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› Branson 3800 M Ultrasonic Cleaner 5.7 L User Manual

## BRANSON 3800 M

# Branson 3800 M Ultrasonic Cleaner 5.7 L User Manual

Model: 3800 M | Brand: BRANSON

## 1. INTRODUCTION

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The Branson 3800 M Ultrasonic Cleaner provides a fast, efficient, and safe method for cleaning various items. Ultrasonic cleaning utilizes sound waves irradiated into a liquid, generating a cavitation effect – the rapid formation and implosion of microscopic bubbles. This process, enhanced by heat, effectively removes heavy oils, waxes, and deeply embedded contaminants from intricate areas that manual brushing cannot reach. This manual provides essential information for the proper setup, operation, and maintenance of your Branson 3800 M Ultrasonic Cleaner.

## 2. SAFETY INFORMATION

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- **Electrical Safety:** Always connect the unit to a grounded power outlet. Do not operate with wet hands or near water sources. Disconnect power before cleaning or servicing.
- **Liquid Handling:** Use only approved cleaning solutions. Do not use flammable or corrosive liquids. Ensure the tank is filled to the operating level before starting.
- **Temperature:** The unit can heat liquids. Exercise caution when handling hot solutions and the tank.
- **Personal Protection:** Wear appropriate personal protective equipment (PPE) such as gloves and eye protection when handling cleaning solutions or hot items.
- **Placement:** Place the unit on a stable, level surface away from heat sources and direct sunlight. Ensure adequate ventilation.
- **Children and Pets:** Keep the unit out of reach of children and pets.

## 3. PRODUCT OVERVIEW

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The Branson 3800 M Ultrasonic Cleaner features a robust design for reliable performance. Key components include the stainless steel cleaning tank, a control panel with a mechanical timer, and a power control function.



**Figure 1:** Top view of the Branson 3800 M Ultrasonic Cleaner. Visible are the control panel with a rotary timer knob, marked from 0 to 60 minutes, and the stainless steel cleaning tank. The tank has an 'OPERATING LEVEL' indicator line.

## Key Features:

- **Mechanical Timer:** Adjustable up to 60 minutes for precise cleaning cycles.
- **Power Control:** Allows selection between 100% power for durable items and 70% power for delicate components.
- **Temperature Control:** Selectable temperature up to 69 °C (156.2 °F) for enhanced cleaning.
- **Degassing Function:** Extended degassing periods up to 99 minutes, useful for sample preparation and ensuring optimal ultrasonic performance.
- **Stable Ultrasonic Power:** Maintains consistent ultrasonic power even with changing conditions.
- **Draining Kit:** Includes a draining kit for convenient liquid removal.

## 4. SETUP

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1. **Unpacking:** Carefully remove the ultrasonic cleaner from its packaging. Retain packaging for future transport or storage.
2. **Placement:** Position the unit on a firm, level, and dry surface. Ensure there is adequate space around the unit for ventilation and operation.
3. **Power Connection:** Connect the power cord to a grounded electrical outlet matching the unit's voltage requirements.
4. **Fill Tank:** Fill the stainless steel tank with the appropriate cleaning solution. Ensure the liquid level is between the minimum and maximum fill lines, typically indicated by the "OPERATING LEVEL" mark. Do not overfill or operate with insufficient liquid.
5. **Optional Basket:** If using the optional perforated basket, place it into the tank after filling with solution.

## 5. OPERATING INSTRUCTIONS

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- 1. Prepare Items:** Place items to be cleaned into the optional perforated basket or directly into the tank, ensuring they are fully submerged but not touching the bottom of the tank. Avoid overcrowding.
- 2. Select Power Level:** Use the power control setting to choose between 100% power for durable items or 70% power for delicate items.
- 3. Set Temperature (if applicable):** If heating is desired, set the temperature control to the required value up to 69 °C (156.2 °F). Allow time for the solution to reach the set temperature.
- 4. Degassing (Initial Use or New Solution):** For optimal performance, especially with new cleaning solutions, perform a degassing cycle. Set the timer for an extended period (e.g., 5-10 minutes) without items in the tank. This removes dissolved gases from the solution, improving cavitation efficiency. The unit supports degassing up to 99 minutes.
- 5. Set Cleaning Time:** Turn the mechanical timer knob to the desired cleaning duration, up to 60 minutes. The ultrasonic cleaning process will begin.
- 6. Monitor Process:** Observe the cleaning process. For heavily soiled items, multiple cycles or a change of solution may be necessary.
- 7. End of Cycle:** The unit will automatically stop when the timer reaches zero. Carefully remove the cleaned items using the basket or appropriate tools.
- 8. Rinse Items:** Rinse cleaned items thoroughly with clean water to remove any residual cleaning solution.

## 6. MAINTENANCE

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- **Draining the Tank:** After each use or when the solution becomes visibly dirty, drain the tank using the included draining kit.
- **Cleaning the Tank:** Rinse the stainless steel tank with clean water. For stubborn residues, use a soft cloth and a mild, non-abrasive cleaner. Do not use harsh chemicals or abrasive pads that could damage the tank surface.
- **Exterior Cleaning:** Wipe the exterior of the unit with a damp cloth. Do not immerse the unit in water or spray liquids directly onto the control panel.
- **Storage:** When not in use, ensure the unit is clean, dry, and stored in a cool, dry place.
- **Solution Replacement:** Regularly replace the cleaning solution to maintain optimal cleaning performance.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Unit does not power on.	No power supply; faulty power cord; unit malfunction.	Check power connection and outlet. Ensure power cord is not damaged. If problem persists, contact support.
Ultrasonic action is weak or absent.	Insufficient liquid in tank; dissolved gases in solution; incorrect timer setting; transducer issue.	Ensure liquid is at "OPERATING LEVEL". Perform a degassing cycle. Check timer setting. Contact support if issue continues.
Cleaning results are poor.	Incorrect cleaning solution; solution is old/dirty; items overcrowded; insufficient cleaning time; no degassing performed.	Use appropriate cleaning solution. Replace old/dirty solution. Avoid overcrowding items. Increase cleaning time. Perform degassing.
Unit is overheating.	Prolonged operation; insufficient ventilation.	Allow unit to cool down. Ensure adequate space around the unit for air circulation.

## 8. SPECIFICATIONS

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Feature	Detail
Model Number	3800 M
Brand	BRANSON
Tank Capacity	5.7 Liters
Mechanical Timer	Adjustable up to 60 minutes
Power Control	100% (Strong) / 70% (Low)
Max Temperature	69 °C (156.2 °F)
Degassing Time	Up to 99 minutes
Tank Dimensions	290 x 150 x 150 mm
External Dimensions	397 x 317 x 377 mm
Weight	5.4 Kilograms
Country of Origin	Mexico

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact BRANSON customer service directly. Ensure you have your model number (3800 M) and purchase details available when contacting support.

**Manufacturer:** Branson

