



ULTRASONIC CLEANER KBUS2640

USER MANUAL



Authorized Representative

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Thank you for purchasing this ultrasonic cleaner. Please take some time to read these operating instructions before use and keep them for future reference. Failure to follow these instructions may lead to serious artificial damages to the product.

FEATURES

SUS 304 stainless steel tank

Industrial grade integrated circuit

0~80°C temperature range

1~99 minutes working time

Power adjustable

Dewaxing and degreasing function

40KHz for intensive rinse

Auto Stand-by, Sleep, and wake up by one key-press Mode

Simple Digital Controller of high-precision and a long service-life

Digital controller of high-precision and a long service-life

OPERATION Instructions

1. Fill the stainless steel tank with cleaning solution; turn the single phase switch or three phases switch on; After power-on, the LED display of the temperature displays the actual environmental temperature; while the LED display of time displays 3 minutes (default ultrasonic 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 10mins 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 "Ultrasonic" button.
3. **Temperature setting:** Press "**temperature-/temperature+**" shortly at a time means time increase/reduce 1°C at a time, press and hold there means time will increase/decrease by 10°C .

Note: Usually, the best cleaning temperature is within 40°C to 60°C. The temperature displayed is the real temperature. The default value of the temperature is 0°C. When you set temperature, the heating function can not be started unless the set temperature is higher than the environmental temperature and the "**Heating**" button is pressed after the temperature setting. When the real temperature is higher than the set temperature, the indicator of heating will turn off. However, the heating function would not be turned off automatically if the ultrasonic cleaning still works, it will start again when the water temperature is lower than the set temperature. In this case, you can only press "**Heating**" to turn off heating function. However, if the ultrasonic cleaning time runs out, the heating function will stop automatically.

4. After time and temperature setting, press "**Ultrasonic**" or "**Heating**" button to start both functions. Press "**Ultrasonic**" or "**Heating**" button again, the Ultrasonic or heating function will stop.

5. Power Controller: the power can be adjusted among 0% and 100%. Users can adjust the power value randomly based on the characters of the stuffs to be cleaned.
6. Empty the tank and clean both the outside and inside of the cleaner with a clean and dry cloth for next use.

 **Attention**

- 1) In the process of cleaning, any loose tesseras may fetch way.
- 2) Please don't clean any cloth, leather, wooden stuffs which would fade easily via this machine.
- 3) Please don't clean cellphones, watches which is not water-proof via this machine.
- 4) Please don't clean any shells, glass brackets which is made with hawkbill etc via this machine.
- 5) While the machine is working normally, the syntony of the ultrasonic wave and tank gives a well-proportioned sound with no shudder on the surface of the water but sprays generated by the tiny bubbles. If there are discontinuous surges, please add or reduce a little of washing solution in the tank to stop the surges, which is good for get a better cleaning effect.
- 6) Please don't make the machine work for a continuous long time (not more than 24 hours) as possible as you can because a long-time working will raise the temperature of the case, accelerate the burn-in process of inner electronic components and parts.
- 7) Please don't use flammable detergent.
- 8) This device can not be used by individuals with limited physical knowledge, or the mental disabled, or those lacking experiences or knowledge, such as children, unless they are supervised by an individual who can take charge of their safety or have received training in operating the device .
- 9) DO NOT operate the unit without fluid in the tank. Always ensure that the fluid is no higher than the max mark and no lower than the minimum depth of 7cm.
- 10) Please prevent the cleaning solutions or water from getting into the case or being splashed on the transducers because it may cause electric leakage and short circuit or damage the wafers inside the transducers.
- 11) If something gets into the case, please take it out immediately.
- 12) When you change or drain the liquid inside the tank, please ensure that the liquid is under common temperature, and that the ultrasonic function is turned off, and that power switch is turned off.
- 13) The more items you place in the cleaning bath, the less cleaning efficient you can get. Leaving enough spaces among items rather than overlapping them is recommended.
- 14) Do keep the lid on during use. This will prevent splashes and reduce evaporation of the fluid.
- 15) DO NOT touch the power switch with wet hands.
- 16) DO NOT disassemble the machine if you are not professional.
- 17) DO NOT place the device on a soft surface where the vents can be blocked.
- 18) Take care when adding or removing items from the cleaning tank as the splashed fluid is likely to be hot and damage the internal components. Any splashed fluid must be dried immediately.

- 19) Clean the contaminants in the tank and keep the surface of the machine clean after use.
- 20) In case of emergency or failure to follow the aforementioned items, turn the power switch off and contact the maintenance staffs.

APPLICATIONS

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

- Jewelry 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 parlor 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 to be used to clean the following gemstones: Opal, Pearl, Emerald, Tanzanite, Malachite, Turquoise, Lapis and Coral.

DIFFERENT WAYS OF CLEANING

General Cleaning—use only water to clean under the temperature of about 50°C;

Enhanced Cleaning—add few drops of standard cleaning solutions, liquid soap, or detergent, or any other non-acidic cleaning agents.

Extensive Cleaning--removing tarnish, carbon & rust from non-plated metals, it is recommended to use specific cleaning solution associated with ultrasonic cleaners.

WARNING : Strong acid or alkaline cleaning solution will cause corrosion, rust and even puncture of tank or machine body. To solve this problem, please dilute the solution to mild PH or use a special tank made of a specific-graded 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 tools to clean 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, and isolate it from the electrical supply and contact the supplier. It is dangerous to use it after that.

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 with traditional solvent/scrubbing, our ultrasonic cleaners:

- Are more effective at removing contaminants;
- Are quicker to get a good cleaning effect;
- Save labor time of employees (and subsequent labor cost);
- can heat the cleaning solutions to a suitable cleaning temperature so as to enhance the cleaning efficiency;
- Have a digital controller of high-precision and a long service-life;
- reduce chemicals in the cleaned stuffs;
- Are environment friendly because of its recyclability.

For Better cleaning effect:

- Make the machine have a proper power density: The higher the power density is, the better cavitation effect the machine can make, the better cleaning effect we can get, the faster the cleaning can be finished. For big workpieces, better to choose a big power density; while for high precision workpieces, better to choose a small power density. Generally most ultrasonic cleaners have a power density among 12~20W/L.
- Choose a suitable frequency: The lower frequency we choose, the better cavitation we can get; the higher frequency we choose, the better refraction and reflection we can get. So for simple surfaces, better to choose a low frequency; while for complicated surfaces with deep and blind holes, better to choose a high frequency. The common frequencies are 20KHz, 28KHz, 40KHz, 80KHz, 0.8MHz.

- Immerse the cleaned stuffs well into the water (below the "MAX" mark).
- Add a small amount of cleaning solution.
- Make sure that there is enough space around each stuff in the tank. The more stuffs you place in the tank, the less efficiency you can get. It is not advised to overlap stuffs because the ultrasonic cleaning system can not work well with layered stuffs.
- Use a basket. Do not put stuffs directly into the bottom of the tank because that is harmful for the inner tank. So it is better to use a suitable basket. Especially a metal basket only absorbs about 8% ultrasonic energy.
- Choose a suitable cleaning temperature: The cavitation effect can be the best when the water is under 40°C~50°C. Generally, the higher the temperature is, the easier the contaminants get resolvent. However, when the temperature reaches 70°C~80°C, the cleaning effect also will be affected.
- Set a suitable cleaning time: the longer, the better. (except for stuffs made with special materials).

SPECIFICATIONS

Model	Tank Size (mm)	Overall Size (mm)	Volume (L)	Ultrasonic (W)	FREQ. (KHz)	Heating (W)	Time (mins)	Temp. (°C)	Voltage
KBUS1750	700*500*500	970*680*960	175	0~2400	40	6000	1-99	0-80	AC 380V
KBUS2640	800*600*550	1070*780*1010	264	1500~3000	40	6000	1-99	0-80	AC 380V

H: 0-80 °C temperature range

T: 1-99 minutes working time

D: Digital display



Dear Customer!

KB GLOBAL thanks you and congratulates you on your purchase. Please note that a warranty of 12 months from the date of purchase is provided for the product you purchased. This Warranty Card is only valid with the seller's proof of sale or the seller's signature and stamp. As part of the warranty period, all defects will be renaissance free of charge, provided that they are caused by manufacturing or technical defects of the product and when the device has been used for its intended purpose and with the requirements of the user manual. Please read the detailed warranty conditions.

This warranty does not exclude or limit the buyer's rights arising from the non-conformity of the goods with the contract.

Warranty card number

FILLED BY SELLER

Date of sale of the product (in the absence of an entry, a proof of sale must be attached)
Product name and symbol
Customer*) Customer Address
Seller's stamp and signature (in the absence of a stamp and signature, the Guarantor, i.e. KB GLOBAL, is considered to be the Seller on the basis of proof of sale)
Customer Signature

Please note that without completing all of the above points, the warranty card is void!

Service Repairs		
Lp.	Description of the repair	Date, signature and stamp

****) The owner of the equipment making claims under the guarantee is obliged to provide personal data in accordance with Art. 23 paragraph 1 point.3 of the Personal Data Protection Act of 29.07.1997, as amended. D***

COLLECTION PROTOCOL

I hereby confirm the reception of the device according to the following specifications on.....

The received device is complete and in accordance with the order.

Order specification		Pieces
1		
2		
3		
4		
5		

Date Stamp and signature of the buyer

.....

Receipt for Guarantor of receipt of guarantee card NO ;

Warranty Card No-..... Serial No.

Name, Surname, buyer's address, phone number

Date of sale

I confirm receipt of the GOODS and the warranty card, which I have read and accepted the warranty conditions:

.....

Date and legible signature of the buyer

For distance purchases, this voucher must be returned to the guarantor within 14 days from the date of purchase of the device.

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.