



KLABS-KUB-3.2 Ultrasonic Bath



Working Principal

Ultrasonic cleaner is based on cavitation effect caused by high frequency ultrasonic sound vibrations in liquid, vacuum are formed in the liquid and the steam or air enters the vacuum make it produces millions of tiny bubbles that implode violently by the alternating high and low pressure waves generated by high frequency ultrasonic sound. Collapse of millions of tiny bubbles brings great impact (about 100 atmospheric pressures) to the surface of the object you are cleaning. The dirty are emulsified and removed thoroughly and consistently.

As one of the principal applications of ultrasonic wave, the ultrasonic cleaner has a strong dirt-removing capacity and offers wonderful cleaning effect. Ultrasonic cleaner has been widely used to clean optical instrument parts, timepiece parts, mini-bearing, electrical vacuum units, semi-conductor devices, missile guidance system, part from filament drawing membranes, spinning nozzle for the chemical fiber production, medical syringe needle, oiler throttle nozzle, etc. besides the usage for high quality cleaning, ultrasonic cleaner is also used to perform ultrasonic pulverization, debarring, emulsification, mixing, removing of oxidized iron covering, acceleration to chemical reaction, etc.

Using Guide

- Before using it, you should check whether the voltage of the machine is the same or not.
- Inspect that if the power supply is normal.
- Put the machine into the stable place.
- Input proper washing liquor.
- Connect to the power supply.
- Turn on the power supply, the LCD display lights up.
- Cut off the power supply after using.
- After use, turn off the detergent and prevent damage.

Warning

- Do not operate if the tank is empty.
- When add or change water or detergent, the power must be turned off and disconnected.
- Corrosive or inflammable solution as washing fluid is prohibited to prevent from damage or danger.
- Water level should be 1/2 to 2/3 of the tank.
- Make sure the machine is well grounded.
- Under normal condition, the machine heats up automatically after operating continuously for 10 to 15 minute. In no case should the working temperature be over 45°C.



Technical Specifications

Parameter	Specification
Voltage	AC110V/220V 50Hz/60Hz
Ultrasonic Frequency	40/80KHz
Ultrasonic power	10%—100%
Timer range	0~99MIN
Heating range	0~100°C
Clean mode	Silent, Stard, Degas
Working hours	8 hours



Model

No	Model	Outer Dimension L×W×H(mm)	Tank Dimension L×W×H(mm)	Cubage (L)	Power (W)
1	KUB-120DM-3.2L	280×170×240	240×140×100	3.2	120
2	KUB-140DM-4.3L	280×170×290	240×140×150	4.3	140
3	KUB-180DM-6.5L	340×180×290	300×155×150	6.5	180
4	KUB-240DM-10L	325×265×290	300×240×150	10	240
5	KUB-280DM-14L	325×265×340	300×240×200	14	280
6	KUB-420DM-20L	354×325×400	330×300×200	20	420
7	KUB-600DM-22L	530×330×355	500×300×150	22	600
8	KUB-800DM-30L	530×330×420	500×300×200	30	800

Operation Panel Indications

- Add some detergent to 2/3 of the tank. “D” sound will indicate that the machine is working.
- Press the power button to turn on the machine.
- Press the knob, the Time digit can set cleaning time. “01-99” Means minutes, if time “00”, it means you plan to cleaning all the time.
- Press the knob again. The Power digit can set the cleaning power. Set range: 0-100%.
- Press the knob again, the TEMP digit can set the temperature. Set range: 0-100°C.
- Press the knob again, the FREQ digit can set the frequency. Set value: 40KHz.
- Press setting these parameter can display on the screen.
- Press the Mode button, to choose modes are optional.
- After setting all function, press the heating button, the heating indicate light up, indicated that machine is heating.
- Press the Ultrasonic button, the machine ultrasonic is on working according to the setting value.
- Cleaning is finished, please turn off the power, the machine is in standby state, the LCD screen will be protected itself.