

## SAFETY PRECAUTIONS

### Keep it away from children!

- ❗ This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- ❗ Children shall not play with the appliance.
- ❗ Cleaning and user maintenance shall not be made by children without supervision.
- ❗ Keep the appliance and its cord out of the reach of children under 8 year old.
- ❗ Never leave the appliance unattended when connected to a power supply.
- ❗ If the supply cord is damaged, the appliance should be scrapped or have the cord replaced by the manufacturer, its service agent or similarity qualified persons in order to avoid a hazard.

### Please read the following items very carefully as failure to comply with them may invalidate your guarantee.

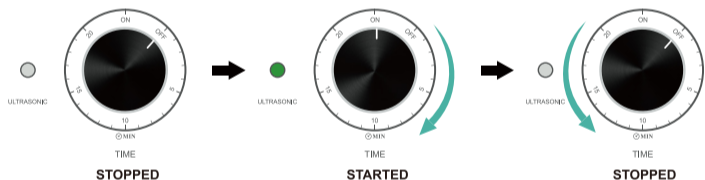
- ❗ It's not recommended to run the cleaner continuously for more than one hour at a time because it has a bad influence on the device's service life.
- ❗ DO NOT operate the unit without fluid in the tank. Please always ensure that the fluid is not higher than the max mark and not lower than the minimum depth of 7cm.
- ❗ DO NOT drop any item into the tank because it may damage the transducer. Always place items gently into the tank and use the basket whenever possible.
- ❗ The more items you place in the cleaning bath, the less cleaning efficient you can get. It's recommended to leave enough spaces among items rather than overlap them.
- ❗ Do keep the lid closed during use. This will prevent splashing and reduce evaporation of fluid.
- ❗ Never immerse the machine or power cord in water or other liquid.
- ❗ DO NOT touch the power plug with wet hands, especially when inserting or removing the plug.
- ❗ DO NOT touch the unit if the machine has fallen into water during operation. Please remove the power plug from the socket firstly.
- ❗ DO NOT disassemble the machine if you are not professional.
- ❗ UNPLUG the power source while filling or emptying the tank.
- ❗ DO NOT spray water or liquid over the device and the control panel.
- ❗ DO NOT operate the cleaner without proper grounding.
- ❗ DO NOT place the device on a soft surface where the vents can be blocked.
- ❗ DO NOT use any volatile solutions whose gas is flammable or explosive.
- ❗ Please always turn the heater off after using as leaving it on can make the fluid evaporate and damage the internal components.
- ❗ Please be careful 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.
- ❗ In case of emergency or failure to follow the aforementioned items, disconnect the mains supply by removing the plug from the mains socket.

## PREPARATION

- Carefully unpack the cleaner, remove all packing materials and check whether any parts 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
- Place the cleaner on a flat, clean surface and ensure that the cooling fan will get adequate ventilation, and that all controls are set to off, and the drain tap is closed.
- Ensure that the power lead is securely plugged into the cleaner, and that no part of the lead is likely to contact with moisture.
- Carefully fill at least 1/2 of the tank with a solvent solution. Based on cleaning requirements, we recommend to use a small amount of cleaning solution because this will help increase the cleaning performance. Now the cleaner is ready for use.

## OPERATION

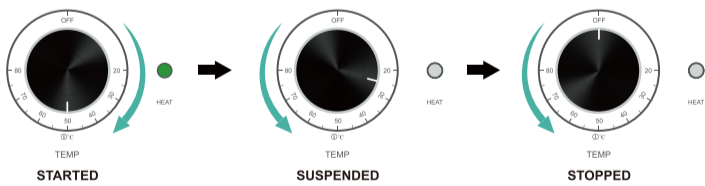
**ULTRASONIC CLEANING:** The ultrasonic cleaning shall be started by rotating the <Time Control> knob to the right to set a certain cleaning time; and shall be stopped by rotating the knob to the left to the <OFF> position. Meanwhile, the ultrasonic indicator shall turn on when the device is on the ultrasonic cleaning status.



### ATTENTION

While the machine is working normally, the synergy 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.

**Heating Function:** Heating shall be started by rotating the <Temp Control> knob to the right to set a preset temperature which is higher than the actual temperature; and shall be suspended by rotating the knob to the left to make the preset temperature be lower than the actual temperature; and shall be stopped by rotating the knob to the left to the <OFF> position. Meanwhile, the heating indicator shall turn on when the device is on the heating status; and if the actual temperature becomes higher than the preset temperature, the heating indicator shall turn off.



**NOTE:** The Best Temperature Range for Ultrasonic Cleaning is among 40~60°C, i.e. 104~140°F.

Empty the tank and clean both the outside and inside of the cleaner with a clean and dry cloth for next use.

**NOTE:** Do not pour water out until it's cooling-off because hot water will hurt you and damage the machine itself.

## SPECIFICATIONS

Model No.	Tank Size(mm)	Overall Size(mm)	Capacity	Frequency	Ultrasonic Power	Heating Power	Time(min)	Temp(°C)	Drainage
DK-200H	150x140x100	190x170x230	2.0L	40KHz	60W	100W	0~20 or always ON	20~80°C	None
DK-210H	200x140x85	220x170x200	2.0L	40KHz	60W	100W	0~20 or always ON	20~80°C	None
DK-300H	240x140x100	270x170x240	3.0L	40KHz	120W	100W	0~20 or always ON	20~80°C	None
DK-600H	300x155x150	330x180x330	6.0L	40KHz	180W	300W	0~20 or always ON	20~80°C	Yes
DK-1000H	300x240x150	300x270x330	10L	40KHz	240W	300W	0~20 or always ON	20~80°C	Yes
DK-1500H	330x300x150	360x330x330	15L	40KHz	360W	400W	0~20 or always ON	20~80°C	Yes
DK-2200H	500x300x150	500x330x330	22L	40KHz	480W	500W	0~20 or always ON	20~80°C	Yes
DK-3000H	500x300x200	550x330x380	30L	40KHz	600W	500W	0~20 or always ON	20~80°C	Yes
DK-3300H	500x290x220	590x330x385	33L	40KHz	720W	800W	0~20 or always ON	20~80°C	Yes

## CONTACT US

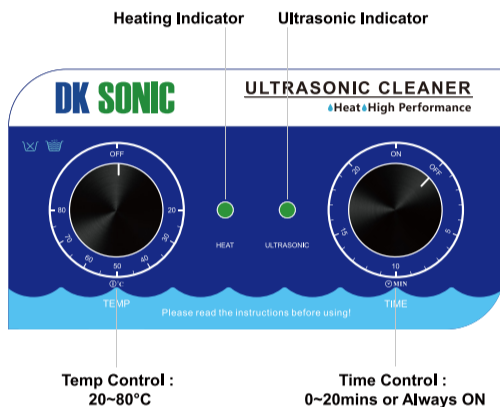
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## FEATURES

- Die casting SUS304 stainless steel tank
- Industrial grade integrated circuit
- 20~80 C temperature range
- 0~20 minutes working time or always on
- 40KHz for intensive rinse
- Dewaxing and degreasing function



## Control Panel

## DIFFERENT CLEANING WAYS

- General Cleaning** — A common ultrasonic cleaning way with only water and under 50°C.
- Enhanced Cleaning** — An ultrasonic cleaning way with a few drops of standard cleaning solutions added, such as liquid soap, detergent, or any other non-acidic cleaning agents.
- Extensive Cleaning** — A special ultrasonic cleaning way with specific cleaning solution added for removing tarnish, carbon & rust from non-plated metals.

### WARNING

Strong acid or alkaline solution will cause corrosion, rust and even puncture of tank or machine body. To solve this problem, please dilute the solution to a mild PH value with a special tank made of a specific-graded stainless steel, like SUS316, before pouring it into the tank of the ultrasonic cleaner.

The cleaning solution's effectiveness will deteriorate over time and use. It is important to regularly change the fluid and wash the cleaning tank carefully so as to preserve the effectiveness and prolong the tank's service life. Besides, the tank must be wiped down and dried before being re-connected to the electrical supply. Do not use corrosive or abrasive cleaning tools to clean the tank.

**NOTE:** If the machine starts to spark, smoke, smells 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.

## HOW TO GET A BETTER CLEANING EFFECT

- 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 make a good cleaning effect on layered stuffs.
- Use a suitable basket. Do not put stuffs directly into the bottom of the tank because that is harmful for the inner tank. Especially a metal basket only absorbs about 8% ultrasonic energy.
- Choose a suitable temperature: Generally, the higher the temperature is, the better cleaning effect the ultrasonic cleaner can make. However, when temperature exceed 70~80°C, cleaning effect will be affected. The best temperature we suggest is 40~60°C.