load heat output 0.024 kW
		Standby mode 0 kW	
Sustainable use of natural resources			
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 26 November 2025	

2 About this document

This document shows the necessary information to do these tasks on the Evolux 65-45

- Installation
- Maintenance

This document refers to the Evolux 65-45 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

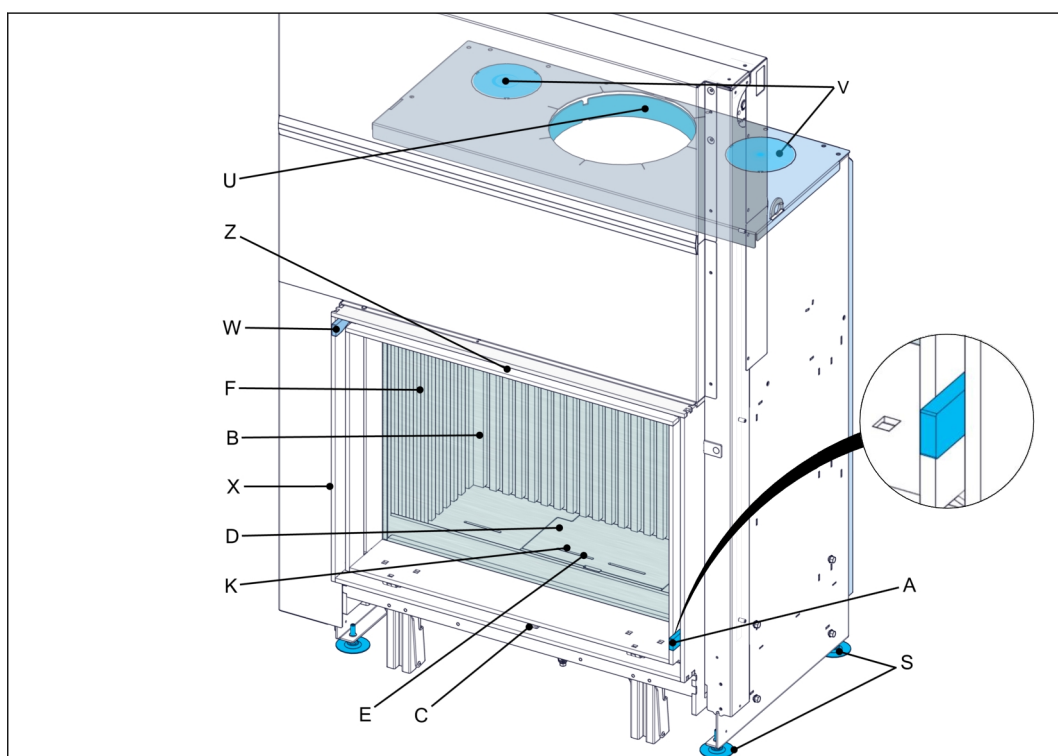
3 Description



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

B Glass

C Control lever

D Grate

E Ash tray

F Cast iron panels

K Primary air inlet

S Adjustable feet

U Flue connector

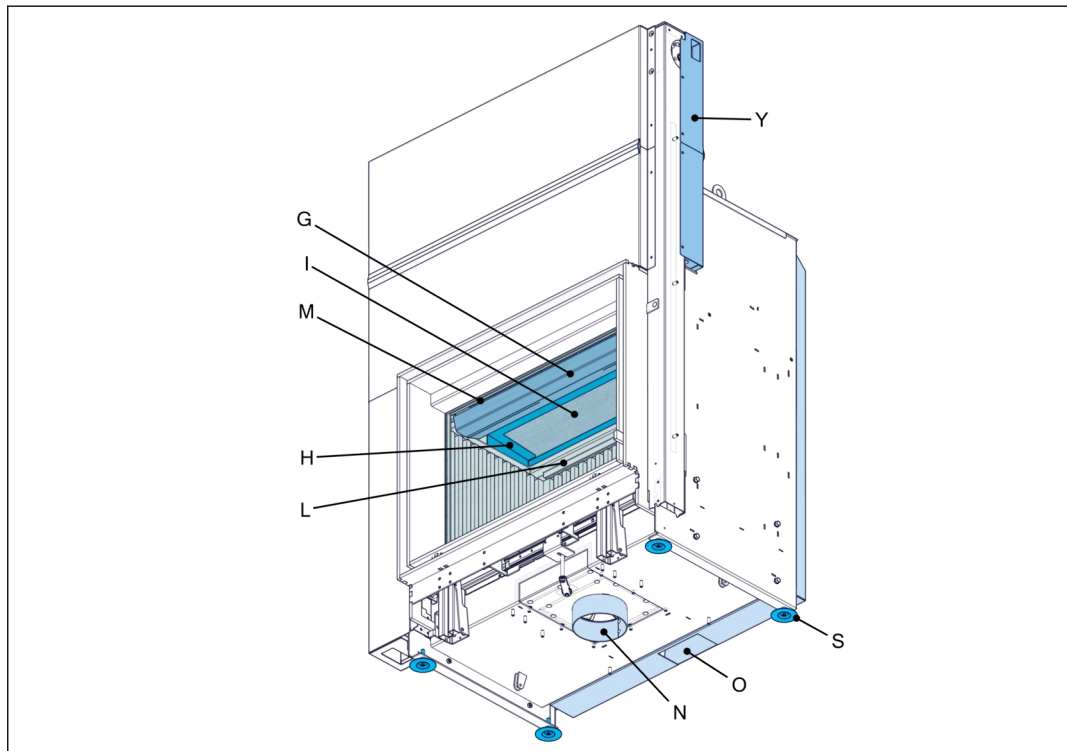
V Convection air outlet

W Fire screen handle

X Frame

Z Door lock handle

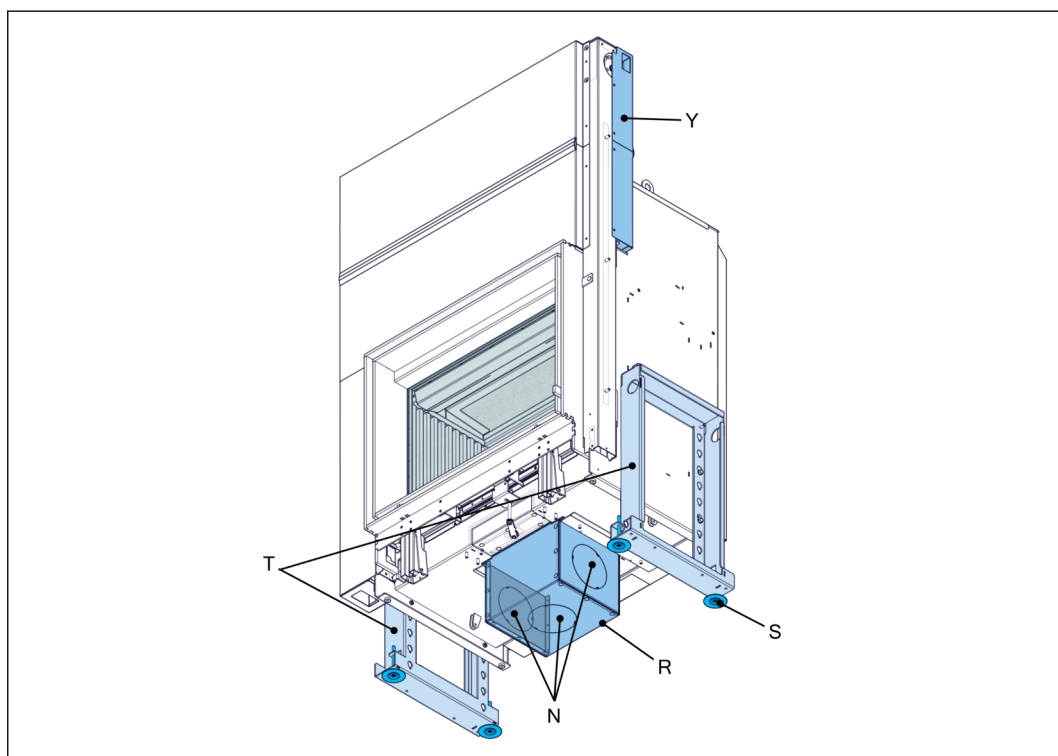
3.2 Overview of the bottom of the appliance



G Heat shield (steel)
H Lower baffle (ceramic)
I Upper baffle (vermiculite)
L Secondary air inlet
M Air wash inlet

N Combustion air inlet
O Convection air inlet
S Adjustable feet
Y Chain case cover

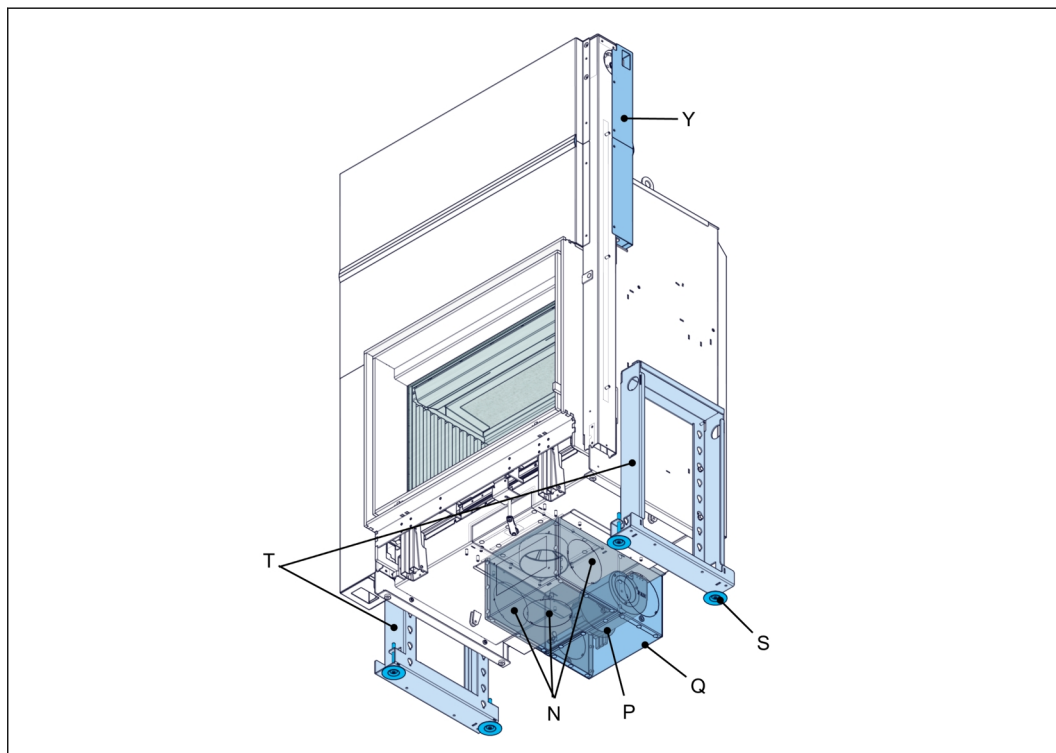
3.3 Overview of the combustion air inlet box



N Combustion air inlet
R Combustion air inlet box
S Adjustable feet

T Adjustable height frame (option)
Y Chain case cover

3.4 Overview of the convection ventilator / combustion air inlet box



- | | | | |
|---|--|---|----------------------------------|
| N | Combustion air inlet | S | Adjustable feet |
| P | Convection ventilator | T | Adjustable height frame (option) |
| Q | Convection ventilator / combustion air inlet box | Y | Chain case cover |

3.5 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. See note.
Combined convection ventilator / combustion air inlet box	The appliance can be installed with a combined convection ventilator / 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. See note
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.
Adjustable height frames	The appliance can be installed with 2 adjustable height frames. With these frames the appliance can be installed higher from the ground level.
Decorative stone bar	A natural stone bar at the front of the appliance.
Stone bar adapter	Use this to install a stone bar supplied by a third party supplier.
Fire screen	The appliance can have a safety screen to prevent accidental touching of the hot glass surface.

3.6 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.

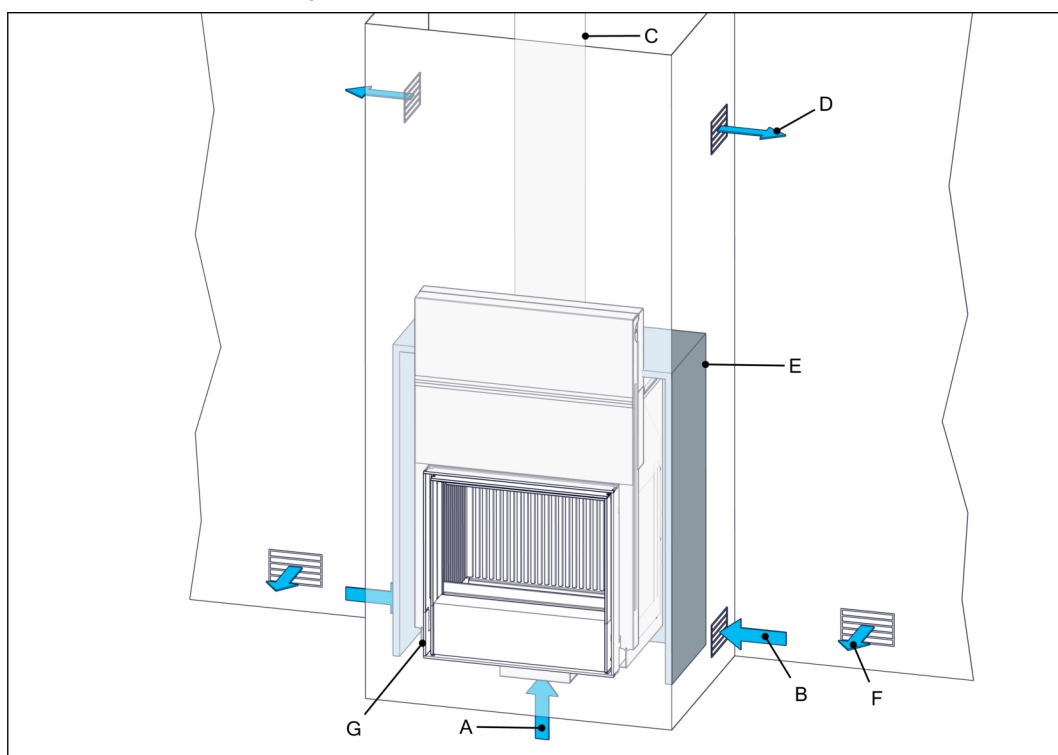
The appliance is intended for intermittent use and is not intended for continuous use.

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.

3.7 Installation examples

3.7.1 Combustion air supply from the installation room

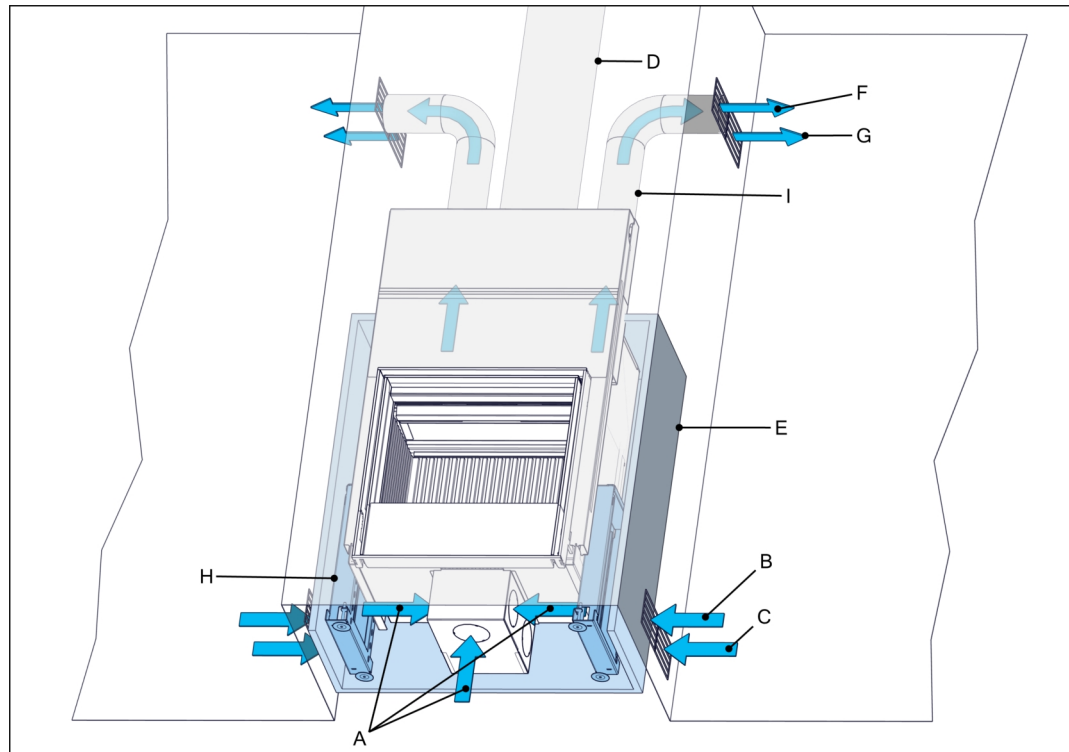


- A Combustion air inlet
- B Ventilation air inlet
- C Chimney
- D Ventilation air outlet

- E Insulating material
- F Air supply to the room
- G Adjustable feet

3.7.2

External combustion air supply with convection set



- | | | | |
|---|-------------------------------|---|--|
| A | Combustion air inlet | F | Convection air outlet |
| B | Convection air inlet opening | G | Ventilation air outlet |
| C | Ventilation air inlet opening | H | Adjustable height frame (option) |
| D | Chimney | I | Flexible aluminum pipe (convection set option) |
| E | Insulating material | | |

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 9.1 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 ³

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.

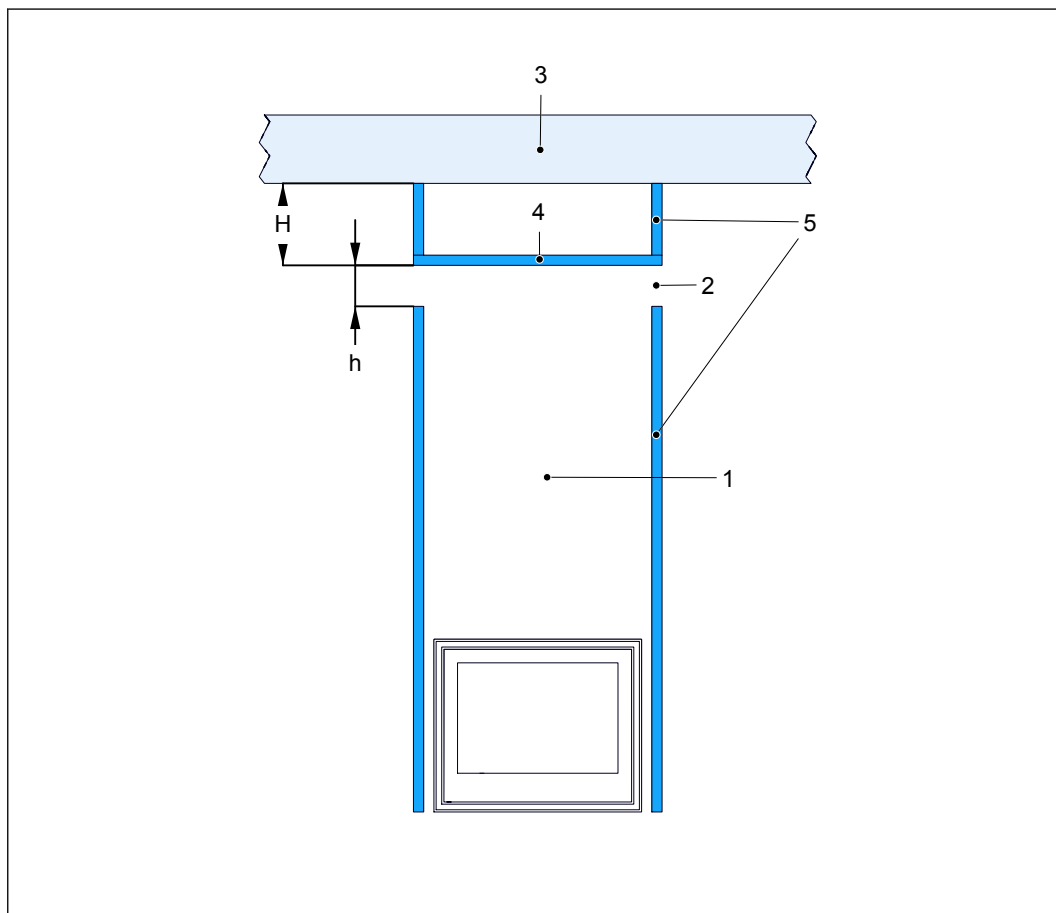
Put a non-flammable insulation plate (false ceiling) of minimum 7.5 cm thickness at a height of minimum 50 cm above the appliance. Keep a free space of minimum 50 cm (d_C) between the insulation plate and the flammable ceiling.

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 cm².

Obey the dimensions mentioned in the tabel under the figure.



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

		With false ceiling	Without false ceiling
h	Area of the convection air outlet opening	Minimum 300 cm ²	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 _C) + 7.5 cm false ceiling)	Not applicable (the top side of the chimney enclosure is open with a clearance of minimum 50 cm (d _C) to the flammable ceiling.

5.5

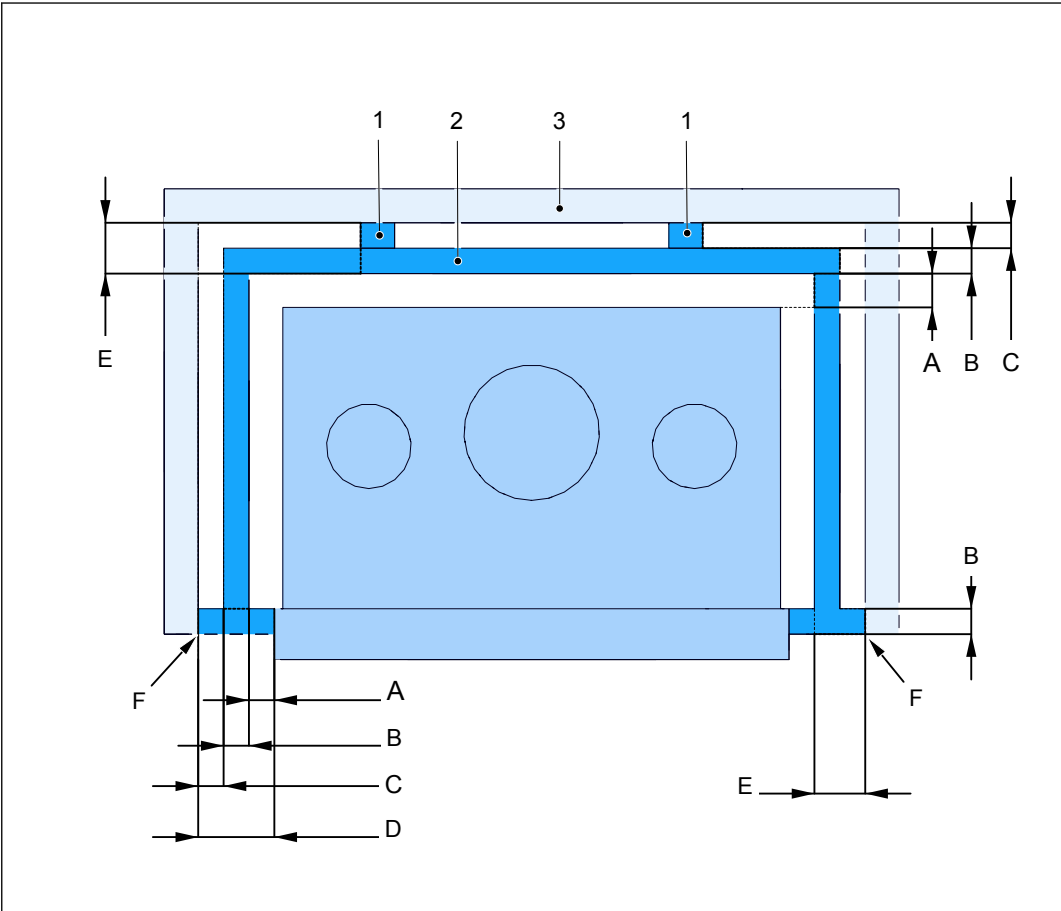
Clearances to non-flammable walls



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.



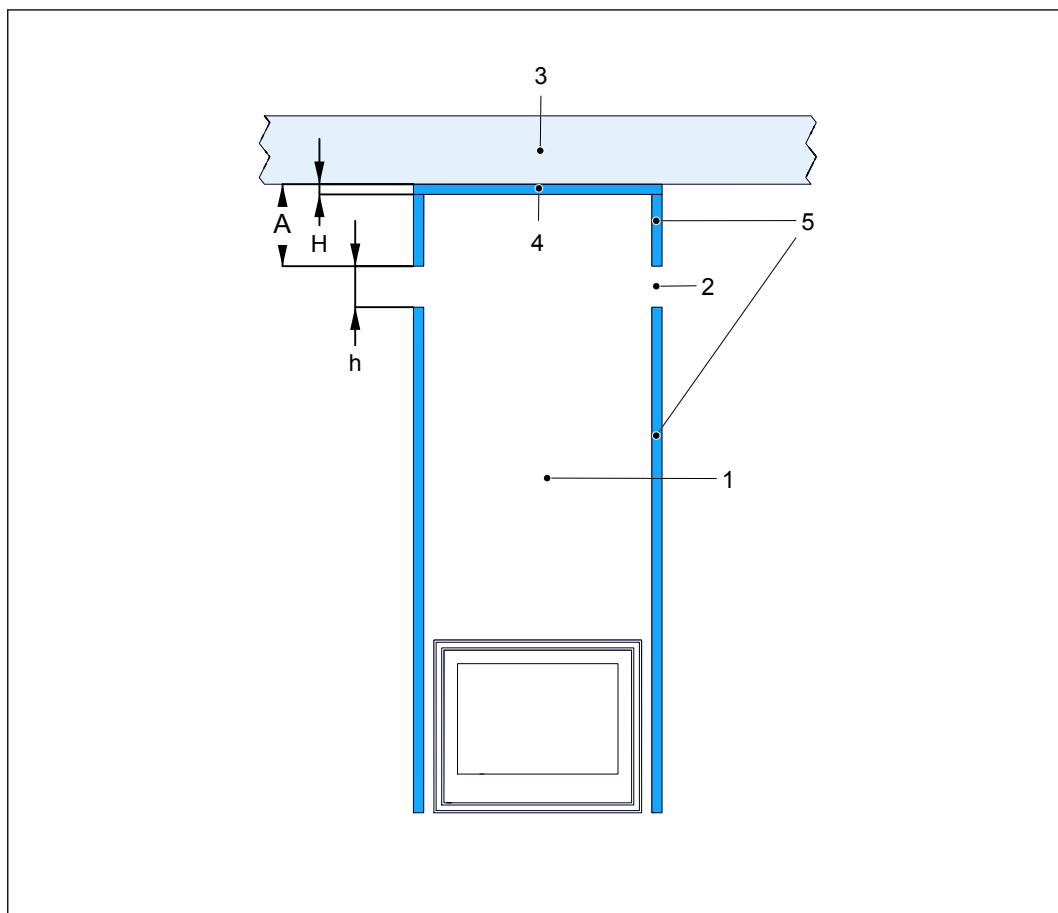
- 1 Non-flammable spacer
- 2 Non-flammable insulation plate
- 3 Non-flammable wall

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 | 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 ²
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



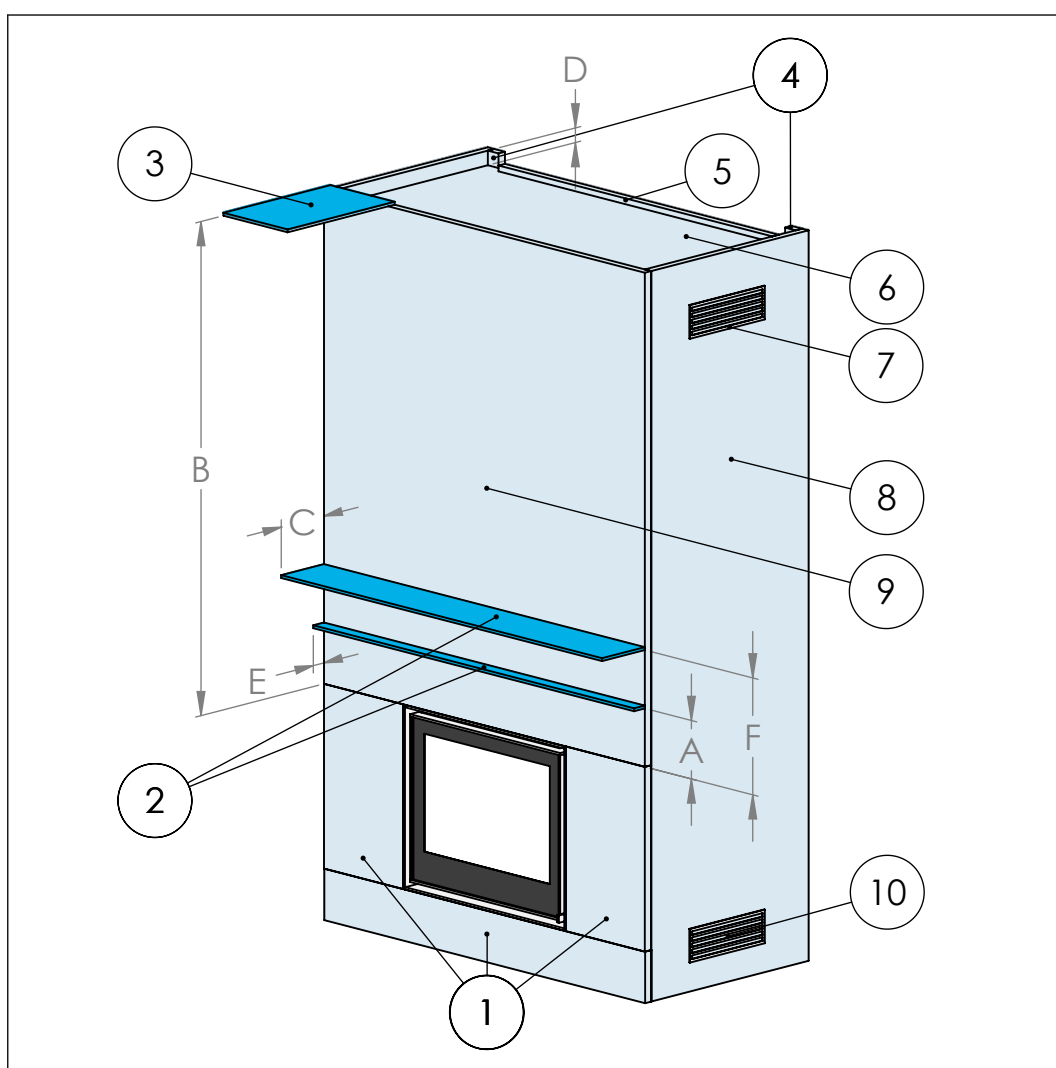
Caution:

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.

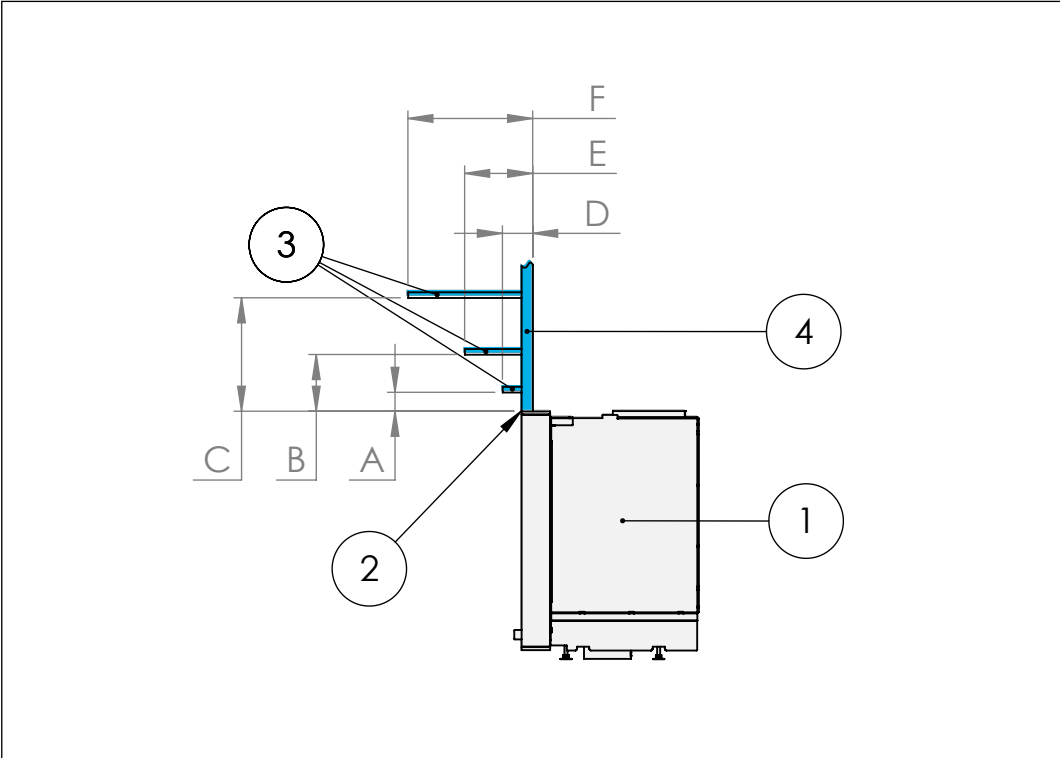
The pictures below show the minimum clearances between mantel pieces and the appliance.



- 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 cm²
- 8 Insulation plate side panel
- 9 Insulation plate front panel
- 10 Convection / ventilation air inlet openings. Total minimum 220 cm²

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

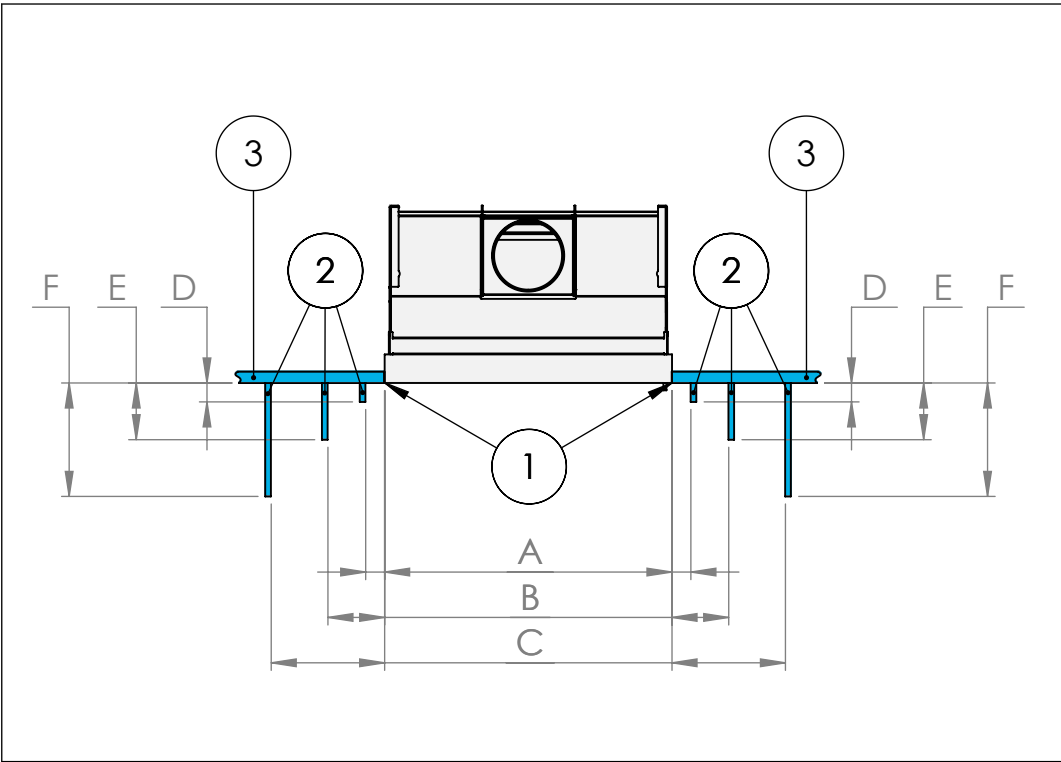
Appliance
- 2

Top of appliance
- 3

Flammable mantel piece
- 4

insulation plate

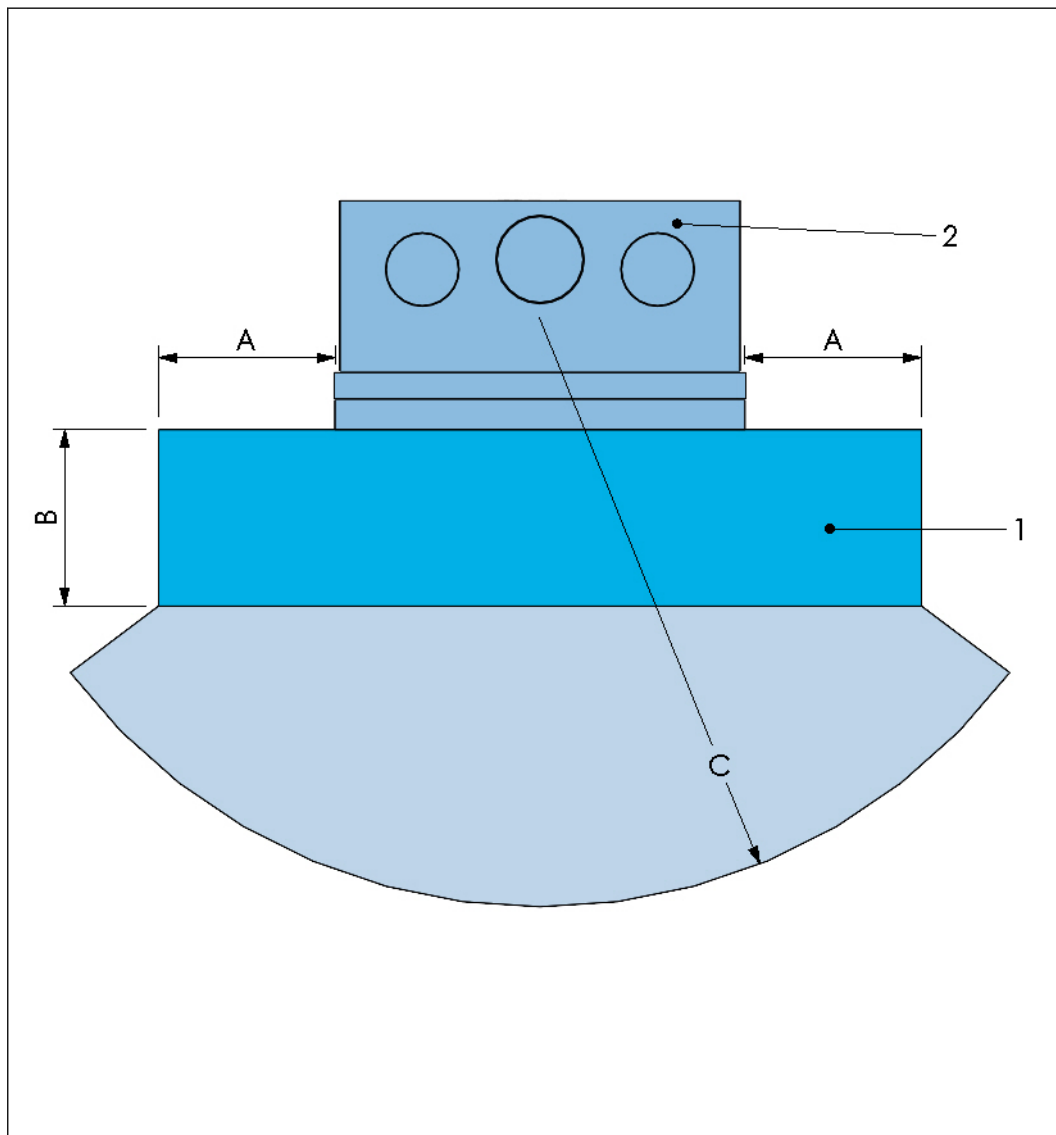
Height of mantel piece		Depth of mantel piece	
A	20 cm	D	5 cm
B	30 cm	E	10 cm
C	40 cm	F	20 cm



- 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

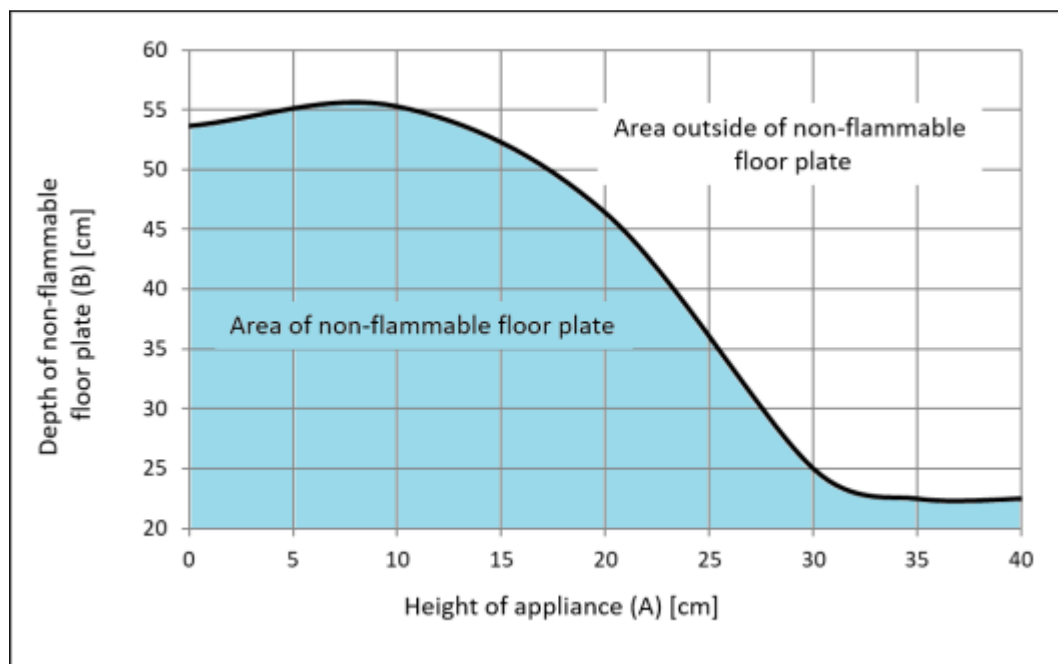
Put a non-flammable floor plate with a minimum thickness of 12 mm in front of the appliance above a flammable floor. The depth of the floor plate is dependent on the vertical distance between the bottom of the appliance and the floor.

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



Note: A transparent 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 130 cm clearance (d_L) to the side radiation area of the appliance. Minimum 130 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.

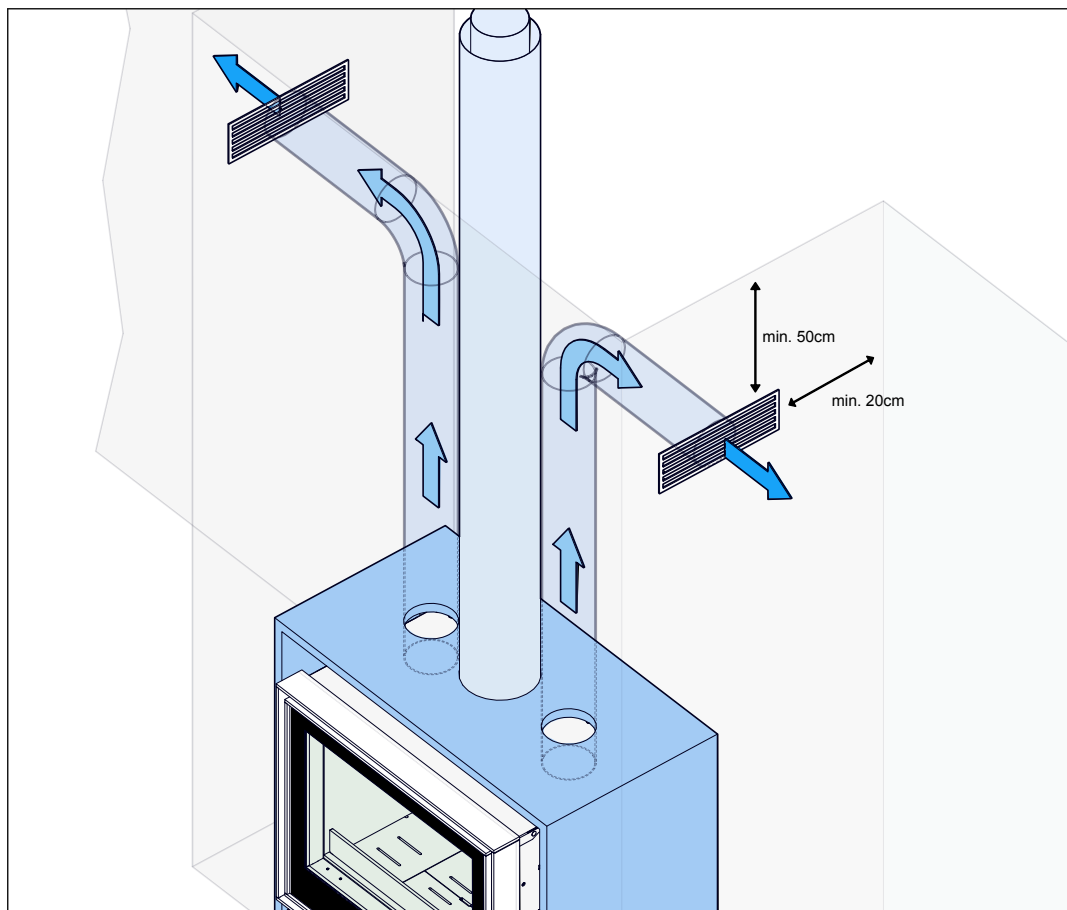
Example to find the correct minimum depth of a non-flammable floor plate

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 9.1 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 250 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/ convection air <u>in-</u> <u>let</u> opening at the bottom of the fireplace en- closure	Ventilation/convection air <u>outlet</u> opening at the top of the fireplace enclosure		
	Appliance <u>with-</u> <u>out</u> convection casing	Appliance <u>with</u> convection casing	
		Openings at the top of the convection casing are open.	2 openings at the top of the convection casing con- nected with flexible convec- tion pipes Ø125mm to 2 out- let openings.
			Convection air via 2 flexible convection pipes: Minimum net 220 cm ²
			Ventilation air via the inside of the fireplace enclosure: Minimum net 220 cm ²
220 cm ² (*)	440 cm ² (**)	440 cm ² (**)	Total 440 cm ² (**)

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 ²
	Insert Slim Frame	
	Insert Classic Frame	
	Insert Built-in Frame	
AirBox 320	Insert Frameless	220 cm ²
	Insert Slim Frame	
	Insert Classic Frame	
	Insert Built-in Frame	

Refer to sections [10.12](#) and [10.13](#) for the dimensions of the AirBox.

7 Installation

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 [7.12](#).

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



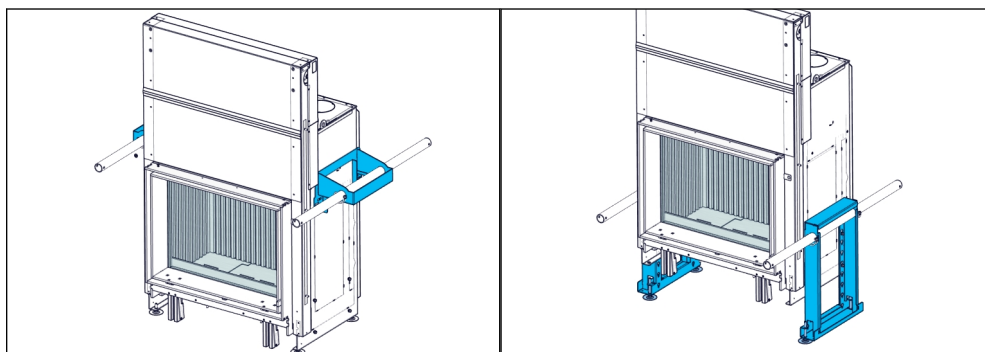
Caution: Do not lift the appliance with any kind of forklift. This will cause damage to the underside of the appliance. Only use the carrying tubes to move the appliance.



Caution: Do not hold the chain case to move the appliance. This can damage the door lift mechanism.



Caution: If the appliance is installed against a flammable rear and/or side wall, precautions must be taken to prevent accidental fire. Refer to [5](#) for a description of suitable precautions.



1. Install the carrying tubes (Ø38 mm) together with the bracket on the appliance or put the carrying tubes 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. Remove the carrying tubes and - if applicable - the bracket.



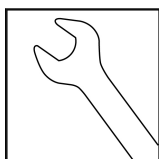
Caution: Make sure the screws holding the bracket are put back on the appliance.

4. Make sure the door opens and closes correctly.
5. Refer to [5](#) for measures to be taken when installed against a flammable rear and/or side wall.

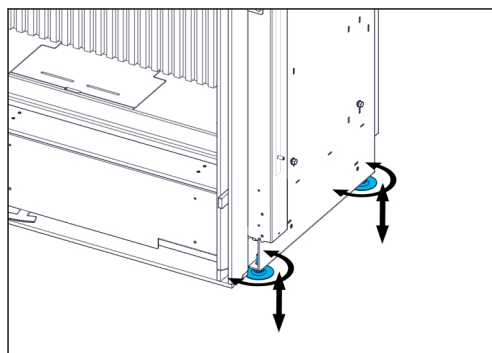
7.4 Horizontally align the appliance

7.4.1 Aligning with adjustable feet

1. Adjust the adjustable feet. Use a 13 mm fork spanner.



2. Make sure that the appliance is installed horizontally. Use a spirit level.



7.4.2 Aligning with adjustable height frame

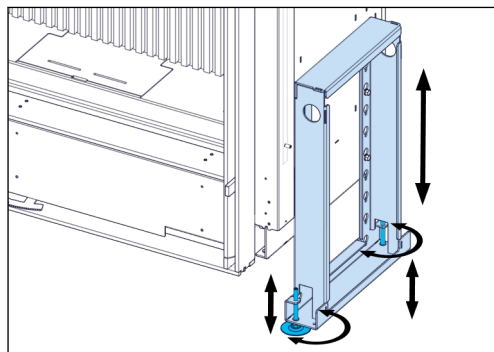
1. Set the frames to the required height. Use a 10 mm socket spanner for the 4 screws.



Caution:

Make sure each frame is attached with all 4 screws.

2. Adjust the adjustable feet. Use a 13 mm fork spanner.
3. Make sure that the appliance is installed horizontally. Use a spirit level.



7.5 Make the electrical connection



Caution:

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

7.5.1 Connect convection ventilator

Refer to section [9.2](#) for the connection scheme of the convection ventilator.

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 250 mm.

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 to 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

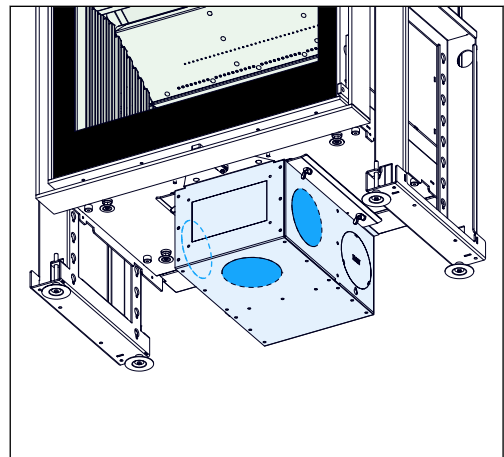
Connection on the combustion air box

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.

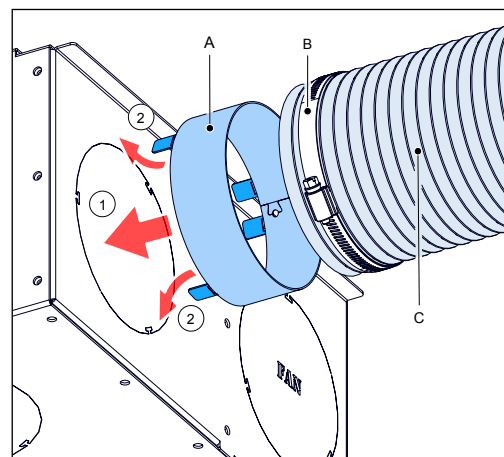


Note: The image shows the combined convection ventilator / combustion air inlet box.

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.

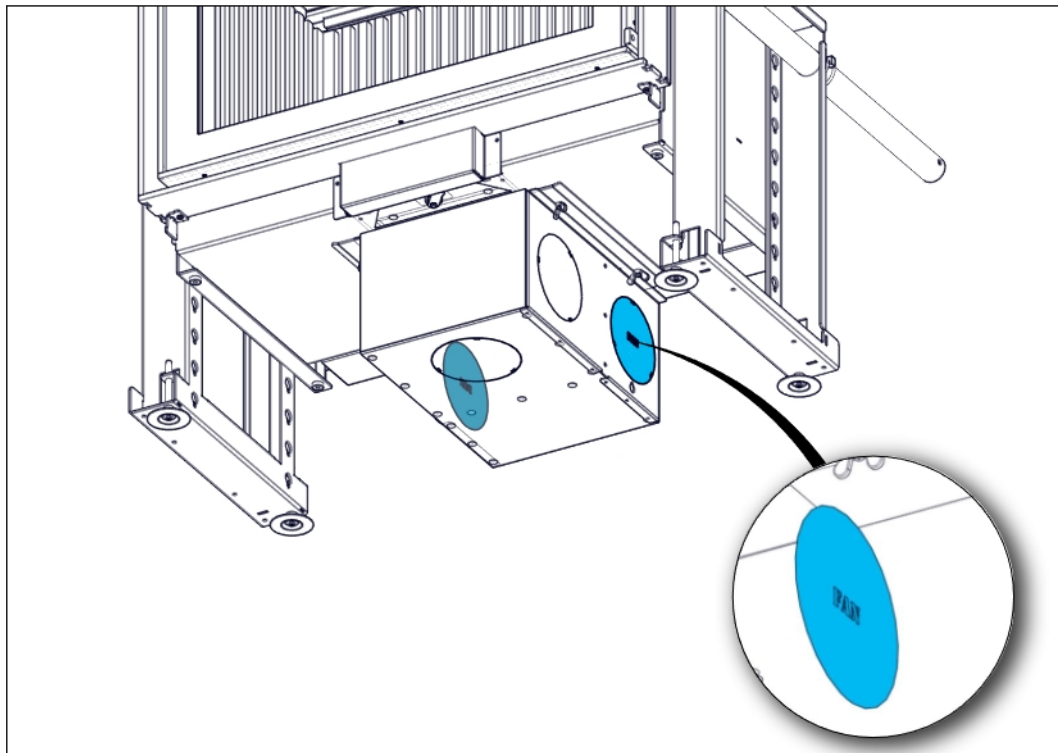


6. Put the connection ring in the open inlet opening (1).
7. Bend out the 3 lips on the connection ring (2) and turn the adapter until it locks.
8. To make it leak tight, apply a sealing compound (e.g. silicone sealant or similar) between the inlet opening and the connection ring.

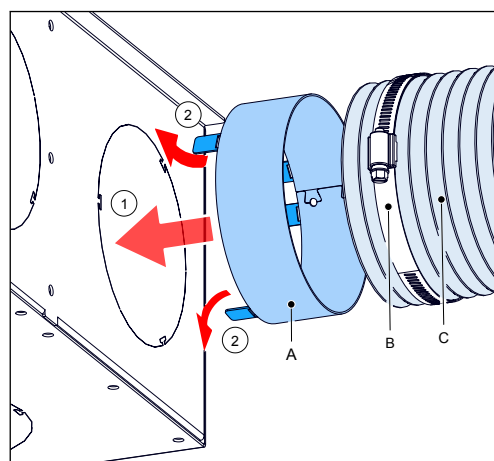


9. Connect a flexible aluminum pipe (C) with a diameter of 125 mm on the connection ring. Use a hose clamp (B).
10. Connect the other end of the flexible aluminum pipe with the hole in the floor or the grate in the wall. Use a suitable connector.

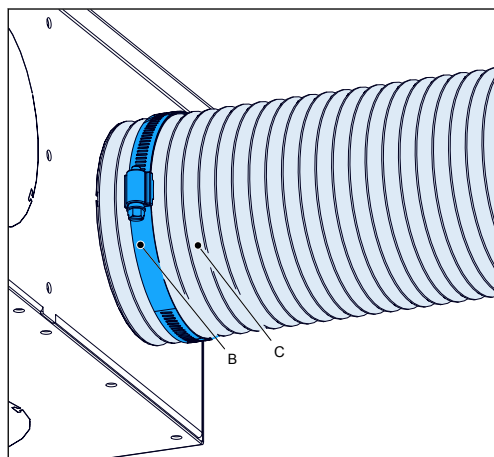
7.8 Connect the convection set (optional)



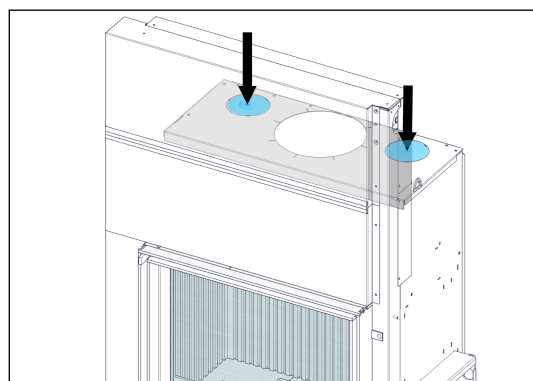
1. On the convection air box select one of the 2 inlet openings, identified by FAN, on the left or right side.
2. Remove one (1) break out plate in the selected convection air inlet opening with a hammer.
3. Put the connection ring (A) in the open inlet opening.
4. Bend out the 3 lips on the connection ring, to attach the connection ring on the inlet opening



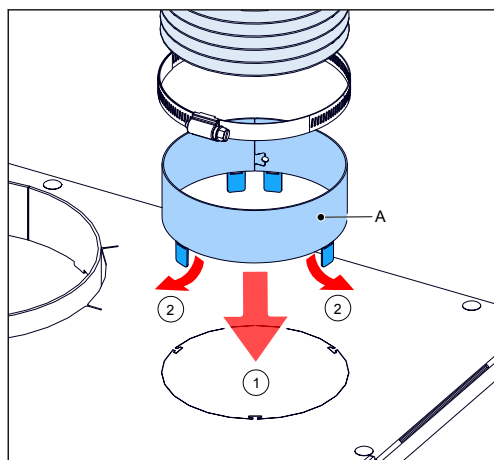
5. Connect a flexible aluminum pipe (C) on the connection ring. Use a hose clamp (B).
6. Connect the flexible aluminum pipe to a fitting box in the chimney breast



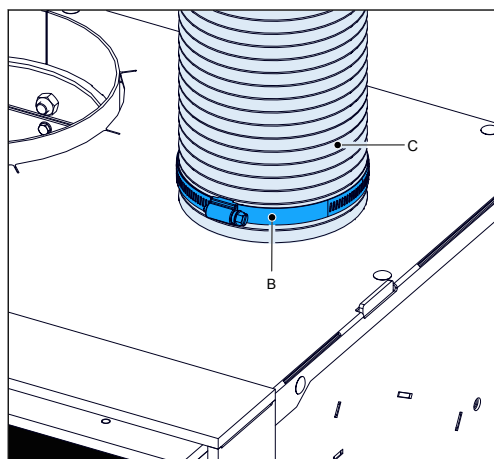
7. On the appliance, remove the two break out plates in the convection air outlet openings with a hammer.



8. Put the connection rings (A) in the open outlet openings.
9. Bend out the 3 lips on each connection ring, to attach the connection ring on the outlet opening.



10. Connect the flexible aluminum pipes (B) on the connection rings (A) . Use the hose clamps (C).
11. 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 [6.1](#) 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 Attach a stone bar from a third party supplier

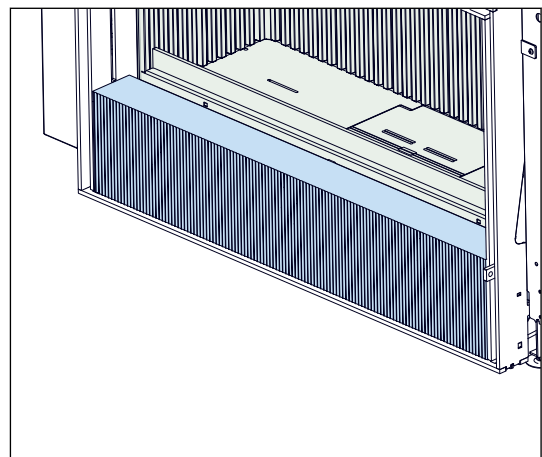
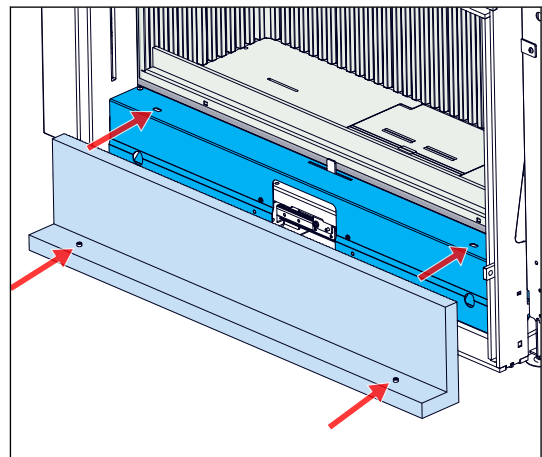
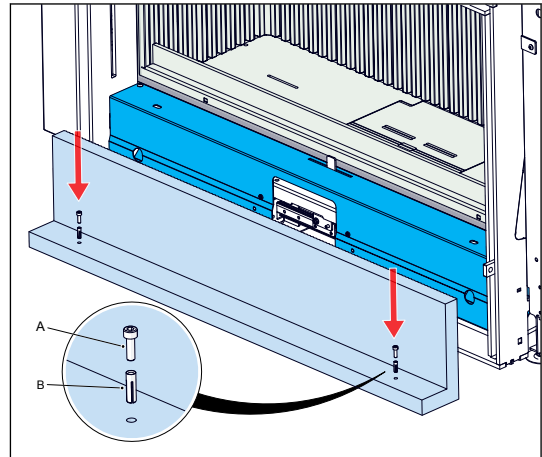
Parts

- 2 Brass plugs M5 x 20
- 2 Allen bolts M5 x 16

If the appliance has been ordered with the possibility to attach a stone bar from another supplier than Barbas, do the procedure to attach the stone bar on the appliance. Refer to section [10.11](#) for the required dimensions of the stone bar.

Procedure

1. Put the stone bar upside down on the floor.
2. Put a brass plug (B) in the 2 holes in the stone bar. Make sure the end of the plug is level with the stone bar.
3. Put an Allen bolt (A) in the 2 plugs. Make sure to screw the Allen bolt as far as possible into the plug. Make sure only the head of the Allen bolt is visible.
4. Turn the stone bar, so that the Allen bolts are facing downward.
5. Put the stone bar on the appliance. Make sure the heads of the Allen bolts are put correct in the holes on the appliance.
6. Make sure the stone bar is horizontal. Use a spirit level.



7.12 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 fire screen closes and opens easy.
3. If applicable: Make sure the control lever moves easy to left and right without undue noise.
4. Make sure all cast iron plates and the baffles are in the correct position.
5. If applicable: Start the convection ventilator and make sure the ventilator does not make an unusual noise (grinding sound). A soft hum is not an unusual sound.

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.

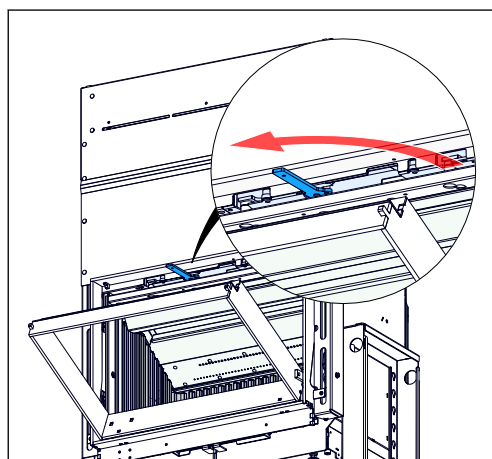
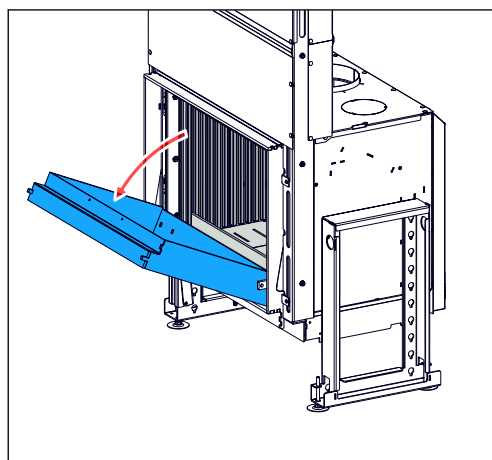
Do all procedures in this section when necessary.

8.1 Appliance

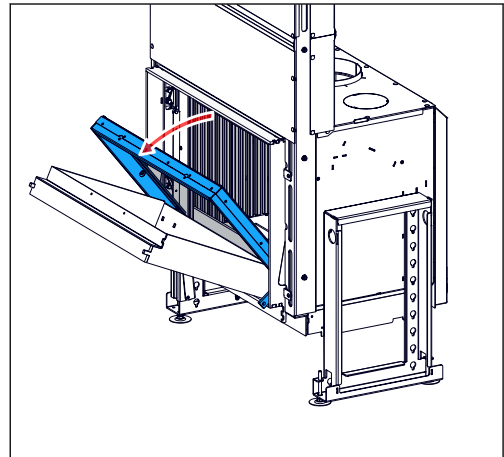
1. Remove ashes from the floor of the combustion chamber.
2. Examine the door seals. Replace damaged seals.
3. Remove the grate and empty the ash tray.
4. Examine the two baffles for damage. Replace when damaged.
5. Clean both sides of the glass with glass spray or ceramic hob cleaner. Refer to section [8.2](#) for access to inside of the door.
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.

8.2 Access to inside of door

1. Make sure the door is closed.
2. Rotate the frame forward.
3. Rotate the door lock 90 degrees clockwise.



4. Rotate the door forward.
5. The inside of the door and the glass is now accessible for inspection and cleaning.



6. To close the door and frame do steps 2 to 4 in reverse order. Make sure the door lock is locked.

8.3 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.

8.4 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.

8.5 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 [8.6](#) for the procedure to remove the baffles.

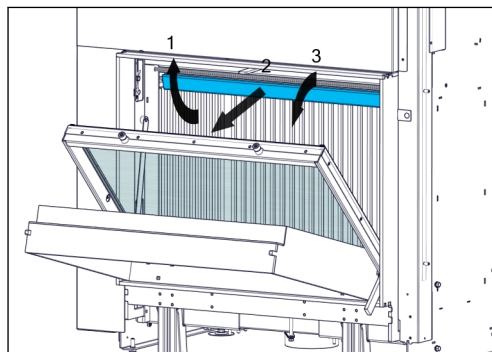
Make sure to replace the baffles after the finish of the chimney sweep work and before firing the appliance.

8.6 Removal of the baffles

To prepare for the chimney sweep, do all the procedures in this section.

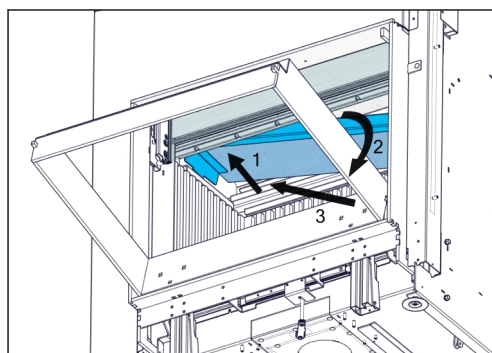
8.6.1 Remove the heat shield

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



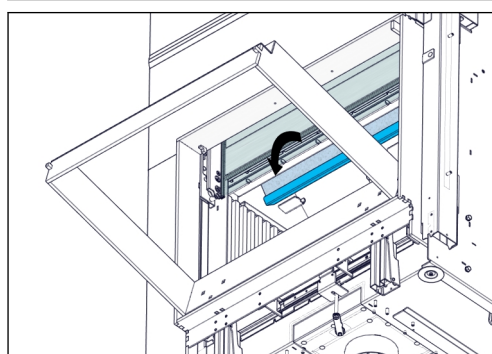
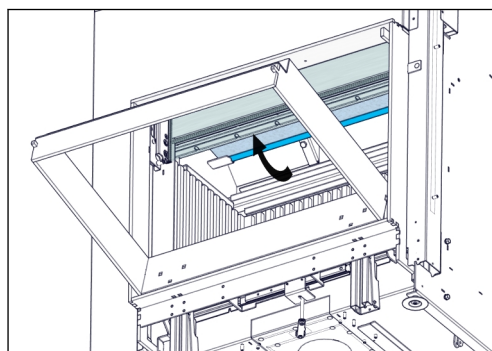
8.6.2 Remove the lower baffle

1. Push up the left side of the lower baffle (1).
2. Rotate the lower baffle a little bit forward.
3. Lower the right side of the lower baffle (3) and remove it from the appliance.

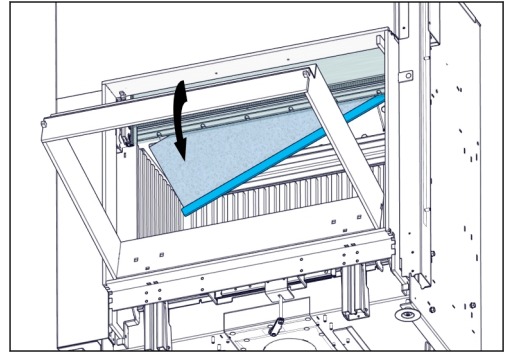


8.6.3 Remove the upper baffle

1. With 2 hands, hold the upper baffle at the back side.
2. Turn the front of the upper baffle until it is in a vertical position.
3. Move the baffle up and over the supports.



4. Lower the right side of the upper baffle and remove it from the appliance.



8.7

Place the baffles

Do all procedures of [8.6](#) in reverse order.

1. Place the upper baffle. Make sure the steel rim points backwards after placement.
2. Place the lower baffle.
3. Place the heat shield and screw the socket screw against the heat shield and tighten with the nut.

9 Technical data

9.1 Technical data

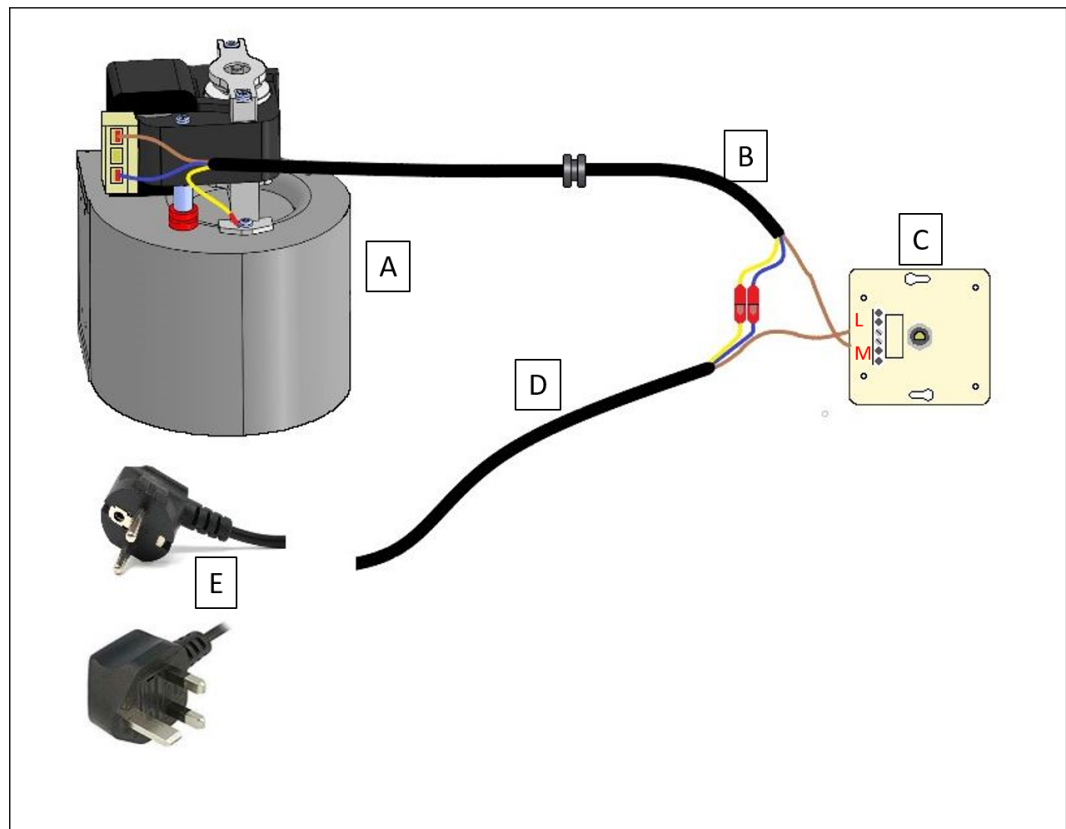
Name	Barbas		
Model	Evolux 65-45		
EPREL registration number	257915		
Tested in accordance with	EN16510-2-2		
Energy efficiency index	102		
Energy efficiency class	A		
Fuel	Wood logs, Wood briquettes		
Indirect heating function	No		
Room sealed	Yes		
Leak rate at 10 Pa	2.2 m³/h		
Seasonal efficiency	67 %		
Fuel load	3.3 kg		
Nomina heat output (net)	14.8 kW		
Useful efficiency	77.7 %		
• carbon monoxide (CO) emission	789 mg/Nm³		
• particles (PM) emission	18 mg/Nm³		
• organic gaseous compounds (OGC) emission	43 mg/Nm³		
• nitrogen oxides (NO _x) emission	101 mg/Nm³		
Flue gas mass flow	13.0 g/s		
Flue gas outlet temperature	370 °C		
Flue gas temperature	308 °C		
Minimum chimney draught	12 Pa		
Minimum temperature class of the chimney	T 400		
Flue gas connection	Outer diameter 248 mm, suitable for a pipe with an inner diameter of 250 mm		
External combustion air connection	125 mm		
Weight			
	Vermiculite interior	Concrete interior	Cast iron interior
Basic appliance	255 kg	278 kg	280 kg
Appliance with all available options	295 kg	318 kg	320 kg
Minimum distance to flammable materials	Refer to chapter 5		
Used materials			
	Vermiculite interior	Concrete interior	Cast iron interior

Combustion chamber side and back panels	Vermiculite 750 kg/m ³	Heat resistant ceramic 1600 kg/m ³	Cast iron
Combustion floor and grate	Steel	Steel	Steel
Lower baffle	Vermiculite 750 kg/m ³	Heat resistant ceramic 2000 kg/m ³	Vermiculite 750 kg/m ³
Upper baffle	Vermiculite 750 kg/m ³	Vermiculite 750 kg/m ³	Vermiculite 750 kg/m ³
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 • 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 ₂

*) 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

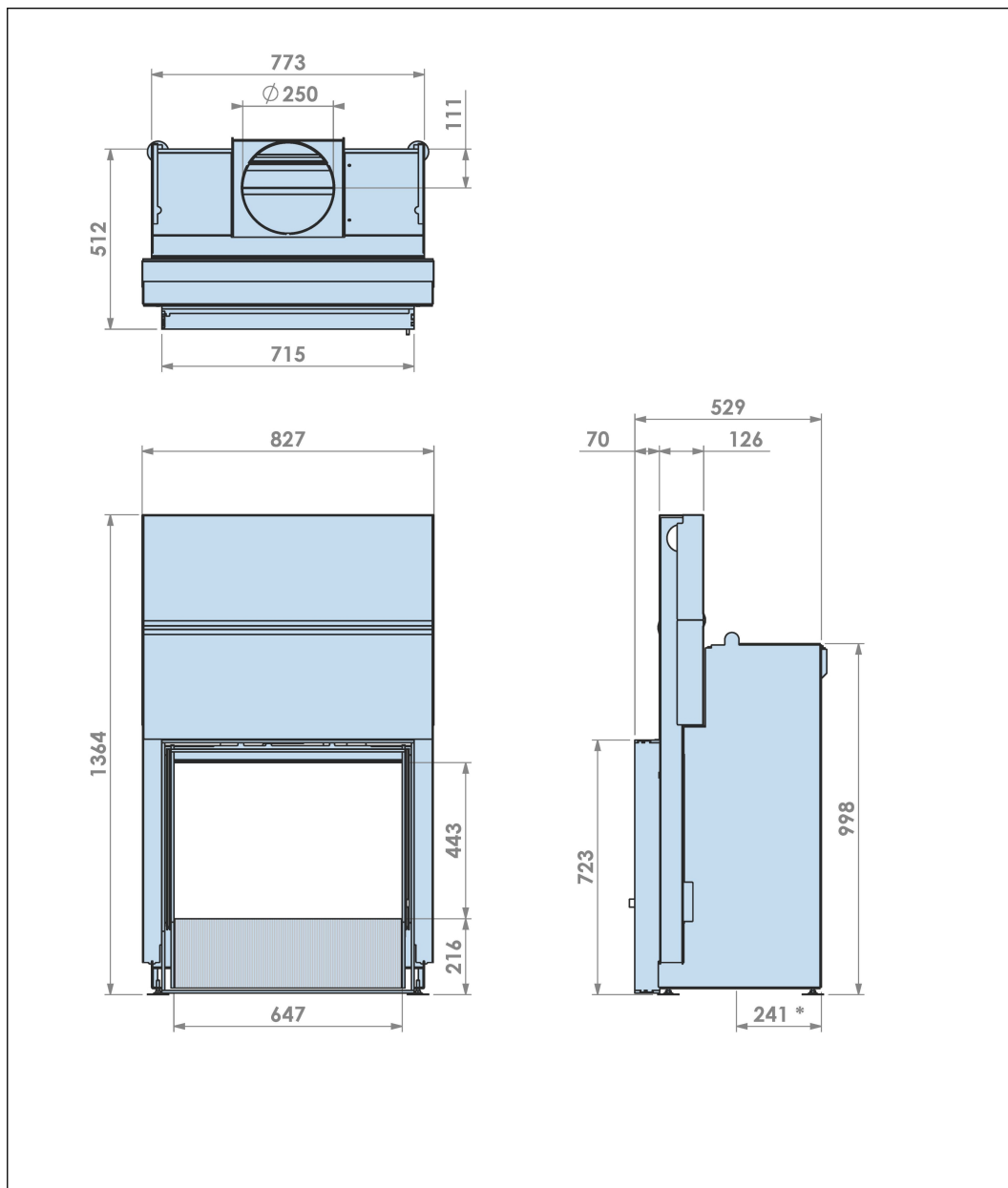
Model identifier		Evolux 65-45										
Equivalent models		N.A.										
Indirect heating function		No										
Direct heat output		14.8 kW										
Indirect heat output		- kW										
Fuel	Preferred fuel (only one)	Other suitable fuel(s)	Emissions at nominal heat output (*) [mg/Nm ³ (13 % O ₂)]				Emissions at minimum heat output (**)(***) [mg/Nm ³ (13 % O ₂)]					
			PM	OGC	CO	NO _x	PM	OGC	CO	NO _x		
Wood logs, moisture content < 25 %	yes	no	18	43	789	101	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 η_{se} [%]		67										
Energy efficiency index (EEI)		102										
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Heat output				Useful efficiency (NCV as received)								
Nominal heat output	P _{nom}	14.8	kW	Useful efficiency at nominal heat output				$\eta_{th, nom}$	77.7	%		
Minimum heat output (indicative)	P _{min}	N.A.	kW	Useful efficiency at minimum heat output (indicative)				$\eta_{th, min}$	N.A.	%		
Auxiliary power consumption				Type of heat output/room temperature control (select one)								
At nominal heat output	e _{l, max}	0.064	kW	Single-stage heat output, no room temperature control							yes	
At minimum heat output	e _{l, min}	0.024	kW	Two or more manual stages, no room temperature control							no	
In standby mode	e _{l, sb}	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 _{pilot}	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 _x = 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;		26 November 2025										

9.4 Explanation of used notations on typeshield

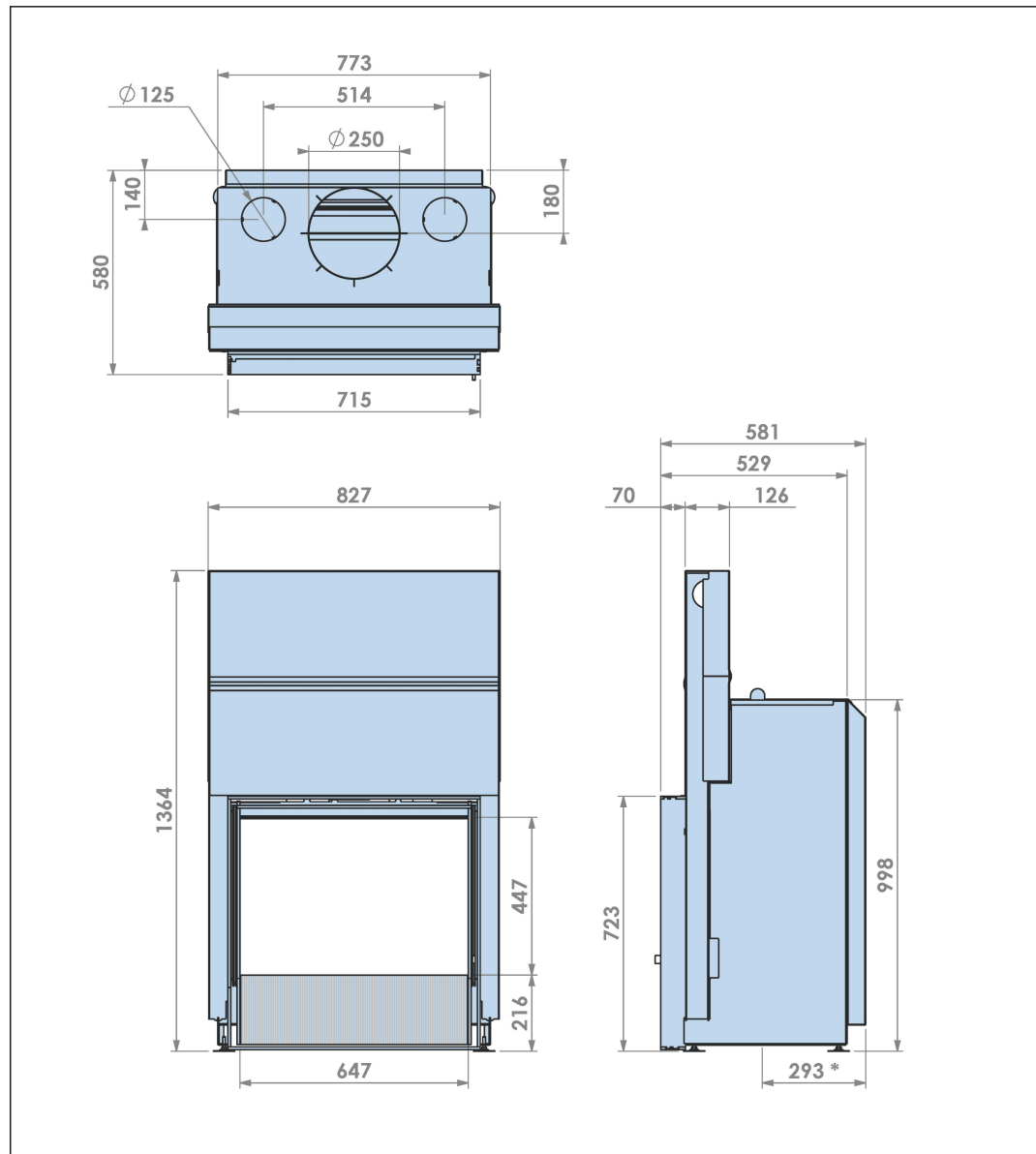
Notation	Description
m_{chim}	The maximum weight of a chimney the appliance may carry
d_B	The minimum distances below the bottom to combustible material
d_F	The minimum distances from the front to combustible material in the bottom front radiation area
d_C	The minimum distances from the top to combustible 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
η_{nom}	The appliance efficiency at nominal heat output
P_{part}	The part load heat output
η_{part}	The appliance efficiency at part load heat output
η_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 65-45 with 3-sided frame

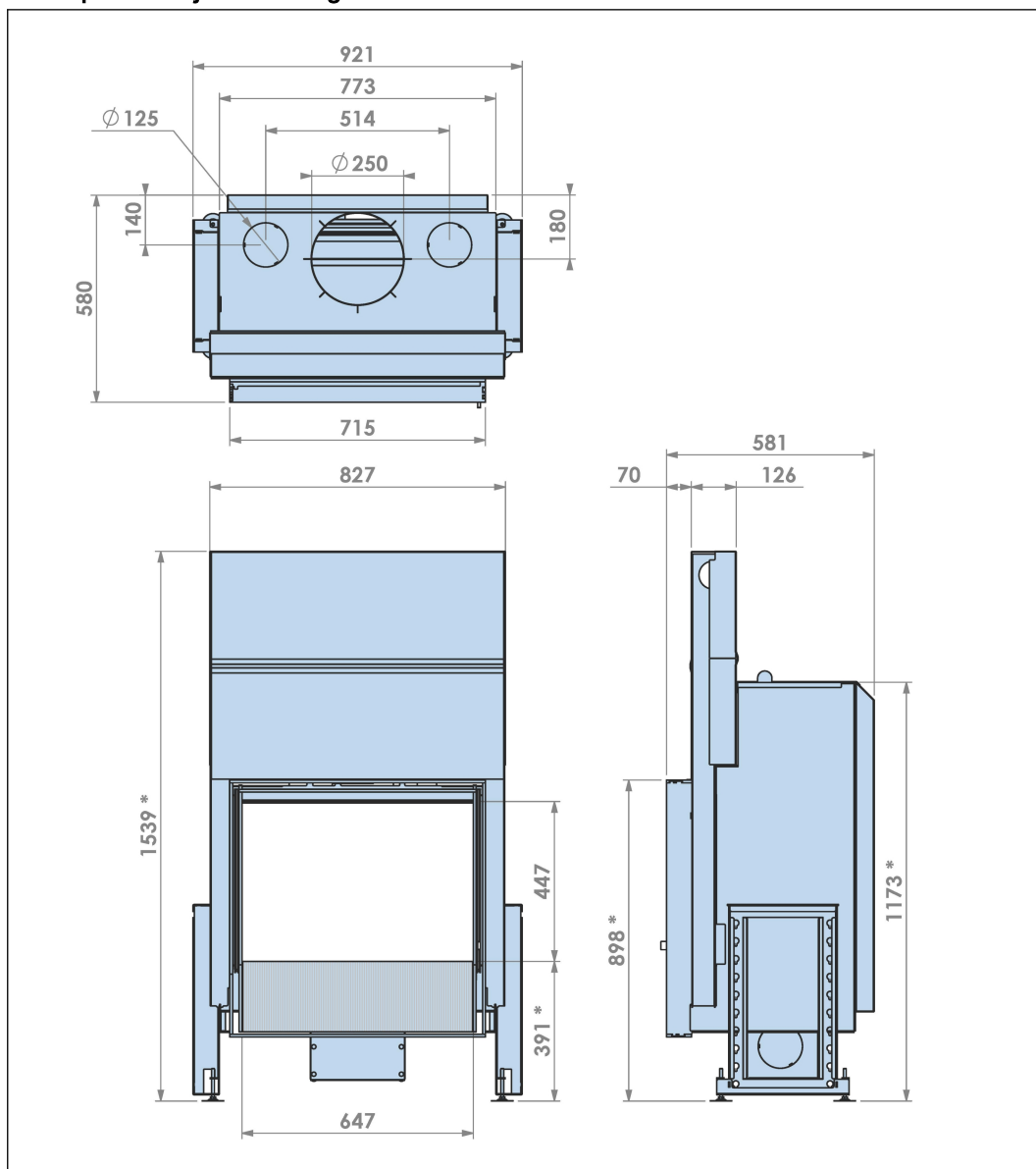


10.2 Evolux 65-45 with 3-sided frame and convection casing



10.3 Evolux 65-45 with 3-sided frame and air box

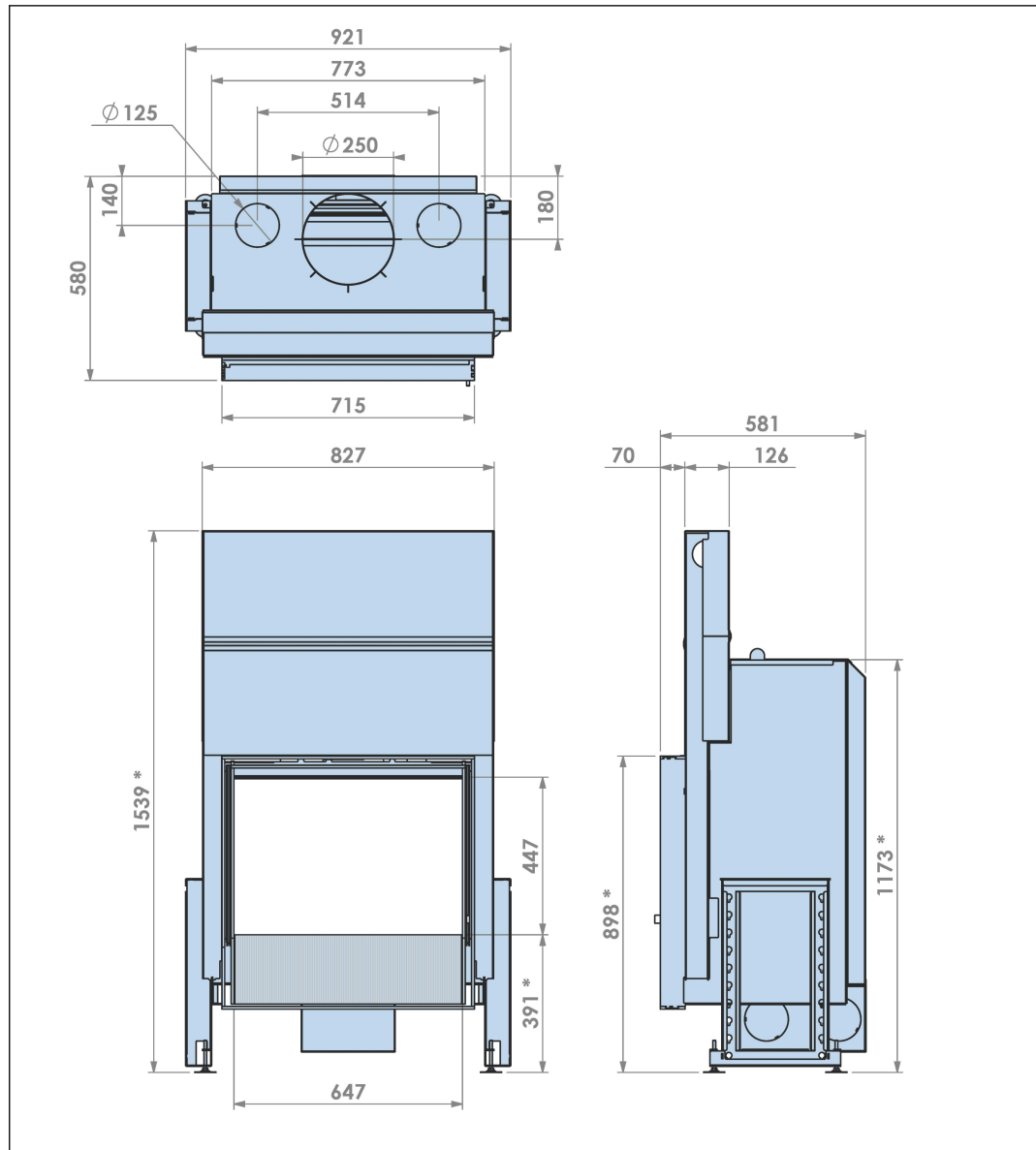
With optional adjustable height frame



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

10.4 Evolux 65-45 with 3-sided frame with convection ventilator

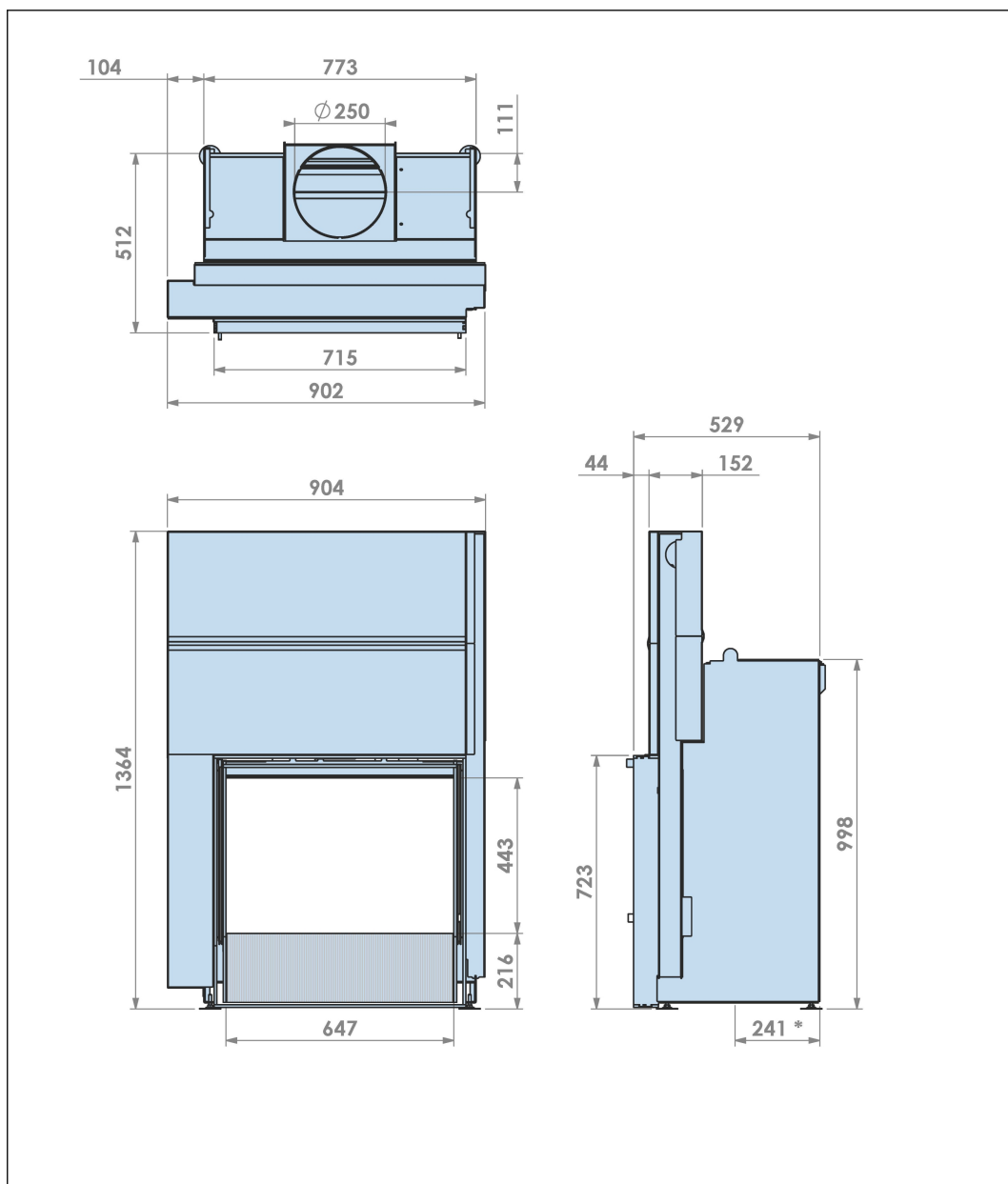
With optional adjustable height frame



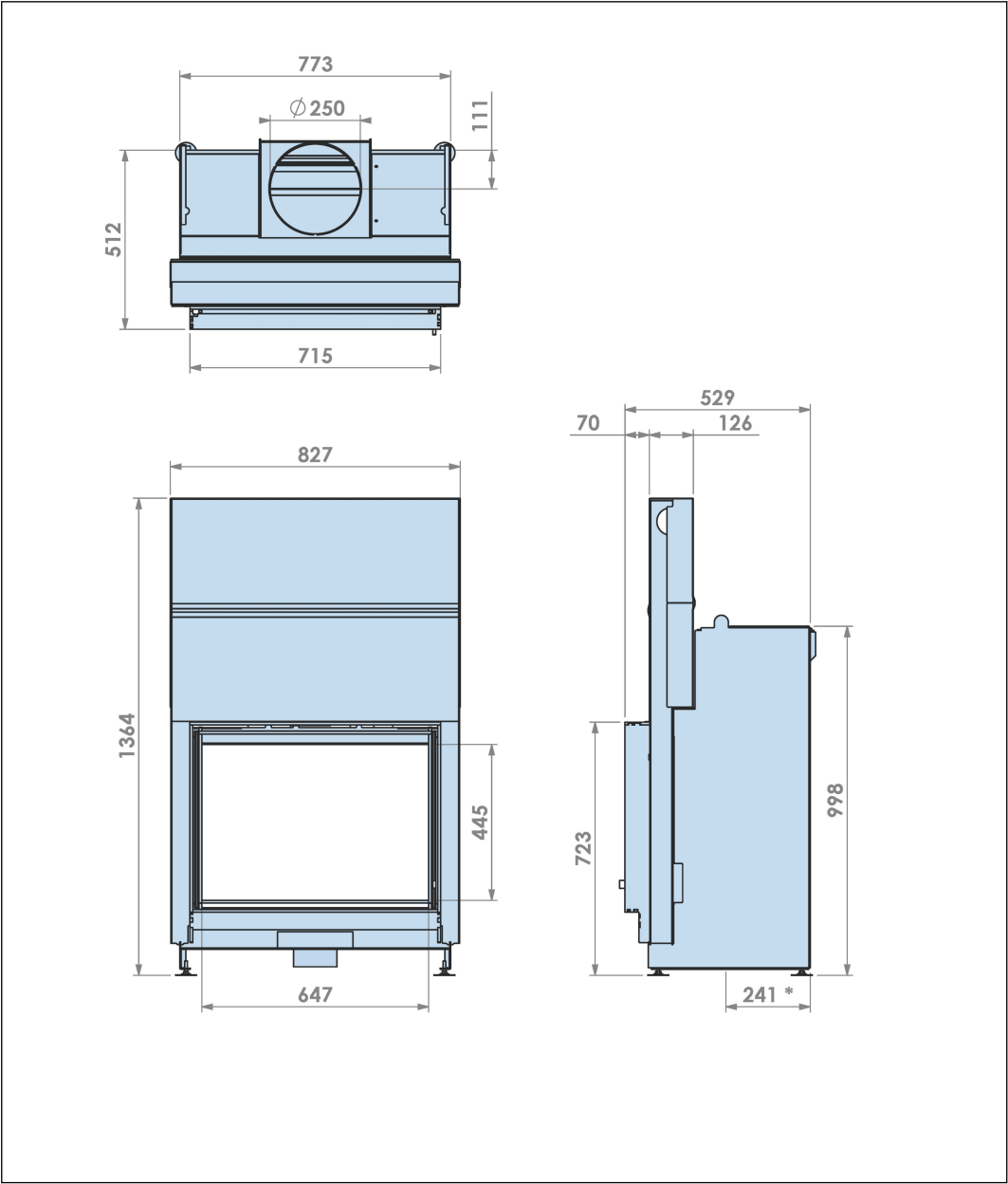
3 Combustion air inlet openings (Ø 125 mm) at the left side, right side and bottom of the air box.

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

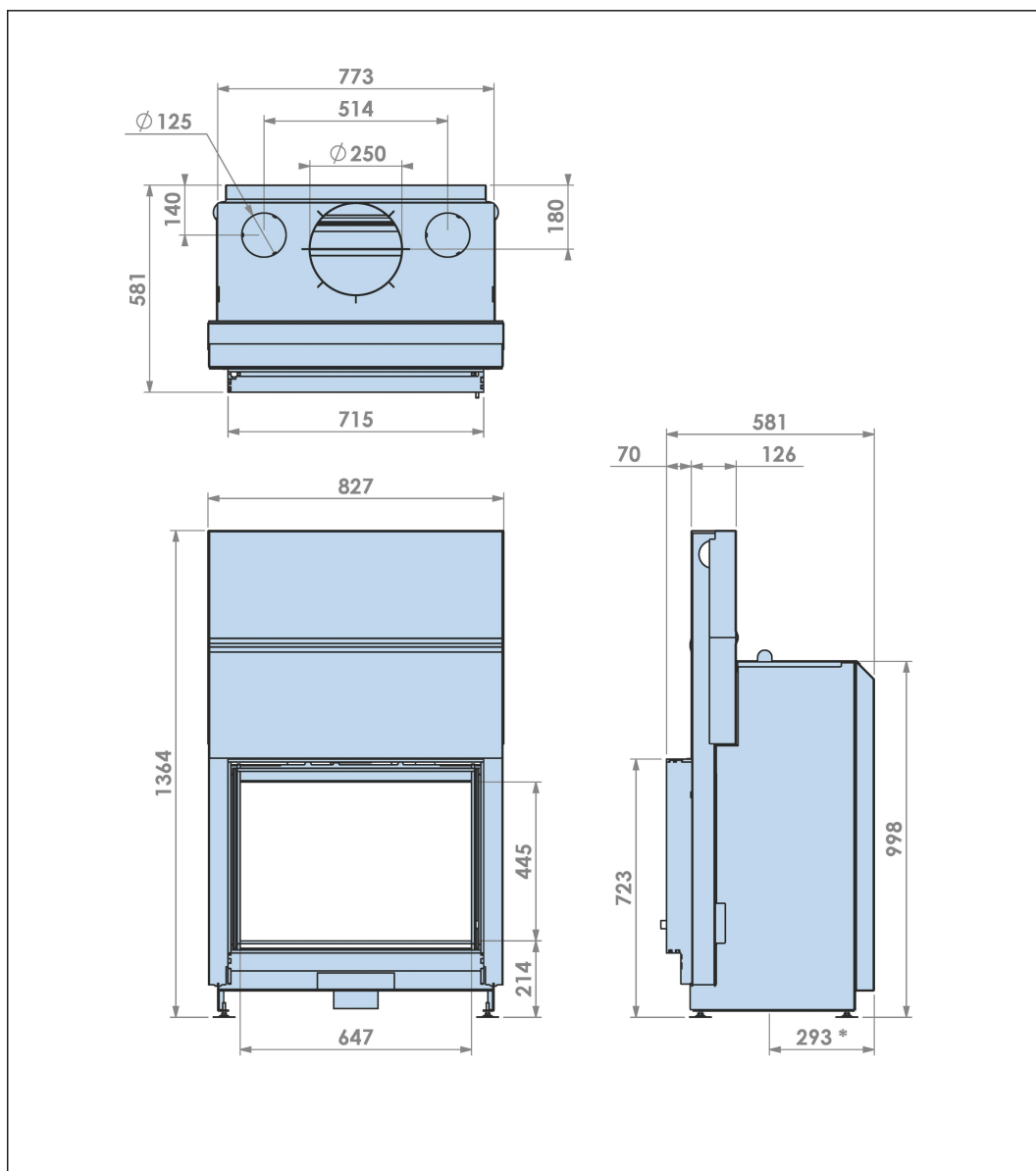
10.5 Evolux 65-45 with 3-sided frame and fire screen



10.6 Evolux 65-45 with 4-sided frame

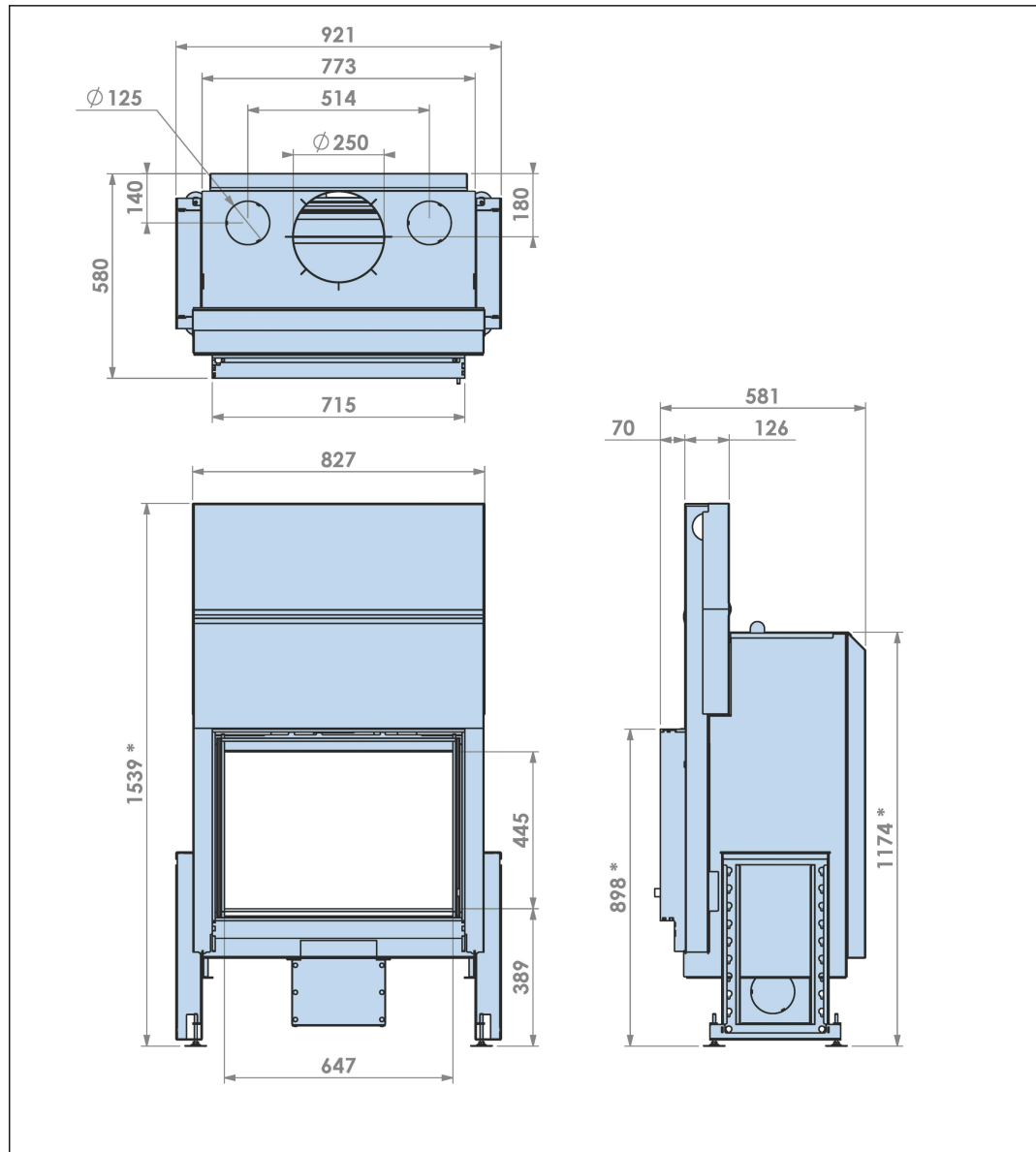


10.7 Evolux 65-45 with 4-sided frame and convection casing



10.8 Evolux 65-45 with 4-sided frame and air box

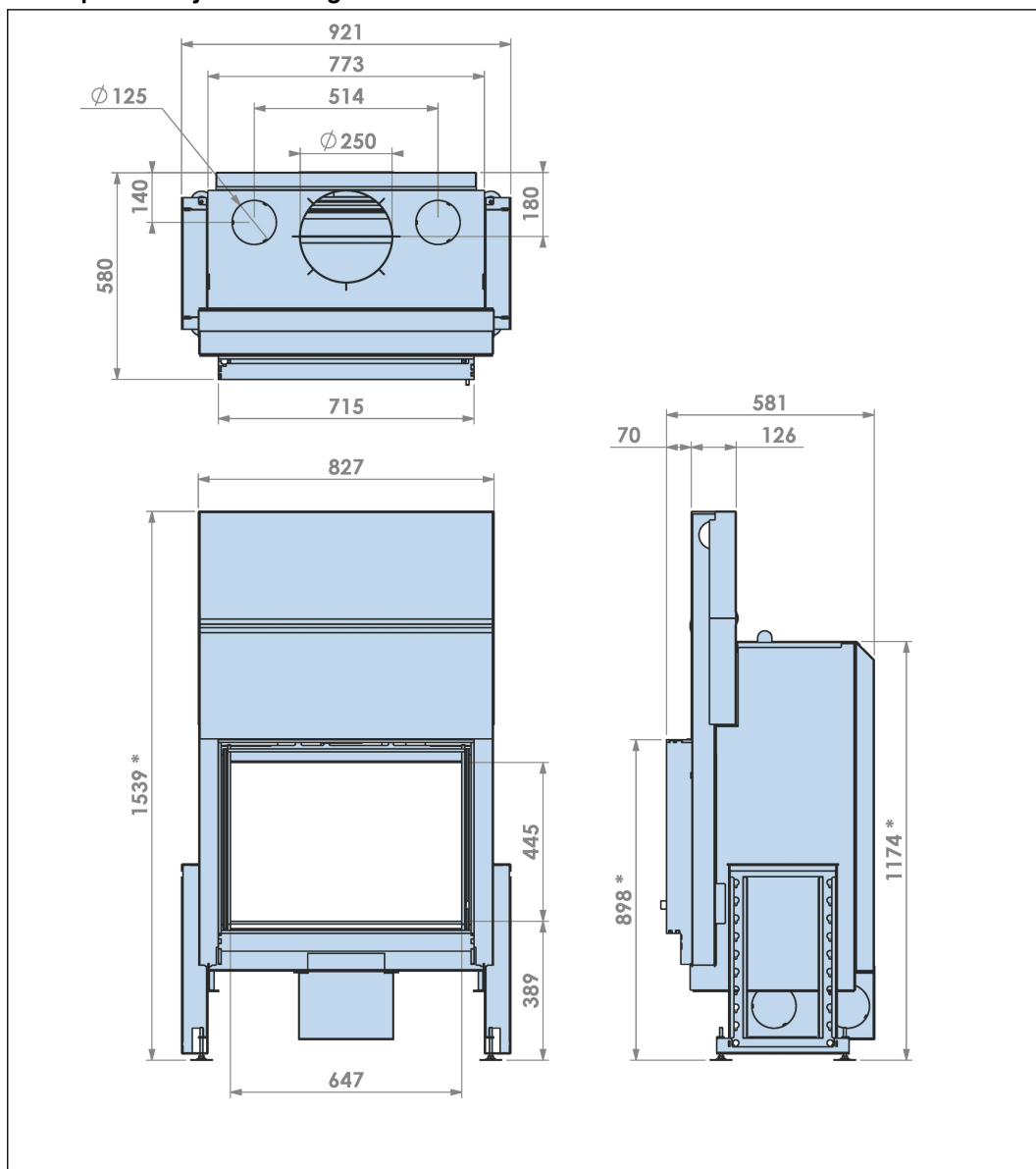
With optional adjustable height frame



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

10.9 Evolux 65-45 with 4-sided frame with convection ventilator

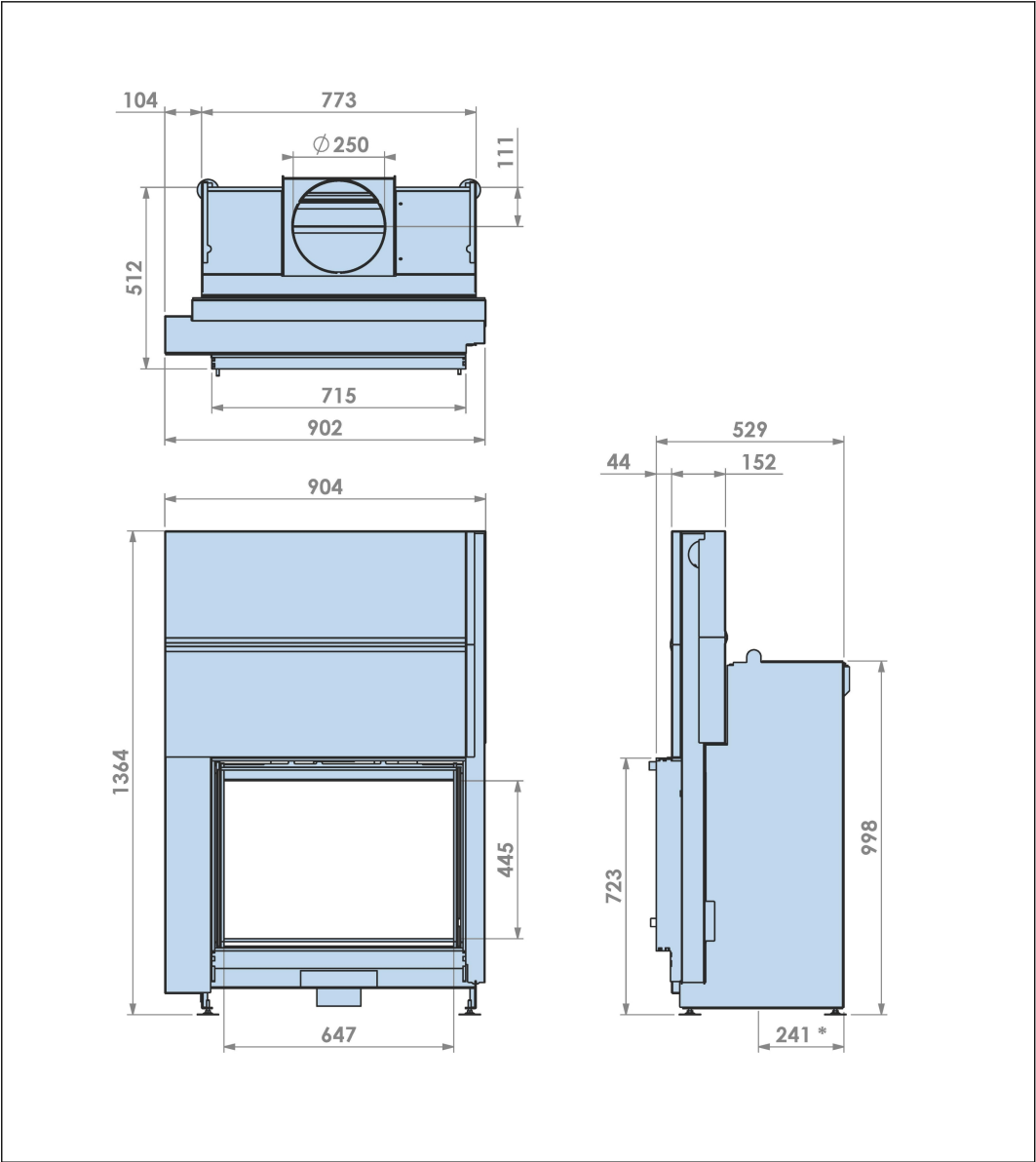
With optional adjustable height frame



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

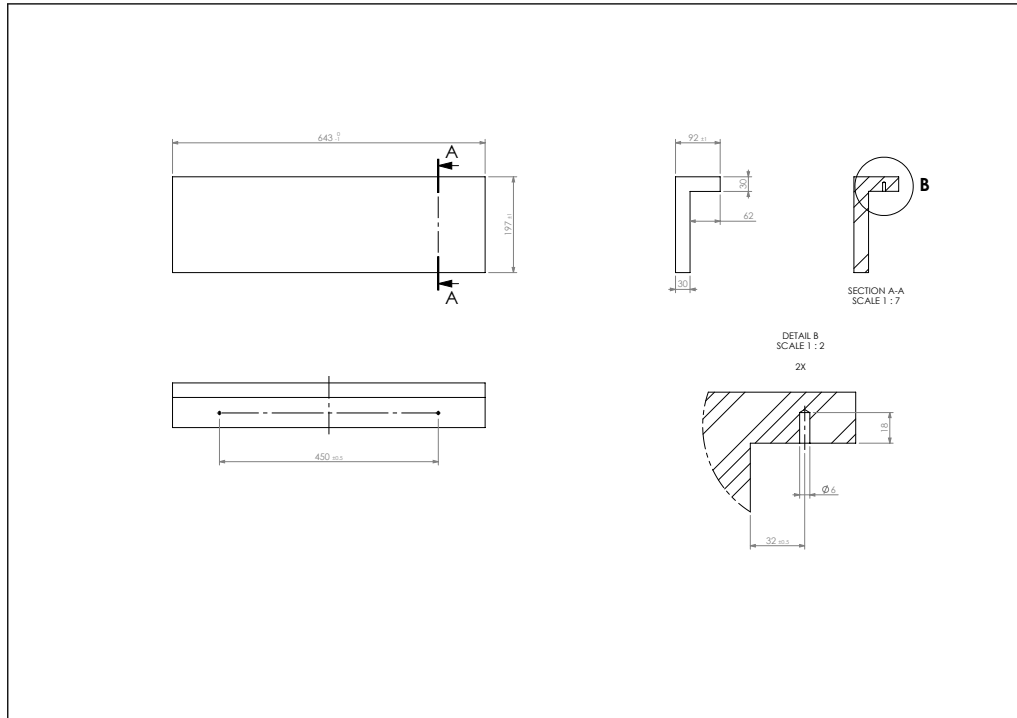
2 Convection air inlet openings (Ø 125 mm) at the left side and right side of the convection ventilator / combustion air box.

10.10 Evolux 65-45 with 4-sided frame and fire screen



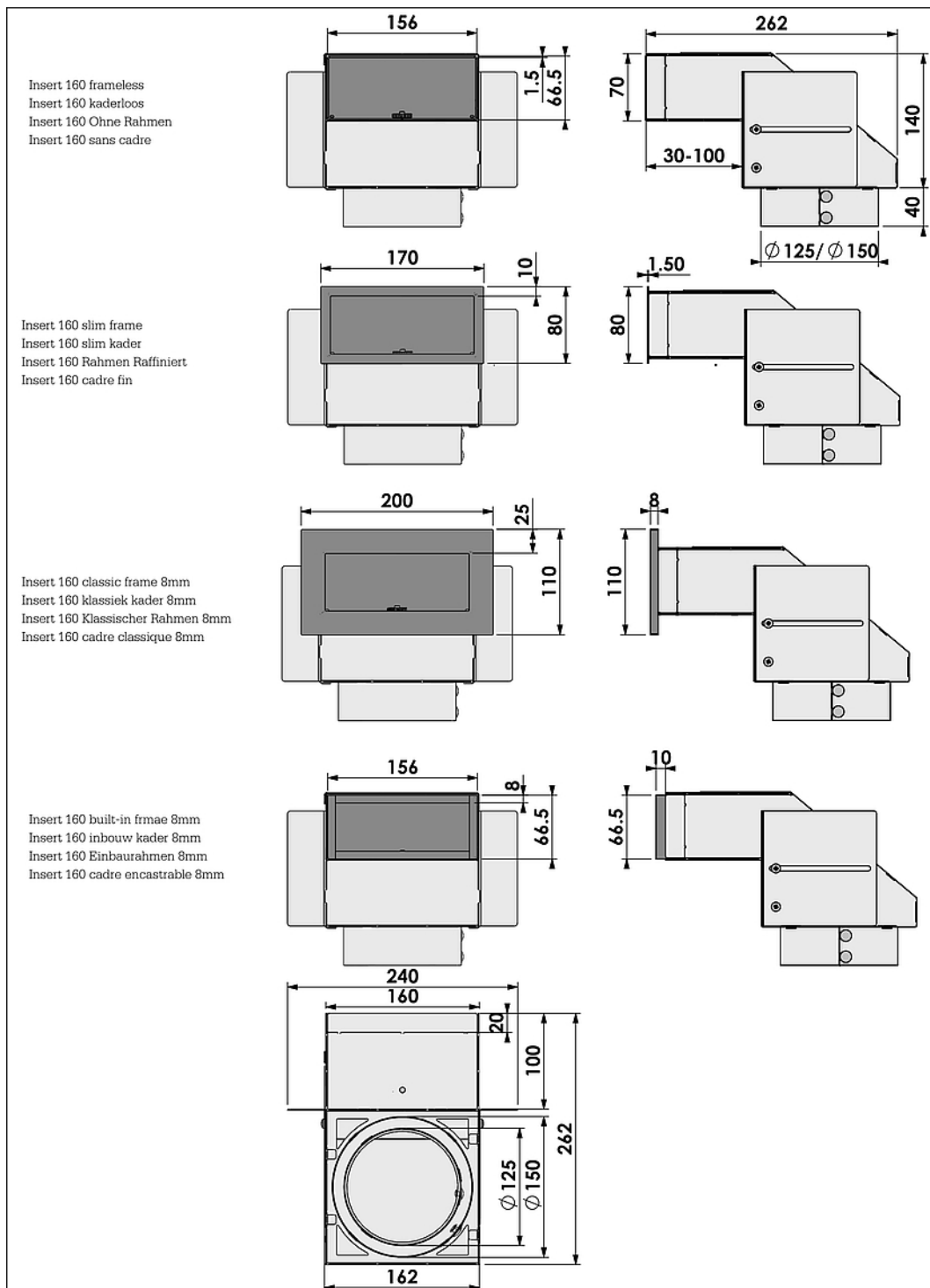
10.11 Dimensions decorative stone bar

Make sure the dimensions of the decorative stone bar supplied by a third party supplier comply with the dimensions in the picture hereunder.



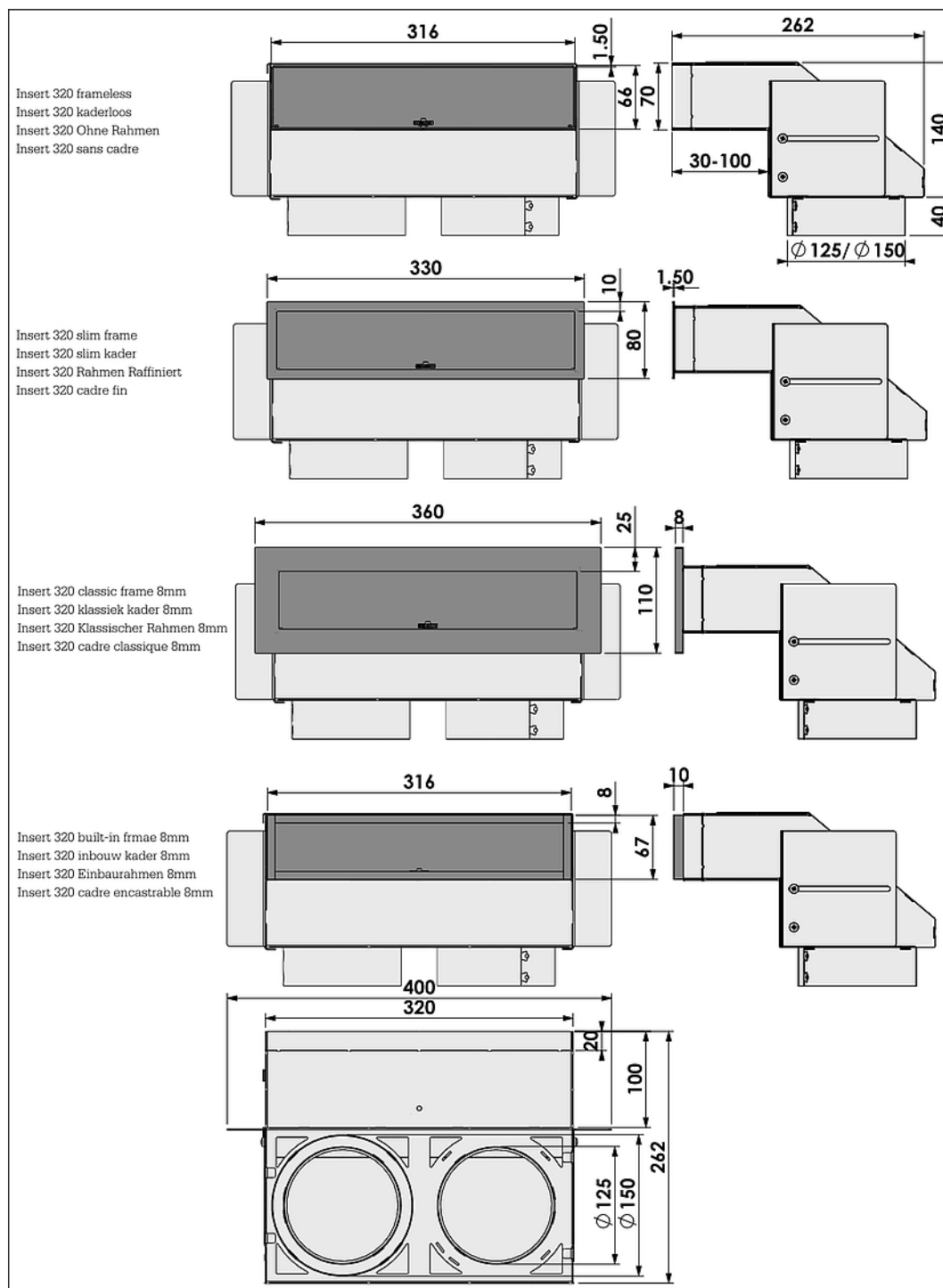
10.12

BARBAS Airbox 160 with 4 insert models



10.13

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.

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

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