

Double-Wall Stainless Steel Thermostatic Water Bath

Operating Manual

Laboratory Equipment

Intended use

Rectangular thermostatic water bath for warming samples and reagents, melting agar or wax, incubation and evaporation of liquids at controlled temperatures from ambient to 110 C.

Intended users

Trained laboratory personnel in microbiology, clinical, molecular biology, histology, pharmaceutical and teaching laboratories.

Read this manual completely before first use and keep it with the product. This document provides general operating, care and safety guidance. Where the product is supplied with manufacturer labeling or instructions, those take precedence. For questions, a replacement copy, or a digital copy of this manual, email sales@scimedstore.com.

1. Safety

Safety warnings and cautions

- Connect only to a grounded outlet with the supply voltage marked on the unit.
- Never switch on the heater without water in the bath. Keep the water level above the heater at all times.
- Unplug the unit before filling, emptying, cleaning or moving it.
- Do not allow water or other liquids to enter the control housing. Do not operate with wet hands.
- Hot surfaces and hot water can cause burns. Use heat-resistant gloves and allow the bath to cool before emptying.
- When evaporating flammable solvents such as alcohol or ether, work in a fume hood, keep away from open flames and sparks, and never leave unattended.
- Treat biological samples as potentially infectious and follow your laboratory's biosafety procedures.
- Do not use if the power cord, housing or chamber is damaged.

2. Package contents

- Water bath unit
- Lid with concentric removable rings

Check contents on receipt. Report missing or damaged items to sales@scimedstore.com within 48 hours of delivery.

3. Specifications

Temperature range	Ambient to 110 C
Temperature stability	+/- 1 C
Inner chamber	Double-walled SS 304 with insulation between walls
Outer body	Mild steel, powder-coated, or SS 304 (as ordered)
Thermostat	Capillary-type
Lid	Concentric removable rings for containers of different sizes
Controls	On/off rotary switch, 2 indicator lights
Power supply	220V or 110V (as ordered; check the marking on the unit)
Cooling	None; heating above ambient only

4. Unpacking and setup

- 1 Unpack the unit and check it for transport damage.
- 2 Place the bath on a stable, level, heat-resistant bench away from flammable materials, with space around it for ventilation.
- 3 Check that the supply voltage marked on the unit matches your local supply.
- 4 Fill the chamber with distilled or deionized water to a level that covers the heater and the immersed part of your containers.
- 5 Fit the lid and the rings needed for your containers.
- 6 Plug the power cord into a grounded outlet with the switch in the off position.

5. Operation

Heating to the set temperature

- 1 Check the water level before switching on.
- 2 Switch the unit on with the rotary switch. The indicator lights show power and heating status.
- 3 Set the thermostat to the required temperature.
- 4 Allow the bath to heat and stabilize. Check the water temperature with a calibrated thermometer.
- 5 Adjust the thermostat slightly if the measured temperature differs from the required value, and recheck after it stabilizes.

Using the bath

- 1 Remove the rings needed to fit your flask, bottle or rack.
- 2 Place containers in the bath so the contents are below the water level but water cannot enter the container.
- 3 Keep the lid in place as much as possible to reduce heat and water loss.
- 4 Top up with warm distilled water as needed during long runs.
- 5 Remove containers with heat-resistant gloves or tongs when finished.
- 6 Switch off the unit and unplug it when not in use.

6. Cleaning and disinfection

- Switch off, unplug and let the bath cool before emptying and cleaning.
- Empty the water and wipe the stainless steel chamber with a soft cloth and mild detergent. Rinse with clean water and dry.
- Use distilled or deionized water to limit scale build-up. Remove scale with a mild descaler suitable for stainless steel and rinse well.
- Do not use steel wool or abrasive cleaners on the chamber.
- Wipe the outer body with a damp cloth only. Do not allow liquid into the control housing.
- Change the water regularly to prevent microbial growth.

7. Maintenance and storage

- Empty and dry the bath before storage.
- Store in a clean, dry place.
- Check the power cord, switch and indicator lights regularly.
- Verify the temperature periodically with a calibrated thermometer.
- Refer repairs to the heater, thermostat or wiring to qualified service personnel.

8. Troubleshooting

Problem	Likely cause	What to do
Unit does not switch on	No power, loose cord or blown fuse	Check the outlet and cord; have the fuse checked by qualified personnel.
Water does not heat	Thermostat set too low or heater fault	Raise the thermostat setting; if there is still no heating, contact service.
Temperature too high or unstable	Thermostat setting or thermostat fault	Lower the setting and check with a thermometer; contact service if it continues.
Water level drops quickly	Evaporation at high temperature	Keep the lid on and top up with warm distilled water.
Scale or deposits in the chamber	Use of tap water	Descale and use distilled or deionized water.
Heating slow to reach temperature	Lid off or too much water	Close the lid and use only the water level needed.

9. Disposal

- Decontaminate the bath if it has been used with biological or hazardous materials.
- Dispose of the unit as electrical waste in accordance with local regulations. Do not discard in household waste.

10. Warranty and support

Products are covered by SciMed's standard warranty (12 months from purchase unless a different period is stated on your invoice). Warranty terms: scimedstore.com/pages/warranty.

Support, spare parts and additional copies of this manual: sales@scimedstore.com. Please include your order number and a photo of the product or issue.

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