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User manual

Box Gas 45 MF



Serial number:

Production date:

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1 About this document

This document shows the necessary information to do these tasks on the Box Gas 45 MF:

- Operate the appliance
- Do basic maintenance

This document refers to the Box Gas 45 MF 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.

1.1 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.

1.2 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

1.3 Related documentation

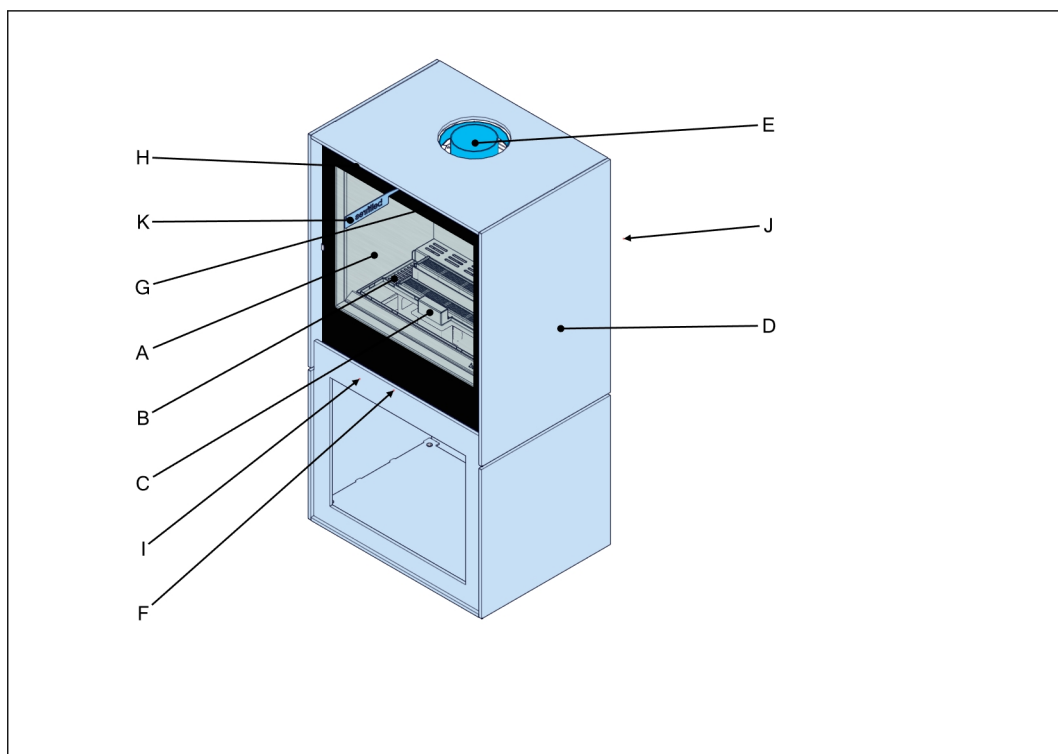
- Preparation manual
- Installation and maintenance manual
- User manual
- Assembly instructions for concentric flue system

2 Description

2.1 Intended use

Only use the appliance to heat the room in which the appliance is installed. Do not use the appliance for a different purpose.

2.2 Overview of the appliance



	Item	Description
A	Glass	The heat resistant glass keeps the flue gases inside the appliance and closes the combustion chamber off
B	Burner bed	Top side of the gas burner and grate
C	Pilot light burner	Provides a pilot light
D	Box (Optional with a storage module)	A decorative casing around the combustion chamber and control unit
E	Concentric flue connection	The connection to the concentric flue system that provides combustion air and extracts the flue gases
F	Inlet opening convection air	An inlet opening in the front of the appliance which is connected to the convection casing
G	Outlet opening convection air	An outlet opening in the front of the appliance which is connected to the convection casing
H	Overpressure door	Protects the appliance against an overpressure
I	Control unit	Contains the gas regulator block, receiver and the light module
J	Convection casing	Collects the heated convection air. The convection air has a natural upward flow and is extracted by the upper front side openings of the appliance
K	Hook	For opening the door (including glass)

2.3

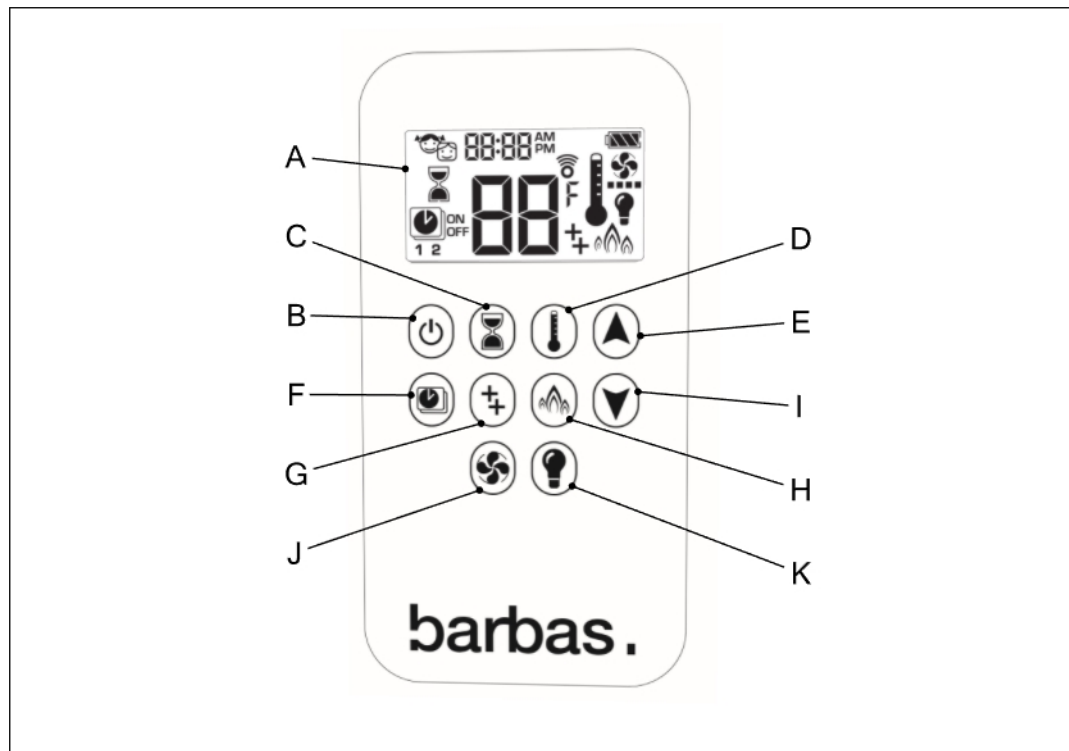
Overview of the remote control



Note: The remote control is not interchangeable with a remote control from a different model.

You can operate the appliance with the remote control. The remote control communicates with the receiver.

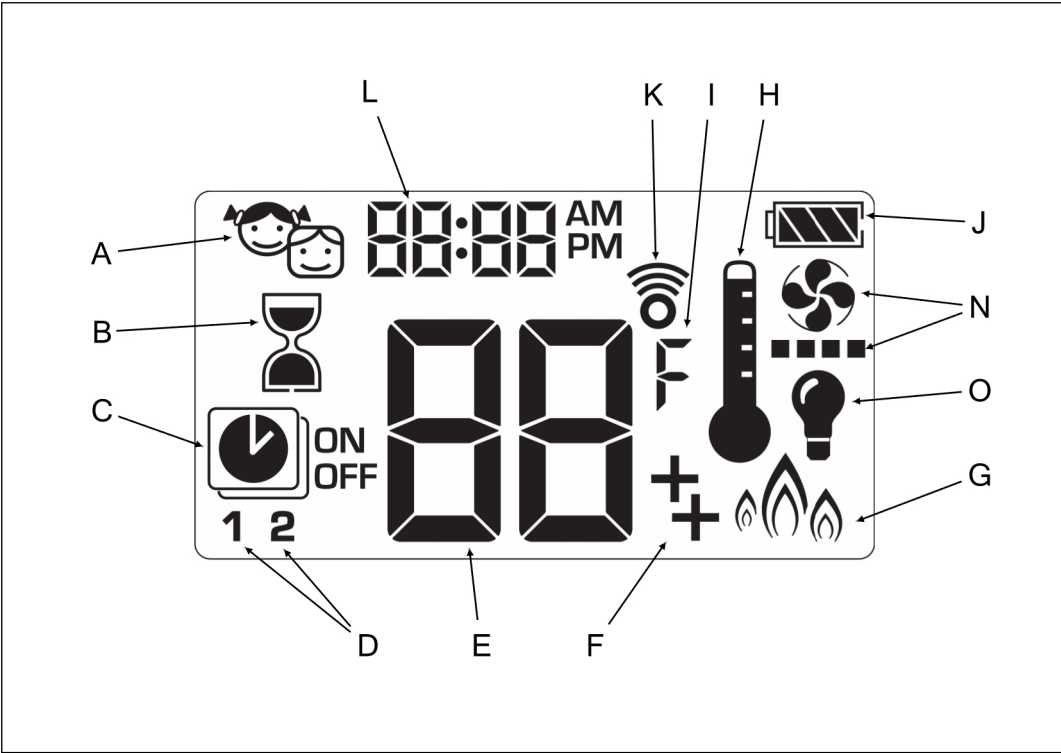
2.3.1 Overview of the buttons



- | | | | |
|---|-------------------|---|----------------------|
| A | Display | G | Burner mode |
| B | On/off | H | Eco mode |
| C | Countdown timer | I | Down |
| D | Thermostatic mode | J | Fan (Not applicable) |
| E | Up | K | Light |
| F | Program mode | | |

Figure 1. Remote control buttons

2.3.2 Overview of the display



	Item	Description
A	Child proof	To show that the remote control is locked, so children cannot use it.
B	Countdown timer	To show that the countdown timer is set.
C	Program mode	To show that the program mode is set.
D	Program number	To show that program 1 or 2 is active
E	Temperature	To show the set temperature.
F	AUX function	To show that both burners are on.
G	Eco mode	To show that the eco mode is set.
H	Thermostatic mode	To show that the thermostatic mode is on.
I	Temperature scale	To show the temperature in °C or °F.
J	Battery status	To show the status of the battery.
K	Signal indicator	To show if the signal is sent to the receiver.
L	Time	To show the current time.
M	Fan symbol (Not applicable)	To show that the fan is on
N	Fan speed symbol (Not applicable)	To show the fan speed level: one to four bars
O	Light symbol	To show that the light is on

2.4 Operation modes

2.4.1 Thermostatic mode

In this mode the appliance measures the room temperature and compares this to the set temperature. The appliance automatically adjusts the flame height to make sure that the room temperature agrees with the set temperature.

2.4.2 Program mode

In this mode you can set two different programs. You can use these programs to start and stop the appliance at a set temperature on specific times and days.

2.4.3 Eco mode

In this mode the flame height changes between minimum and maximum height for the duration of a cycle:

- If the room temperature is lower than the set temperature, the flame height will stay high for a longer period of time.
- If the room temperature is higher than the set temperature, the flame height will stay low for a longer period of time.

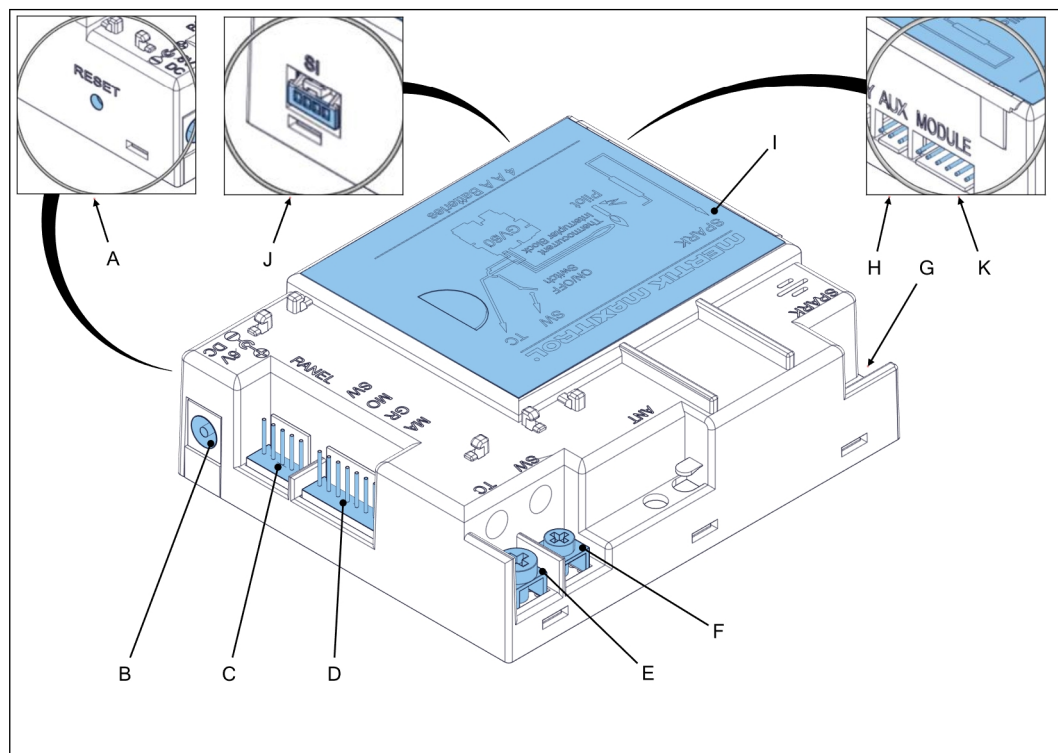
A cycle in the eco mode continues for approximately 20 minutes.

2.4.4 Countdown timer mode

In this mode you can set a period of time after which the appliance stops. The countdown timer mode only operates when the appliance is set to the manual, thermostatic or eco mode.

2.5 Overview of the control elements

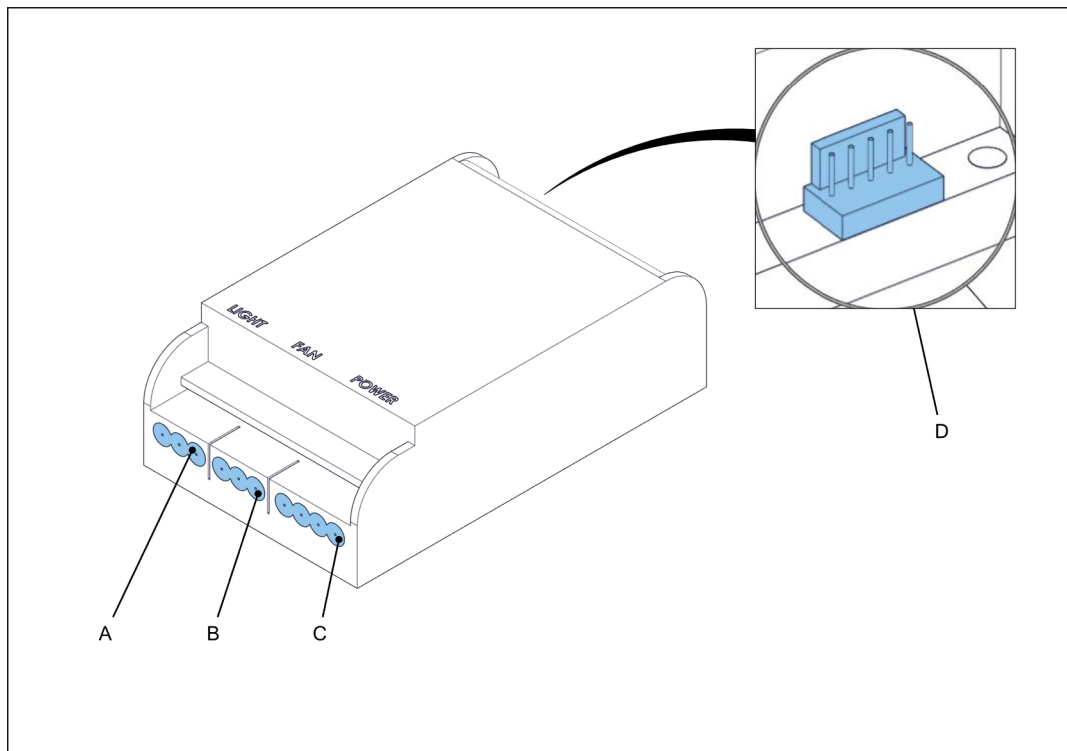
2.5.1 Overview of the receiver



- | | | | |
|---|--|---|---|
| A | Reset button | G | Piezo cable connection |
| B | Connection for 6 VDC adapter - Not in use | H | Connection to the gas valve rear burner (AUX) |
| C | Not in use | I | Battery compartment cover |
| D | 8 wire cable connection | J | Connection for an optional wifi-box (SI) |
| E | Thermocouple voltage / current IN (red connection) | K | Connection for the fan/light module / 6 VDC power supply (MODULE) |
| F | Thermocouple voltage / current OUT (yellow connection) | | |

Figure 2. Receiver

2.5.2 Overview of the fan/light module



- | | | | |
|---|--|---|---------------------------------|
| A | Connection for the ambient lights | C | connection for the power supply |
| B | Connection for a convection fan (not in use) | D | Connection for the receiver |

Figure 3. Fan/light module

3 Safety

3.1 Safety devices on the appliance

Name	Description
Thermo-electric pilot light shut off	Prevents unforeseen discharge of gas from the main burner.
Overpressure door	If an overpressure occurs in the appliance, the door opens for a short duration. When the door opens, a loud noise can occur. If an overpressure occurs, the installer must do a thorough check on the appliance.

3.2 Safety instructions for operation

**Warning:**

- Do not put flammable items within 100 cm of the appliance.
- Do not use the appliance when the glass is removed.
- Do not use flammable fuels on the ceramic logs.
- Make sure that children are supervised when they can reach the appliance.
- Use a fire screen for heat protection.
- Make sure that there is sufficient ventilation in the room in which the appliance is installed.
- Do not use the appliance in case of visual glass damage.
- Make sure that the appliance is installed correctly. Refer to the Installation and Maintenance manual.
- Make sure that the appliance is installed and connected as a 'room sealed system' appliance by a certified and registered gas installation engineer.

**Caution:**

- Make sure that embers, vermiculite granules, ceramic logs or pebbles do not touch the pilot light burner.
- Make sure that the pilot light burner is not blocked.
- Do not adjust the position of embers, vermiculite granules, ceramic logs or pebbles on the main burner.
- Keep the remote control in a dry and cool place away from direct sunlight.
- Clean the glass when it is dirty. If the glass is not cleaned when it is dirty the glass can become permanently dull.
- Make sure that the yearly maintenance is done.
- Do not use the appliance for 4 weeks after installation. This time is necessary for the building materials to set.

**Note:**

- If you do not use the appliance for an extended period of time, close the gas supply.
- We recommend to set the appliance to stand-by mode (only the pilot light burns) during winter to prevent condensation in the appliance. Refer to the last Note of chapter

3.3 Safety instructions with regard to the environment

- Dispose of the packing materials in an environmentally friendly way.

- Dispose of batteries as chemical waste.
- 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.

4 Operation

4.1 Preparation before first use

4.1.1 Do a check on the appliance

1. Make sure that the appliance is not damaged.
2. Make sure that the glass is not damaged.
3. Make sure that the pilot light operates correctly.

4.1.2 Prepare the appliance



Warning:

- Do not use the appliance for 4 weeks after installation. This time is necessary for the building materials to set.
- Make sure that there is sufficient ventilation in the room in which the appliance is installed.



Note: The appliance has a heat-resistant coating. When you use the appliance for the first time, the coating can cause an unpleasant, but harmless smell.

1. Start the appliance, refer to section [4.3](#).
2. Set the flame height to maximum, refer to [4.3](#).
3. Keep the flame height to maximum for 10 minutes to make sure the chimney becomes warm.
4. Use the appliance with maximum flame height for several hours to remove the smell of the coating.
5. When the appliance is cool, clean the appliance. Refer to [5.2](#).

4.1.3 Connect the receiver with the remote control



Note:

- You only have to connect the receiver once. Even when you change the batteries, the remote control stores the settings.

1. On the receiver, push and hold the reset button until you hear two beeps.
2. Within 20 seconds of the second beep, push and hold the down button on the remote control until you hear two short beeps. If you hear one long beep the receiver is not set, try again.
3. The remote control counts from 1 to 8, while making a connection with the receiver. The receiver is connected. If not, repeat the procedure.

4.1.4 Start the appliance



Warning:

- Keep a minimum distance of 100 cm of the appliance when you start the pilot light.
- When the pilot light goes out, always wait 5 minutes before you start it again.

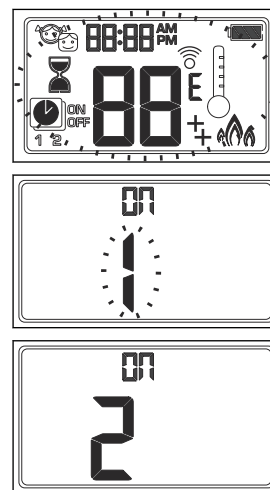
**Note:**

- The main burner burns at maximal height after start-up.
- If the pilot light goes out and you start the appliance too early, the remote control will start but the fire will not burn. Restart the remote control.
- Start the appliance with the on/off button(s). Refer to [4.3](#).

4.2 Set the remote control settings

4.2.1 Set the one/two-button operation

- When the display shows '1', the one-button operation mode is selected.
 - When the display shows '2', the two-button operation mode is selected. This mode will prevent accidental start-up of the appliance.
1. Remove the batteries from the remote control.
 2. Put the batteries in the remote control. The screen starts to blink.
 3. Push and hold the on/off button for approximately 10 seconds. The current setting of the remote starts to blink.
 4. When the number changes and stops to blink, release the button.
 - The '1' changes into '2' when the remote control is set to the two-button operation.
 - The '2' changes into '1' when the remote control is set to the one-button operation.



4.2.2 Set the temperature scale

- If you set the temperature scale to °C, the display shows a 24-hour clock.
- If you set the temperature scale to °F, the display shows a 12-hour clock.
- Push the on/off button and the countdown timer button at the same time to change the temperature scale between °C and °F.

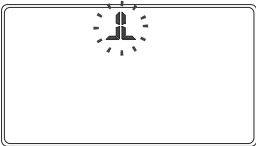
4.2.3 Set the day and time

1. Push the up and down buttons at the same time. The day flashes in the display.
2. Use the up and down buttons select the day of the week (1 for Monday, 2 for Tuesday etc.).
3. Push the up and down buttons at the same time. The hour flashes in the display.
4. Use the up and down buttons to select the hour.
5. Push the up and down buttons at the same time. The minutes flash in the display.
6. Use the up and down buttons to select the minutes.
7. Push the up and down buttons at the same time to store the day and time settings.

4.3 Operate the appliance

4.3.1 Operate the appliance with the remote control

Table 1: Start and stop the appliance

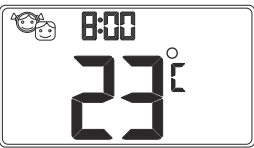
Action	Preconditions	Steps	Result
Start the appliance with one-button operation	The remote control is set to the one-button operation. Refer to section 4.2.1.	Push 	You hear a short beep. 
Start the appliance with two-button operation	The remote control is set to the two-button operation. Refer to section 4.2.1.	Push  and  at the same time	You can use the remote control when the main screen shows 
Start the appliance from stand-by mode	The appliance is set to stand-by mode.	Push and hold 	
Stop the appliance		Push 	



Note:

If the appliance will not stop by pushing the  button, push and hold the  button for 12 seconds to stop the appliance.

Table 2: Set the appliance to different modes

Action	Preconditions	Steps	Result
Set the appliance to stand-by mode		Push and hold  until only the pilot light burns	
Start the child proof mode		Push  and  at the same time	You can only use the off function of the remote control. 
Stop the child proof mode		Push  and  at the same time	
Start the thermostatic mode		Push 	
Stop the thermostatic mode		Push 	
Start the program mode		Push 	
Stop the program mode		Push 	
Start the eco mode		Push 	
Stop the eco mode		Push 	

Action	Preconditions	Steps	Result
Start the countdown timer mode		Push 	
Stop the countdown timer mode		Push 	

Table 3: Start and stop the rear burner



Note:
When you start the appliance also the rear burner is automatically set to maximum.

Action	Preconditions	Steps	Result
Start the rear burner		Push 	
Stop the rear burner		Push 	

Table 4: Adjust the flame height

**Note:**

When you start the appliance the flame height is automatically set to maximum.

Action	Preconditions	Steps	Result
Decrease the flame height		Push and hold  until you have the desired flame height	
Increase the flame height		Push and hold  until you have the desired flame height	
Set the flame height to maximum	The background lighting is on.	Tap  twice	
Set the flame height to minimum	The background lighting is on.	Tap  twice	

Table 5: Start and stop the light and adjust the brightness

Note:

The Light works independently of the Pilot flame.


Note:

If the main burner and pilot light are switched off, with button , the light will switch off automatically.

Action	Preconditions	Steps	Result
Start the light	Possible when the fire is on or off.	Push 	
Stop the light		Push 	
Decrease the light brightness	The light symbol is on.	- Push and hold  until the light symbol flashes - Push and hold  until you have the desired light brightness	
Increase the light brightness	The light symbol is on.	- Push and hold  until the light symbol flashes - Push and hold  until you have the desired light brightness	


Note:

Maximum thermostat 80 °C: The receiver in the appliance is fitted with a 80 °C maximum thermostat. When this thermostat is activated, the main burner will be completely switched off and the pilot light will continue to burn. The temperature in the receiver is measured every minute. The appliance cannot be operated again until the temperature has returned to below 80 °C.

**Note:**

To save energy, the pilot-flame automatically extinguishes when the appliance is not used for a period of 5 days. To avoid this, make two automatic start-stop actions per week in program mode. See chapter [4.4.2](#).

Mains power failure to the appliance**Warning:**

- If the power supply to the receiver is interrupted, the gas control block will not shut off the gas supply to the pilot and burners. The pilot flame and burners will continue to burn in the same position as before the power failure, regardless of the room temperature.
- As soon as the power supply to the receiver is restored, the receiver will automatically return to a normal operating mode. The pilot safety system will continue to operate normally during power failures.
- During a power failure, the appliance can be switched off completely by manually shutting off the gas supply to the appliance. This can be done by turning the knob on the gas control block to the Off position or by closing the gas tap for the appliance, in the gas supply line.
- If the power failure continues for a long time, the appliance can still be used by inserting batteries (4x AA batteries) into the receiver. The pilot and burners will then operate normally. The lighting, optional convection fan and optional WiFi module will not function.
 - Weak battery in receiver: If the battery of the receiver is almost empty, the fire will go out completely (pilot flame and burners).
 - Weak battery power of the receiver is indicated by short beeps with each motor movement (beep of 0.1 s; pause of 0.05 s).
 - Remove batteries when the power supply is restored, to prevent possible battery leakage in the future..

4.4 Change the settings

4.4.1 Set the temperature for the thermostatic mode

1. Push and hold the thermostatic mode button until the thermostatic mode symbol appears and the temperature flashes.
2. Use the up and down buttons to set the temperature.
3. Push the thermostatic mode button to store the temperature or wait until the temperature stops to flash.



4.4.2 Set the program mode settings

**Note:**

- The temperature for the starting time in the program mode is the same as the temperature that is set in the temperature mode.
- The set temperatures for the starting and stopping times of the appliance are the same for each day.
- When the batteries are removed from the remote control, the set temperatures, days and times are reset.

Default settings:

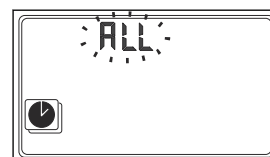
- Temperature when the appliance starts: 21 °C (70 °F).
- Temperature when the appliance stops: "--" (pilot light only).

1. Push and hold the program mode button until the program mode flashes and 'ON' and the set temperature appears.
2. Tap the program mode button to continue. The display of the remote control shows 'OFF' and the temperature flashes.
3. Use the up and down buttons to set the temperature for the stopping time of the appliance.
4. Push the program mode button to store the temperature and to continue.
5. Use the up and down buttons to set the day(s) the program is active.

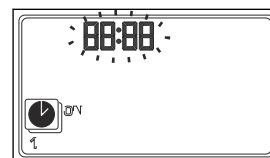


Note:

'ALL' (every day), 'SA:SU' (saturday and sunday), '1' (monday), '2' (tuesday), '3' (wednesday), '4' (thursday), '5' (friday), '6' (saturday) or '7' (sunday).



6. Push the program mode button to store the day.
7. Use the up and down buttons to select the hour on which the appliance starts up.
8. Push the program mode button to store the hour.
9. Select the minutes on which the appliance starts up and push the program mode button.
10. Select the hour and minutes for the stop time of the appliance.
11. If you do not want program 2 active in program mode, wait for the blinking to stop to save the settings.
12. If you want program 2 active, push the program mode button and set the on and off time for program 2.
13. Wait for the blinking to stop to save the settings.



4.4.3

Set the countdown timer mode



Note: The maximum period of time you can set for this mode is 9 hours and 50 minutes.

1. Push and hold the countdown timer button until the display shows the countdown timer symbol and the hour flashes.
2. Use the up and down buttons to select the number of hour.
3. Push the countdown timer button to store the hour. The minutes flash on the display.
4. Use the up and down buttons to select the number of minutes.
5. Push the countdown timer button to store the minutes.
6. Push the countdown timer button to confirm the countdown or wait.



5 Maintenance

5.1 Maintenance schedule

**Caution:**

Clean the glass when it is dirty. If the glass is not cleaned when it is dirty the glass can become permanently dull.

Task	Frequency	Procedure
Clean the appliance	Daily	Refer to section 5.2
Maintenance by your fitter	Yearly	Refer to your fitter/dealer

5.2 Clean the appliance

**Note:**

- Use gloves to avoid visible fingerprints on the glass.
- If you use a vacuum lifter to remove the glass, make sure that the suction pads are clean and dry. If the suction pads are not clean or dry, the suction pads can leave a mark.

1. Make sure that the appliance is off and is cooled down.
2. Remove any dust from the operating unit. Use a vacuum cleaner.
3. Do a check on the glass for damage. If you see damage, replace the glass. Do not use the appliance before the glass is replaced. For disposal of the glass, refer to [7](#).
4. Clean the glass.
 - a) If the inner side is dirty, remove the glass. Refer to the Installation and maintenance manual.
 - b) Clean the glass, refer to [5.3](#).
 - c) Install the glass. Refer to the Installation and maintenance manual.

5.3 Clean the glass

1. Clean the glass with a soft cloth, a sponge or paper. Use glass cleaner or ceramic hob cleaner.
2. Make sure that the glass is dry. Water droplets can leave a mark on the glass.

6 Troubleshooting

6.1 Troubleshooting table

Problem	Possible cause	Possible solution
The pilot light does not come on after three attempts.		- Close the gas supply - Contact your fitter.
The burner does not operate within 10 seconds of firing the pilot light.		
When the burner starts you hear a 'boom' sound.		
You hear a loud noise when the overpressure door opens.		
You hear a continuous beep for five seconds.	One of the cables is disconnected.	Contact to your fitter.
The appliance does not start.	The gas supply is off.	Open the gas supply.
The battery status of the remote control is empty	The batteries of the remote control are empty.	Replace the batteries of the remote control. Refer to section 6.2.1 .
The appliance does not respond to the remote control.	The batteries of the remote control are empty.	
	The system has a failure.	On the receiver, push the reset button.
	There is no power supply (230 VAC).	Repair the power supply.
The appliance regularly stops for no reason.		Contact your fitter.
The glass is broken or cracked		Replace the glass. For disposal of the glass refer to 6.2.1 .
The lacquer of the appliance is damaged		Contact your fitter.

6.2 Troubleshooting procedures

6.2.1 Replace the batteries of the remote control



Caution:

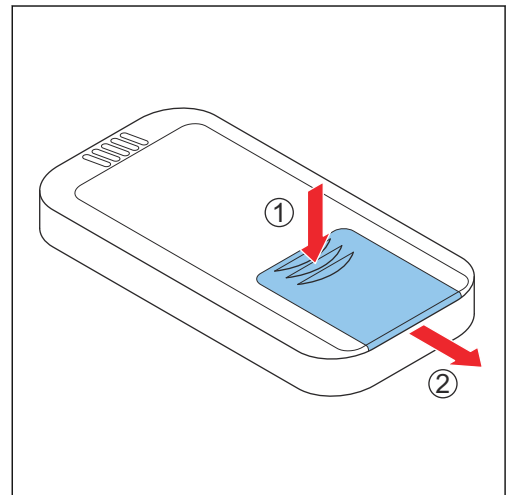
- Only replace the batteries when the appliance is off.
- If you put the batteries in an incorrect position, this can cause damage to the electrical connections.
- Do not use rechargeable batteries.



Note:

We recommend the use of alkaline batteries.

1. Remove the cover of the remote control.
2. Remove all batteries.
3. Install new batteries. For approved batteries, refer to section [8](#).
4. Close the cover of the remote control.



7 Information on disposal of the appliance

- Dispose of an obsolete appliance according to instructions of the authorities or the installer.
- The information in this section is informative. Always obey the national and local regulations on recycling and disposal of the appliance or parts of the appliance.
- Make sure that the gas and electricity connections are disconnected, before disassembly and disposal of the appliance.

Table 6: Recycling/disposal of the appliance components

Appliance component	Material	Disassembly	Recycling / Disposal
Appliance body	Steel	Make sure to remove all components other than metal	Dispose as metal waste
Appliance door frame	Steel	Make sure to remove all components other than metal	Dispose as metal waste
Combustion chamber walls	Steel	Remove from appliance	Dispose as metal waste
Burners and pilot burner	Stainless steel	Remove from appliance	Dispose as metal waste
Burner tiles (if present)	Ceramic	Remove from burner	Dispose as rest waste or ceramic waste
Injectors	Brass	Remove from appliance	Dispose as metal waste
Thermocouple	Copper	Remove from appliance	Dispose as metal waste
Pilot burner tube	Aluminium	Remove from appliance	Dispose as metal waste
Gas control	Aluminium / Plastics / Electronics	Make sure to remove all components other than metal	Dispose as metal waste
Receiver - Remote control	Electronics	Remove from appliance	Dispose as electronic waste
Light-Fan module	Electronics	Remove from appliance	Dispose as electronic waste
Electricity cables	Silicone / Plastics / copper	Remove from appliance	Dispose as electronic waste
Glass	Ceramic glass	Remove glass holder with suitable tools. Remove gaskets and cord from the glass	Dispose as rest waste or ceramic waste. Do not dispose as glass waste.
Gaskets	Glass fibre cord or plates	Remove from appliance and components	Dispose as glass fibre. (non-combustible waste)
Light bulbs	Glass / steel	Remove from appliance	Dispose as glass waste
Log set / Coal set / Ember grates / Embers	Ceramic	Remove from appliance	Dispose as rest waste or ceramic waste. Do not dispose as glass waste.
Fire glass	Heat resistant glass	Remove from appliance	Dispose as rest waste

Table 7: Recycling/disposal of the optional appliance components

Optional appliance component	Material	Disassembly	Recycling / Disposal
Combustion chamber walls	Black ceramic glass	Remove from appliance	Dispose as rest waste or ceramic waste. Do not dispose as glass waste.
Fire screen	Stainless steel	Remove from appliance	Dispose as metal waste
Opti-Vent system components	Electronics	Remove from appliance	Dispose as electronic waste
Concentric flue system components	Stainless steel	Remove from appliance	Dispose as metal waste

8 Technical data

8.1 Technical specification / Product fiche

Table 8: Box Gas 45 MF (MagniFire) - GB, IE, ES, IT

	Natural gas	Butane/ Propane
Name	Barbas	Barbas
Model	Box Gas 45 MF	Box Gas 45 MF
Country	GB, IE, ES, IT	GB, IE, ES, IT
Product Identification Number (PIN)	0063 DL 3986	0063 DL 3986
Indirect heating functionality	No	No
Type of appliance under CE-norm	C ₁₁ / C ₃₁ / C ₉₁	C ₁₁ / C ₃₁ / C ₉₁
Category of appliance	I _{2H} natural gas G20	I _{3B/P} butane/propane G30/G31

Efficiency, heat output & NO _x values at <u>longest</u> permitted horizontal flue configuration	Natural gas	Butane/ Propane
Energy efficiency class	A	A
Energy efficiency index (EEI)	88	88
Nominal heat input (Gross calorific value)	5.5 kW	Butane (G30) : 5.8 kW Propane (G31) : 4.8 kW
Nominal heat output	4.4 kW	Butane (G30) : 4.7 kW Propane (G31) : 3.9 kW
Minimum heat output (indicative)	1.9 kW	Butane (G30) : 1.8 kW Propane (G31) : 1.4 kW
Useful efficiency (Net Calorific Value (NCV)) at nominal heat output	90.3 %	90.9 %
Useful efficiency (Net Calorific Value (NCV)) at minimum heat output (indicative)	85.3 %	85.9 %
NO _x (max.) (Gross Calorific Value (GCV))	<120 mg/kWh _{input}	<120 mg/kWh _{input}
NO _x class	4	4
Maximum concentric horizontal flue length Ø100/150mm	1m vertical + 90° + 7m horizontal + 0,6m wall terminal	1m vertical + 90° + 7m horizontal + 0,6m wall terminal
Concentric flue restriction	No baffle plate and no restriction plate mounted in the appliance.	No baffle plate and no restriction plate mounted in the appliance.

Efficiency, heat output & NO _x values at <u>shortest</u> permitted flue configuration	Natural gas	Butane/ Propane
Energy efficiency class	C	C
Energy efficiency index (EEL)	77	77
Nominal heat input (Gross calorific value)	5.5 kW	Butane (G30) : 5.8 kW Propane (G31) : 4.8 kW
Nominal heat output	3.9 kW	Butane (G30) : 4.2 kW Propane (G31) : 3.5 kW
Minimum heat output (indicative)	1.7 kW	Butane (G30) : 1.6 kW Propane (G31) : 1.3 kW
Useful efficiency (Net Calorific Value (NCV)) at nominal heat output	79.4 %	79.9 %
Useful efficiency (Net Calorific Value (NCV)) at minimum heat output (indicative)	74.4 %	74.9 %
NO _x (max.) (Gross Calorific Value (GCV))	<120 mg/kWh _{input}	<120 mg/kWh _{input}
NO _x class	4	4
Minimum concentric flue length Ø100/150mm	1m vertical + 90° + 0,6m wall terminal	1m vertical + 90° + 0,6m wall terminal
Concentric flue restriction	Baffle plate and restriction plate 50mm mounted in the appliance.	Baffle plate and restriction plate 50mm mounted in the appliance.

	Natural gas	Butane/ Propane
Gas rate (max.)	0.52 m ³ /hr.	Butane (G30) : 440 gr/hr. Propane (G31) : 360 gr/hr.
Supply pressure	20.0 mbar	Butane (G30) : 37.0 mbar Propane (G31) : 37.0 mbar
Batteries remote control receiver	None	None
Batteries remote control hand transmitter	2x 1.5V AAA	2x 1.5V AAA
Electrical connection	230 VAC / 50 Hz	230 VAC / 50 Hz
Auxiliary electricity consumption at nominal heat output	0.05 kW	0.05 kW
Auxiliary electricity consumption at minimum heat output	0 kW	0 kW
Auxiliary electricity consumption in standby mode	0 kW	0 kW
The specific precautions that shall be taken when the local space heater is assembled, installed or maintained, are listed in the attached documents:	• Preparation manual • Installation and maintenance manual • User manual • Assembly instructions for concentric flue system	• Preparation manual • Installation and maintenance manual • User manual • Assembly instructions for concentric flue system

The heat exchanging surface is the entire appliance.

Type of room temperature control : electronic room temperature control plus week timer.

9 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 it 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.
 Hallenstraat 175531 AB Bladel
 The Netherlands
 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.

10 EU-Declaration of Conformity



EU-Declaration of Conformity

We

Manufacturer	Barbas Bellfires
Address	Hallenstraat 17 5531 AB Bladel; The Netherlands
Phone	+ 31 497 339 200
email	info@barbasbellfires.com

declare that this declaration of conformity is issued under our sole responsibility and belongs to the product below:

Product:	Independent gas-fired convection heater	
Type:	C ₁₁ /C ₁₂ */C ₃₁ /C ₃₂ */C ₉₁ /C ₉₂ *	* Only in combination with "Barbas Opti-Vent" system.
Product name:	Barbas	

Description of the product:		
Gas Fire Panorama 70-55 PF2	Gas Fire Panorama 90-55 PF2	Gas Fire Panorama 110-55 PF2
Gas Fire Panorama 70-70 PF2	Gas Fire Panorama 90-70 PF2	Gas Fire Panorama 110-70 PF2
Gas Fire Panorama 80-50 PF2	Gas Fire Panorama 100-50 PF2	Gas Fire Panorama 120-50 PF2
Gas Fire Panorama 110-40 MF	Gas Fire Panorama 140-40 MF	
Gas Fire Front 70-60 PF2	Gas Fire Front 90-60 PF2	Gas Fire Front 110-60 PF2
Gas Fire Front 70-75 PF2	Gas Fire Front 90-75 PF2	Gas Fire Front 110-75 PF2
Gas Fire Front 80-55 PF2	Gas Fire Front 100-55 PF2	Gas Fire Front 120-55 PF2
Gas Fire Front 110-45 MF	Gas Fire Front 130-45 MF	
Box Gas 45 MF	Gas Fire Smart 45-60 MF	Gas Fire Smart 75-70 PF
Box Gas 55 MF	Gas Fire Smart 55-55 MF	Gas Fire Smart 75-80 PF
Box Gas 65 MF	Gas Fire Smart 55-60 MF	Gas Fire Smart 80-70 PF
Box Gas 75 MF	Gas Fire Smart 65-55 MF	Gas Fire Smart 80-80 PF
Box Gas 80 MF	Gas Fire Smart 65-60 MF	Gas Fire Smart 90-70 PF
	Gas Fire Smart 75-55 MF	Gas Fire Smart 90-80 PF
	Gas Fire Smart 75-60 MF	
	Gas Fire Smart 80-60 MF	
Box Gas Panorama 45-45 MF	Gas Fire Smart Panorama 45-45 MF	
Box Gas Panorama 45-59 MF	Gas Fire Smart Panorama 45-59 MF	
Box Gas Panorama 73-52 MF	Gas Fire Smart Panorama 73-52 MF	

The object of this declaration is in conformity with the relevant Union harmonisation legislation:
Regulation (EU) 2015/1188
Regulation (EU) 2016/426
Regulation (EU) 2024/1103

Used relevant harmonised standards or other technical specifications in relation to which conformity is declared:
EN 613:2021

The notified body:			
Kiwa Nederland BV			
P.O. Box 137			
NL-7300 AC Apeldoorn			
performed a product verification and issued on	July 1 , 2025	certificate no:	20GR0534/06

Signed for and on behalf of:
Danny Baijens, managing director
(name and function)
Bladel; July 1, 2025
(place and date of issue)


(signature)

barbas .

Your Barbas dealer