VWR 89202-918

VWR North America 89202-918 Circulating Open Bath Temperature Controller User Manual

Model: 89202-918

1. Introduction

This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of the VWR North America 89202-918 Circulating Open Bath Temperature Controller. Please read this manual thoroughly before using the device to ensure proper function and to prevent potential hazards.

2. Safety Information

Always observe the following safety precautions:

- Ensure the unit is connected to a properly grounded power outlet.
- Do not operate the unit with damaged power cords or if it has been dropped or damaged.
- Always disconnect power before performing any maintenance or cleaning.
- Use only approved fluids in the open bath. Refer to your bath's specifications for compatible media.
- Avoid direct contact with heated surfaces or fluids, as they can cause severe burns.
- Operate the controller in a well-ventilated area.
- This device is intended for laboratory use by trained personnel only.

3. Product Overview

The VWR 89202-918 is a precision temperature controller designed for use with open baths, providing accurate and stable temperature regulation for various laboratory applications. It features an intuitive control panel and a robust heating and circulation system.

Figure 1: Front view of the VWR 89202-918 Circulating Open Bath Temperature Controller. This image displays the main control unit with its digital display and control buttons, along with the power cord extending from the base.

Figure 2: Underside view of the VWR 89202-918 showing the heating coil and circulation components. This image highlights the internal heating element and the pump mechanism responsible for fluid circulation within the bath.

Figure 3: Product label detailing the VWR North American Cat. No. 89202-918, model MX20S135-V11B, serial number, and electrical specifications (60 Hz/A/V, 120V). This label provides critical identification and power requirements for the device.

3.1. Components

- **Control Head:** Digital display and user interface buttons.
- **Immersion Heater:** Provides precise temperature control.
- **Circulation Pump:** Ensures uniform temperature distribution within the bath.
- **Mounting Clamp:** Secures the controller to the bath vessel.
- **Power Cord:** For electrical connection.

4. Setup

1. **Unpacking:** Carefully remove the controller from its packaging. Inspect for any visible damage.
2. **Mounting:** Securely attach the controller to the side of your open bath using the integrated mounting clamp. Ensure the heating element and pump are fully submerged in the bath fluid, but the control head remains above the fluid level.
3. **Fluid Level:** Fill the open bath with the appropriate heat transfer fluid to a level that covers the heating element and pump, but is below the minimum fill line indicated on the controller (if applicable) and well below the control head.
4. **Power Connection:** Connect the power cord to a grounded electrical outlet matching the voltage specifications on the product label (120V, 60Hz).

5. Operating Instructions

5.1. Power On/Off

- To power on, ensure the unit is properly connected and press the **POWER** button (location may vary, typically on the control head). The display will illuminate.
- To power off, press and hold the **POWER** button until the display turns off.

5.2. Setting Temperature

1. With the unit powered on, the display typically shows the current bath temperature.

2. Press the **SET** button (or equivalent) to enter temperature setting mode. The setpoint temperature will flash.
3. Use the **UP** and **DOWN** arrow buttons to adjust the desired temperature setpoint.
4. Press **SET** again to confirm the new setpoint. The unit will begin heating or cooling to reach the target temperature.

5.3. Circulation Control

The circulation pump typically operates continuously when the unit is powered on to ensure uniform temperature. Refer to the specific model's advanced settings for pump speed adjustments if available.

6. Maintenance

- **Cleaning:** Disconnect power before cleaning. Wipe the exterior of the control head with a damp cloth. For the immersed parts, periodically remove the unit from the bath and clean any residue from the heating element and pump impeller. Use mild detergents if necessary, and rinse thoroughly with distilled water.
- **Fluid Replacement:** Regularly inspect the bath fluid for contamination or degradation. Replace the fluid as recommended by the fluid manufacturer or as needed to maintain optimal performance.
- **Storage:** When not in use for extended periods, clean the unit, drain all fluids, and store in a dry, dust-free environment.

7. Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; damaged power cord; internal fuse.	Check power connection and outlet. Inspect power cord. Contact service if fuse replacement is suspected.
Temperature not stable or incorrect.	Insufficient fluid level; contaminated fluid; sensor issue; external drafts.	Ensure proper fluid level. Replace fluid if contaminated. Minimize external temperature fluctuations. Contact service if sensor is faulty.
Circulation pump not working.	Blocked impeller; motor failure.	Disconnect power and inspect impeller for obstructions. Contact service if motor failure is suspected.
Error code displayed.	Specific system fault.	Note the error code and refer to the full service manual or contact VWR technical support for specific guidance.

8. Specifications

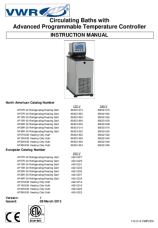
- **Model:** VWR 89202-918
- **Manufacturer:** VWR North America
- **Product Dimensions:** 20.08 x 14.17 x 14.17 inches (51.0 x 36.0 x 36.0 cm)
- **Item Weight:** 13.23 Pounds (6 Kilograms)
- **Electrical Requirements:** 120V, 60Hz (as per product label)
- **ASIN:** B06XD2TD4V

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact VWR North America directly or refer to the official VWR website. Keep your purchase receipt and product serial number (found on the product label, see Figure 3) readily available when contacting support.

VWR North America Contact: us.vwr.com/store/

Related Documents - 89202-918

	VWR Signature Circulating Baths with Advanced Programmable Temperature Controller Instruction Manual This instruction manual provides comprehensive guidance for the installation, operation, and maintenance of VWR Signature Circulating Baths with Advanced Programmable Temperature Controllers, designed for precise laboratory temperature control.
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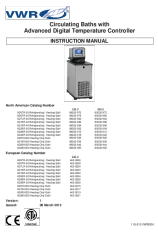	VWR Signature Circulating Baths with Advanced Digital Temperature Controller Instruction Manual This instruction manual provides detailed guidance on the installation, operation, safety, and maintenance of VWR Signature Circulating Baths equipped with an Advanced Digital Temperature Controller. Learn about model specifications, troubleshooting, and technical information for precise temperature control applications.
	VWR 12 and 18 Liter Linear Shaking Water Bath Instruction Manual Comprehensive instruction manual for the VWR 12 and 18 liter linear shaking water baths. Covers safety precautions, setup, operation, specifications, maintenance, troubleshooting, warranty, and disposal.

	[VWR General Purpose Water Baths Operator's Manual | Laboratory Temperature Control] Comprehensive operator's manual for VWR General Purpose Water Baths, covering installation, operation, maintenance, troubleshooting, and safety guidelines for laboratory incubation, inactivation, and agglutination procedures.
	[VWR General Purpose Water Baths Operator's Manual] Operator's manual for VWR General Purpose Water Baths, detailing installation, operation, safety, maintenance, and troubleshooting for laboratory use.