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› User Manual: 58L Industrial Ultrasonic Cleaner 40KHZ or 28KHZ Ultrasonic Power Adjustable

Canglan Technology 58L Industrial Ultrasonic Cleaner

User Manual: 58L Industrial Ultrasonic Cleaner

Model: 58L Industrial Ultrasonic Cleaner

1. INTRODUCTION

Thank you for choosing the Canglan Technology 58L Industrial Ultrasonic Cleaner. This powerful and versatile cleaning device is designed for industrial applications, offering superior cleaning performance for a wide range of items. With its large capacity, adjustable ultrasonic frequencies (40KHz/28KHz), and robust construction, it provides an efficient and effective solution for your cleaning needs. Please read this manual thoroughly before operation to ensure safe and optimal use of the cleaner.



Figure 1: Front view of the 58L Industrial Ultrasonic Cleaner, showing the main unit with the Canglan Technology logo and the integrated control panel.

2. SAFETY INSTRUCTIONS

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

- **Electrical Safety:** Ensure the power supply matches the unit's requirements (220-240 Volts AC, 50 Hz). Do not operate with wet hands. Always unplug the unit before cleaning or maintenance.
- **Liquid Handling:** Use only approved cleaning solutions. Do not overfill or underfill the tank. Avoid spilling liquids on the control panel or electrical components.
- **Temperature:** The heating element can reach up to 80°C. Allow the unit to cool before handling or draining.
- **Ventilation:** Operate the cleaner in a well-ventilated area to dissipate any fumes from cleaning solutions.
- **Personal Protective Equipment:** Wear appropriate safety glasses and gloves when handling cleaning solutions or operating the unit.
- **Placement:** Place the unit on a stable, level, and heat-resistant surface. Ensure adequate space around the unit for air circulation.
- **Children and Pets:** Keep the unit out of reach of children and pets.
- **Do Not Immerse:** Never immerse the entire unit in water or any other liquid.

3. PRODUCT FEATURES

The 58L Industrial Ultrasonic Cleaner is equipped with advanced features for optimal cleaning performance:

- **Large Capacity:** Spacious 58-liter tank (Inner Size: 550*350*300mm) suitable for large items or multiple smaller items.
- **Adjustable Ultrasonic Power:** Selectable frequencies of 40KHz or 28KHz, with adjustable power from 400W to 1080W, allowing customization for different cleaning tasks.
- **Heating Function:** Integrated heating element with temperature control from 20°C to 80°C for enhanced cleaning efficiency.
- **Durable Construction:** Made with 2.0 thickness stainless steel for the body, cover, tank, and basket, ensuring longevity and resistance to corrosion.
- **User-Friendly Interface:** Intuitive control panel with clear digital displays for temperature and timing.
- **Safety Protections:** Features overheat protection and a cooling fan for safe operation.
- **Moisture-Proofed PCB:** Designed for durability in industrial environments.
- **Accessories:** Comes with a tank cover, basket, and drainage valve for convenience.

4. SPECIFICATIONS

Parameter	Value
Ultrasonic Frequency	40KHz / 28KHz (Selectable)
Ultrasonic Power	1080W (Adjustable range: 400W-1080W)
Heater Power	1000W
Temperature Display Range	20~80°C
Timing Display Range	1-30 minutes
Power Supply	220-240 Volts AC, 50 Hz
Tank Inner Size (L*W*H)	550*350*300mm
Overall Outer Size (L*W*H)	650*410*530mm
Net Weight	45KG
Gross Weight	65KG
Tank Material	2.0 thickness Stainless Steel

5. SETUP

1. **Unpacking and Inspection:** Carefully remove the ultrasonic cleaner from its packaging. Inspect the unit for any signs of damage during transit. Report any damage to the supplier immediately. Ensure all accessories (lid, basket, drain valve) are present.
2. **Placement:** Place the unit on a firm, level, and stable surface capable of supporting its weight when filled. Ensure there is adequate space around the unit for ventilation and easy access to controls and the drain valve. Avoid placing it near heat sources or in direct sunlight.
3. **Power Connection:** Ensure the power switch is in the OFF position. Connect the power cord securely to the unit's power inlet and then to a grounded electrical outlet that matches the specified voltage (220-240V AC, 50Hz).
4. **Filling the Tank:** Open the lid. Fill the stainless steel tank with an appropriate ultrasonic cleaning solution. Ensure the liquid level is between the MIN and MAX fill lines, typically covering the items to be cleaned. Do not overfill to prevent spillage during operation.



Figure 2: Side view of the ultrasonic cleaner with its lid open, revealing the spacious internal tank ready for filling.

6. OPERATING INSTRUCTIONS

1. **Power On:** After filling the tank, close the lid and turn on the main power switch. The digital display will illuminate.
2. **Set Temperature (Optional):** Press the 'Temp' button and use the '+' and '-' buttons to set the desired cleaning solution temperature (20-80°C). The heating indicator will light up, and the unit will begin heating.
3. **Set Cleaning Time:** Press the 'Time' button and use the '+' and '-' buttons to set the desired

cleaning duration (1-30 minutes).

4. **Select Ultrasonic Frequency:** The unit offers 40KHz and 28KHz frequencies. Select the appropriate frequency based on the items being cleaned. 40KHz is generally suitable for delicate items and intricate cleaning, while 28KHz provides stronger cavitation for heavy-duty cleaning of robust items.
5. **Place Items:** Carefully place the items to be cleaned into the provided stainless steel basket. Lower the basket into the tank, ensuring items are fully submerged but not touching the bottom of the tank. Avoid overcrowding the basket.



Figure 3: Top view of the cleaner with the internal basket positioned inside the tank, ready for items.

6. **Start Cleaning:** Press the 'Ultrasonic' button to start the ultrasonic cleaning process. The ultrasonic indicator will light up.
7. **Monitor Progress:** The timer will count down. You can observe the cleaning process through the lid.
8. **End of Cycle:** Once the timer reaches zero, the ultrasonic action will stop automatically. The heating element will continue to operate if set, until manually turned off or unplugged.
9. **Remove Items:** Carefully lift the basket out of the tank. Rinse the cleaned items with clean water and dry them thoroughly.
10. **Draining the Tank:** When cleaning is complete and the solution needs changing, place a suitable container under the drain valve located on the side of the unit. Open the drain valve to empty the tank. Close the valve once empty.



Figure 4: Angled view of the ultrasonic cleaner, clearly showing the drain valve for convenient liquid disposal.

7. MAINTENANCE

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

- **Draining and Refilling:** Change the cleaning solution regularly, especially when it becomes visibly dirty or its cleaning effectiveness diminishes. Always drain the tank completely before refilling with fresh solution.
- **Tank Cleaning:** After draining, wipe the inside of the tank with a soft cloth to remove any residue. For stubborn deposits, use a mild, non-abrasive cleaner. Rinse thoroughly with clean water.
- **Exterior Cleaning:** Wipe the exterior of the unit with a damp cloth. Do not use abrasive cleaners or immerse the unit.
- **Basket Maintenance:** Clean the stainless steel basket regularly to prevent buildup that could affect cleaning performance.
- **Storage:** When not in use for extended periods, ensure the tank is empty and dry. Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your ultrasonic cleaner, refer to the following common problems and

solutions:

Problem	Possible Cause	Solution
Unit does not power on	No power supply; Power cord loose; Main switch off	Check power outlet; Ensure power cord is securely plugged in; Turn main switch ON
No ultrasonic action	Ultrasonic button not pressed; Timer not set; Tank underfilled	Press 'Ultrasonic' button; Set cleaning time; Ensure liquid level is adequate
Poor cleaning results	Incorrect cleaning solution; Solution too old/dirty; Items overcrowded; Incorrect frequency/power setting	Use appropriate solution; Change solution; Clean fewer items at a time; Adjust frequency/power
Heating not working	Temperature not set; Heating element malfunction	Set desired temperature; Contact customer support if issue persists
Unusual noise or vibration	Unit not level; Items touching tank bottom/sides; Internal issue	Ensure unit is on a level surface; Reposition items in basket; Discontinue use and contact support

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

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Canglan Technology 58L Industrial Ultrasonic Cleaner, please refer to the warranty card included with your purchase or contact Canglan Technology directly through their official website or the seller's contact information. Please have your product model number (58L Industrial Ultrasonic Cleaner) and purchase details ready when contacting support.