

Electron Microscopy Sciences 5800-DTH

Branson Ultra Sonic Bath Model 5800-DTH User Manual

Model: 5800-DTH | Brand: Electron Microscopy Sciences

INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, maintenance, and troubleshooting of the Branson Ultra Sonic Bath Model 5800-DTH. Please read this manual thoroughly before operating the unit to ensure proper usage and to prevent damage or injury.

The Branson Ultra Sonic Bath Model 5800-DTH is an ultrasonic cleaner designed for laboratory and industrial applications. It features a digital timer, heater, degas function, and temperature monitoring capabilities. Its tank dimensions are 11.5 inches by 9.5 inches by 6 inches, with a capacity of 2.5 gallons (9.5 liters). The overall size of the unit is 15.6 inches by 15.8 inches by 14.9 inches.



Image: The Branson Ultra Sonic Bath Model 5800-DTH, a compact ultrasonic cleaner with a digital display and control panel on top, and a stainless steel tank.

SAFETY PRECAUTIONS

- Always ensure the unit is properly grounded.
- Do not operate the unit without liquid in the tank.
- Use only approved cleaning solutions. Avoid flammable or corrosive liquids.
- Keep hands and foreign objects out of the tank during operation.
- Disconnect power before performing any maintenance or cleaning.
- Ensure adequate ventilation when operating.

- Do not immerse the unit in water or other liquids.

SETUP

1. **Unpacking:** Carefully remove the ultrasonic bath from its packaging. Inspect for any shipping damage. Report any damage to the carrier immediately.
2. **Placement:** Place the unit on a stable, level, and heat-resistant surface. Ensure there is adequate space around the unit for ventilation.
3. **Power Connection:** Connect the power cord to a grounded electrical outlet (110 V).
4. **Filling the Tank:** Fill the stainless steel tank with the appropriate cleaning solution. Ensure the liquid level is between the minimum and maximum fill lines. Do not overfill.
5. **Degassing (Initial Use):** For optimal performance, especially with fresh solutions, perform a degassing cycle. This removes dissolved gases from the liquid, which can interfere with ultrasonic cleaning efficiency.

OPERATING INSTRUCTIONS

Basic Operation

1. **Power On:** Press the power button to turn on the unit. The digital display will illuminate.
2. **Set Temperature (if applicable):** Use the temperature controls to set the desired cleaning solution temperature. Allow time for the heater to reach the set point.
3. **Set Timer:** Use the timer controls to set the desired cleaning duration. Typical cycles range from 5 to 30 minutes depending on the application.
4. **Place Items:** Carefully place the items to be cleaned into the cleaning basket. Lower the basket into the tank, ensuring items are fully submerged but not touching the bottom or sides of the tank.
5. **Start Cleaning:** Press the start button to initiate the ultrasonic cleaning cycle. The unit will operate for the set duration and then automatically shut off.
6. **Remove Items:** Once the cycle is complete, carefully remove the basket and rinse the cleaned items thoroughly with water.

Degas Function

The degas function rapidly removes dissolved gases from the cleaning solution, improving ultrasonic efficiency. Activate this function for approximately 5-10 minutes when using fresh solution or if cleaning performance seems reduced.

Temperature Control

The integrated heater allows for precise temperature control of the cleaning solution. Optimal cleaning temperatures vary by application and cleaning solution type. Refer to your cleaning solution's instructions for recommended temperatures.

MAINTENANCE

- **Draining the Tank:** Regularly drain and replace the cleaning solution. Use the drain valve located on the unit to empty the tank.
- **Cleaning the Tank:** After draining, wipe the inside of the tank with a soft cloth to remove any residue. Do not use abrasive cleaners or scouring pads.
- **Exterior Cleaning:** Clean the exterior of the unit with a damp cloth. Avoid getting water into the control panel or electrical components.
- **Filter Maintenance (if applicable):** Check and clean any integrated filters as per the schedule outlined in the full

product manual (if applicable).

- **Storage:** When not in use for extended periods, ensure the unit is clean, dry, and stored in a cool, dry place.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; faulty power cord; internal fuse blown.	Check power connection and outlet; inspect power cord; contact service for fuse replacement.
No ultrasonic action.	Insufficient liquid; air bubbles in solution (no degas); transducer issue.	Add more liquid; perform degas cycle; contact service.
Poor cleaning results.	Incorrect solution; insufficient temperature; overloaded tank; items not submerged.	Use appropriate solution; adjust temperature; reduce load; ensure full submersion.
Heater not working.	Heater element failure; temperature sensor issue.	Contact service for repair.

SPECIFICATIONS

Model: Branson Ultra Sonic Bath Model 5800-DTH

Brand: Electron Microscopy Sciences

Power Supply: 110 V

Tank Dimensions (L x W x D): 11.5" x 9.5" x 6"

Tank Capacity: 2.5 Gallons (9.5 Liters)

Overall Dimensions (L x W x H): 15.6" x 15.8" x 14.9"

Features: Digital Timer, Heater, Degas Function, Temperature Monitor

Manufacturer: EMS

ASIN: B010NWGVJS

WARRANTY INFORMATION

This Branson Ultra Sonic Bath Model 5500-DTH is covered by a standard manufacturer's warranty. For specific terms, duration, and conditions, please refer to the warranty card included with your product or contact Electron Microscopy Sciences directly. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, spare parts, or service inquiries, please contact Electron Microscopy Sciences customer support. When contacting support, please have your model number (5800-DTH) and serial number (if applicable) ready.

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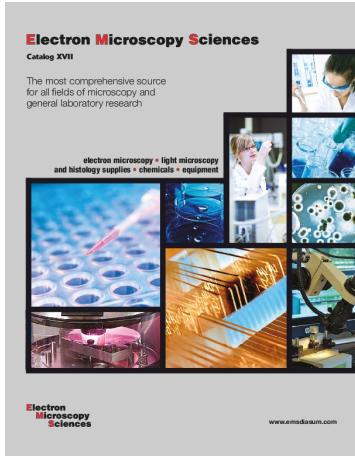
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(Please refer to the official website or product documentation for direct contact information such as phone numbers or email addresses, as these are not provided in the current data.)

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