

BEILOCKERY B0G18XGY9L

BEILOCKERY Laboratory Resistance Furnace 1100°C Instruction Manual

Model: B0G18XGY9L

1. IMPORTANT SAFETY INFORMATION

Read all instructions carefully before operating the furnace. Failure to follow safety guidelines can result in serious injury or damage to the equipment.

- **High Temperature Hazard:** This furnace operates at temperatures up to 1100°C (2012°F). Always wear appropriate personal protective equipment (PPE), including heat-resistant gloves and eye protection, when operating or near the furnace.
- **Electrical Hazard:** Ensure the furnace is connected to a properly grounded 110V power outlet with sufficient capacity (2000W, 18A). Do not operate with damaged cords or plugs. Disconnect power before any maintenance or inspection.
- **Ventilation:** Operate the furnace in a well-ventilated area to dissipate heat and any fumes produced by materials being processed.
- **Stability:** Place the furnace on a stable, level, non-combustible surface. The integrated rubber legs provide anti-slip stability.
- **Flammable Materials:** Keep flammable materials away from the furnace during operation and cool-down.
- **Safety Lock:** Utilize the safety door latch mechanism to ensure the door is securely closed during operation and to prevent accidental opening.
- **Children and Unauthorized Personnel:** Keep children and unauthorized personnel away from the furnace.

2. PRODUCT OVERVIEW AND FEATURES

The BEILOCKERY Laboratory Resistance Furnace is a compact, all-in-one benchtop muffle furnace designed for high-temperature applications in laboratories, dental practices, and jewelry making. It features precise temperature control and efficient heating capabilities.

Key Features:

- **Precise Temperature Control:** Equipped with an advanced digital control panel, allowing accurate setting and adjustment of furnace temperature up to 1100°C (2012°F).
- **Efficient Heating:** A powerful 2000W heating system ensures rapid temperature rise, reducing waiting times.
- **Safety Lock Design:** Features a safety door latch for secure operation and ergonomic handle for easy opening and closing.
- **Durable Construction:** The machine casing is made of thickened steel plate with electrostatic spraying technology for excellent thermal insulation and easy cleaning.
- **High-Temperature Furnace:** The internal furnace is constructed from heat-resistant materials, utilizing heating of aluminum alloy wire and a chromium-nickel temperature measuring element for uniform temperature distribution.
- **Radiator System:** Multiple vents are integrated to discharge excess heat, protecting internal components and maintaining optimal operating conditions.
- **Stable Base:** Four anti-slip, wear-resistant rubber support legs ensure machine stability and prevent water ingress.

Product Size



Rapid Heating



Precise Temperature Control



Sturdy and Durable

Figure 2.1: Front view of the BEILOCKERY Laboratory Resistance Furnace.

3. SPECIFICATIONS

Detailed technical specifications for the BEILOCKERY Laboratory Resistance Furnace.

Parameter	Value
Voltage	110V
Rated Power	2000W
Rated Current	18A
Maximum Temperature	1100°C (2012°F)
Internal Furnace Size (L*W*H)	4.7" x 4.7" x 4.7" (12cm x 12cm x 12cm)
Product Dimensions (L*W*H)	11.6" x 15.7" x 16.5" (29.5cm x 40cm x 42cm)
Net Weight	48.5 LB (22 KG)
Gross Weight	52.9 LB (24 KG)

Product Parameters

Voltage: 110V

Rated power: 2000W

Rated current: 18A

The highest temperature:

2012°F(1100 °C)

Furnace size: 4.7"*4.7"*4.7"

(12cm*12cm*12cm)

Package size: 17.3"*14.2"*18.1"

(44cm*36cm*46cm)

Net weight/Gross weight:

48.5LB(22KG) / 52.9LB(24KG)



Figure 3.1: Product dimensions and internal furnace size.

Product Details

Thickened Steel Plate



The machine casing is made of thickened steel plate, which has excellent thermal insulation performance. The surface adopts electrostatic spraying technology, which is beautiful and easy to clean

High Temperature Furnace




**Heating of
aluminum alloy wire**


**Chromium-nickel
temperature
measuring element**

The furnace is made of heat-resistant materials, which have the characteristics of strong thermal conductivity, more uniform temperature, and good processing effect

Figure 3.2: Key electrical and temperature parameters.

4. SETUP

1. **Unpacking:** Carefully remove the furnace from its packaging. Inspect for any shipping damage. Retain packaging for future transport if needed.
2. **Placement:** Choose a stable, level, heat-resistant, and non-combustible surface for the furnace. Ensure adequate clearance around the unit for ventilation (at least 6 inches from walls or other equipment). The area must be well-ventilated to prevent heat buildup and safely exhaust any fumes.
3. **Power Connection:** Connect the furnace's power cord to a grounded 110V AC outlet. Verify that the outlet can supply the required 2000W (18A) to prevent circuit overload.
4. **Initial Inspection:** Before first use, visually inspect the internal furnace chamber, heating elements, and thermocouple for any obstructions or damage. Ensure the safety door latch operates smoothly.



Figure 4.1: Rear view of the furnace, illustrating the power connection point.

5. OPERATING INSTRUCTIONS

1. **Power On:** Ensure the furnace is properly set up and connected to power. Flip the main power switch (usually red, located on the front panel) to the 'ON' position. The digital control panel will illuminate.
2. **Set Temperature:** Use the digital control panel to set your desired operating temperature. Refer to the controller's specific instructions for detailed programming, typically involving 'SET' buttons and arrow keys to adjust values. The furnace can reach up to 1100°C.
3. **Preheating (Optional):** For some applications, preheating the furnace to a lower temperature before loading materials may be beneficial.
4. **Loading Materials:** Wearing heat-resistant gloves, carefully open the furnace door using the handle. Place your materials inside the furnace chamber. Ensure materials are placed on appropriate heat-resistant crucibles or trays and do not obstruct the thermocouple or heating elements. Close the door securely, engaging the safety latch.
5. **Heating Cycle:** The furnace will begin heating to the set temperature. Monitor the digital display for current

temperature readings. The heating process is efficient, reaching target temperatures quickly.

6. **Monitoring:** Periodically monitor the furnace during operation. Do not leave the furnace unattended for extended periods, especially during initial runs.
7. **Cool-Down and Unloading:** Once the heating cycle is complete, turn off the main power switch. Allow the furnace to cool down significantly before opening the door. Opening the door at very high temperatures can cause thermal shock to the heating elements and expose the operator to extreme heat. Once cooled to a safe handling temperature, wearing heat-resistant gloves, carefully open the door and remove your processed materials.

Product Details

Safety Door Latch



The handle design is easy to open and close the door, and the safety lock increases the operator's safety

Rubber Leg



The four rubber support legs at the bottom of the machine are anti slip, wear-resistant, and silent. Ensure the stability of the machine and prevent water from entering the bottom of the machine

Figure 5.1: Close-up of the intelligent temperature control panel and radiator system.



Figure 5.2: Details of the safety door latch mechanism and stable rubber legs.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your furnace. Always disconnect the furnace from the power supply before performing any maintenance.

- **Exterior Cleaning:** Clean the exterior casing with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the electrostatic spray coating.
- **Interior Cleaning:** After the furnace has completely cooled, carefully remove any debris or residue from the furnace chamber. Use a soft brush or vacuum. Avoid damaging the heating elements or insulation.
- **Heating Element Inspection:** Periodically inspect the aluminum alloy heating wires for signs of damage, corrosion, or breakage. If damage is observed, contact customer support for replacement parts.
- **Thermocouple Check:** Ensure the chromium-nickel temperature measuring element (thermocouple) is intact and properly positioned. A damaged or misplaced thermocouple can lead to inaccurate temperature readings.
- **Fuse Replacement:** The furnace includes two spare fuses. If the furnace fails to power on or experiences electrical

issues, check the fuse located near the power inlet. Replace with a fuse of the same rating if blown.

- **Ventilation Ports:** Ensure the radiator system's vents are clear of dust and obstructions to maintain proper heat dissipation.

Product Details

Intelligent Temperature Control Panel



 **Precise temperature control system**

 **Heats to 2012 degrees F (1100 C)**

Radiator System



Intelligent control panel, full graphic display, multiple indicators for convenient and accurate control of time and temperature

There are a large number of vents on the machine, which can timely discharge the excess heat generated by the machine, prevent the temperature from being too high, and protect the machine

Figure 6.1: Internal construction showing heating elements and insulation layers.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Furnace does not power on.	No power to outlet, power switch off, blown fuse.	Check power outlet, ensure power switch is ON. Inspect and replace fuse if blown (refer to Section 6).

Problem	Possible Cause	Solution
Furnace not heating to set temperature.	Incorrect temperature setting, damaged heating element, faulty thermocouple.	Verify temperature setting on the digital control panel. Inspect heating elements and thermocouple (refer to Section 6). Contact customer support if components are damaged.
Temperature reading is inaccurate.	Faulty or misplaced thermocouple.	Check thermocouple position and condition. If damaged, contact customer support.
Excessive smoke or odor during operation.	Contamination inside the furnace, material off-gassing.	Ensure furnace is clean before use. Operate in a well-ventilated area. If persistent, discontinue use and inspect.

8. WARRANTY AND SUPPORT

This product typically comes with a 30-day return policy. For technical assistance, warranty claims, or to order replacement parts, please contact BEILOCKERY customer support through your purchase platform or the provided contact information at the time of purchase. Please have your model number (B0G18XGY9L) and purchase date ready when contacting support.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

