

Duradent®

Instructions for Use (IFU)

Ultrasonic Bath for Dental Applications

Manufacturer: May Dişçilik Malz. ve Tıbbi Cih. ve Malz. Bil. İşl. San. Tic. Ltd. Şti.

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Product Name:

Ultrasonic Bath (Model: Duradent DP-DB2A32L001 & Duradent DP-D3B65L001 & Duradent DP-DB4A10L001 & Duradent DP-DB4A22L001 & Duradent DP-DB4A30L001)

Intended Use:

The Ultrasonic Bath is intended for the cleaning and pre-sterilization preparation of dental instruments and materials. It effectively removes debris, contaminants, and biological residues through ultrasonic waves, ensuring thorough and consistent cleaning results.

Target Users:

This device is intended for use by dental professionals, including dental clinicians, dental technicians, and other personnel involved in instrument sterilisation and preparation.

1. Components of the Ultrasonic Bath

The package includes the following components:

- (1) Lid
- (2) Tank
- (3) Ultrasonic Bath Unit
- (4) Power Cord
- (5) Stainless Steel Basket
- Drain Valve (Model: DP-D3B65L001 & DP-DB4A10L001 & DP-DB4A22L001 & DP-DB4A30L001)
- User Manual



Please verify that all components are present before use. If any parts are missing or damaged, contact the manufacturer.

2. Safety Precautions

Before using the Ultrasonic Bath, please read and follow these safety instructions:

1. **Electrical Safety:**
 - Always connect the unit to a grounded electrical outlet.
 - Do not use the Ultrasonic Bath if the power cord is damaged.
 - Disconnect the power supply before cleaning, servicing, or maintaining the unit.
 2. **Water Safety:**
 - Ensure the water level in the tank is above the "MIN" level mark but does not exceed the "MAX" level.
 - Only use water or recommended cleaning solutions in the bath. Never use flammable or corrosive liquids.
 - Avoid immersing the unit's electrical parts in water.
 3. **Operation Safety:**
 - Use only approved dental instruments that are safe for ultrasonic cleaning.
 - Wear appropriate protective equipment, such as gloves and safety glasses, during operation.
 - Do not touch the liquid in the tank during operation to avoid potential injury.
 4. **Environmental Safety:**
 - Operate the device in a well-ventilated area.
 - Dispose of any used cleaning solutions according to local regulations.
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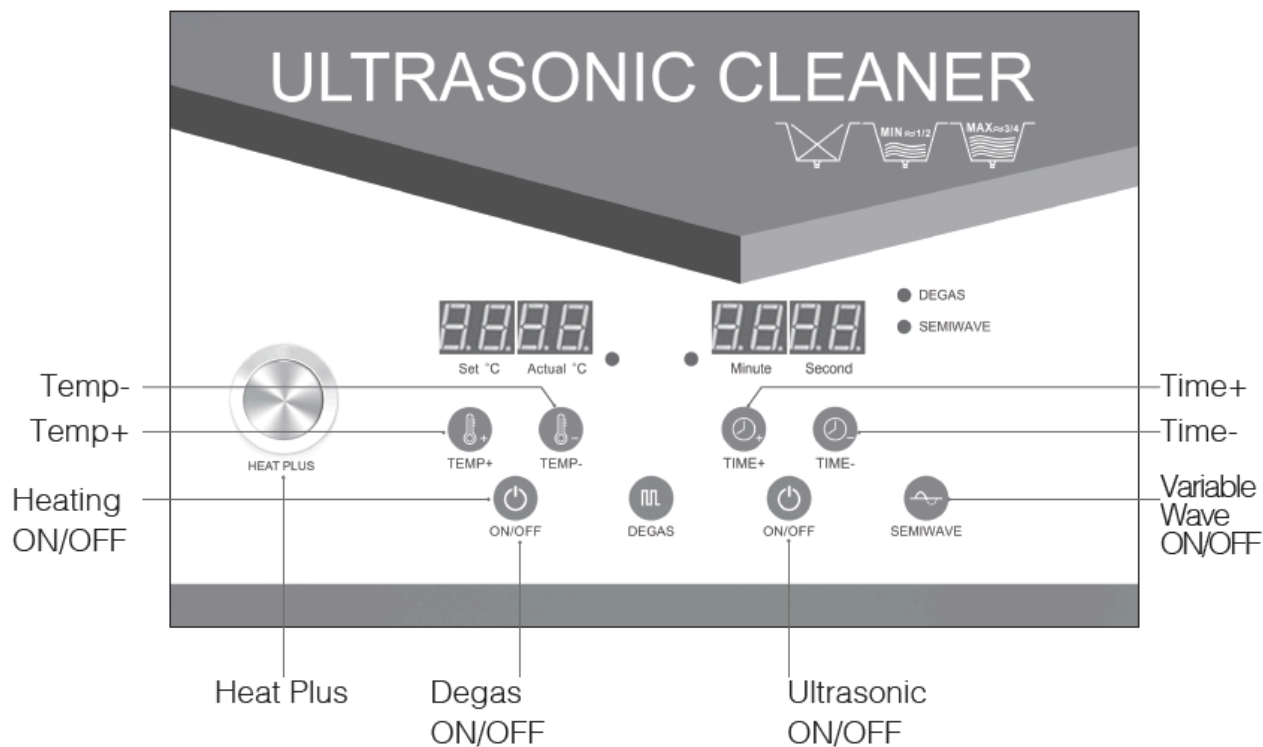
3. Device Setup and Installation

1. **Placement:**
 - Place the Ultrasonic Bath on a stable, flat surface near a grounded power outlet.
 - Ensure the area is free from excess moisture and away from direct sunlight.
 2. **Filling the Tank:**
 - Fill the tank with clean water, ensuring the water level is between the "MIN" and "MAX" level indicators.
 - If using a cleaning solution, mix it with water in the recommended proportions as per the cleaning agent's instructions.
 3. **Connecting Power:**
 - Attach the power cord to the unit and plug it into the outlet.
 - Ensure the power switch is in the "OFF" position before connecting the power.
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4. Operation Instructions

Step 1: Loading the Instruments

- Place dental instruments into the stainless steel basket.
- Ensure instruments are properly spaced to allow optimal exposure to ultrasonic waves. Avoid overloading the basket, as this may reduce cleaning efficiency.



Step 2: Setting the Timer and Temperature

- **Timer Settings:**
 - Set the timer to the desired cleaning duration. Typical cleaning cycles range from 5 to 10 minutes, depending on the level of contamination.
 - Default time is "05 00". Press "TIME+" once to increase time by 1 minute. Press "TIME-" once to decrease time by 1 minute.
 - Press "ON/OFF" after time setting and ultrasonic indicator light on, machine works follow the setting parameter and stop work when time counts down to "00 00", then indicator light off.
- **Temperature Settings:**
 - Set the desired temperature (between 40°C and 60°C is commonly used for effective cleaning).
 - Temperature display panel shows "50" and actual detergent temp. Press "TEMP+" to increase setting temperature by 1°C, press "TEMP-" to decrease setting temperature by 1°C.
 - Press "ON/OFF" to start heating function and heater indicator on, actual temperature number will blazng by 1Hz Frequency during heating process, heater indicator light will turn off when temperature reaches the setting temperature.
- **Degas:**
 - After time settetd, press the "DEGAS" button to switch into degassing mode, then the machine will work alternately by semi-wave for 5s then full wave for 5s, it can exhaust air and prevent oxidation.

- **Semiwave:**
 - After time setted, press the "ULTRASONIC" button to switch into full wave working.
 - Press the "SEMIWAVE" button, device switch into half wave working, ultrasonic power output reduces by half, but the ultrasound strength only reduces by 20%, this mode is good for fine cleaning and low power operation requirements.

Step 3: Start the Cleaning Cycle

- Close the lid of the Ultrasonic Bath to reduce noise and prevent splashing.
- Press the "Start" button to initiate the ultrasonic cleaning process.
- Monitor the cleaning process to ensure proper functioning of the unit.

Step 4: End of the Cycle

- When the timer ends, the device will automatically stop.
- Open the lid and carefully remove the basket from the tank.
- Rinse the instruments under clean running water to remove any remaining residues or cleaning agents.

5. Post-Use Maintenance

1. **Draining the Tank:**
 - After use, unplug the unit and allow the water to cool.
 - Drain the tank using the drain valve (Model: DP-D3B65L001 & DP-DB4A10L001 & DP-DB4A22L001 & DP-DB4A30L001) or by carefully pouring out the water.
2. **Cleaning the Unit:**
 - Wipe down the tank and external surfaces of the Ultrasonic Bath with a soft, damp cloth.
 - Do not use abrasive cleaners or immerse the unit in water.
3. **Storage:**
 - Store the Ultrasonic Bath in a dry and clean environment when not in use.
 - Ensure the power cord is stored neatly and the lid is closed to protect the interior.

6. Troubleshooting

Problem	Possible Cause	Solution
Device will not turn on	Power cord not connected	Ensure the power cord is plugged in and outlet is functional
Weak cleaning effect	Overloaded basket or insufficient water level	Reduce the number of instruments and ensure the water level is appropriate
Excessive noise during operation	Loose components or insufficient water	Check for loose items and ensure the water level is correct

For any issues not covered in this table, please contact Erk Digital Customer Support.

7. Warranty and Service

The Ultrasonic Bath comes with a one year warranty from the date of purchase, covering manufacturing defects. The warranty does not cover damage caused by misuse, accidents, or unauthorised repairs.

For warranty claims or service inquiries, please contact Erk Digital at info@erkdigital.com.tr.

8. Disposal Instructions

At the end of its useful life, dispose of the Ultrasonic Bath in accordance with local regulations for electronic waste. Do not dispose of it into the household waste.

9. Product Specifications

	MODEL				
	Duradent DP-DB2A32L001	Duradent DP-D3B65L001	Duradent DP-DB4A10L001	Duradent DP-DB4A22L001	Duradent DP-DB4A30L001
Capacity (L)	3.2	6.5	10	22	30
Frequency (KHz)	40	40	40	40	40
Ultrasonic Power (W)	60 / 120	90 / 180	120 / 240	240 / 480	300 / 600
Heating Power (W)	150	300	300	500	500
Tank Size (L x W x H mm)	240 x 135 x 100	300 x 150 x 150	300 x 240 x 150	500 x 300 x 150	500 x 300 x 200
Unit Size (L x W x H mm)	265 x 165 x 230	325 x 175 x 270	325 x 265 x 275	530 x 330 x 280	530 x 330 x 330
Temp. (°C)	20 - 80	20 - 80	20 - 80	20 - 80	20 - 80
Timer (min.)	0 - 30	0 - 30	0 - 30	0 - 30	0 - 30

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