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› LW Scientific WBL-20LC-SSD1 Circulating Water Bath Instruction Manual

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LW Scientific WBL-20LC-SSD1 Circulating Water Bath Instruction Manual

Model: WBL-20LC-SSD1

INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your LW Scientific WBL-20LC-SSD1 Circulating Water Bath. Please read these instructions thoroughly before operating the unit to ensure proper function and to prevent damage or injury. This water bath is designed for laboratory applications requiring precise temperature control of samples.

SAFETY INFORMATION

- Always operate the water bath on a stable, level surface.
- Ensure the unit is properly grounded. Use only the provided power cord.
- Do not operate the unit without sufficient water in the reservoir.
- Avoid direct contact with heated surfaces or hot water. Use appropriate personal protective equipment (PPE) such as heat-resistant gloves.
- Disconnect the power supply before performing any maintenance or cleaning.
- Do not immerse the control unit in water or other liquids.
- Keep the area around the water bath clear to ensure proper ventilation.
- This equipment is for laboratory use only and should be operated by trained personnel.

PACKAGE CONTENTS

Verify that all components are present upon unpacking:

- LW Scientific WBL-20LC-SSD1 Circulating Water Bath Unit
- Power Cord
- Instruction Manual (this document)

PRODUCT OVERVIEW



Image: The LW Scientific WBL-20LC-SSD1 Circulating Water Bath, featuring a stainless steel reservoir and a digital control panel.

The LW Scientific WBL-20LC-SSD1 is a 20-liter circulating water bath designed for precise temperature control in laboratory settings. It features a seamless stainless steel reservoir for durability and easy cleaning, and a digital touch-pad controller for setting and monitoring temperature.

SETUP

1. **Placement:** Place the water bath on a stable, heat-resistant, and level surface in a well-ventilated area. Ensure there is adequate space around the unit for air circulation.
2. **Fill Reservoir:** Fill the stainless steel reservoir with distilled or deionized water. Ensure the water level is above the heating element and circulation pump intake, but below the top edge of the reservoir to prevent overflow when samples are added. Do not exceed the maximum fill line, if indicated.

3. **Power Connection:** Connect the power cord to the unit and then plug it into a grounded 110V AC power outlet.

OPERATING INSTRUCTIONS

1. **Power On:** Press the power button on the digital control panel to turn on the unit. The LED display will illuminate, showing the current water temperature.
2. **Set Temperature:** Use the 'Up' and 'Down' arrow buttons on the touch-pad to adjust the desired temperature. The set temperature will flash during adjustment and then stabilize once set.
3. **Heating:** The unit will begin heating the water to the set temperature. The circulation pump will activate automatically to ensure uniform temperature distribution.
4. **Monitoring:** The LED display continuously shows the actual water temperature. Allow sufficient time for the water bath to reach and stabilize at the set temperature before placing samples.
5. **Power Off:** Press the power button again to turn off the unit.

MAINTENANCE

- **Regular Cleaning:** Periodically drain the water bath and clean the reservoir with a mild, non-abrasive detergent. Rinse thoroughly with distilled water.
- **Water Replacement:** Replace the water in the reservoir regularly (e.g., weekly or bi-weekly, depending on usage) to prevent algae growth and mineral buildup. Use only distilled or deionized water.
- **Exterior Cleaning:** Wipe the exterior of the unit with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly inspect the power cord for any signs of damage. If damaged, discontinue use and contact customer support.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on	No power supply; Power cord not connected; Faulty outlet	Check power cord connection; Verify outlet functionality; Contact service if problem persists
Temperature not reaching set point	Insufficient water level; Heating element malfunction; Lid not used (for higher temperatures)	Add water to appropriate level; Contact service; Use a lid to reduce heat loss
Temperature fluctuates widely	Sensor issue; Circulation pump issue	Contact service for inspection
Unusual noise during operation	Low water level; Obstruction in pump	Check water level and refill; Power off and inspect pump for obstructions (after cooling)

SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model Number	WBL-20LC-SSD1
Capacity	20 Liters
Voltage	110 Volts
Material	Stainless Steel
Control Method	Touch-pad Digital
Item Weight	25.9 pounds
Package Dimensions	22.5 x 16 x 15.4 inches
Country of Origin	Taiwan

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact LW Scientific customer service. Keep your purchase receipt and model number handy when contacting support.

LW Scientific Customer Service: Please refer to the official LW Scientific website or your purchase documentation for current contact information.

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Question

Details

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