



Benchtop Ultrasonic Cleaner

LB-24BUC

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1. Safety Measures



Keep it away from children!

This device is not intended to be used by individuals with restricted physical sensory or mental capacities or those with a lack of experience or knowledge, including children, unless they are supervised by capable supervisors or trained professionals.

To avoid electrical shock:

- 1) DO NOT run the cleaner continuously for more than one hour at a time, as doing so can damage the internal components.
- 2) DO NOT operate the unit without fluid in the tank. Always ensure the fluid is no higher than the max mark, always ensure there is a minimum depth of 7cm.
- 3) DO NOT drop any item into the tank as this may cause damage to the transducer. Always place the items gently into the tank and use the basket whenever possible.
- 4) The more items that you place in your cleaning bath the less efficient it will clean. It is not advised to overlap items. Always allow plenty of clear space between the items.
- 5) Do keep the lid on during use. This will prevent splashes and reduce evaporation of the fluid.
- 6) Never immerse the machine or power cord in water or other liquid.
- 7) DO NOT touch the power plug with wet hands, especially when inserting or removing the plug.
- 8) DO NOT touch the unit if the machine has fallen into the water during operation. Remove the power plug from the socket first.
- 9) DO NOT disassemble the machine, except by professionals.
- 10) UNPLUG the power source while filling or emptying the tank.
- 11) DO NOT spray water or liquid over the device and the control panel.
- 12) DO NOT operate the cleaner without proper grounding.
- 13) DO NOT place the device on a soft surface, where the vents could be blocked.
- 14) Upon completion of the cleaning cycle, turn the heater knob off and isolate the machine from the electrical supply.
- 15) Take care when adding or removing items from the cleaning tank as the fluid is likely to be hot and displaced fluid can damage the internal components. Any displaced fluid must be dried up immediately.
- 16) In the event of failure/emergency, disconnect the mains supply by removing the plug from the mains socket.



Attention

When the machine is working normally, ultrasonic and tank syntonny gives a well-proportioned sound, and no shudder on the surface of the water, yet there is a spray made by the tiny bubbles. If there are discontinuous surges, add or release a little washing solution in the tank, stopping the surges is better for the object cleaning.

2. Introduction

Benchtop Ultrasonic Cleaner LB-24BUC is a robust tanked structure with a capacity of 6 L. It sweeps the ultrasonic frequency of 40 kHz which creates waves in the tank water in order to clean out lab wares and apparatus. It is equipped with a digital display and a thermostat that provides a maximum temperature of 80°C.

3. Features

1. Stainless steel tank and moisture-proof design
2. High Q transducer
3. Digital sweep generator for constant electronic waves
4. Anti-corrosion treatment with stainless steel interiors

4. Specifications

Model No.	LB-24BUC
Capacity	6 L
Tank dimensions (L × W × H)	240 × 135 × 150 mm
Heating Power	100 W
Frequency	40 kHz
Timing	1 min ~ 30 min
Power supply	AC 220 ~ 240V; 50 Hz / 60 Hz
	AC 110 ~ 120V; 50 Hz / 60 Hz
Weight	3.9 kgs

5. Applications

Used for cleaning irregular and complex instruments, lenses and other optical parts, dental and surgical instruments, and electronics.

6. Instrument Introduction

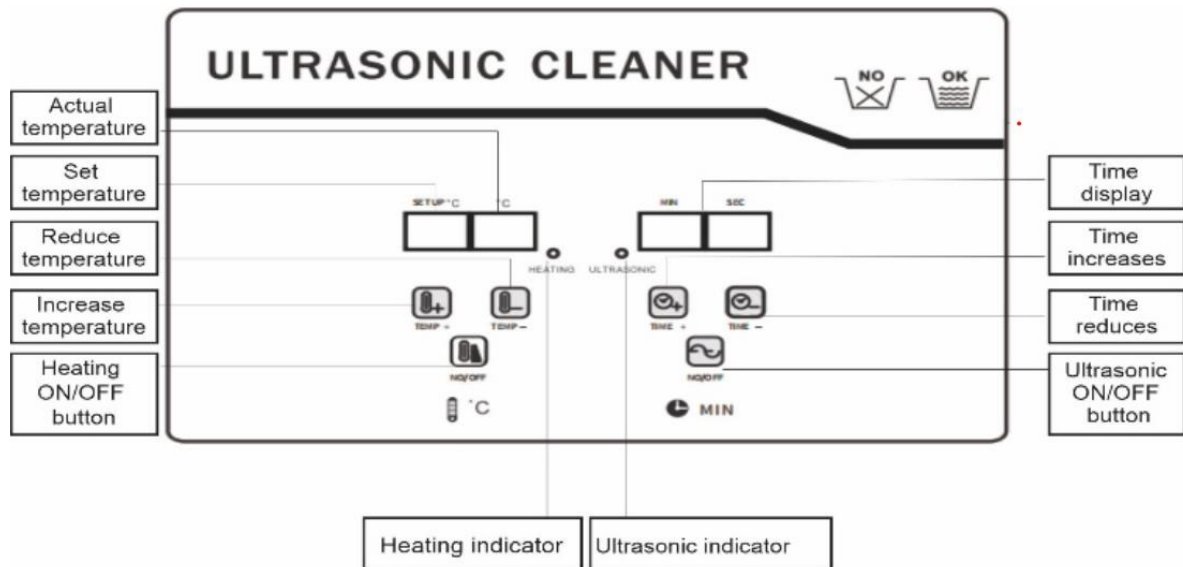


Figure-1

Attention

- 1) When the Benchtop ultrasonic cleaner is in normal operation, the uniform sound of the ultrasonic resonance with the tank should be heard, and there is no agitation on the surface of the cleaning liquid to eliminate the agitation for beneficial to cleaning objects.
- 2) Do not keep continuously working for more than 60 minutes.
- 3) Do not ever use alcohol, gasoline, or flammable solutions. Doing so could cause a fire or explosion. Use only water-based solutions.
- 4) Do not turn on the heating and Benchtop ultrasonic cleaner, when there is no liquid in the tank.
- 5) Prevent cleaning fluid or water from splashing into the machine and transducers. It will cause the machine to leak, an electrical short circuit, and cause the piezoelectric ceramic of the transducers to burn out.

7. Installation

- 1) Carefully unpack the cleaner and remove all traces of packing materials from it.
- 2) Visually inspect the cleaner for any parts that may have become loose or damaged during transit.

Items	Quantity
Benchtop Ultrasonic Cleaner	1 Set
Power cord	1 Set
User Manual	1 Copy

- 3) Place the cleaner on a flat, clean surface where the cooling fans will receive adequate ventilation, and ensure all controls are set to off. Also, ensure the drain tap is in the closed position.
- 4) Ensure the power cord is securely plugged into the cleaner and that no part is likely to come into contact with moisture.
- 5) Carefully fill at least $\frac{1}{2}$ of the tank with a solvent solution. For demanding cleaning we recommend a small amount of washing-up liquid, this will help increase the cleaning performance. The cleaner is now ready for use.

8. Operations

Operational Guidelines

Step	Action
1.	Select your cleaning solution, and fill at least $\frac{1}{2}$ of the solution into the tank. Do not exceed the filling line. Note: Do not ever use alcohol, gasoline, or flammable solutions. Doing so could cause a fire or explosion. Use only water-based solutions.
2.	Place the items into a basket, slowly lower the basket into the tank, and do not allow items to contact the tank bottom (the solution should cover the items).
3.	Plug the cleaner into the grounded outlet. After the power is on, the temperature display is the environment temperature. The temperature default setting is 25°C, time default setting is 5 minutes.
4.	Time setting: Press the "TIME+" or "TIME-" button to setting 1-30 the cleaning time. Each pressing increases / reduces the time by 1 minute.
5.	Temperature setting: Press the "TEMP+" button to set the temperature, each pressing increases the temperature by 1°C. Press and hold this button, the temperature can be adjusted continuously. Press the "TEMP-" button to reduce the temperature. Each pressing reduces the temperature by 1°C. Press and hold this button, the temperature can be reduced continuously. (When the temperature is lower than the actual temperature, the operation is invalid. When the temperature reaches the set temperature, the heating indicator light turns off. When the ultrasonic is working, the temperature displayed on the panel is the actual temperature of the liquid)
6.	After the time and temperature settings, press the ON/OFF button to start both functions.



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