

VEVOR ZMRJL-1500

VEVOR Electric Kiln ZMRJL-1500 Instruction Manual

Model: ZMRJL-1500

1. IMPORTANT SAFETY INSTRUCTIONS

Read all instructions carefully before operating the VEVOR Electric Kiln ZMRJL-1500. Failure to follow these safety guidelines may result in electric shock, fire, or serious injury.

- **Personal Protective Equipment:** Always wear heat-resistant gloves, eye protection, and appropriate protective clothing when operating or handling the kiln and its contents.
- **Ventilation:** Operate the kiln in a well-ventilated area to dissipate heat and fumes.
- **Hot Surfaces:** The kiln reaches extremely high temperatures. Do not touch any part of the kiln during operation or while it is cooling. Allow sufficient time for the unit to cool completely before handling.
- **Flammable Materials:** Keep all flammable materials, liquids, and gases away from the kiln.
- **Power Supply:** Ensure the kiln is connected to a grounded power outlet with the correct voltage and current rating. Do not use extension cords unless absolutely necessary and ensure they are rated for the kiln's power requirements.
- **Supervision:** Never leave the kiln unattended during operation.
- **Unplug When Not in Use:** Disconnect the power cord from the outlet when the kiln is not in use or before performing any maintenance or cleaning.
- **Children and Pets:** Keep children and pets away from the kiln at all times.
- **Material Compatibility:** Only use materials suitable for high-temperature firing within the kiln. Refer to material specifications for maximum temperature limits.

2. PRODUCT OVERVIEW

The VEVOR Electric Kiln ZMRJL-1500 is a desktop melting furnace designed for various heat treatment applications. It features precise temperature control, intelligent operation, and a robust stainless steel construction.



Figure 2.1: Front view of the VEVOR Electric Kiln ZMRJL-1500.

Key Features:

- **High Power:** 1500W heating element for efficient heating.
- **Maximum Temperature:** Reaches up to 2192°F (1200°C).
- **Precise Temperature Control:** PID digital control system for accurate temperature monitoring and adjustment.
- **Enlarged Internal Chamber:** Designed for uniform heat distribution.
- **Efficient Cooling System:** Features cooling vents and small top holes for rapid heat dissipation and wax discharge.
- **Durable Construction:** Made from 201 stainless steel for high structural strength and corrosion resistance.



Figure 2.2: The kiln is suitable for wax casting, metal clay DIY, glazing on pottery, and metal annealing.

3. COMPONENTS AND ACCESSORIES

The VEVOR Electric Kiln ZMRJL-1500 package includes the following items:

- 1 x Desktop Melting Furnace Main Unit
- 1 x Power Cord
- 2 x Heat-resistant Gloves
- 1 x Crucible Tongs
- 1 x User Manual (this document)



Figure 3.1: The VEVOR Electric Kiln ZMRJL-1500 shown with its included heat-resistant gloves and crucible tongs.

4. SETUP

4.1 Unpacking

1. Carefully remove all components from the packaging.
2. Inspect the kiln and accessories for any signs of damage during transit. If any damage is found, do not operate the unit and contact VEVOR support.
3. Retain packaging materials for future storage or transport.

4.2 Placement

- Place the kiln on a stable, level, and heat-resistant surface.
- Ensure there is adequate clearance (at least 12 inches or 30 cm) around all sides of the kiln for proper ventilation and heat dissipation.
- Locate the kiln in a well-ventilated area, away from flammable materials, liquids, and gases.

4.3 Power Connection

- Ensure the kiln's power switch is in the 'OFF' position.
- Connect the power cord securely to the kiln's power inlet.
- Plug the power cord into a grounded electrical outlet that matches the kiln's voltage and current requirements.

5. OPERATING INSTRUCTIONS

This section details the steps for operating your VEVOR Electric Kiln ZMRJL-1500.



Figure 5.1: The control panel features a digital display for actual and set temperatures, and adjustment buttons.

5.1 Powering On and Setting Temperature

1. Ensure the kiln is properly set up and connected to power.
2. Flip the main power switch (usually red) to the 'ON' position. The digital display will illuminate.
3. The display shows the **Actual Temperature** (top row) and the **Set Temperature Value** (bottom row).
4. To adjust the target temperature, use the 'Set Temperature' buttons (up/down arrows) on the control panel. Press the 'Set' button to confirm your selection.
5. The kiln will begin heating to the set temperature. The heating process to reach maximum temperature (1200°C /

2192°F) typically takes 34-38 minutes from room temperature.

5.2 Loading Materials

- Before heating, carefully place the material to be treated inside the kiln chamber using the provided crucible tongs. Ensure the material is centered and does not touch the heating elements directly.
- Close the kiln door securely.



Figure 5.2: The kiln with its door open, revealing the internal chamber where materials are placed for heating.

5.3 Monitoring and Cooling Down

- Monitor the actual temperature on the digital display during operation.
- Once the desired treatment time is complete, turn the main power switch to 'OFF'.
- Allow the kiln to cool down naturally with the door closed or slightly ajar (if safe for your application and environment) to prevent thermal shock to the materials and the kiln itself.
- Once the temperature has dropped to a safe handling level, use the heat-resistant gloves and crucible tongs to carefully remove the treated materials.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your VEVOR Electric Kiln.

6.1 Cleaning

- Always ensure the kiln is unplugged and completely cool before cleaning.
- **Exterior:** Wipe the exterior stainless steel surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Interior:** Carefully remove any debris or residue from the interior chamber using a soft brush or vacuum cleaner. Avoid damaging the heating elements or insulation.

6.2 Inspection

- Periodically inspect the heating elements for any signs of damage, cracks, or wear.
- Check the power cord for fraying or damage. Replace if necessary.
- Ensure the kiln door closes securely and the latch mechanism is functioning correctly.

6.3 Storage

- Store the kiln in a dry, dust-free environment when not in use.
- If storing for an extended period, consider covering the kiln to protect it from dust and moisture.

HEAT DISSIPATION STRUCTURE

Rapid heat dissipation for enhanced safety



Fast Heat Dissipation

Stable Operation

Longer Service Life

Figure 6.1: The kiln's heat dissipation structure with cooling vents on the body and small holes on top for efficient heat management.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your VEVOR Electric Kiln.

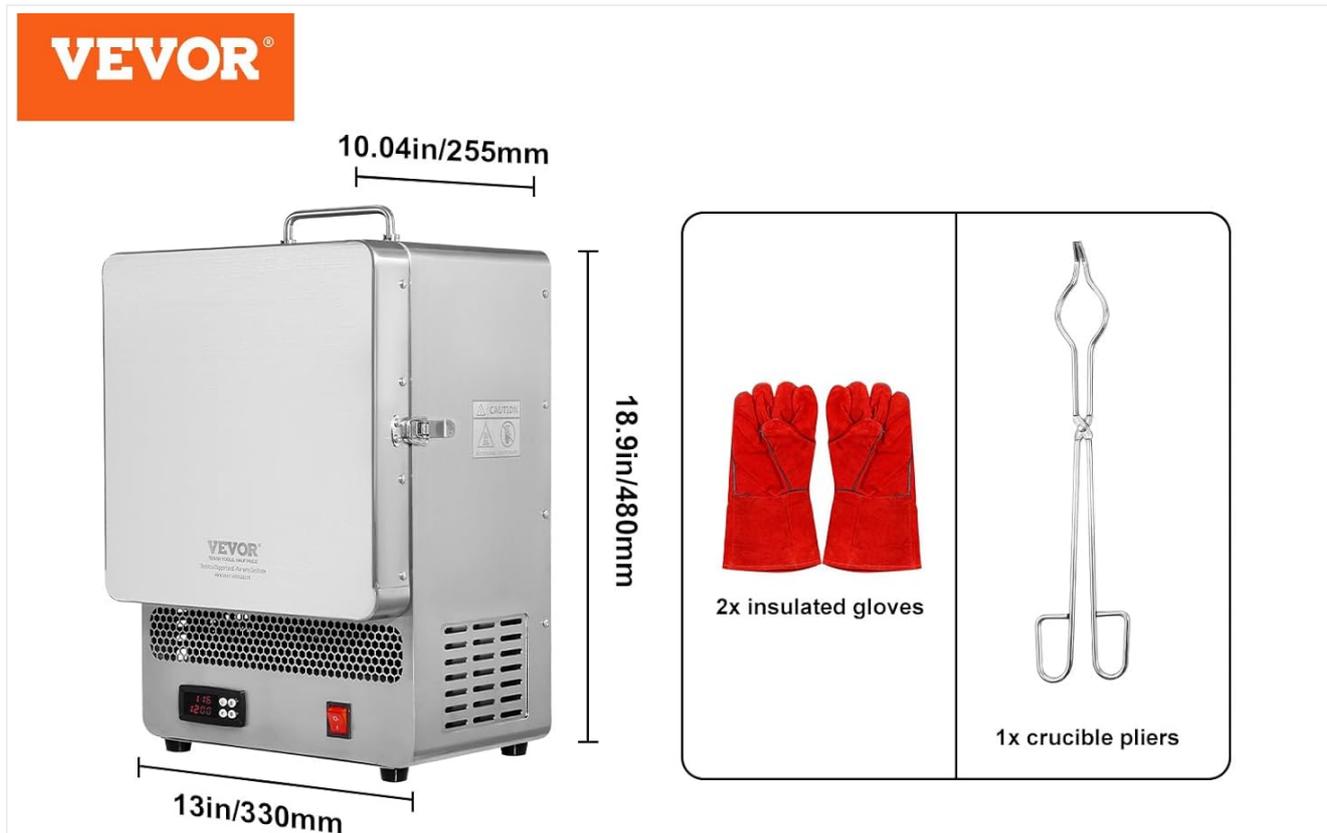
Problem	Possible Cause	Solution
Kiln does not power on.	No power supply; Power switch off; Faulty power cord.	Check power outlet; Ensure power switch is ON; Inspect and replace power cord if damaged.
Kiln not heating to set temperature.	Incorrect temperature setting; Damaged heating element; Faulty temperature sensor.	Verify set temperature; Contact VEVOR support for element/sensor inspection.
Temperature display is inaccurate.	Faulty temperature sensor; External interference.	Ensure proper sensor connection; Contact VEVOR support for calibration or replacement.

Problem	Possible Cause	Solution
Excessive smoke or odor during operation.	Contaminants inside kiln; Material not suitable for firing.	Ensure kiln is clean before use; Only use appropriate materials; Ensure adequate ventilation. Immediately power off if smoke is excessive or unusual.

For issues not listed above or if troubleshooting steps do not resolve the problem, please contact VEVOR customer support.

8. SPECIFICATIONS

Technical specifications for the VEVOR Electric Kiln ZMRJL-1500.



Item Model Number: **KD-Z6651**

Max Power: **1500W**

Max Furnace Temperature: **2192°F/1200°C**

Time to Reach Max Temp from Room Temp: **34-38 Minutes**

Furnace Inner Space: **6.10 x 6.10 x 5.51 inch / 155 x 155 x 140 mm**

Main Materials: **201 Stainless Steel + Quartz**

Product Weight: **38.58 lbs / 17.5 kg**

Product Dimensions: **13.0 x 10.04 x 18.90 inch / 330 x 255 x 480 mm**

Accessories:

1 x Desktop Melting Furnace Main Unit 1 x Power Cord

2 x Heat-resistant Gloves 1 x Crucible Tongs 1 x User Manual

Figure 8.1: Detailed dimensions and key specifications of the VEVOR Electric Kiln ZMRJL-1500.

Feature	Specification
Model Number	ZMRJL-1500
Max Power	1500W
Max Furnace Temperature	2192°F / 1200°C
Time to Reach Max Temp (from Room Temp)	34-38 Minutes
Furnace Inner Space (L x W x H)	6.10 x 6.10 x 5.51 inches / 155 x 155 x 140 mm
Main Materials	201 Stainless Steel + Quartz
Product Weight	38.58 lbs / 17.5 kg
Product Dimensions (L x W x H)	13.0 x 10.04 x 18.90 inches / 330 x 255 x 480 mm
Manufacturer	VEVOR

9. WARRANTY AND SUPPORT

VEVOR products are designed for durability and performance. For warranty information, product support, or to report any issues, please visit the official VEVOR website or contact their customer service department.

VEVOR Official Website: www.vevor.com

Support Contact: Refer to the 'Contact Us' section on the VEVOR website for the most up-to-date support information.