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› Briidea 1500W Titanium Portable Immersion Water Heater (Model MK-201) User Manual

briidea MK-201

Briidea 1500W Titanium Portable Immersion Water Heater (Model MK-201) User Manual

Model: MK-201 | Brand: briidea

1. INTRODUCTION

Thank you for choosing the Briidea 1500W Titanium Portable Immersion Water Heater, Model MK-201. This device is designed for efficient and safe heating of various liquids, featuring a durable titanium build, an intelligent thermostat, and an easy-to-read LCD display. Please read this manual thoroughly before operation to ensure proper use and longevity of your heater.



Image 1.1: Overview of the Briidea 1500W Titanium Portable Immersion Water Heater, including the heating element, control unit, and power plug.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- **Full Immersion Required:** The heating element **must always be fully submerged** in the liquid during operation. Operating the heater out of water will cause overheating and damage.
- **Electrical Safety:** Ensure the power outlet matches the heater's voltage (120V AC). Do not use with damaged cords or plugs. The power cable is UL-certified for safety.
- **Leakage Protection:** The device includes built-in leakage protection. If the circuit breaker on the plug trips, do not attempt to reset it repeatedly without checking for faults.
- **Placement:** Position the heater securely to prevent it from falling or touching the bottom/sides of the container, which could cause localized overheating.

- **Children and Pets:** Keep the heater out of reach of children and pets. Never leave the heater unattended when in use.
- **Liquid Compatibility:** This heater is designed for various liquids, including saltwater, chemicals, and groundwater, due to its titanium construction. However, always ensure the liquid is non-flammable and non-corrosive to the external components (controller, cables).
- **Temperature Range:** Do not exceed the maximum operating temperature of 240°F (120°C).
- **Disconnection:** Always unplug the heater from the power source before handling, cleaning, or performing any maintenance.



Image 2.1: The power plug features Electric Leakage Protection and is UL Listed, enhancing user safety.

3. PRODUCT OVERVIEW AND COMPONENTS

The Briidea 1500W Immersion Water Heater consists of three main parts:

- **Titanium Heating Element:** The submersible rod responsible for heating the liquid. Its titanium construction provides excellent corrosion resistance.
- **Control Unit with LCD Display:** This unit houses the thermostat, temperature sensor input, and the digital display for setting and monitoring temperature.
- **Power Cord with GFCI Plug:** Connects the unit to the power source and includes a Ground Fault Circuit Interrupter (GFCI) for enhanced safety.



Titanium Fully Immersion Portable Water Heater

- ☑ Designed for Any Liquids
- ☑ High Temperature Resistance
- ☑ Anti-Rust & Corrosion
- ☑ Longer Service Life
- ☑ Controller Waterproof Design

Image 3.1: The titanium heating element, designed for full immersion and resistance to corrosion.



Image 3.2: The control unit features an LCD screen displaying set and current temperatures, a sensitive temperature sensor, and a memory function.

4. SETUP INSTRUCTIONS

1. **Unpack:** Carefully remove all components from the packaging. Inspect for any signs of damage.
2. **Placement:** Securely position the control unit on a dry, stable surface or mount it to a wall using appropriate fasteners (not included). Ensure it is easily accessible and away from direct water splashes.
3. **Immerse Heating Element:** Place the titanium heating element into the liquid to be heated. Ensure the entire metal part of the heater, including the temperature probe, is fully submerged. The black cap where the cord connects should remain above the water line.
4. **Connect Power:** Plug the GFCI power cord into a standard 120V AC electrical outlet. Press the 'RESET' button on the GFCI plug if necessary to ensure power is supplied.

Built-in Thermostat, Auto Shutoff, Save Your Time and Energy



Image 4.1: Proper installation of the heater in a liquid container, demonstrating full immersion of the heating element.

5. OPERATING INSTRUCTIONS

1. **Power On:** Once plugged in, the LCD display on the control unit will illuminate, showing the current liquid temperature and the last set temperature.
2. **Set Desired Temperature:** Use the '+' and '-' buttons on the control unit to adjust the target temperature. The temperature range is 32°F to 240°F (0°C to 120°C).
3. **Automatic Heating:** The heater will automatically begin heating the liquid if the current temperature is below the set temperature. The 'ON' indicator on the display will light up.
4. **Temperature Maintenance:** Once the desired temperature is reached, the heater will automatically turn off. It will restart if the liquid temperature drops below the set point, maintaining a consistent temperature.
5. **Memory Function:** The control unit retains the last set temperature even after a power interruption.



Image 5.1: Adjusting the target temperature on the control unit's LCD display.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your heater.

- **Cleaning the Heating Element:** Before cleaning, always unplug the heater and allow it to cool completely. Gently wipe the titanium heating element with a soft cloth to remove any mineral deposits or residue. Do not use abrasive cleaners or harsh chemicals.
- **Inspecting Cords and Plugs:** Periodically check the power cord and GFCI plug for any signs of damage, fraying, or discoloration. If damage is found, discontinue use immediately and contact customer support.
- **Storage:** When not in use, clean the heater, dry it thoroughly, and store it in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your Briidea heater, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Heater does not turn on / No display	No power; GFCI tripped; Damaged cord/plug.	Check power outlet. Press 'RESET' on GFCI plug. Inspect cord/plug for damage. If damaged, discontinue use.
Heater turns on but does not heat	Heating element not fully submerged; Set temperature is below current temperature; Internal fault.	Ensure heating element is fully submerged. Increase set temperature above current temperature. If problem persists, contact support.
GFCI plug trips repeatedly	Electrical fault; Water ingress; Overload.	Unplug immediately. Inspect heater for damage or water ingress. Do not use if damaged. Consult a qualified electrician if necessary.
Inaccurate temperature reading	Sensor obstruction; Sensor fault.	Ensure the temperature sensor is clean and fully immersed. If problem persists, contact support.

8. SPECIFICATIONS

Feature	Detail
Brand	briidea
Model Number	MK-201
Power	1500W
Material	Titanium (Heating Element)
Product Dimensions	1"W x 3"H (Control Unit: 4"W x 5.6"H, Heater Rod: 15.7"L)
Maximum Temperature	240°F (120°C)
Special Features	Titanium Build, Intelligent Thermostat, LCD Display, Leakage Protection
Mounting Type	Portable
Item Weight	3.82 pounds



Image 8.1: Dimensional specifications of the heater components.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact Briidea customer service directly. Keep your purchase receipt as proof of purchase.