

## 14L Heated Stainless Steel Ultrasonic Cleaning Machine

# Generic 14L Heated Stainless Steel Ultrasonic Cleaning Machine User Manual

Model: 14L Heated Stainless Steel Ultrasonic Cleaning Machine

## 1. INTRODUCTION

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Thank you for choosing the Generic 14L Heated Stainless Steel Ultrasonic Cleaning Machine. This device utilizes high-frequency ultrasonic vibrations to create cavitation bubbles, providing a deep and thorough clean for various items. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your ultrasonic cleaner. Please read it carefully before use and retain it for future reference.

The unit is designed for cleaning items such as jewelry, eyeglasses, dentures, small parts, and more, effectively removing dirt, grime, and residue without causing damage. It features a durable 304 stainless steel tank, adjustable temperature settings from 20°C to 80°C, and a customizable timer from 0 to 30 minutes.

## 2. SAFETY INFORMATION

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To ensure safe operation and prevent damage to the unit or injury, please observe the following safety precautions:

- Always connect the unit to a grounded electrical outlet.
- Do not attempt to disassemble or repair the unit yourself. Refer all servicing to authorized personnel.
- Avoid touching the power socket or plug with wet hands to prevent the risk of electric shock.
- Never operate the unit without sufficient water in the tank. Running the unit dry can cause severe damage.
- Ensure the unit is placed on a stable, level, and heat-resistant surface.
- Keep the unit out of reach of children.
- Do not immerse the main body of the cleaner in water or other liquids.

- Unplug the unit from the power outlet when not in use or before cleaning.

### 3. PRODUCT FEATURES

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- **Thorough Ultrasonic Cleaning:** Employs high-frequency ultrasonic vibrations (40KHz) to generate cavitation bubbles, reaching intricate areas for a deep and reliable clean without damaging delicate items.
- **Durable Construction:** Manufactured with a 304 stainless steel inner tank, ensuring rust resistance, leak-proof performance, and long-lasting durability. The stainless steel cover protects the unit from dust.
- **Digital Control Panel:** Features a user-friendly digital display for precise adjustment of cleaning time (0-30 minutes) and temperature (20-80°C / 68-176°F).
- **Advanced Transducer Technology:** Utilizes innovative Sandwich Piezoelectric Transducer Technology to enhance cleaning efficiency across various applications.
- **Versatile Applications:** Suitable for cleaning a wide range of items including jewelry, lenses, watches, musical instruments, coins, pens, industrial parts, and electronic equipment.
- **Safety Features:** Includes anti-overheating heat sink, dual fuse protection, and vibration-damping rubber pads.

### 4. PACKAGE CONTENTS

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Please check the package contents upon receipt to ensure all items are present:

- Ultrasonic Cleaning Machine Unit
- Stainless Steel Cleaning Basket
- Stainless Steel Lid (Muffler Cover)
- Power Cord
- User Manual (This document)

### 5. PRODUCT OVERVIEW AND COMPONENTS

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**Figure 1: Key Components**

This image displays the muffler cover, stainless steel

basket, vibration-damping rubber pads at the bottom, and the bottom heat dissipation and ventilation system.



**Figure 2: Design Details**

This image highlights the anti-overheating heat sink, dual fuse protection, built-in handle, and the four rubber feet for stability.

The unit features a robust stainless steel construction with integrated handles for easy portability. The bottom includes vibration-damping rubber pads for stable operation and a heat dissipation system to prevent overheating. Dual fuse protection enhances electrical safety.

## 6. CONTROL PANEL DESCRIPTION

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# ULTRASONIC CLEANER CONTROL PANEL

CNC LED OPERATION IS SMOOTH AND STABLE, ENHANCING THE SENSE OF OPERATION PROCESS, AESTHETICS AND TEXTURE AT THE SAME TIME

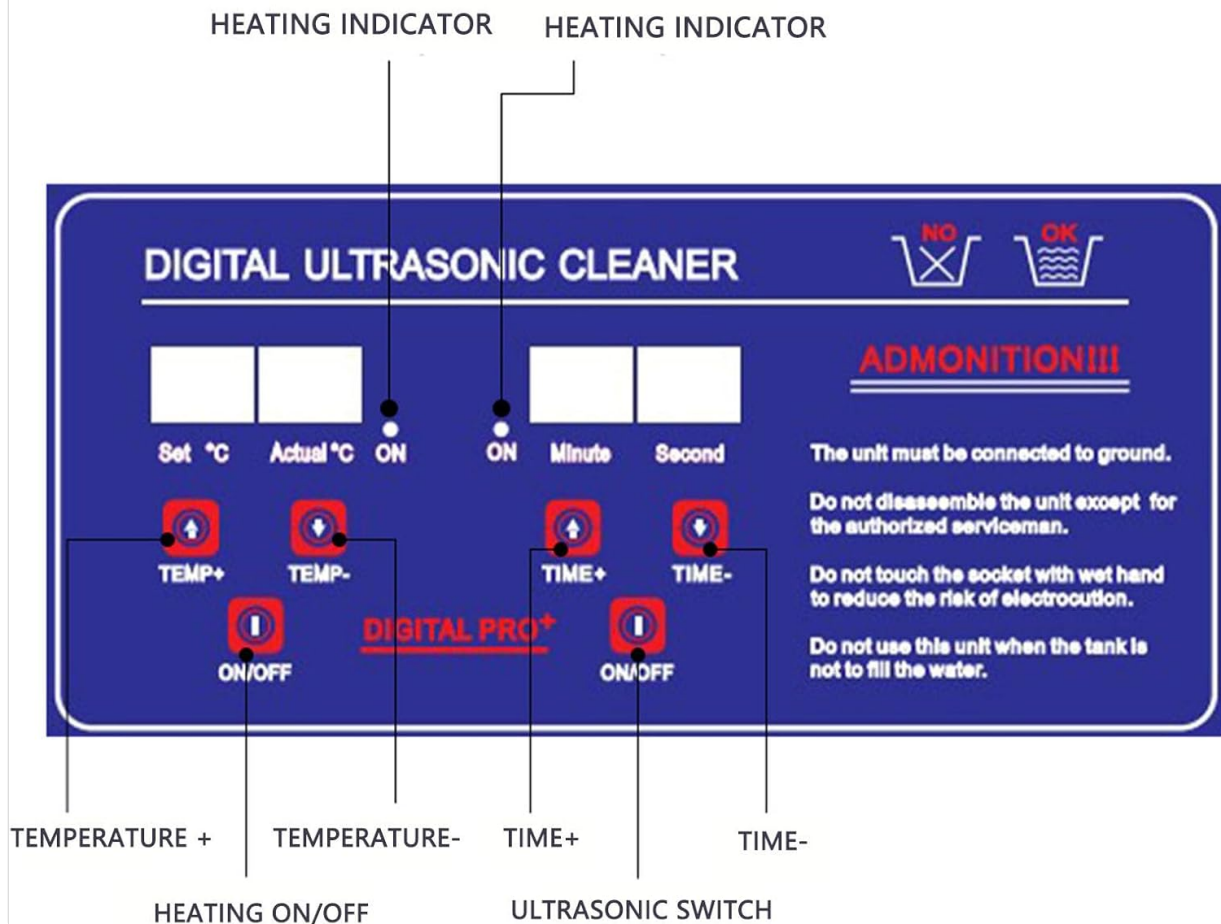


Figure 3: Digital Control Panel

This diagram illustrates the layout of the digital control panel, showing buttons for temperature and time adjustments, heating indicator, and the ultrasonic switch.

The digital control panel allows for precise management of cleaning parameters:

- **Set °C / Actual °C:** Displays the set temperature and the current actual temperature of the water.
- **TEMP+ / TEMP-:** Buttons to increase or decrease the desired cleaning temperature.
- **HEATING ON/OFF:** Button to activate or deactivate the heating function. The heating indicator light will illuminate when active.
- **Minute / Second:** Displays the set cleaning time in minutes and seconds.
- **TIME+ / TIME-:** Buttons to increase or decrease the desired cleaning duration.
- **ULTRASONIC SWITCH (ON/OFF):** Button to start or stop the ultrasonic cleaning process.

## 7. SETUP

1. **Placement:** Place the ultrasonic cleaner on a firm, level, and dry surface, ensuring adequate ventilation around the unit.
2. **Power Connection:** Ensure the power switch is in the OFF position. Connect the power cord securely to

the unit's power inlet and then plug it into a grounded electrical outlet.

3. **Fill with Water:** Open the lid and fill the stainless steel tank with an appropriate amount of water. It is recommended to use bottled water to protect your items and the unit. Ensure the water level is between the 'MIN' and 'MAX' marks (if present) or at least covers the items to be cleaned, but not exceeding 2/3 of the tank capacity.
4. **Add Cleaning Solution (Optional):** For enhanced cleaning, a small amount of non-foaming, non-corrosive ultrasonic cleaning solution can be added to the water. Follow the solution manufacturer's instructions for dilution.

## 8. OPERATION



**Figure 4: Cleaning Scope**

This image illustrates the wide range of items suitable for cleaning with this ultrasonic machine, from medical tools to electronic components.

1. **Prepare Items:** Place the items to be cleaned into the stainless steel cleaning basket. Avoid overcrowding the basket.
2. **Place Basket:** Carefully lower the basket with items into the water-filled tank. Ensure items are fully submerged but not touching the bottom of the tank directly.
3. **Set Temperature:** Press the 'HEATING ON/OFF' button to activate the heater. Use the 'TEMP+' and 'TEMP-' buttons to set the desired cleaning temperature. A recommended temperature for general

cleaning is 35°C (95°F). The unit will heat the water to the set temperature.

4. **Set Timer:** Use the 'TIME+' and 'TIME-' buttons to set the desired cleaning duration. A common starting point for many items is 8 minutes. Adjust as needed based on the item's condition and material.
5. **Start Cleaning:** Press the 'ULTRASONIC SWITCH' button to begin the ultrasonic cleaning cycle. The unit will operate for the set duration.
6. **After Cleaning:** Once the cycle is complete, the unit will stop automatically. Carefully lift the basket out of the tank.
7. **Rinse and Dry:** Rinse the cleaned items thoroughly with clean water to remove any loosened debris or cleaning solution residue. Dry the items completely before storage or use.



**Figure 5: Before and After Cleaning Results**

This image provides a visual comparison of various items, such as engine components and bearings, before and after undergoing the ultrasonic cleaning process, highlighting the effectiveness of the machine.

## 9. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ultrasonic cleaner:

- **Drain Water:** After each use, especially if using cleaning solutions, drain the water from the tank. Use the drain valve (if present) or carefully pour out the water.
- **Clean Tank:** Wipe the inside of the stainless steel tank with a soft cloth to remove any residue. For stubborn stains, use a mild, non-abrasive cleaner. Do not use harsh chemicals or abrasive pads.
- **Exterior Cleaning:** Wipe the exterior of the unit with a damp cloth. Do not spray water directly onto the control panel or electrical components.
- **Storage:** Store the unit in a cool, dry place with the lid closed to prevent dust accumulation. Ensure the tank is completely dry before storage.
- **Regular Inspection:** Periodically check the power cord for any signs of damage. If damaged, contact authorized service personnel for replacement.

## 10. TROUBLESHOOTING

If you encounter issues with your ultrasonic cleaner, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; Power cord loose; Fuse blown.	Check power outlet; Ensure power cord is securely plugged in; Check and replace fuse if necessary (refer to safety section).
Ultrasonic function not working.	No water in tank; Ultrasonic switch not activated; Faulty transducer.	Ensure tank is filled with water; Press the 'ULTRASONIC SWITCH' button; Contact customer support if issue persists.
Heating function not working.	Heating switch not activated; Temperature set too low; Faulty heater.	Press the 'HEATING ON/OFF' button; Increase the set temperature; Contact customer support if issue persists.
Poor cleaning results.	Insufficient cleaning time; Incorrect temperature; Items overcrowded; Inappropriate cleaning solution.	Increase cleaning time; Adjust temperature (e.g., to 35°C); Clean fewer items at once; Use a suitable ultrasonic cleaning solution.
Unit is noisy or vibrating excessively.	Unstable surface; Tank not properly filled.	Ensure unit is on a stable, level surface; Check water level in the tank.

If the problem persists after attempting these solutions, please contact customer support for further assistance.

## 11. SPECIFICATIONS

Specification	Value
Model	14L Heated Stainless Steel Ultrasonic Cleaning Machine
Tank Material	304 Stainless Steel

Specification	Value
Ultrasonic Frequency	40 KHz
Adjustable Temperature Range	20°C - 80°C (68°F - 176°F)
Adjustable Timer Range	0 - 30 minutes
Package Dimensions	3.15 x 3.15 x 3.15 inches (Note: This dimension seems incorrect for a 14L unit and may refer to packaging for a smaller component. Please refer to product listing for accurate overall dimensions.)
Item Weight	2.2 pounds (Note: This weight seems incorrect for a 14L unit and may refer to a smaller component. Please refer to product listing for accurate overall weight.)
Manufacturer	Generic

## 12. WARRANTY AND SUPPORT

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This product is covered by a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact the seller directly.

For technical support, troubleshooting assistance, or inquiries regarding parts and service, please contact the seller or manufacturer through the platform where the product was purchased. Please have your purchase details and model information ready when contacting support.