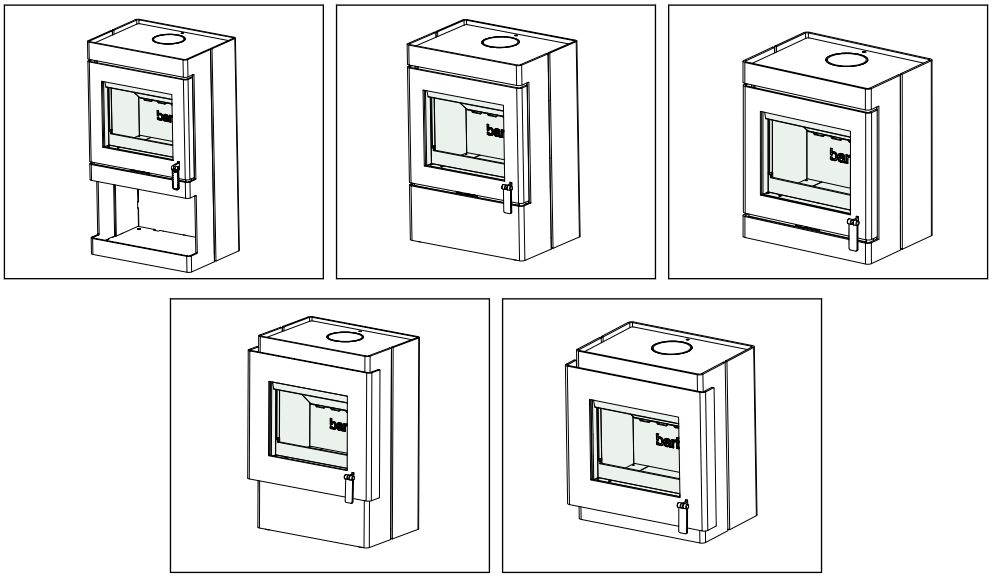
barbas.

Installation and maintenance manual

BOX 35-52-100 / BOX 35-52-80 / BOX 35-52-65

BOX 40-52-80 / BOX 40-52-65



This product is not suitable for primary heating purposes

CE

Serial number:

Production date:

Contact information

Barbas Bellfires BV

Hallenstraat 17, 5531 AB Bladel, The Netherlands

E-mail: info@barbas.com

www.barbasbellfires.com

Contents

1 Declaration of Performance

1.1 BOX 35-52-100

barbas bellfires.
Crafted to wonder

EC-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

According to regulation (EU) 305/2011
No. 2.105.080-0 - CPR-2013/07/01

1.	Unique identification code of the product-type	BOX 35-52-100
2.	Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer	Room heater without hot water supply
3.	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)	Barbas Bellfires BV; Hallenstraat 17; 5531 AB Bladel; The Netherlands
4.	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2)	Not applicable
5.	System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V	System 3
6.	In case of the declaration of performance concerning a construction product covered by a harmonised standard	The notified laboratory SGS Belgium NV, No. 1639 performed the determination of the product type on the basis of type testing under system 3 and issued test report EZKA/2023-09/00005-17

7. Declared performance

Harmonized technical specification	**EN13240:2001/A2:2004/AC:2007**
Essential characteristics	**Performance**
Fire safety	**Pass**
Distance to combustible materials	Minimum distances, in mm Rear = 300 Sides = 250 Ceiling = - Front = 1400 Floor = -
Risk of burning fuel falling out	Pass
Emission of combustion products	CO = 0.05 vol%
Surface temperature	Pass
Electrical safety	Pass
Cleanability	Pass
Release of dangerous substances	NPD
Maximum operating pressure	Not applicable
Flue gas temperature at nominal heat output	T = 307 °C
Mechanical resistance (to carry a chimney/flue)	NPD
Thermal output	Pass
Nominal heat output	8 kW
Room heating output	8 kW
Water heating output	- kW
Energy efficiency	77.6 %

8. The performance of the product identified in point 1 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

Danny Baijens, CEO
(Name and function)

Bladel; February 2, 2024
(place and date of issue)

.....
(Signature)

1.2 BOX 35-52-80

barbas bellfires.
Crafted to wonder

EC-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

According to regulation (EU) 305/2011
No. 2.107.080-0 - CPR-2013/07/01

1.	Unique identification code of the product-type	BOX 35-52-80
2.	Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer	Room heater without hot water supply
3.	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)	Barbas Bellfires BV; Hallenstraat 17; 5531 AB Bladel; The Netherlands
4.	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2)	Not applicable
5.	System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V	System 3
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7. Declared performance

Harmonized technical specification	**EN13240:2001/A2:2004/AC:2007**
Essential characteristics	**Performance**
Fire safety	**Pass**
Distance to combustible materials	Minimum distances, in mm Rear = 300 Sides = 250 Ceiling = - Front = 1400 Floor = 30
Risk of burning fuel falling out	Pass
Emission of combustion products	CO = 0.05 vol%
Surface temperature	Pass
Electrical safety	Pass
Cleanability	Pass
Release of dangerous substances	NPD
Maximum operating pressure	Not applicable
Flue gas temperature at nominal heat output	T = 307 °C
Mechanical resistance (to carry a chimney/flue)	NPD
Thermal output	Pass
Nominal heat output	8 kW
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Water heating output	- kW
Energy efficiency	77.6 %

8. The performance of the product identified in point 1 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

Danny Baijens, CEO
(Name and function)

Bladel; 10 July 2024
(place and date of issue)

.....
(Signature)

1.3 BOX 35-52-65

barbas bellfires.
Crafted to wonder

EC-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

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According to regulation (EU) 305/2011
No. 2.109.080-0 - CPR-2013/07/01

1.	Unique identification code of the product-type	BOX 35-52-65
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4.	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2)	Not applicable
5.	System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V	System 3
6.	In case of the declaration of performance concerning a construction product covered by a harmonised standard	The notified laboratory SGS Belgium NV, No. 1639 performed the determination of the product type on the basis of type testing under system 3 and issued test report EZKA/2023-09/00005-17

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Harmonized technical specification	**EN13240:2001/A2:2004/AC:2007**
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Emission of combustion products	CO = 0.05 vol%
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8. The performance of the product identified in point 1 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

Danny Baijens, CEO
(Name and function)

Bladel; 10 July 2024
(place and date of issue)

.....
(Signature)

1.4 BOX 40-52-80

barbas bellfires.
Crafted to wonder

EC-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

According to regulation (EU) 305/2011
No. 2.205.080-0 - CPR-2013/07/01

1.	Unique identification code of the product-type	BOX 40-52-80
2.	Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer	Room heater without hot water supply
3.	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)	Barbas Bellfires BV; Hallenstraat 17; 5531 AB Bladel; The Netherlands
4.	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2)	Not applicable
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7. Declared performance

Harmonized technical specification	**EN13240:2001/A2:2004/AC:2007**
Essential characteristics	**Performance**
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Water heating output	- kW
Energy efficiency	77.6 %

8. The performance of the product identified in point 1 is in conformity with the declared performance in point 7.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

Danny Baijens, CEO
(Name and function)

Bladel; 22 August 2024
(place and date of issue)

.....
(Signature)

1.5 BOX 40-52-65

barbas bellfires.
Crafted to wonder

EC-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)
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Declaration of Performance

According to regulation (EU) 305/2011
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7. Declared performance

Harmonized technical specification	**EN13240:2001/A2:2004/AC:2007**
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This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.

Signed for and on behalf of the manufacturer by:

Danny Baijens, CEO
(Name and function)

Bladel; 22 August 2024
(place and date of issue)

.....
(Signature)

2 About this document

This document shows the necessary information to do the installation and maintenance on: .

- BOX 35-52-100
- BOX 35-52-80
- BOX 35-52-65
- BOX 40-52-80
- BOX 40-52-65

in this document referred to 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 equipment 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

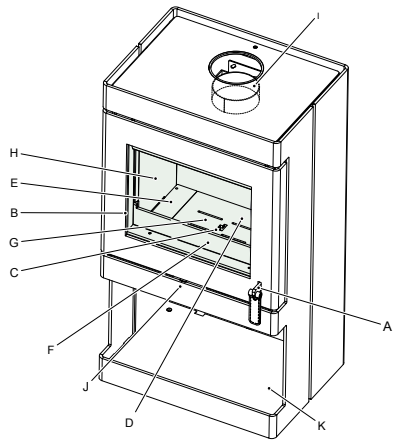
2.3 Related documentation

- Installation and maintenance manual
- User manual

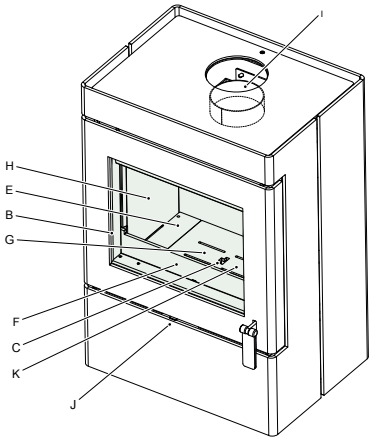
3 Description

3.1 Overview of the front of the appliance

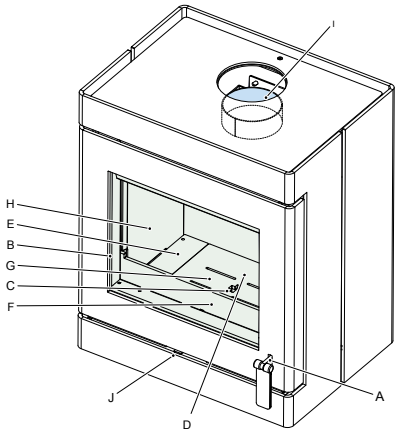
BOX 35-52-100



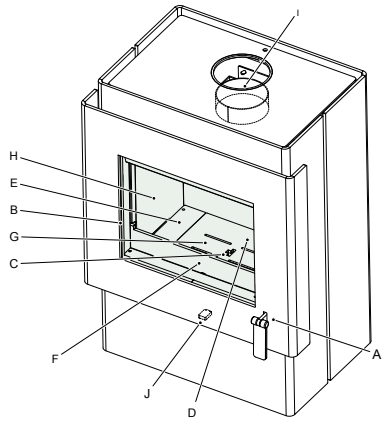
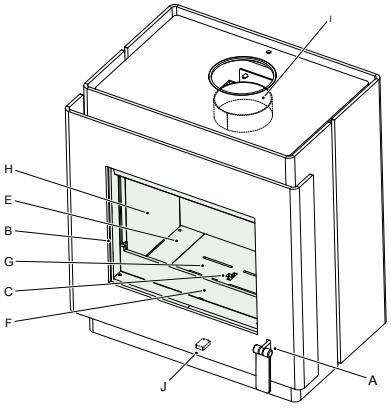
BOX 35-52-80



BOX 35-52-65



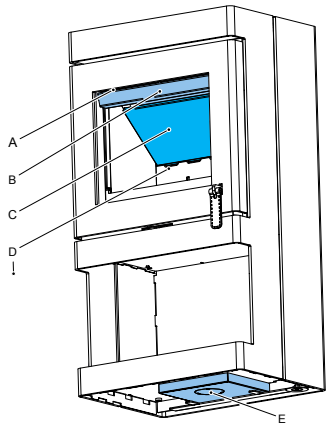
A	Door handle
B	Glass
C	Primary air inlet
D	Grate
E	Steel bottom plates
F	Log guard
G	Ash tray (under the grate)
H	Combustion chamber panels
I	Flue connection
J	Control lever
K	Wood log storage module

BOX 40-52-80	BOX 40-52-65
	

A	Door handle
B	Glass
C	Primary air inlet
D	Grate
E	Steel bottom plates
F	Log guard
G	Ash tray (under the grate)
H	Combustion chamber panels
I	Flue connection
J	Control lever

3.2 Overview of the bottom of the appliance

BOX 35-52-100



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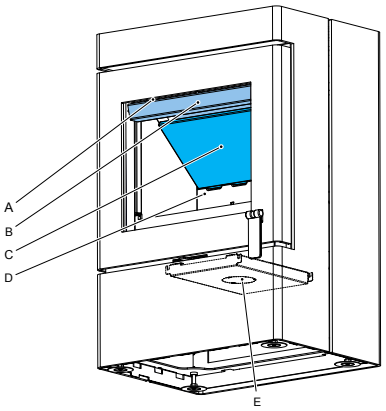
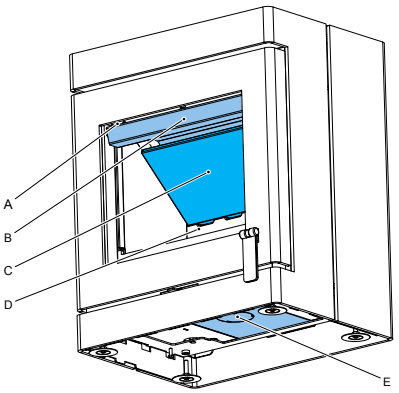
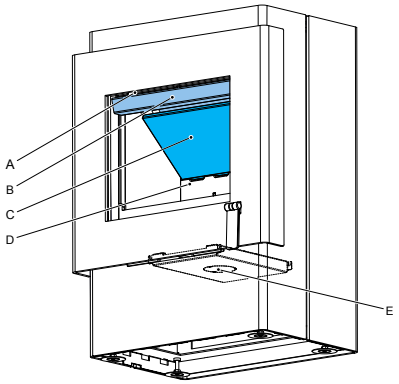
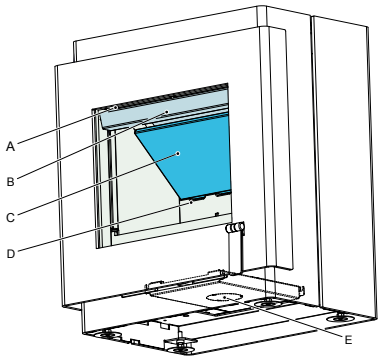


BOX 35-52-65



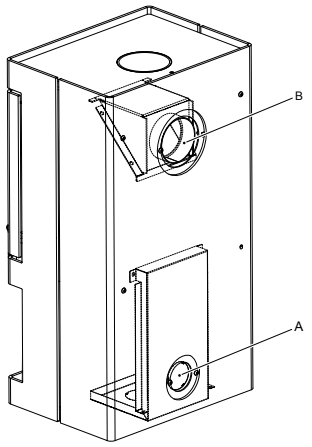
A	Air wash inlet
B	Heat hield
C	Baffle
D	Secondary air inlet
E	Connection for external combustion air supply

BOX 40-52-80	BOX 40-52-65
	

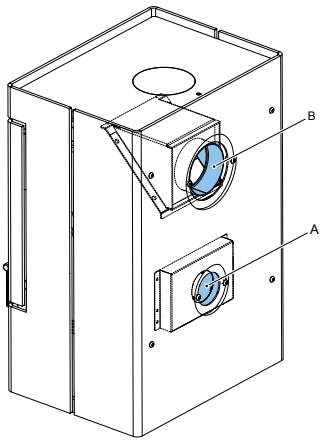
A	Air wash inlet
B	Heat hield
C	Baffle
D	Secondary air inlet
E	Connection for external combustion air supply

3.3 Overview of the rear of the appliance

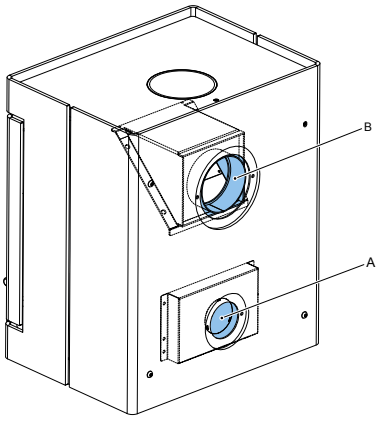
BOX 35-52-100



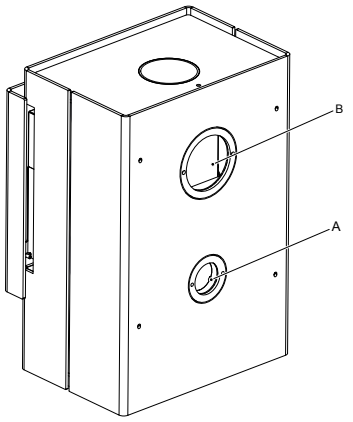
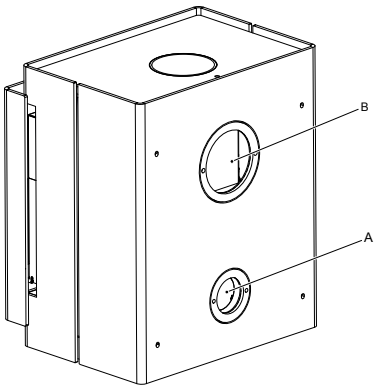
BOX 35-52-80



BOX 35-52-65



A	Connection for external combustion air supply
B	Rear flue connection

BOX 40-52-80	BOX 40-52-65
	

A	Connection for external combustion air supply
B	Rear flue connection

3.4 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.

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.

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

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 flammable material at all times. The minimal safe distance is 180 cm.
- If applicable, contact the authorities if it is allowed to connect the appliance to a flue that is also connected to another appliance.
- Do not install the appliance directly against a flammable wall or non-flammable wall. Refer to section *5* for minimum clearances between the appliance and the wall.
- 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.
- 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.

4.2 Safety instructions with regard to the environment

- Refer to the user manual for disposal and recyling of the appliance.
- Dispose of an obsolete appliance according to instructions of the authorities or the fitter.
- Obey the local regulations.

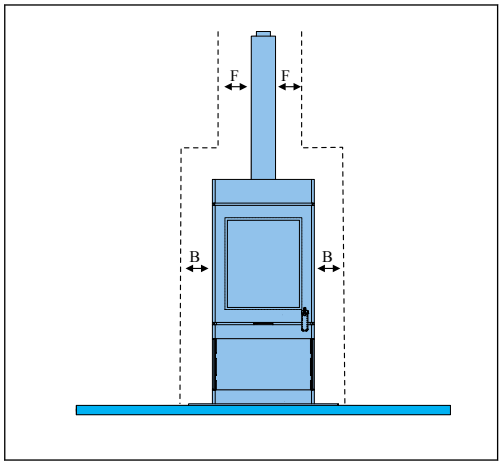
5 Clearances

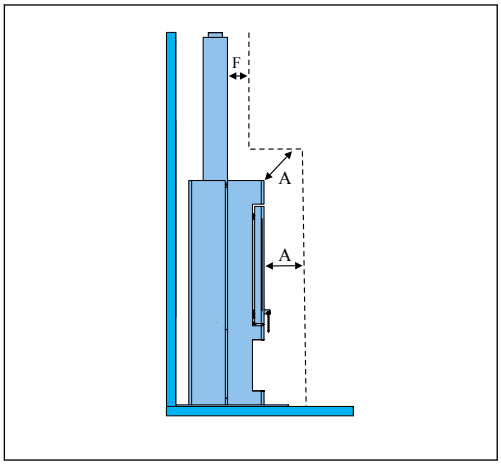
Warning:

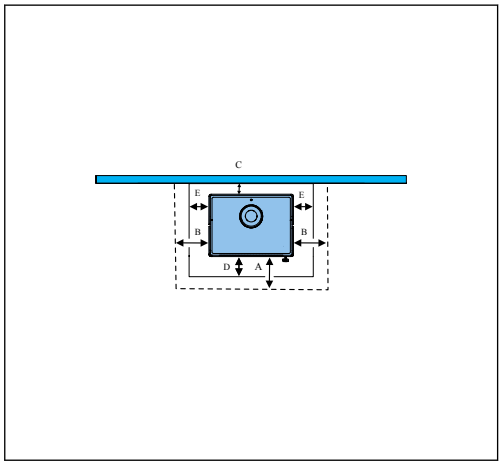
- Obey the instructions in this section. Failure to follow these instruction can create a fire hazard.
- Do not put the appliance directly against a flammable or non-flammable wall.

Caution: Make sure that flammable materials near the appliance can never reach a temperature above 85 degrees centigrade

5.1 Safety distances







	BOX 35-52-100		
Label	Minimum distance to flammable materials in cm	Remark	Minimum distance to nonflammable materials in cm
A	140		80
B	25		5
C	30		5
D	20	Install a non-flammable floor plate (floor stone) in front of the appliance when put on a flammable floor. The floor plate must have a minimum depth (D) of 20 cm in front of the appliance and a minimum width (E) of 15 cm from each side of the appliance.	-
E	15		-
F	20		5

	BOX 35-52-80 / BOX 40-52-80		
Label	Minimum distance to flammable materials in cm	Remark	Minimum distance to nonflammable materials in cm
A	140		80
B	25		5
C	30		5
D	30	Install a non-flammable hearth with a thickness of minimum 3 cm (floorstone) when the appliance is put on a flammable floor.The width (E) of the hearth must be minimum 15 cm from each side of the appliance. The minimum depth of the hearth in front of the appliance (D) is minimum 30 cm. If the appliance is put on a flammable platform, make sure the depth of the non-flammable hearth is the same size as the platform in front of the appliance.	-
E	15		-
F	20		5

	BOX 35-52-65 / BOX 40-52-65		
Label	Minimum distance to flammable materials in cm	Remark	Minimum distance to nonflammable materials in cm
A	140		80
B	25		5
C	30		5
D	40	Install a non-flammable hearth with a thickness of minimum 3 cm (floorstone) when the appliance is put on a flammable floor.The width (E) of the hearth must be minimum 15 cm from each side of the appliance. The minimum depth of the hearth in front of the appliance (D) is minimum 40 cm. If the appliance is put on a flammable platform, make sure the depth of the non-flammable hearth is the same size as the platform in front of the appliance.	-
E	15		-
F	20		5

6 Installation requirements

6.1 Requirements on the installation of the appliance

- Make sure that the location agrees with the safety requirements. Refer to section *4.1*.
- Make sure the floor is made of concrete or a solid pedestal of non-combustible material.
- Make sure the floor is level. After placement it is not possible to level the appliance.
- 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 below and in front of the appliance cannot be higher than 85 °C, during use of the appliance. Refer to section *5*.
- The non-combustible floor 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*.
- Make sure the room where the appliance is installed has correct ventilation.
- Make sure that combustion air can flow into the appliance without obstruction.
- If applicable, it is recommended to install a valve in the external combustion air pipe.

6.2 Requirements for installation on a platform

The following appliances and can be put on a platform of non-combustible material.

- BOX 35-52-65
- BOX 40-52-65

Make sure to obey the following requirements for installation on a platform.

- The platform must be non-combustible, for example concrete or natural stone.
- Place the appliance approximately 3 mm above the platform by means of the adjustable feet.
- The platform must have minimum thickness of 3 cm.
- The platform must support the weight of the appliance directly underneath it.
- Ask your natural stone dealer for additional advice regarding the specific type of natural stone in combination with the appliance.

6.3 Requirements on the chimney

- 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 130 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.

7 Installation

7.1 Install the appliance

1. Put the appliance in the designated position.
2. Obey the safety distances. Refer to section *5* .
3. If necessary, put a nonflammable floor plate in front of the appliance. Refer to section *5* .
4. Make sure that the flue connection on on top of the appliance is correct in line with the flue pipe to the ceiling.
5. Make sure the appliance is installed horizontally. Use a spirit lever.

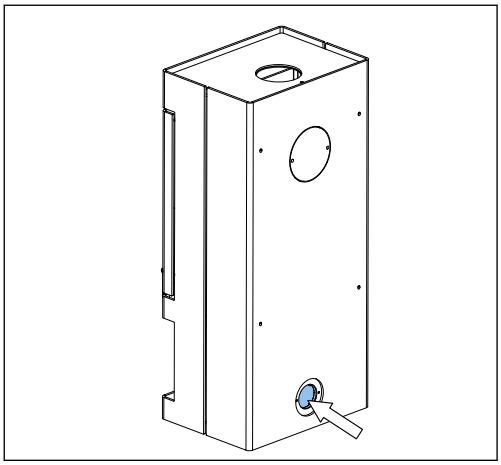
7.2 Connect the optional external air supply

- 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.

Connection to the rear of the appliance, refer to section *7.2.1*.

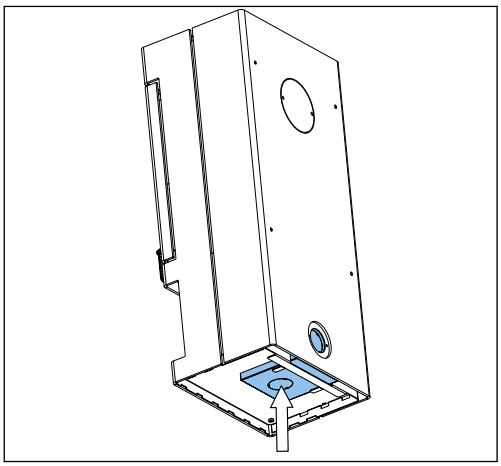
Connection to the bottom of the appliance, refer to section *7.2.2*.

7.2.1 Connect the optional external air supply (rear connection)



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.

7.2.2 Connect the optional external air supply (bottom connection)



1. Remove the round break out plate at the bottom of the appliance with a hammer.
2. If necessary, 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 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 conection ring. Use a hose clamp.

7.3 Connect the flue gas pipe

Caution: During operation of the appliance the outer side of the flue system becomes hot. Refer to section *5* for minimum distances to flammable material.

Note: If the appliance is installed on an unlined, masonry flue with a large diameter, consider using a flue lining system to improve the performance of the appliance.

1. Connect the flue to the flue gas connection on the appliance. If necessary use a steel flue adaptor.
2. 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)
3. Make sure that all mechanical connections of the flue system are correctly used.
4. Make sure that all of the flue system is gas-tight,

7.4 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 the plates on the side and rear wall of the combustion chamber and the baffles are in the correct position.

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 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.

8.2 Combustion air supply

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

8.3 Chimney

Note:

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

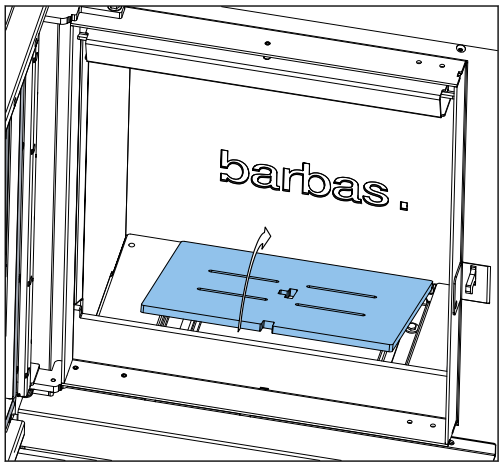
1. Remove the heat shield, lower baffle and upper baffle before the chimney sweep work. Refer to section *8.5* for the procedure to remove the heat shield and the baffles.
2. Sweep and inspect the chimney
3. Make sure there is no blockage in the chimney, for example by birds' nests.
4. Examine for cracks, loose parts and flue gas leakage. It is recommended to use an inspection camera.
5. Install the heat shield, lower baffle and upper baffle. Refer to section *8.7* for the procedure to install the heat shield and the baffles.

8.4 Removal of the bottom plates, grate and ash tray

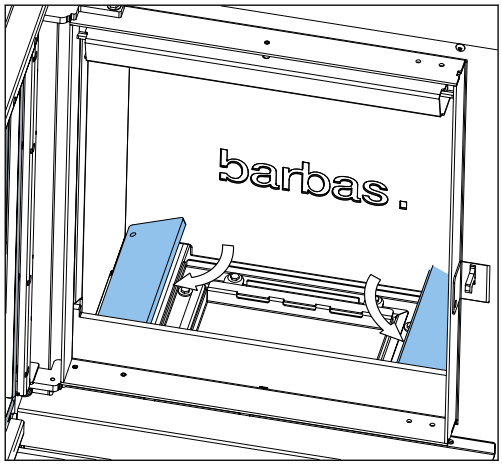
Note:

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

1. Lift the grate and remove from the combustion chamber.



2. Lift the left and right steel bottom plate and remove from the combustion chamber.



8.5 Removal of the heat shield and baffle

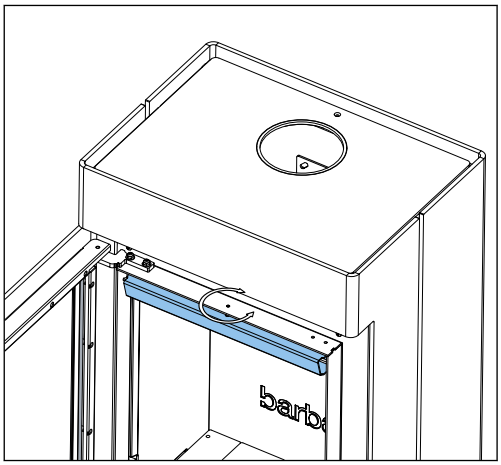
Note:

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

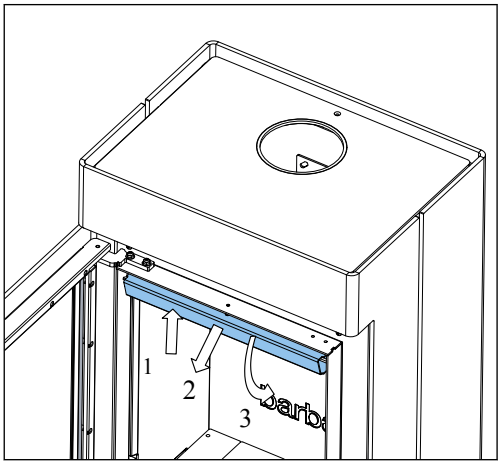
1. Remove the heat shield. Refer to section *8.5.1*.
2. Remove the baffle. Refer to section *8.5.2*.

8.5.1 Remove the heat shield

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



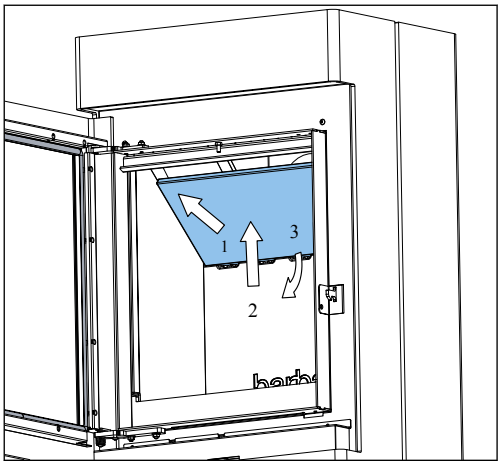
3. Push up the front of the heat shield (1) and pull it forward (2) and move downward to a vertical position (3).
4. Remove the heat shield from the appliance.



8.5.2 Remove the baffle

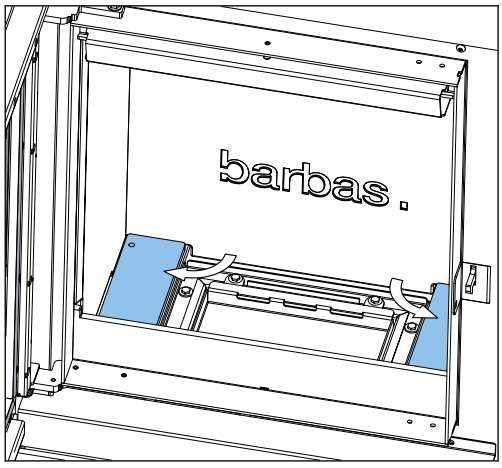
Only do this procedure after finish of the procedure in section *8.5.1*.

1. Push up the rear side of the baffle and move it as far back as possible.
2. Lower the front side of the baffle and remove the baffle from the appliance.

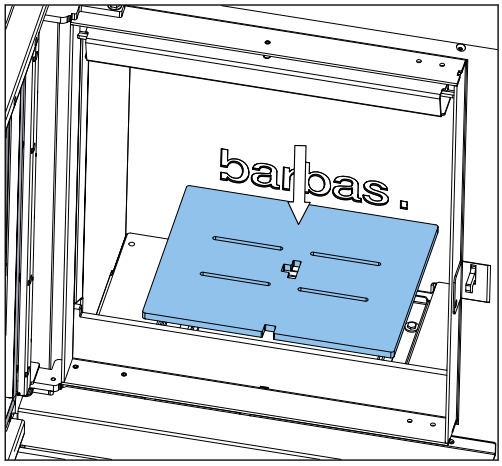


8.6 Installation of the bottom plates, ash tray and grate

1. Put the left steel bottom plate on the bottom of the combustion chamber.
2. Move the steel bottom plate to the left as much as possible.
3. Put the right steel bottom plate on the bottom of the combustion chamber.
4. Move the steel bottom plate to the right as much as possible.



5. Put the grate in the combustion chamber. Make sure the notch in the grate is facing to the front of the appliance
6. Put the grate on the ashtray

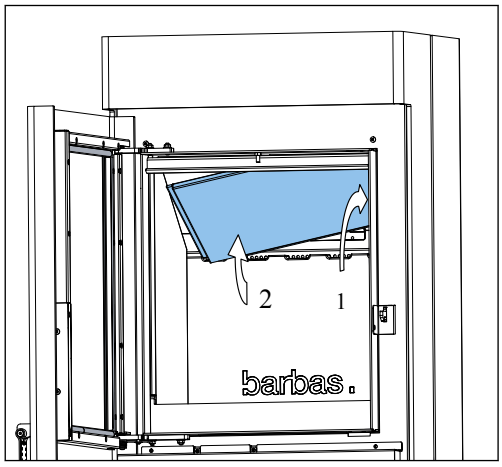


8.7 Installation of the baffles

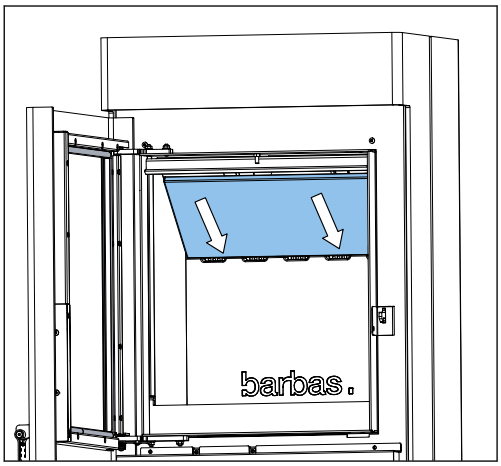
1. Install the baffle. Refer to section *8.7.1*.
2. Install the heat shield. Refer to section *8.7.2*.

8.7.1 Install the baffle

1. Move the baffle up under an angle into the combustion chamber (1) and put the right side of the baffle above the side panels (2) on the right.
2. Move the left side of the baffle up and put it on top of the side panels on the left. If it does not fit, make sure the side panels are firmly seated against the side wall of the appliance.



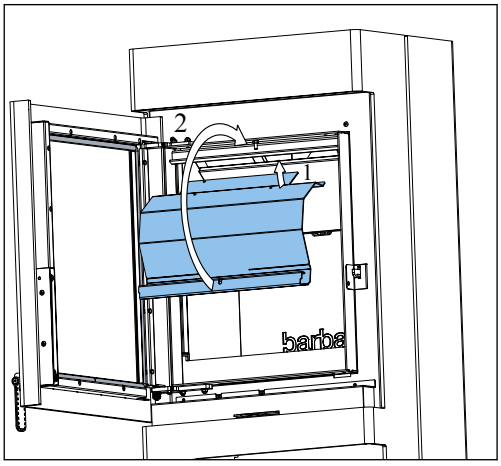
3. Put the rear side of the baffle against the rear wall (3).
4. Make sure the baffle is horizontal and against the rear wall.



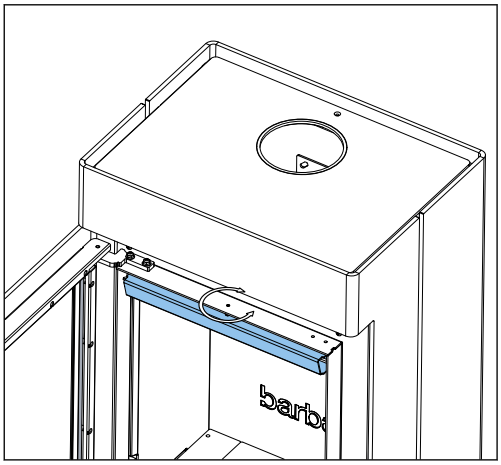
8.7.2 Install the heat shield

Only do this procedure after finish of the procedure in section *8.7.1*.

1. Move the heat shield up and put the rear side above the baffle (1).
2. Move the front of the heat shield up (2) and put the edge on the metal strip under the air wash inlet (3).



3. Turn the screw down with a 3 mm hexagonal key until it is in the screw hole in the heat shield.
4. Turn the nut up with a 10 mm fork spanner and tighten it.



9 Technical data

9.1 Technical data BOX 35-52-100, BOX 35-52-80, BOX 35-52-65

Name	Barbas		
Model	BOX 35-52-100	BOX 35-52-80	BOX 35-52-65
EPREL registration number	2042273	2075859	2075862
Tested in accordance with	EN 13240:2001-A2:2004 EN16510-1 annex D, E, F BS 3841-2:1994		
Energy efficiency index	103		
Energy efficiency class	A		
Fuel	Wood logs, Wood briquettes		
Nominal fuel load	2.0 kg		
Nominal heat output (net)	8.0 kW		
Useful efficiency at nominal heat output	≥ 75 %		
Minimum fuel load	1.1 kg		
Minimum heat output (net)	5.0 kW		
Useful efficiency at minimum heat output (indicative)	≥ 75 %		
Seasonal efficiency	68 %		
Indirect heating function	No		
Room sealed	No		
Leak rate at 10 Pa	Not applicable		
Emissions (at 13 % O_2, 273 K, 1013 hPa)			
• carbon monoxide (CO)	≤ 0.12 vol% (≤ 1500 mg/Nm^3)		
• particles (PM)	≤ 40 mg/Nm^3		
• organic gaseous compounds (OGC)	≤ 120 mg/Nm^3		
• nitrogen oxides (NO_x)	≤ 200 mg/Nm^3		
Flue gas mass flow	7.3 g/s		
Flue gas outlet temperature	368 °C		
Flue gas temperature	307 °C		
Chimney draught	12 Pa (0,12 mbar)		
Flue gas connection	Outer diameter 128 mm, suitable for a pipe with an inner diameter of 130 mm		
External combustion air connection	80 mm		
Weight			
Vermiculite interior	183 kg	161 kg	141 kg
Ceramic interior	192 kg	170 kg	150 kg
Minimum distance to flammable materials			

• side wall • back wall • floor • ceiling	Refer to section *5*
Used materials	
• Combustion chamber back and side panels	Vermiculite 750 kg/m^3 / Heat resistant ceramic 1600 kg/m^3 *)
• Combustion floor and grate	Steel
• Baffle	Heat resistant ceramic 2000 kg/m^3 / Vermiculite 750 kg/m^3 *)
• Heat shield	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:	Installation and maintenance manual User manual

*) The panels are made of these materials, dependent on the choice made at the time of purchase.

9.2 Technical data BOX 40-52-80, BOX 40-52-65

Name	Barbas	
Model	BOX 40-52-80	BOX 40-52-65
EPREL registration number	2112226	2112229
Tested in accordance with	EN 13240:2001-A2:2004 EN16510-1 annex D, E, F BS 3841-2:1994	
Energy efficiency index	103	
Energy efficiency class	A	
Fuel	Wood logs, Wood briquettes	
Nominal fuel load	2.0 kg	
Nominal heat output (net)	8.0 kW	
Useful efficiency at nominal heat output	≥ 75 %	
Minimum fuel load	1.1 kg	
Minimum heat output (net)	5.0 kW	
Useful efficiency at minimum heat output (indicative)	≥ 75 %	
Seasonal efficiency	68 %	
Indirect heating function	No	
Room sealed	No	
Leak rate at 10 Pa	Not applicable	
Emissions (at 13 % O_2, 273 K, 1013 hPa)		
• carbon monoxide (CO)	≤ 0.12 vol% (≤ 1500 mg/Nm^3)	
• particles (PM)	≤ 40 mg/Nm^3	
• organic gaseous compounds (OGC)	≤ 120 mg/Nm^3	
• nitrogen oxides (NO_x)	≤ 200 mg/Nm^3	
Flue gas mass flow	7.3 g/s	
Flue gas outlet temperature	368 °C	
Flue gas temperature	307 °C	
Chimney draught	12 Pa (0,12 mbar)	
Flue gas connection	Outer diameter 128 mm, suitable for a pipe with an inner diameter of 130 mm	
External combustion air connection	80 mm	
Weight		
Vermiculite interior	166 kg	146 kg
Ceramic interior	175 kg	155 kg
Minimum distance to flammable materials		
• side wall • back wall • floor • ceiling	Refer to section *5*	
Used materials		

• Combustion chamber back and side panels	Vermiculite 750 kg/m^3 / Heat resistant ceramic 1600 kg/m^3 *)
• Combustion floor and grate	Steel
• Baffle	Heat resistant ceramic 2000 kg/m^3 / Vermiculite 750 kg/m^3 *)
• Heat shield	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:	Installation and maintenance manual User manual

*) The panels are made of these materials, dependent on the choice made at the time of purchase.

9.3 Product information according regulation (EU) 2015/1185

Model identifier	*BOX 35-52-100*
Equivalent models	*BOX 35-52-80; BOX 35-52-65; BOX 40-52-80; BOX 40-52-65*
Indirect heating function	*No*
Direct heat output	*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*	*≤ 40*	*≤ 120*	*≤ 1500*	*≤ 200*	*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_s [%]	*68*						
Energy efficiency index (EEI)	*103*						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat output				**Useful efficiency (NCV as received)**			
Nominal heat output	P_{nom}	*8.0*	kW	Useful efficiency at nominal heat output	$\eta_{th,nom}$	*77.6*	%
Minimum heat output (indicative)	P_{min}	*5.0*	kW	Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	*78.4*	%

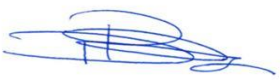
Auxilliary power consumption				**Type of heat output/room temperature control (select one)**	
At nominal heat output	el_{max}	*N.A.*	kW	Single-stage heat output, no room temperature control	*yes*
At minimum heat output	el_{min}	*N.A.*	kW	Two or more manual stages, no room temperature control	*no*
In standby mode	el_{SB}	*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_{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, NOx = nitrogen oxides
(**) Only required if correction factors F(2) or F(3) are applied.

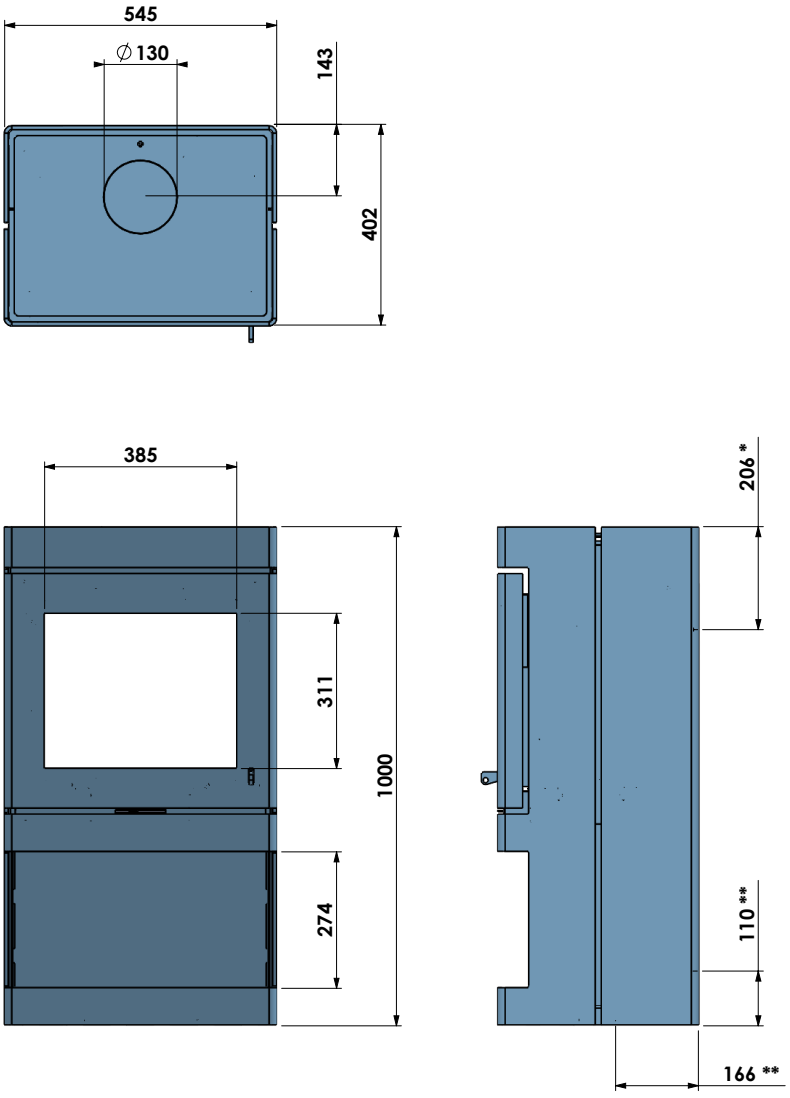
Signed for and on behalf of the manufacturer by:
Danny Baijens, CEO

Bladel; 22 August 2024



10 Dimensions

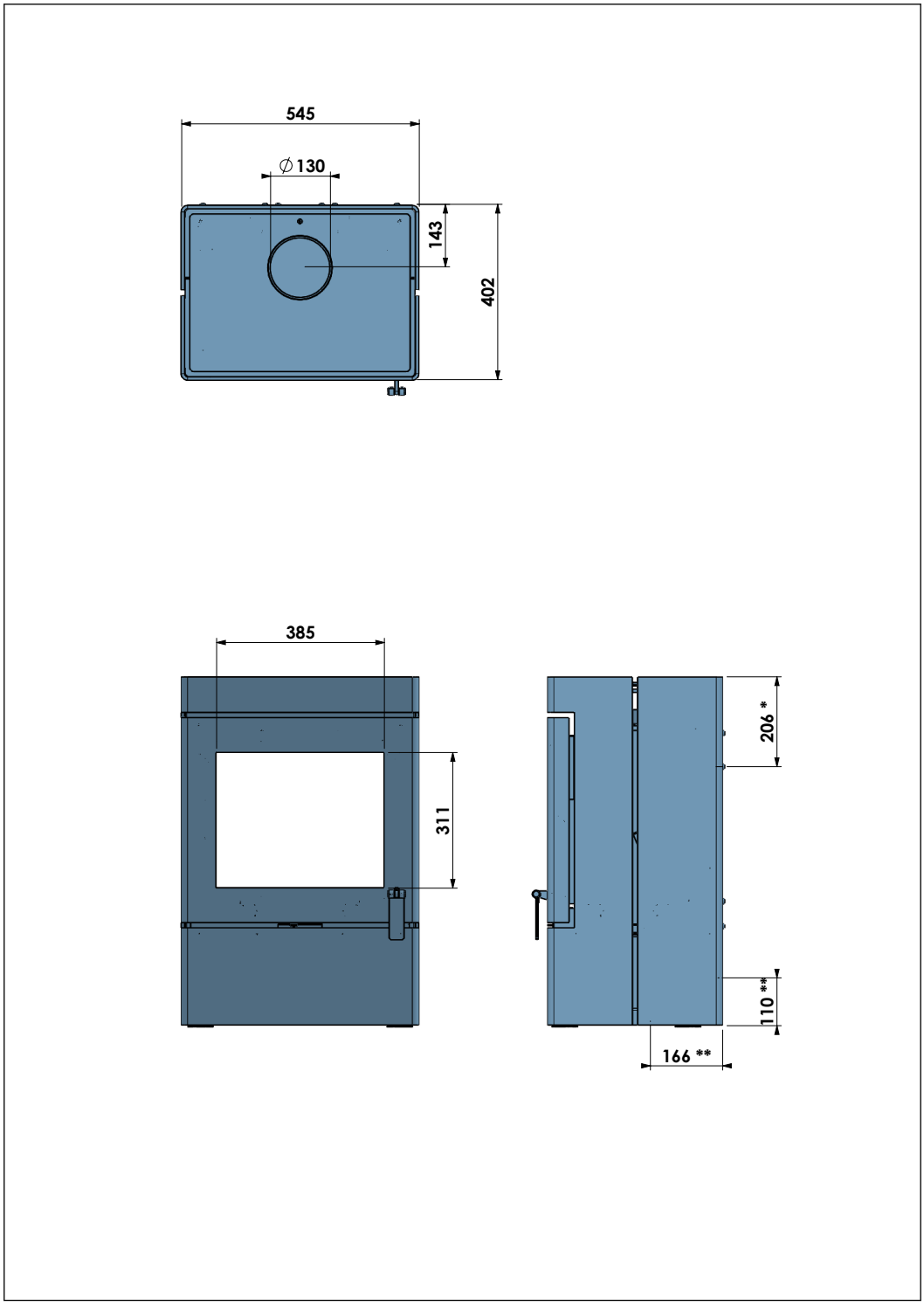
10.1 Dimensions BOX 35-52-100



*) Optional chimney connection (Ø 130) at the rear.

**) Combustion air inlet openings (Ø 80 mm) at the rear and bottom of the appliance.

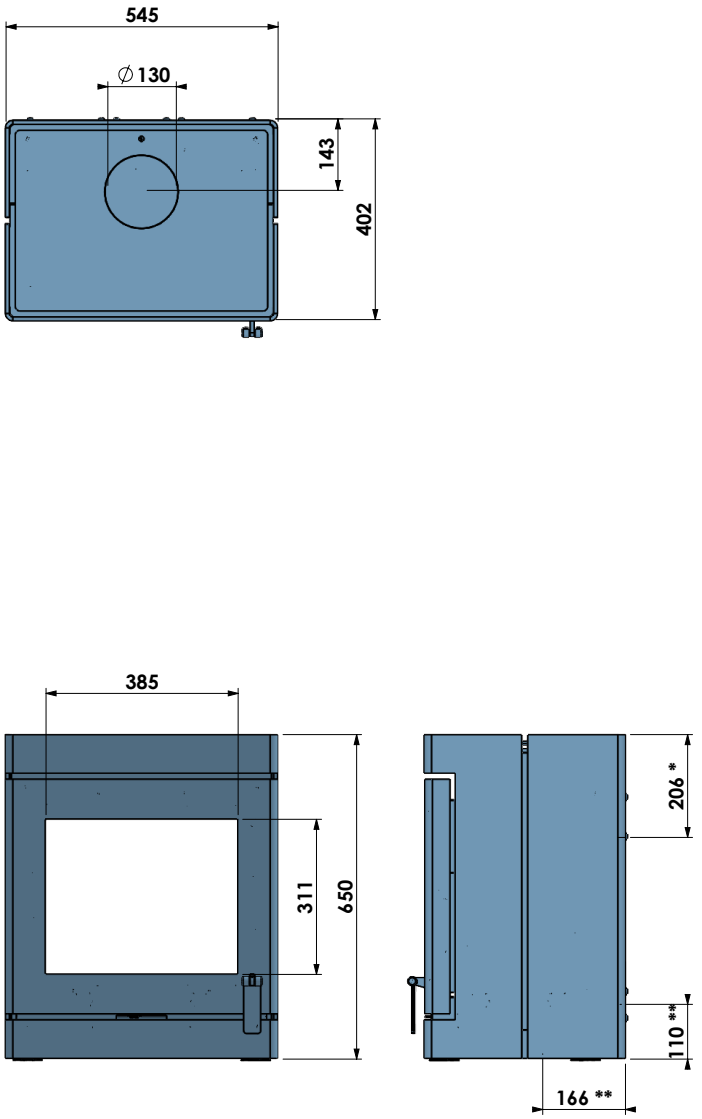
10.2 Dimensions BOX 35-52-80



*) Optional chimney connection (Ø 130) at the rear.

**) Combustion air inlet openings (Ø 80 mm) at the rear and bottom of the appliance.

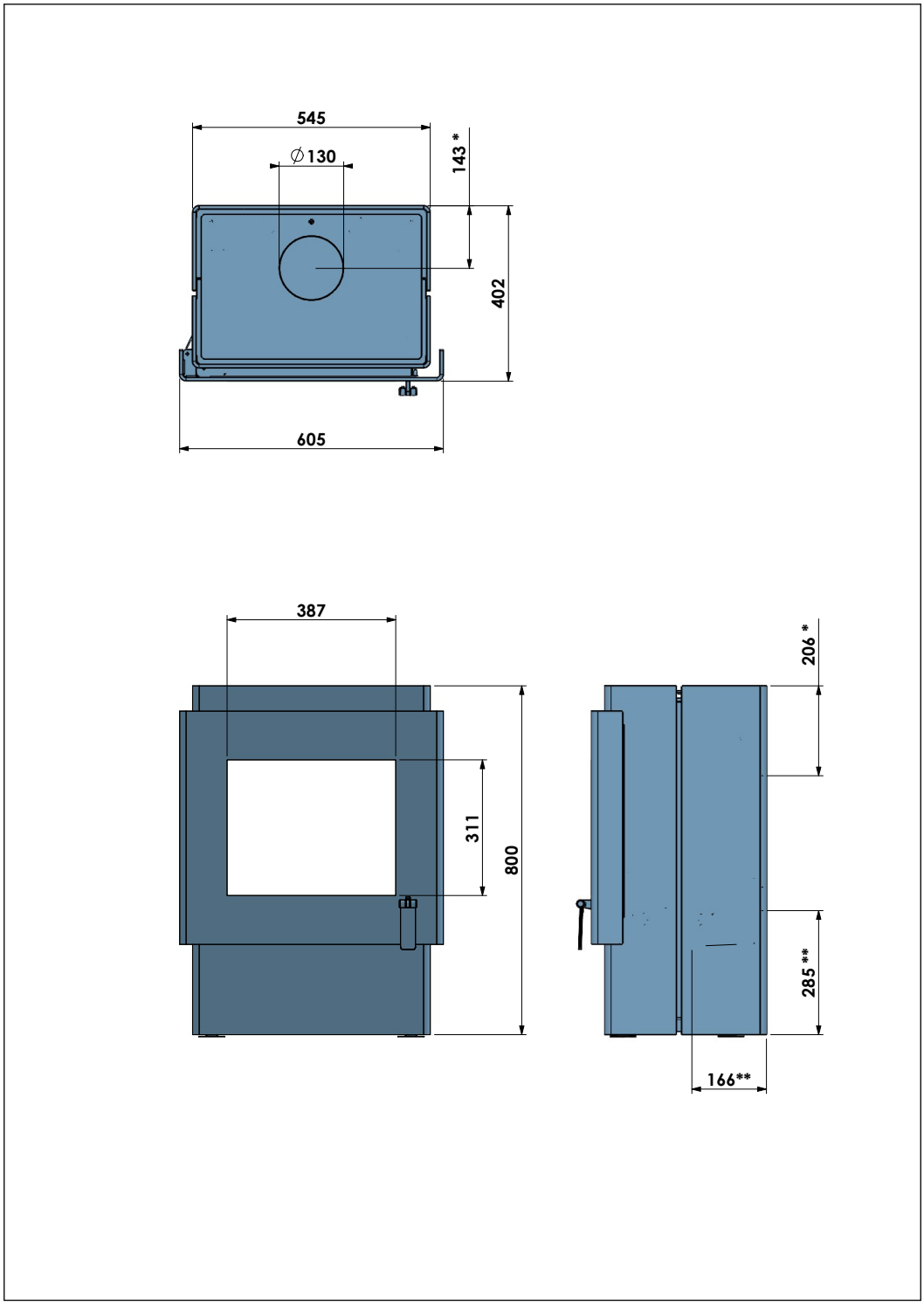
10.3 Dimensions BOX 35-52-65



*) Optional chimney connection (Ø 130) at the rear.

**) Combustion air inlet openings (Ø 80 mm) at the rear and bottom of the appliance.

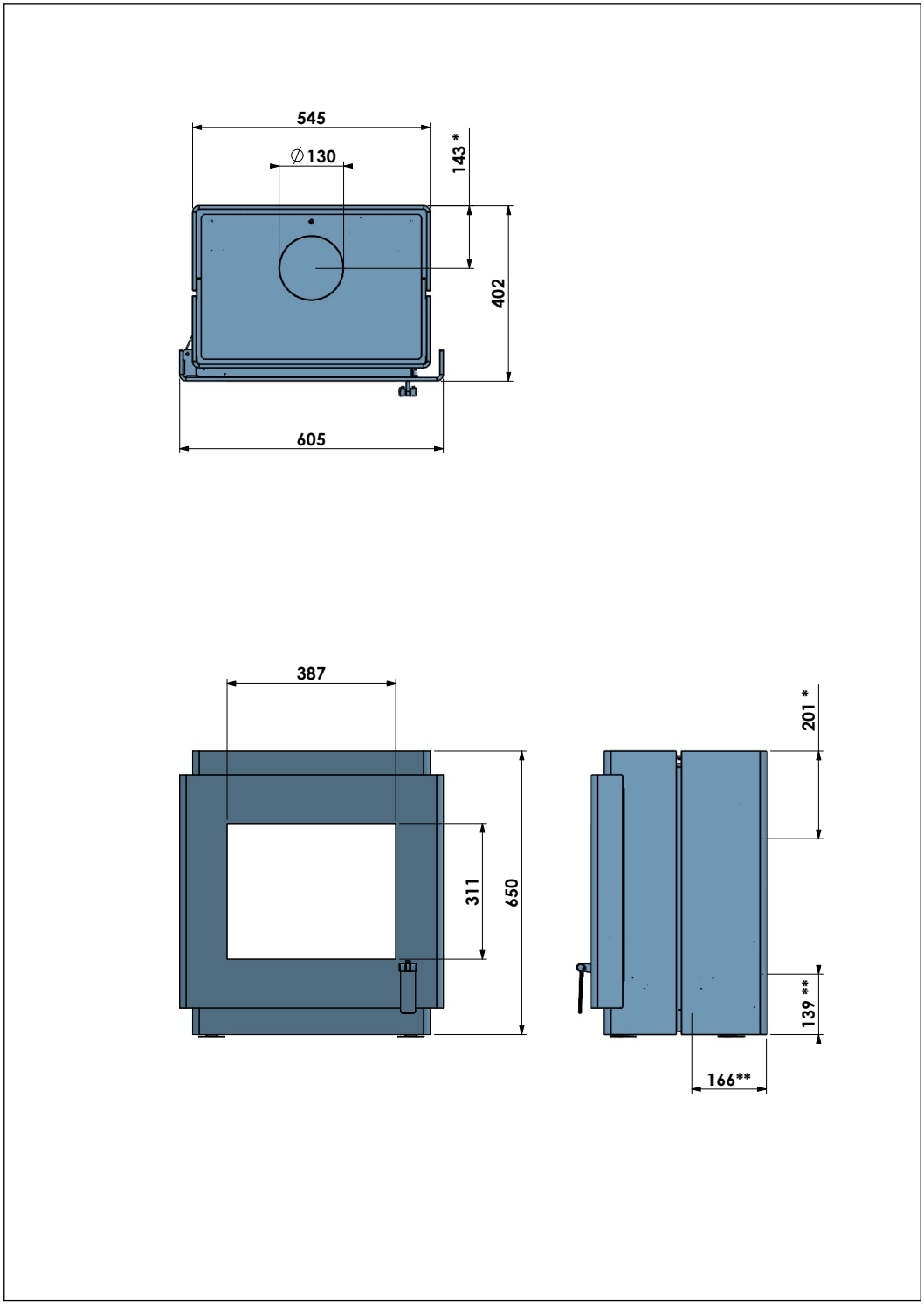
10.4 Dimensions BOX 40-52-80



*) Optional chimney connection (Ø 130) at the rear.

**) Combustion air inlet openings (Ø 80 mm) at the rear and bottom of the appliance.

10.5 Dimensions BOX 40-52-65



*) Optional chimney connection (Ø 130) at the rear.

**) Combustion air inlet openings (Ø 80 mm) at the rear and bottom of the appliance.

11 Warranty Terms

To make a claim under the warranty, it is important to register the Barbas appliance after purchase via www.barbasbellfires.com.

Barbas Bellfires Warranty Terms

Barbas Bellfires 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 Bellfires B.V. offers the following manufacturer's warranty.

Article 1: Warranty

1. If Barbas Bellfires B.V. determines that the Barbas appliance you have purchased is defective as a result of a flaw in the construction or material, Barbas Bellfires 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 Bellfires B.V.or by a Barbas dealer as designated by Barbas Bellfires B.V.
3. This warranty is supplementary to the existing legal national warranty of Barbas dealers and Barbas Bellfires 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 Bellfires 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 Bellfires B.V. under this warranty does not automatically imply that Barbas Bellfires B.V. also accepts liability for any possible damage.The liability of Barbas Bellfires B.V. never extends further than that stated in these warranty conditions. Any liability of Barbas Bellfires B.V. for consequential damage is expressly excluded.
2. That stated in this provision is not valid if and to the extent that is derives from a mandatory provision.
3. All agreements entered into by Barbas Bellfires 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 Bellfires B.V.

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Tel: +31-497339200

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

23.09.2024 - 355530 - 413-002