



MICROBIO ELECTRICAL BURNER



CE CERTIFICATION



The Microbio electrical burner is a heating device that replaces the Bunsen burner.

It allows you to create a sterile workspace where you can inoculate your culture media, sterilise your instruments, or for working with glass or heating containers.

PRODUCT DESCRIPTION & TECHNICAL SPECIFICATIONS

WEIGHT	2.580 KG
DIMENSIONS (mm)	110 (L) x 145 (D) x 130 (H)
POWER	550 W
POWER SUPPLY	230 V 50-60 Hz
RAPID FUSE PROTECTION	5 A
POWER ON INDICATOR	red
TEMPERATURE ADJUSTABLE	Up to 880 °C 750 °C surface temperature

Maximum use room temperature : 40°C
Protection from overheating

-----Accessories not provided-----

INSTRUCTIONS

ATTENTION: Always observe the safety instructions.

You are about to use a HIGH TEMPERATURE device.

TO MOVE THE APPLIANCE, USE THE TWO HANDLES PROVIDED ON EACH SIDE OF THE MICROBIO

- Place the appliance on a flat, stable surface.
- Connect the appliance to a 230 V earthed mains socket.
- Turn the switch with the **red** power indicator to the ON position.
The LED will light up. The device is now in operation.
- To switch off the appliance: turn the control knob back to O.
The **red** light will go out. The appliance is now completely switched off.
- The operational temperatures are only reached after a **preheating time** (2 minutes to obtain a sterile space and 6

minutes for glass processing and warping loops) and it is imperative to respect these times in order to carry out the different manipulations.

- **GLASSWORK : preheat for 6 minutes**
 - To **make a capillary**, place the tube in the centre of the appliance for 1 minute without moving it. Pull on one side of the tube without moving the melt zone.
 - To **bend a tube**, place it in the centre of the appliance for 1 minute without moving it. Twist gradually.
 - To **make a rake**, the pipette glass must be bent twice.
- **HEATING** : The hot air column replaces the flame so it is possible to **ignite a match** or a piece of charcoal placed 3 to 5 cm above the device.
 - A **test tube is heated** by using wooded tongs and sweeping the entire length of the tube over the hot air stream.
 - **Containers such as Erlenmeyer flasks or flasks** can be heated by attaching them to **our 601ST stand rod** (additional accessory). For multiple setups, 2 stands can be attached to the Microbio.
 - **Containers such as crystallisers or beakers** can be heated placing them on **our 403SI glassware holder**. **These containers must not be placed directly on the surface of the Microbio as this could damage the appliance**, which could stop the convection currents and lead to abnormal overheating of the apparatus and damage to the resistors.
- **MICROBIOLOGY** : preheat for 2 minutes
 - To **warp a platinum loop**, insert it in the centre of the resistance and leave to heat up for a few seconds until incandescence is observed.
 - The appliance produces a **sterile space all around it**, mainly in front and to the sides. The radius is 30 cm.

MAINTENANCE

The appliance does not require periodic maintenance. In the event of pollution, the following precautions should be taken when cleaning :

- The appliance must be switched off and disconnected from mains.
- Cleaning should only be carried out when the appliance is cold. No maintenance of the electrical part is required.

IN CASE OF FAILURE

If the **red** power light does not come on :

- a) Set the control knob to OFF.
- b) Disconnect from the mains.
- c) Turn the device over.
- d) Change the fuse.
5-amp quick-blow fuse with high breaking capacity (250 volts)

If the appliance still does not work, please contact us.

Please note that any use of the appliance that does not comply with the manufacturer's instructions may compromise the Microbio's safety.

----- 3 YEAR WARRANTY -----