

# Manual Burner

## Installation & User Manual



# User's Manual



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## Why Register Your Warranty?

Registering your warranty goes beyond just activating it; it allows our head office to communicate crucial safety and regulatory information to you when necessary.

This includes:

- Timely notification in the unlikely event of a potential hazard
- Updates on fuel storage regulations, supply channels, or exclusive offers
- Reminders about regular safety procedures and maintenance
- Announcements of new models or accessories that complement or enhance your purchase.

If you purchased your product through an external distributor, retailer, or agent, please note that we may not have these details on file. We encourage you to register your warranty today online at <https://thebioflame.com/pages/warranty>

## Considerations:

- Failure to properly install the burner will void the warranty and render the product unapproved for use with the included burner.
- Installation costs will not be reimbursed as damages for any reason whatsoever.
- The Bio Flame will not be held responsible for any incidental or consequential defects on goods or individuals.
- The warranty will not apply if devices have been subjected to abnormal use or if they are used under conditions other than the intended ones.
- The warranty will not apply in case of deterioration or accident due to negligence or damage caused by failing to maintain and service the device or resulting from an alteration of material.

# Certifications



All Bio Flame burners are **CE-certified**, signifying compliance with international safety standards.

Our products are tested and certified in accordance with **EN 16647**, ensuring they meet safety, material quality, and production standards for bioethanol fireplaces.

Additionally, Bio Flame is in the process of obtaining **OMNI-Test Laboratories Inc. (OTL)** certification in accordance with **UL 1370**, reinforcing our commitment to meeting the highest industry safety standards.

Bioethanol fireplaces are classified by regulations and standards as decorative fireplace appliances intended for occasional use only (not for heating).



## Explosion or Fire Hazard

- a. We recommend using The Bio Flame's Bioethanol Fuel for optimal function. Under no circumstances should gasoline be used.
- b. Store fuel only in the original container. Keep it away from the area where the appliance is located.
- c. Before refueling, make sure the fuel chamber is completely empty and cooled down.
- d. Immediately wipe up any spills with a dry cloth, followed by a cloth dampened with water. Allow the area to dry completely before relighting the Burner.
- e. Do not operate the appliance in a room where oxygen tanks are in use or if flammable vapors are present.
- f. This appliance is designed for decorative purposes only and is not suitable for continuous operation. Do not use the appliance to heat or boil water, or as a cooking appliance. Additionally, refrain from placing wood, charcoal, paper, or other combustible objects in the Fire.
- g. Do not attempt to move or relocate the appliance while it is in use.

## Fueling The Burner

- a. The Bio Flame's Bioethanol Fuel and any other recommended fuel are flammable liquids; therefore, they should be stored in the original container, away from heat and sources of ignition.
- b. The Bio Flame is not liable for any damage caused by using any other type of fuel other than the recommended ones.

## Operating The Burner

- a. Do not use the appliance if it is damaged or malfunctioning.
- b. Only use the lighting rod and lighter provided with your appliance to ignite the fireplace. Using matches or other lighters could result in serious injury.
- c. Remove the Burner frequently to check for residual fuel underneath. Fuel accumulation underneath could cause an explosion.
- d. Never leave a fire unattended.
- e. The appliance must be fully assembled before operation. Failure to install will void the warranty and render the product unapproved for use with the included burner.
- f. For manual Burners, the lid on the Burners will become very hot during operation and will remain hot for up to 60 minutes after use. To avoid injury, refrain from touching it with any parts of your body or with any combustible materials such as matches or flammable liquids. Always use the lighting rod provided with your appliance to open or close the lid.

## Burner Accessories

- a. Only use authorized accessories and tools with your appliance. Accessories and tools supplied by The Bio Flame are strongly recommended. Light the appliance only with the lighting rod and lighter provided.
- b. To reduce the risk of fire or injury, do not modify the appliance in any way.
- c. Pebbles or other refractory decorative fire accessories should not be placed directly over the Burner's mouth or interfere with the flame.



## Use of The Bio Flame's Bioethanol Fuel:

The Bio Flame's Bioethanol Fuel is the fuel recommended to use with all The Bio Flame burners. As an alternative, you can also use e-NRG with your burner.





## Flammable:

It is imperative to familiarize yourself with and adhere to local regulations to safely store, handle, decant, and utilize The Bio Flame's Bioethanol Fuel.













Ethanol, the primary component of The Bio Flame's Bioethanol Fuel, poses a significant flammability risk if proper precautions to minimize the likelihood of ignition are not followed.

To order your The Bio Flame's Bioethanol Fuel, please go to our website [www.thebioflame.com](http://www.thebioflame.com)

Product		Included Accessories				
						
COLLECTION	TYPE OF BURNER	FUNNEL	LIGHTNING ROD	LIGHTER	INSTALLATION MANUAL	
Firebox Collection	Manual	1	1	1	1	
Wallmount Collection	Manual	1	1	1	1	
Buner Collection	Manual	1	1	1	1	
Free Standing Collection	Manual	1	1	1	1	
Grate Kit Collection	Manual	1	1	1	1	

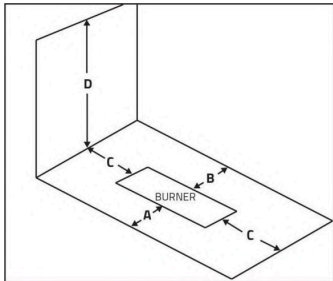
## All Burners Dimensions

	BURNER NAME	DIMENSIONS (INCHES)	DIMENSIONS (MM)
	5L Burner	4.18"× 11"×11"	106.2×280.5× 280.5
	13" Burner	1.96"× 13.39"×5.12"	49.8×340× 130
	13" Round Burner	4.1"× 13"×13"	104.2×330× 330
	16" Burner	3.16"× 16"×6.02"	80.2×406× 153
	24" Burner	4.5"× 24.15"×8.5"	114×613.5×216
	38" Burner	4.5"× 36.67"×8.5"	114×931.5×216
	48" Burner	4.5"× 48.94"×8.5"	114×1243×216
	60" Burner	4.54"× 60"×7.6"	115.2×1524×193
	72" Burner	4.5"× 72"×7.6"	114×1828.8×193
	84" Burner	4.5"× 84"×7.6"	114×2133.8×193



## Clearances

If you plan to install your Bio Flame burner in a firebox, please ensure to follow the following clearances:



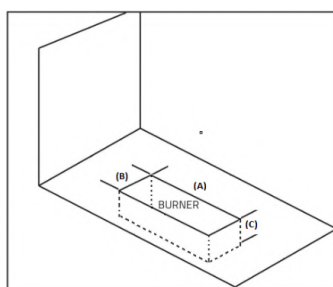
FRONT (A)	REAR (B)	SIDE (C)	OVERHEAD (D)	NEAREST COMBUSTIBLE RADIUS
4" [102 mm]	4" [102 mm]	4" [102 mm]	24" [610 mm]	24" [610 mm]

**NOTE:** The Bio Flame ethanol burners are designed to be ventless, requiring no chimneys or pipes due to their use of clean-burning bioethanol fuel.

When building custom-made fireboxes for Bio Flame burners, please ensure that:

- The firebox is made from non-combustible materials such as stone, cement sheet, and stainless steel.
- It is designed to accommodate a Top Tray.

See below for a list of cut dimensions for each burner:



MODEL	LENGTH	WIDTH	DEPTH
<b>13" Burner</b>	11.93" [303 mm]	4.25" [108 mm]	3.94" [100 mm]
<b>16" Burner</b>	14.88" [378 mm]	4.8" [122 mm]	6.06" [154 mm]
<b>24" Burner</b>	23.7" [602 mm]	8.13" [206.4 mm]	6.0" [150 mm]
<b>38" Burner</b>	36.3" [922 mm]	8.13" [206.4 mm]	6.0" [150 mm]
<b>48" Burner</b>	48.5" [1233.4 mm]	8.13" [206.4 mm]	6.0" [150 mm]
<b>60" Burner</b>	59.2" [1504.4 mm]	6.93" [176 mm]	6.0" [150 mm]
<b>72" Burner</b>	71.2" [1809.2 mm]	6.93" [176 mm]	6.0" [150 mm]
<b>84" Burner</b>	83.2" [2113.8 mm]	6.93" [176 mm]	6.0" [150 mm]

**IMPORTANT NOTE:** The Bio Flame recommends using the Burner exclusively in a firebox manufactured by The Bio Flame. The Bio Flame is not liable for any injuries or damage sustained through the use of custom-made or privately commissioned fireboxes. The Bio Flame ethanol burners are designed to be ventless, requiring no chimneys or pipes due to their use of clean-burning bioethanol fuel.

## Installation

There are various installation options available for the Burner. Regardless of the variation, the Burner must adhere to the following guidelines:

- It must be installed exclusively into non-combustible materials, such as stainless steel, concrete, brick, and natural stone.
- Installation should take place only after all gas connections or pipelines in the area are disconnected and secured by a qualified and licensed professional.
- The Burner should be securely fixed in position before filling, lighting, and operating. Moving the Burner poses a risk of accidental fuel spillage. If relocation is necessary, ensure no fuel spilled before ignition.
- Each range of models (Grate/Fireplace Inserts/Designer/Outdoor) has specific installation requirements outlined in the manual corresponding to the purchased model.
- It must be mounted on a level surface made of non-combustible materials.

**NOTE:** Ensure that the Bio Flame logo faces forward and is clearly readable from the front of the fireplace. This ensures proper alignment and optimal performance.

## Ideal Location

For optimal safety and performance, the best location for your Bio Flame burner is:

- In a spacious, open area at least 1500mm (59.1 inches) away from any combustible materials, such as curtains, wallpaper, or veneer.
- On a level floor, on a non-combustible material.
- Within a firebox constructed from non-combustible materials like steel, concrete, brick, or natural stone.

- Positioned to prevent the accumulation of weather debris or pooling of water.
- Not installed directly beside or near wallpaper, laminate, veneer, or any unsuitable surface (heat may affect the material). refer to the product specification of wallpaper, laminate, veneer, or glue for heat tolerances.

## Burner Efficiency & Ventilation

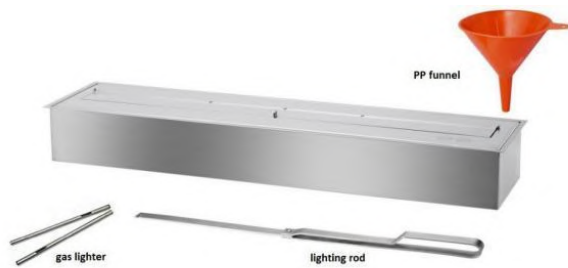
The Bio Flame Burners operate without the need for any permanent fixture or fitting, such as a flue for ventilation or a fixed utility for fuel supply. To ensure sufficient ventilation, please make sure to adhere to the Minimum Room Size per burner shown in the table below. These ventilation requirements must always be met.

The table below outlines the efficiency specifications for each burner. Please be aware that these values are indicative and may vary depending on the installation and the quality of the purchased fuel.

Product name	Fuel Capacity (L)	Burning Time (Hrs.)	Heat Output (BTU)	Heat Output (Kw/h)	Heats on average (room size)	Fuel Consumption	Min Room Size (per burner)
5L Burner	5	7.18	15475 BTU	4.536 Kw/h	50-60 m <sup>2</sup>	1.44 H/L	50 m <sup>2</sup>
13" Burner	0.7	1.5	10368 BTU	3.039 Kw/h	30-40 m <sup>2</sup>	2.14 H/L	30 m <sup>2</sup>
13" Round Burner	3	3.4	19607 BTU	5.747 Kw/h	60-70 m <sup>2</sup>	1.13 H/L	60 m <sup>2</sup>
16" Burner	2.5	2.8	19839 BTU	5.815 Kw/h	60-70 m <sup>2</sup>	1.12 H/L	60 m <sup>2</sup>
24" Burner	7	11	14141 BTU	4.145 Kw/h	40-50 m <sup>2</sup>	1.57 H/L	40 m <sup>2</sup>
38" Burner	11	11	22221 BTU	6.513 Kw/h	70-80 m <sup>2</sup>	1.00 H/L	70 m <sup>2</sup>
48" Burner	14.5	10.3	31286 BTU	9.17 Kw/h	90-110 m <sup>2</sup>	0.71 H/L	90 m <sup>2</sup>
60" Burner	18	10	40003 BTU	11.725 Kw/h	100-120 m <sup>2</sup>	0.56 H/L	100 m <sup>2</sup>
72" Burner	21.5	10	47778 BTU	14.004 Kw/h	130-150 m <sup>2</sup>	0.47 H/L	130 m <sup>2</sup>
84" Burner	28	10	62224 BTU	18.238 Kw/h	160-180 m <sup>2</sup>	0.36 H/L	160 m <sup>2</sup>

# Operating The Burner

## Filling The Burner



**NOTE:** Before first use, please remove the warning sticker to prevent damage or interference with operation.

1. Locate the filling point by opening the burner lid.
2. Carefully place the included plastic funnel inside the filling point. NEVER fill over the MAX level.
3. Remove the funnel and clean any fuel spills.



## Lighting the burner

**WARNING:** If you have multiple burners, turn off all burners and allow them to cool before refilling. Complete refueling all burners before lighting each one.

Before lighting, ensure the Burner is clear and ready for use. Fully open the lid and wait for 60 seconds for residual fumes to dissipate before lighting.

Check that the lid is unobstructed and operating smoothly.

Ensure nobody is in front of the fireplace during ignition. Use only the supplied lighter with your Bio Flame Burner.

1. Wet the end of the lighting rod tip by dipping it into the chamber opening.
2. Lift the lighting rod away from the Burner to avoid dripping fuel on the floor.
3. Ignite the lighter and make contact with the lighting rod as if lighting a candle.
4. Dip the ignited lighting rod back into the Burner zone to ignite the contained fuel.
5. Allow the residual flame on the lighting rod to burn out.

After ignition, there will be residual flame on the lighting rod that must burn out before stowing the rod away. If the flame on the lighting rod extinguishes before reaching the burner, repeat the procedure until successful.

## Turning Your Burner OFF

### Extinguishing the Flame

1. Allow the flame to burn until the fuel is completely consumed. The flame will extinguish when there is no fuel left.
2. Close the lid to extinguish the flame.

**WARNING:** Allow the burner to cool for at least 60 minutes before refueling.

## Re-igniting the Burner

### **WARNING!**

- NEVER LEAVE A FIRE UNATTENDED.
- ONLY USE BIOETHANOL FUEL RECOMMENDED BY THE BIO FLAME.
- IGNITION OF THE LIGHTING ROD SHOULD ONLY BE PERFORMED ABOVE AND BESIDE THE BURNER TO PREVENT FUEL FROM DRIPPING OUT OF THE FIREPLACE ONTO THE FLOOR.

- BIOETHANOL FLAMES CAN BE NEARLY INVISIBLE IN NORMAL DAYLIGHT OR WHEN FIRST LIT, WHICH CAN BE DANGEROUS IF NOT HANDLED PROPERLY. ASSUME THE BURNER IS LIT, EVEN IF THE FLAME IS NOT VISIBLE. FOLLOW THE PROCEDURE TO EXTINGUISH THE FLAME AND ALLOW THE UNIT TO COOL BEFORE REFUELING. NEVER REFUEL THE BURNER WHILE LIT OR HOT.
- Wait for 60 minutes before re-igniting the Burner. Ensure the Burner has reached room temperature. Please note that failure to observe this cooling period may result in pressurized ignition, leading to a stronger flame. Pressurized ignition can cause serious burns if you are near the Burner.

## Care & Maintenance

### Cleaning your Fireplace

One of the questions we often receive is how you clean your bioethanol fireplace and whether it is necessary to clean it.

#### **Do I Need to Clean My Bioethanol Fireplace?**

Yes, you should clean your bioethanol fireplace occasionally, if you wish to have a beautiful and well-functioning fireplace for many years to come. A bioethanol fireplace does not leave residue, which means that maintenance is much simpler when compared to a traditional fireplace.

#### **How to Clean My Bioethanol Fireplace?**

It is very simple to do and does not require much effort or time. First, make sure the burner is off, cold, and has no fuel in it.

- For the surface of the fireplace, use a soft, damp cloth.
- Please do not wipe the burning tray for black units, as it can turn red and is irremovable.
- For the burning chamber:
  - Stainless steel and black colors: Use a soft washing sponge. We recommend that you dip the sponge in some ethanol fuel and wipe it by following the stainless-steel lines.
  - Make sure not to touch the lightning rod when cleaning it as it is very fragile.

## Can I use anything to clean it?

No, please do not use harsh sponges when cleaning your bioethanol fireplace. Only a damp cloth or soft fabric for the surface (we recommend using a microfiber cloth) and a soft sponge for washing the burning chamber.

**DON'T use stainless steel wool.**

## How often should I clean it?

It depends on how much you use it and how clean and tidy is the area around it. We recommend cleaning your bioethanol fireplace at least monthly if using it regularly.

**IMPORTANT:** Please note that the burner may experience a heat-staining effect around the flame opening. This is a normal part of the heating process that cannot be avoided. Please do not use stainless steel cleaning agents, as these leave residue and may worsen the stain.

## Other Care Considerations:

Please consider the following when using your bioethanol fireplace.

## Is there a maximum of continued hours of use?

There is no limit to burning hours as long as you keep fuel in the tank.

## What type of fuel can I use?

Only bioethanol fuel - ensure the fuel is intended for indoor use with ethanol fireplaces. We recommend buying single-liter bottles of bioethanol fuel and using a funnel to avoid any spilling.

## Can I add water to the fuel?

We do not recommend diluting the fuel with water. The flame output will not be good as it will not reach the end of the burner. It also causes an accumulation of fuel in the burning chamber, which can be dangerous.

## What happens if I overfill the tank?

Please always fill the tank up to the MAX line. Overfilling can cause the unit to malfunction and make it difficult to extinguish the fire.

**IMPORTANT:** Always refuel when the fireplace is off and cold. Refueling a hot fireplace is a safety hazard and can cause accidents like a burst of flame when lighting the fire.