

## TPC UC400

# TPC Ultrasonic Cleaner UC400 User Manual

Model: UC400

## 1. INTRODUCTION

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Thank you for choosing the TPC Ultrasonic Cleaner UC400. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your ultrasonic cleaner. Please read this manual thoroughly before operating the device and keep it for future reference. The UC400 is designed for professional cleaning applications, utilizing high-frequency sound waves to create cavitation bubbles that gently yet effectively clean various items.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury or damage to the unit.

- Do not operate the unit without liquid in the tank. Dry running can damage the transducer.
- Ensure the unit is placed on a stable, level surface away from heat sources and direct sunlight.
- Do not immerse the main unit in water or other liquids. Only the tank is designed for liquid.
- Always unplug the unit before cleaning, filling, or emptying the tank.
- Use only cleaning solutions recommended for ultrasonic cleaners. Avoid flammable, corrosive, or abrasive solutions.
- Keep out of reach of children.
- Do not touch the tank or solution during operation, as it may become warm.
- If the unit shows signs of damage, do not operate it. Contact qualified service personnel.

## 3. PRODUCT OVERVIEW

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The TPC Ultrasonic Cleaner UC400 features a durable stainless steel tank and cover, designed for efficient and thorough cleaning.



**Figure 1:** TPC Ultrasonic Cleaner UC400. This image shows the compact design of the ultrasonic cleaner, featuring a stainless steel tank at the top, a blue front panel with the "TPC" logo, and a digital control panel with a display and buttons at the bottom. Handles are visible on the sides.

## Components:

- **Stainless Steel Tank:** Holds the cleaning solution and items to be cleaned.
- **Stainless Steel Cover:** Reduces noise and prevents splashing during operation.
- **Control Panel:** Features a digital display for time and temperature settings, along with control buttons.
- **Power Cord:** For connecting the unit to an electrical outlet.
- **Drain Valve:** Located at the bottom for easy emptying of the tank.

## 4. SETUP

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1. **Unpacking:** Carefully remove the ultrasonic cleaner from its packaging. Inspect for any signs of damage. Retain packaging for future transport or storage.
2. **Placement:** Place the unit on a firm, level, and dry surface. Ensure there is adequate ventilation around the unit. Do not place it near heat sources or in direct sunlight.
3. **Power Connection:** Ensure the power switch is in the OFF position. Connect the power cord to a grounded electrical outlet with the correct voltage (refer to specifications).
4. **Filling the Tank:** Open the cover and fill the stainless steel tank with the appropriate cleaning solution. Do not exceed the MAX fill line. Ensure the items to be cleaned are fully submerged but do not touch the bottom of the tank directly. Use a basket if provided.

## 5. OPERATING INSTRUCTIONS

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1. **Power On:** Plug in the unit and turn on the main power switch. The digital display will illuminate.
2. **Set Cleaning Time:** Use the "Time" buttons on the control panel to set the desired cleaning duration. Typical cleaning cycles range from 5 to 15 minutes, depending on the items and level of contamination.
3. **Set Temperature (if applicable):** If your model has a heating function, use the "Temp" buttons to set the desired solution temperature. Heating the solution can improve cleaning efficiency for certain applications. Allow time for the

solution to reach the set temperature.

- 4. **Start Cleaning:** Press the "Start/Stop" button to begin the ultrasonic cleaning process. The unit will emit a high-frequency hum.
- 5. **During Operation:** Keep the cover closed during operation to minimize noise and prevent splashing. Do not touch the tank or solution.
- 6. **End of Cycle:** The unit will automatically stop when the set time expires. You can also press the "Start/Stop" button to manually stop the process at any time.
- 7. **Remove Items:** Carefully open the cover. Use gloves or a basket to remove the cleaned items from the tank. Rinse items thoroughly with clean water if necessary and dry them.
- 8. **Power Off:** Turn off the main power switch and unplug the unit from the electrical outlet.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ultrasonic cleaner.

- **Draining the Tank:** After each use or when the solution becomes visibly dirty, drain the tank using the drain valve.
- **Cleaning the Tank:** Rinse the 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.
- **Exterior Cleaning:** Wipe the exterior of the unit with a damp cloth. Do not spray water directly onto the control panel or main unit.
- **Solution Replacement:** Always use fresh cleaning solution for optimal results. Do not reuse heavily contaminated solutions.
- **Storage:** When not in use, ensure the unit is clean, dry, and stored in a cool, dry place.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; power cord not connected; power switch off.	Check power outlet; ensure power cord is securely plugged in; turn on power switch.
No ultrasonic action (no hum).	Tank empty; unit not started; faulty transducer.	Fill tank with solution; press "Start" button; contact service if problem persists.
Poor cleaning results.	Incorrect solution; insufficient cleaning time; overloaded tank; solution too cold.	Use appropriate cleaning solution; increase cleaning time; reduce load; allow solution to heat up.
Unit overheats.	Prolonged operation; insufficient ventilation.	Allow unit to cool down; ensure proper ventilation around the unit.

8. SPECIFICATIONS

Feature	Detail
Model	UC400
Brand	TPC

Feature	Detail
Item Weight	24 Pounds
Item Form	Stainless steel cover and tank with welded drain
Specific Uses For Product	Sweep technology ensures exceptional cleaning efficiency
Unit Count	1.0 Count
Number of Items	1

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your authorized TPC dealer or visit the official TPC website. Please have your model number (UC400) and purchase date available when contacting support.

**Note:** Statements regarding dietary supplements have not been evaluated by the FDA and are not intended to diagnose, treat, cure, or prevent any disease or health condition. This product is intended for professional cleaning applications.

