

Mettler ONE 22-230V

Mettler ONE 22-230V 22L Oil Bath Instruction Manual

INTRODUCTION

Welcome to the instruction manual for the Mettler ONE 22-230V 22L Oil Bath. This document provides essential information for the safe and efficient operation, installation, and maintenance of your laboratory equipment. Please read this manual thoroughly before initial operation.

The Mettler ONE 22-230V is designed for precise temperature control in laboratory applications, featuring advanced electronic temperature regulation and multiple safety mechanisms to ensure smooth-running test procedures.

SAFETY INSTRUCTIONS

Always observe general laboratory safety regulations and specific safety guidelines for working with heated liquids and electrical equipment.

- Ensure the unit is placed on a stable, level, and heat-resistant surface.
- Use only approved heat transfer fluids (oil) suitable for the operating temperature range.
- Never operate the oil bath without sufficient fluid level.
- Avoid direct contact with hot surfaces and hot oil. Use appropriate personal protective equipment (PPE) such as heat-resistant gloves and eye protection.
- Disconnect the unit from the power supply before performing any maintenance or cleaning.
- Do not immerse the entire unit in water or other liquids.
- Ensure adequate ventilation around the unit to prevent heat buildup.
- In case of malfunction, switch off the unit immediately and consult the troubleshooting section or contact customer support.

PRODUCT OVERVIEW

The Mettler ONE 22-230V is a high-performance oil bath designed for precise temperature control. Key features include:

- Temperature range up to +200 °C.
- 22-liter volume.
- State-of-the-art control technology for accurate temperature regulation.
- High-quality, corrosion-resistant stainless steel for the working chamber and housing.
- Multiple overtemperature protection mechanisms and visual/acoustic signals for operational safety.

Components

The unit consists of a stainless steel housing, a working chamber, a control panel, and a heating element.



This image shows the Memmert ONE 22-230V 22L Oil Bath from the front, displaying its stainless steel exterior and the integrated digital control panel. The control panel features a display for temperature settings and actual temperature, along with control buttons.



This image illustrates the Memmert ONE 22-230V 22L Oil Bath with its hinged lid open, revealing the internal working chamber. The chamber is constructed from stainless steel, designed to hold the heat transfer fluid.

SETUP

1. **Unpacking:** Carefully remove the unit from its packaging. Inspect for any shipping damage.
2. **Placement:** Position the oil bath on a stable, level, and non-combustible surface, ensuring adequate clearance (at least 10 cm) on all sides for ventilation.
3. **Power Connection:** Connect the unit to a grounded power outlet (230V, 50/60Hz) using the provided power cord. Ensure the power supply matches the unit's requirements.
4. **Filling the Bath:** Fill the working chamber with a suitable heat transfer oil. Ensure the oil level is between the minimum and maximum fill lines, typically covering the heating elements. Do not overfill.

OPERATING INSTRUCTIONS

1. **Power On:** Press the main power switch, usually located on the control panel or rear of the unit. The display will illuminate.
2. **Setting Temperature:** Use the control panel buttons to set the desired operating temperature. Refer to the specific control panel interface for detailed instructions on navigation and value adjustment.
3. **Heating Process:** The unit will begin heating the oil to the set temperature. The display will show both the set temperature and the current actual temperature.
4. **Monitoring:** Monitor the oil level and temperature during operation. The unit features visual and acoustic signals for low fluid levels or overtemperature conditions.
5. **Power Off:** To switch off the unit, press the main power switch. Allow the oil to cool down before handling.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Memmert ONE 22-230V oil bath.

- **Cleaning:** Disconnect from power. Allow the unit to cool completely. Drain the oil. Clean the working chamber and exterior surfaces with a mild detergent and a soft cloth. Do not use abrasive cleaners or solvents.
- **Oil Replacement:** Replace the heat transfer oil periodically, or immediately if it shows signs of degradation (e.g., discoloration, increased viscosity, smoke). Follow manufacturer guidelines for oil disposal.
- **Inspection:** Regularly inspect the power cord, heating elements, and control panel for any signs of wear or damage.

TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

- **Unit does not power on:** Check power cord connection and wall outlet. Ensure the main power switch is in the 'ON' position.
- **Temperature not reaching set point:** Verify oil level is adequate. Ensure the lid is properly closed (if applicable). Check for error messages on the display.
- **Overtemperature alarm:** Switch off the unit immediately. Allow it to cool. Check oil level. If the alarm persists, contact service.
- **Unusual noises or odors:** Disconnect power immediately. Do not operate the unit. Contact customer support.

SPECIFICATIONS

Feature	Detail
Item Model Number	ONE 22-230V
Manufacturer	Memmert
Volume	22 Liters
Temperature Range	Up to +200 °C
Power Supply	230V
ASIN	B071WW27KS

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Memmert customer service directly. Ensure you have your model number (ONE 22-230V) and ASIN (B071WW27KS) available when contacting support.

