Fockety 7L Digital Thermostatic Water Bath Heater (B0CM9MNYNK)

Fockety 7L Digital Thermostatic Laboratory Water Bath Heater User Manual

Model: B0CM9MNYNK

1. Introduction

Thank you for choosing the Fockety 7L Digital Thermostatic Laboratory Water Bath Heater. This device is designed for precise temperature control in various laboratory applications, including incubating samples or heating liquids at a constant temperature. It features a wide temperature range, dual digital display, and durable construction for reliable performance. This manual provides essential information for the safe and efficient operation of your water bath heater.

2. Safety Instructions

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in injury or damage to the equipment.

- Always place the water bath on a stable, level, and heat-resistant surface.
- Ensure adequate ventilation around the unit to prevent overheating.
- Do not operate the unit without sufficient water in the bath. Dry boiling can damage the heating element.
- Use distilled or deionized water to prevent mineral buildup and corrosion.
- Always disconnect the power cord before cleaning, moving, or performing any maintenance.
- Avoid direct contact with hot surfaces. The water bath and its contents will be hot during and after operation. Use appropriate personal protective equipment (PPE), such as heat-resistant gloves.
- Do not immerse the entire unit in water or other liquids.
- Keep the power cord away from hot surfaces and ensure it is not pinched or damaged.
- This appliance is for laboratory use only. Do not use it for household purposes.
- Keep out of reach of children and unauthorized personnel.

3. Product Overview

3.1 Components



Figure 1: Front view of the water bath heater, showing the main unit, control panel, and two lid openings.



Figure 2: The water bath with its lid removed, revealing the stainless steel inner chamber.



Figure 3: The water bath with the blue rubber rings removed from the lid, allowing for different sized containers.



Figure 4: Inside view of the water bath, showing the perforated plate protecting the heating element.

The Fockety water bath heater consists of the following main components:

- **Main Unit Casing:** Constructed from cold-rolled steel with baking paint for rust resistance.
- **Inner Chamber:** Made of high-quality stainless steel, smooth and easy to clean.
- **Control Panel:** Features a dual digital LED display for PV (Process Value/Current Temperature) and ST (Set Temperature), along with control buttons for temperature and timer settings.
- **Heating Element:** Steel and brass heating tube for uniform and rapid heating.
- **Lid with Selectable Openings:** The lid includes two openings with rubber rings, allowing accommodation of various sizes of measuring cups or flasks.
- **Power Switch:** Located on the side of the unit.
- **Power Inlet:** For connecting the power cord.
- **Drain Valve:** For convenient draining of water.

3.2 Features

- **Precise Temperature Control:** Equipped with an intelligent temperature controller and heating timer. Wide temperature range from ambient to 100°C with 0.1°C distinguishability.
- **Dual Digital Display:** Clear LED display shows both current (PV) and set (ST) temperatures, making monitoring easy.
- **Integrated Timer:** Built-in timer adjustable from 0 to 999 minutes for controlled heating durations.

- **Durable Construction:** Robust cold-rolled steel exterior with baking paint and a stainless steel inner chamber ensure longevity and ease of maintenance.
- **Versatile Application:** 7-liter capacity and 600W power, suitable for distillation, drying, concentration, boiling, and heating of chemical or biological products in various laboratory settings.

4. Setup

Follow these steps to set up your water bath heater:

1. **Unpacking:** Carefully remove the water bath heater and all accessories from the packaging. Inspect for any damage during transit.
2. **Placement:** Place the unit on a stable, level, and heat-resistant surface in a well-ventilated area. Ensure there is sufficient space around the unit for air circulation.
3. **Fill with Water:** Open the lid and fill the inner chamber with distilled or deionized water. Do not overfill; ensure the water level is below the top edge of the chamber, leaving enough space for displacement by samples.
4. **Lid Placement:** Place the lid back onto the water bath. Adjust the rubber rings in the openings as needed to accommodate your containers.
5. **Power Connection:** Connect the provided power cord to the power inlet on the unit and then plug it into a grounded 110V AC power outlet.

5. Operating Instructions

This section details how to operate your Fockety water bath heater.

1. **Power On:** Flip the main power switch (usually located on the side) to the 'ON' position. The digital display will illuminate.
2. **Setting Temperature (ST):**
   - Press the 'SET' button on the control panel. The 'ST' (Set Temperature) value will start flashing.
   - Use the 'Up' (▲) and 'Down' (▼) arrow buttons to adjust the desired temperature.
   - Press 'SET' again to confirm the temperature setting. The unit will begin heating to the set temperature.
3. **Setting Timer:**
   - Press the 'TIME' button. The timer value will start flashing.
   - Use the 'Up' (▲) and 'Down' (▼) arrow buttons to set the desired operating time in minutes (0-999 minutes). If set to '0', the unit will operate continuously.
   - Press 'TIME' again to confirm the timer setting. The timer will start counting down once the set temperature is reached.
4. **Monitoring Operation:** The 'PV' (Process Value) display shows the current water temperature, while 'ST' shows the set temperature. The 'OUT' indicator typically shows when the heating element is active.
5. **Placing Samples:** Once the water reaches the desired temperature, carefully place your samples (in appropriate containers) into the water bath through the openings.
6. **Power Off:** After use, remove your samples, then flip the main power switch to the 'OFF' position. Allow the unit to cool down before cleaning or draining.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your water bath heater.

- **Draining Water:** After each use or regularly, drain the water from the bath using the drain valve. This prevents stagnant water and potential algae growth.

- **Cleaning the Inner Chamber:** Clean the stainless steel inner chamber regularly with a mild detergent and a soft cloth or sponge. Rinse thoroughly with distilled water. Do not use abrasive cleaners or sharp objects that could scratch the surface.
- **External Cleaning:** Wipe the exterior of the unit with a damp cloth. Avoid getting water into the control panel or electrical components.
- **Descaling:** If using tap water or if mineral buildup (scale) occurs, descale the inner chamber periodically using a suitable descaling solution designed for stainless steel, following the product's instructions.
- **Storage:** When not in use for extended periods, ensure the unit is clean, dry, and stored in a cool, dry place.

7. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; Power cord loose; Main switch off.	Check power outlet; Ensure power cord is securely plugged in; Turn main power switch to 'ON'.
Water not heating.	Temperature not set; Heating element failure; Insufficient water.	Set desired temperature; Contact support if element is faulty; Ensure water level is adequate.
Temperature fluctuates widely.	Lid not properly seated; Sensor issue; External drafts.	Ensure lid is closed properly; Contact support if sensor is faulty; Place unit away from drafts.
Display shows error code.	Sensor fault; Over-temperature; Other internal issue.	Refer to specific error codes in a more detailed technical manual (if available) or contact customer support.

If you encounter a problem not listed here or if the suggested solutions do not resolve the issue, please contact customer support.

8. Specifications

Model	B0CM9MNYNK
Capacity	7 Liters
Power	600 W
Voltage	110 V (US Standard)
Temperature Range	Ambient to 100°C
Temperature Distinguishability	0.1°C
Timer Range	0 - 999 minutes
Package Dimensions	41 x 27 x 24 cm
Item Weight	3.72 kg
First Available Date	November 23, 2023

9. Warranty and Support

Fockety stands behind the quality of its products.

- **Warranty:** This product comes with a 24-month warranty from the date of purchase, covering manufacturing defects. In case of product malfunction due to manufacturing defects within this period, you are eligible for a replacement or refund.
- **Customer Support:** If you have any questions, concerns, or require technical assistance, please do not hesitate to contact our customer support team.

For support, please refer to the contact information provided with your purchase or visit the official Fockety website.