

DEMA USR 2200/170 E

DEMA USR 2200/170 E Ultrasonic Cleaner Instruction Manual

Model: USR 2200/170 E

1. INTRODUCTION

The DEMA USR 2200/170 E Ultrasonic Cleaner is designed for thorough and gentle cleaning of various items, particularly those with stubborn dirt or in inaccessible areas. It utilizes ultrasonic waves to create cavitation, a process involving the formation and dissolution of microscopic vapor bubbles in liquid. When these bubbles collapse, they generate powerful micro-jets that dislodge dirt particles from the surface of the items, ensuring deep and detailed cleaning.

This manual provides essential information for the safe and effective operation, setup, and maintenance of your ultrasonic cleaner.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read all safety instructions carefully before operating the device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power supply matches the voltage specified on the device (230 V, 50 Hz). Do not operate the unit with a damaged power cord or plug. Do not immerse the main unit in water. Always unplug the device when not in use, before filling or emptying the tank, or before cleaning.
- **Water and Liquids:** Use only water or approved ultrasonic cleaning solutions in the tank. Do not use flammable, corrosive, or abrasive liquids. Ensure the liquid level is between the MIN and MAX marks.
- **Heat Warning:** The unit features an integrated heating function. The tank and liquid can become hot (40-50 °C). Exercise caution when handling the unit during or after operation.
- **Overload Protection:** The device is equipped with overload protection. If the unit stops unexpectedly, unplug it and allow it to cool before attempting to restart.

- **Children and Pets:** Keep the device out of reach of children and pets. This appliance is not intended for use by persons with reduced physical, sensory, or mental capabilities unless supervised.
- **Proper Use:** Use the device only for its intended purpose as an ultrasonic cleaner. Do not attempt to disassemble or repair the unit yourself. Contact qualified service personnel for repairs.

3. PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the main parts of your DEMA USR 2200/170 E Ultrasonic Cleaner:

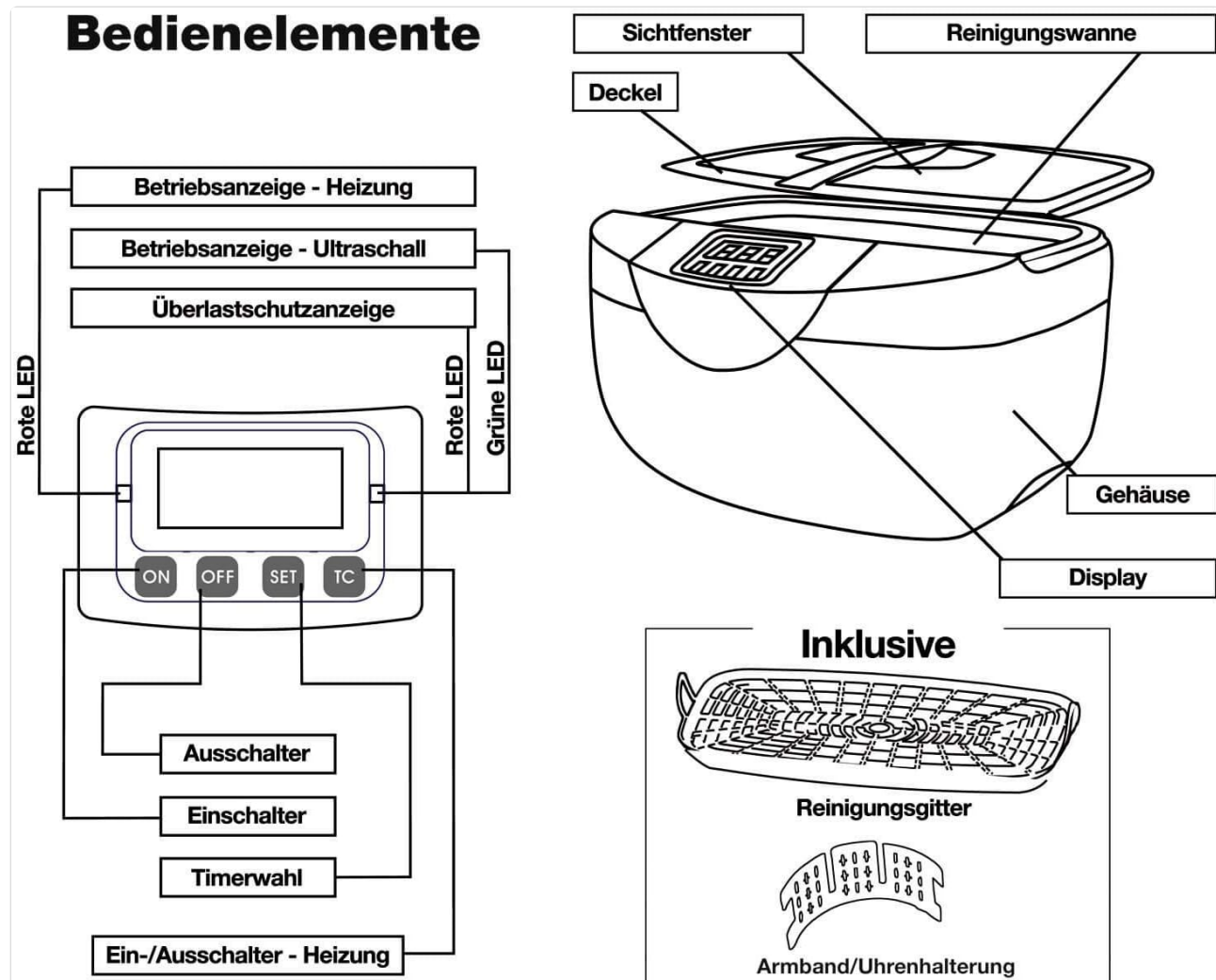


Figure 1: Diagram illustrating the main components of the ultrasonic cleaner, including the viewing window, lid, cleaning tank, housing, display, and control buttons (ON, OFF, SET, TC) with corresponding indicator LEDs for heating, ultrasound, and overload protection. It also shows the included cleaning basket and watch/bracelet holder.

- **Lid:** Transparent lid to cover the cleaning tank during operation.
- **Cleaning Tank:** Made of SUS 304 stainless steel, where items are placed for cleaning.
- **Control Panel:** Features a digital display and buttons for ON, OFF, SET (timer), and TC (temperature control/heating).
- **Indicator LEDs:** Red LED for heating status, Green LED for ultrasonic working status, and an indicator for overload protection.
- **Cleaning Basket:** A removable plastic basket to hold items during cleaning, preventing them from resting directly on the tank bottom.

- **Watch/Bracelet Holder:** A specialized attachment for cleaning watches and bracelets within the basket.



Figure 2: Top view of the DEMA USR 2200/170 E Ultrasonic Cleaner with the lid open, revealing the stainless steel cleaning tank and the white plastic cleaning basket in place.



Figure 3: The DEMA USR 2200/170 E Ultrasonic Cleaner with the cleaning basket removed, providing a clear view of the stainless steel tank interior and the attached power cord.

4. SPECIFICATIONS

Feature	Specification
Brand	DEMA
Model	USR 2200/170 E
Input Voltage	230 V (50 Hz)
Input Power	170 W (90 W heating power)
Ultrasonic Frequency	35,000 Hz
Heating Temperature	40 - 50 °C
Cleaning Tank Material	SUS 304 Stainless Steel
Housing Material	ABS 757
Device Dimensions (L x W x H)	29 (32 with plug) x 23 x 16.5 cm
Cleaning Tank Dimensions (L x W x H)	24.5 x 14 (min. 12) x 8 cm
Cleaning Tank Volume	2600 ml
Maximum Liquid Volume	2200 ml
Minimum Liquid Volume	700 ml
Digital Timer Levels	5 levels: 90s, 180s, 280s, 380s, 480s
Weight	Approx. 2.7 kg

5. SETUP

- Unpack:** Carefully remove the ultrasonic cleaner and all accessories from the packaging. Retain packaging for future storage or transport.
- Placement:** Place the unit on a stable, flat, and dry surface, away from heat sources and direct sunlight. Ensure there is adequate ventilation around the unit.
- Power Connection:** Ensure the unit is unplugged before proceeding.
- Insert Basket:** Place the cleaning basket into the stainless steel tank.

6. OPERATING INSTRUCTIONS

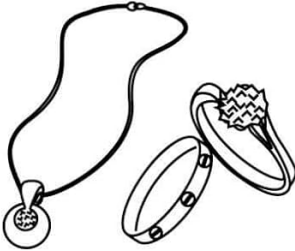
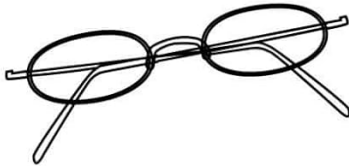


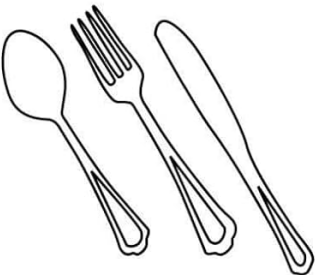
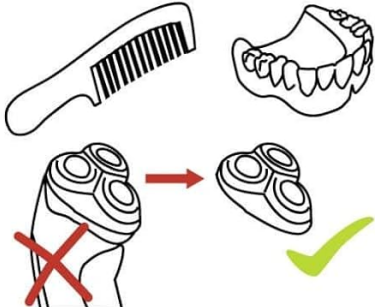
6.1 Filling the Tank

1. Open the lid.
2. Fill the stainless steel tank with water or a suitable ultrasonic cleaning solution. Ensure the liquid level is between the 'MIN' (700 ml) and 'MAX' (2200 ml) marks indicated inside the tank. Do not overfill or underfill.
3. Close the lid.

6.2 Placing Items for Cleaning

1. Place the items to be cleaned into the cleaning basket. For delicate items like watches, use the provided watch/bracelet holder.
2. Ensure items are fully submerged in the cleaning solution but do not touch the bottom of the tank directly.
3. Avoid overcrowding the basket, as this can reduce cleaning efficiency.

Geeignet für folgende Materialien

Schmuck	Brillen	Uhren*
		
Metallteile	Besteck	Gebrauchsgüter
		

*** Nur für Wasserdichte Uhren geeignet**

Figure 4: Diagram illustrating various items suitable for ultrasonic cleaning, including jewelry, glasses, metal parts, cutlery, and general household items. It also specifies that only waterproof watches should be cleaned.

Suitable Items for Cleaning: Jewelry, glasses, waterproof watches, metal parts, cutlery, and various small household items. **Note: Only clean waterproof watches.**

6.3 Setting the Timer

1. Plug the power cord into a grounded electrical outlet. The digital display will illuminate.
2. Press the 'SET' button repeatedly to cycle through the 5 preset cleaning times: 90s, 180s, 280s, 380s, 480s. Select the desired cleaning duration.

6.4 Using the Heating Function

1. Press the 'TC' button to activate the heating function. The red 'Heat' LED will light up.
2. The unit will heat the liquid to a temperature between 40-50 °C. Heating can improve cleaning effectiveness for certain items.
3. Press 'TC' again to turn off the heating function.

6.5 Starting and Stopping Cleaning

1. After setting the timer and optionally activating heating, press the 'ON' button to start the ultrasonic cleaning process. The green 'Working' LED will light up.
2. The unit will automatically stop when the selected timer duration expires.
3. To stop cleaning manually before the timer expires, press the 'OFF' button.
4. After cleaning, unplug the unit and carefully remove the cleaning basket with the cleaned items. Rinse items under clean water if necessary and dry them thoroughly.

7. MAINTENANCE AND CLEANING

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

- **Draining the Tank:** After each use, especially if using cleaning solutions, unplug the unit and carefully pour out the liquid from the tank. Avoid spilling liquid onto the control panel or housing.
- **Cleaning the Tank:** Wipe the stainless steel tank with a soft, damp cloth. Do not use abrasive cleaners or scouring pads, as these can scratch the surface.
- **Cleaning the Housing:** Wipe the exterior housing with a soft, dry, or slightly damp cloth. Do not use harsh chemicals.
- **Cleaning Accessories:** Rinse the cleaning basket and watch/bracelet holder with clean water and allow them to air dry.
- **Storage:** Store the unit in a cool, dry place, away from direct sunlight and moisture. Ensure the tank is empty and dry before storage.

8. TROUBLESHOOTING

If you encounter any issues with your DEMA USR 2200/170 E Ultrasonic Cleaner, please refer to the following table before contacting customer support.

Problem	Possible Cause	Solution
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Unit does not turn on	No power supply; Power cord not properly connected; Overload protection activated.	Check power outlet and cord connection. Unplug and wait for 10-15 minutes for overload protection to reset.
Cleaning not effective	Insufficient cleaning solution; Items overcrowded; Incorrect cleaning time; Items not suitable for ultrasonic cleaning.	Ensure liquid level is correct. Clean fewer items at a time. Increase cleaning time. Use appropriate cleaning solution. Verify items are suitable (refer to Section 6.2).
Heating function not working	Heating not activated; Malfunction.	Press the 'TC' button to activate heating (red LED should light up). If still not working, contact customer support.
Unit stops during operation	Timer expired; Overload protection activated.	This is normal if the timer has finished. If not, unplug and allow the unit to cool for 10-15 minutes.

9. WARRANTY AND SUPPORT

DEMA products are manufactured to high-quality standards. For warranty information or technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for any warranty claims.

For further assistance, please visit the official DEMA website or contact their customer service department.