



ULTRASONIC CLEANER KBUS0320

USER MANUAL



Authorized Representative

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FEATURES

Stainless steel housing, tank and lid.

Stamp tank without welding gap for better waterproof.

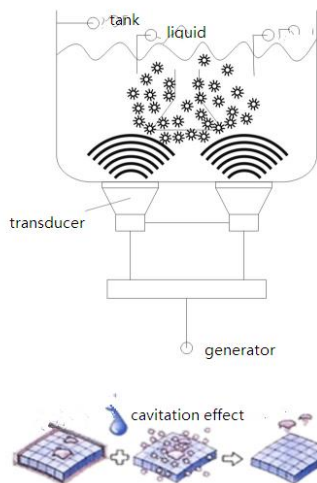
Cooling fan

Moisture-proofed PCB

Industrial grade IC & ultrasonic transducer

Thank you for purchasing the ultrasonic cleaner. Please take the time to read these operating instructions before use and retain them for future reference. Failure to follow these instructions may lead to serious personal injury and damage to property.

ULTRASONIC PRINCIPLE



Ultrasonic cleaning is based on the cavitation effect caused by high frequency ultrasonic wave vibration signal in the fluid. Microscopic bubbles are formed, and they implode violently causing the cavitation which creates an intense scrubbing action on the surface of the item being cleaned. The bubbles are small enough to penetrate microscopic crevices, cleaning them thoroughly and consistently.

Ultrasonic cleaning is extremely effective at removing dirt and grime which would normally require tedious manual cleaning by hand. It has been used to clean a wide variety of instruments and mechanical parts such as carburetors, returning them to almost "like new" condition without damage to delicate parts.

PREPARATION:

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

Contents:

- a: Main machine
 - b: Sound proof lid.
 - c: Power lead
 - d: Outlet filter
 - e: Mesh basket (Optional)
 - f: Manual
2. 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.
 3. Ensure the power lead is securely plugged into the cleaner and that no part of the lead is likely to come into contact with moisture.

4. Carefully fill at least 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.

 **Attention**

- a) While 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 spray made by the tiny bubbles. If there are discontinuous surges, please add or release a little of washing solution in the tank, stopping the surges is better for the objects cleaning.
- b) On the condition of making sure the cleaning object is cleaned, please run the machine discontinuously as far as possible(not more than 30min.),for long-time running will cause temperature increment of the case .

SAFETY PRECAUTIONS

This unit's voltage is :

Keep it away from children !

This device is not intended to use by individuals with restricted physical sensory or metal



capacities or those with lack of experience or knowledge, include children, unless they are supervised by an individual who is responsible for their safety or have received training in operating the device .

Please read the following very carefully as failure to comply may invalidate your guarantee



- 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 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) Always turn the heater off after using as leaving it on can cause the fluid to evaporate and damage the internal components.
- 15) Upon completion of the cleaning cycle, turn the heater button off and isolate the machine from the electrical supply.
- 16) 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.
- 17) In the event of failure/emergency, disconnect the mains supply by removing the plug from the mains socket.

APPLICATIONS

This list is almost endless. Provided the product is non porous and can normally be immersed in water almost anything can be thoroughly cleaned. Here are some examples:

- Jewellery especially gold, silver & platinum
- Watchstraps
- Coins and other collectibles
- PCB Boards etc
- Engine/Model parts
- Toothbrushes & Dentures
- Electrical components
- Make-up cases
- Diesel injection pumps
- Printer heads and toner cartridges
- Motorcycle radiators
- Vehicle differentials
- Milking parlour equipment
- Golf clubs&grips&golf balls
- Horse bits&stirrups &horse brasses
- Tattoo needles
- Surgical equipment
- Motorcycle engine crank cases
- Engine cylinder heads
- Turbochargers
- Bicycle derailleurs
- Knives, bayonets and other militaria
- Gun and gun components

Ultrasonic cleaning is not recommended for the following gemstones: Opal, Pearl, Emerald, Tanzanite, Malachite, Turquoise, Lapis and Coral.

DIGITAL ULTRASONIC CLEANER STRUTURE AND ACCESSORIES

OPERATION

1. Fill stainless steel tank with liquid; Plug the cleaner into grounded outlet; After powing on, The temperature displays the actual enviroment temperature, LED displays 3 minutes, which is default time.
2. **Time setting:** Press the "TIME-/TIME+" shortly at a time means time increase/reduce 1min at a time, press and hold means time will increase/reduce by 1mins continuously.

The cleaning stops when the timer counts down to 00:00. If the unit needs to be stopped before the timer runs up, press ON/OFF button.

NOTE: Do not run the cleaner continuously for more than one hour

- 3. Set temperature:** Press "**temperature-/temperature+**" shortly at a time means time increase/reduce 1°C at a time, press and hold there means time will increase/reduce by 1°C . Usually, the best results are within 40°C to 60°C.
- 4.** After time and heat setting, press ON/OFF key to start both function. Press "Heating" button "OFF", the heating function will stop. The same for Ultrasonic function.
- 5.** Empty the tank and clean both the outside and inside of the cleaner with clean and dry cloth for next use.

NOTE: Do not pour water out until it's cooling, Hot water will hurt you and damage the machine itself.

DIFFERENT WAYS OF CLEANING

General Cleaning—use only tap water. Use warm temperature about 50°C .

Enhanced Cleaning—add few drops of standard washing up liquid, liquid soap, or detergent into water, other non-acidic cleaning agents can also be used.

Extensive Cleaning--removing tarnish, carbon & rust from non-plated metals, it is recommended to use specialist cleaning solution in associated using ultrasonic cleaner.

WARNING : Strong acid or alkaline cleaning solution will cause corrosion, rust and even puncture of tank or machine body. To overcome this problem, dilute to mild PH solution or request for tank made of specific grade of stainless steel like SUS304.

The cleaning solution will deteriorate in effectiveness over time and use. It is important to regularly change the fluid and carefully wash the inside of the cleaning tank in order to preserve the effectiveness and longevity of the cleaner. Do not use corrosive or abrasive cleaning products on the tank, which must be wiped down and dried before it can be re-connected to the electrical supply.

NOTE: If the machine starts to spark, smoke, smell of burnt electrics or displays any other fault the operator must immediately stop the machine, isolate the electrical supply and contact the supplier. Continued use is dangerous.

Advantage

Ultrasonic is widely used throughout industries to remove difficult contaminants from the parts during or after manufacturing process which might require a stage of cleaning before the next process. In general, if an item can be cleaned with liquid, it can be cleaned much faster and more thoroughly with an ultrasonic cleaner, Compared to traditional solvent/scrubbing methods of cleaning in a parts washer, our ultrasonic cleaners:

- Are more effective at removing contamination
- Are quicker to achieve the results you want
- Save employee time (and consequently money) by enabling 'switch on and leave' cleaning
- Are heated to allow cleaning solvents to work more effectively
- Use mechanical timers for simplicity, precision and longevity
- Produce less mess during use
- Less chemistry
- Reproducible result

For Better cleaning effect:

- The item should be immersed well into the water.(do not exceed the "MAX" mark)
- Warm water(never hot or boiling) and a small amount of washing up liquid will help increase the cleaning performance.
- Make sure there is good space around each part you put in the tank,The more items that you place in the tank the less efficiently it will clean. It is not advised to overlap items, If lay items one on top of the other the system doesn't work the way it's supposed to.
- Basket use. Do not put items directly into the bottom of the tank, better cleaning effect with a suitable basket. A metal basket absorbs less ultrasonic energy at about 8%.
- Temperature: The higher temperature the better cleaning effect. However, when temperature exceed 70°C~80°C, cleaning effect will be affect. The best temperature we suggest is 40°C~60°C.

SPECIFICATIONS

Model	Tank Size	Overall Size	Volume	Power	Frequency	Heating Power	Time setting	Temperature
	(L*W*H)mm	(L*W*H)mm	L	W	KHz	W	Min	°C
KBUS0320	240×140×100	270×170×220	3.2	120	40	100	1-99	0-80
KBUS0650	300×155×150	330×180×280	6.5	180		300	1-99	0-80

H: 1-99 mins can be adjustable

T: 0-80 °C temperature can be adjustable

D: Digital display



Warranty Terms

1. KB GLOBAL hereinafter referred to as the Guarantor provides a guarantee for the smooth operation of the above-called equipment within 12 months from the date of purchase. This guarantee covers:
 - a) Spare parts
 - b) Design elements of the device
 - c) Arrival of an authorized KB GLOBAL service technician to correct defects.
2. The warranty for the device, sold outside the RP, covers only spare parts, unless otherwise specified.
3. The warranty does not cover defects caused by:
 - a) wear, abuse, overload, improper installation or failure to carry out regular maintenance.
 - b) customer's negligence or conduct inconsistent with the instructions in the user's manual.
 - c) failure to comply with the operating instructions, failure to comply with the frequency of maintenance work specified by the manufacturer, poor power source (rotating field, rated voltage, etc.) or improper use (overload, installation outside the closed building, technical changes) or improper installation.
 - d) Damage to the equipment due to fire, flood, lightning or other natural disasters, wars, civil unrest, accidents, power grid surges, improper electrical connections, mechanical damage to varnish, corrosion caused by pressurised washing or discontinuation of maintenance or lack of purification.
4. KB GLOBAL is not responsible for damage to the equipment during transport (in case the transport is not outsourced by KB GLOBAL). The Recipient is obliged to check the visual condition of the device and in case of defects the Recipient is obliged to immediately report this fact to KB GLOBAL or the Distributor. Please

write down the damage report with the Courier delivering the device at the time of delivery.

5. In the event of damage to the equipment during the warranty period, the Guarantor will provide a free repair or replacement of the damaged parts after checking the validity of the complaint. The repair time shall not exceed 30 days from the date of written or e-mail notification of the failure.
6. Specialist repairs requiring components to be brought in from abroad: in this case, the repair time can be extended by another 30 working days. The method of repair is determined by the Guarantor.
7. Devices that require adjustment or maintenance from time to time, as described in the device manual, may be performed by the User, unless otherwise stated in the manual.
8. Any damage caused by the operation and maintenance of a device not in accordance with the instructions, improper transport, operation of the device in climatic conditions not in accordance with the instructions or other causes caused by the User may be repaired at his expense.
9. In the event of an unjustified complaint, the User shall bear the costs incurred by the Guarantor, which consist of: commuting, the cost of technical inspection, the cost of the listed components, the cost of round-trip courier transport.
10. The device owner is responsible for all maintenance activities of the device.
11. Devices fitted with electronic components shall be stored as well as used in rooms where the air temperature is between + 8 and 25 degrees C.
12. KB GLOBAL reserves the right to refuse free service in the absence of a warranty card.
13. In case of purchase of the device/equipment at a distance, the Buyer undertakes to send back to the Seller/Guarantor page III - the collection protocol and receipts for the Guarantor. In case of non-receipt of the protocol and receipt, the Guarantor may refuse to provide a free service.
14. Any complaint must first be submitted to serwis@KB_GLOBAL.pl or via [the https://KB_GLOBAL.pl/formularz-reklamacyjny/](https://KB_GLOBAL.pl/formularz-reklamacyjny/) website to contact you. The application must include data such as the type of device, model, applicant's

details, date of purchase and FV number, and the address of the place where the device is located.