

PROFESSIONAL ULTRASONIC CLEANER

USER MANUAL



FEATURES

- ☞ Time set: 0~30 minutes digital timer;
- ☞ Temperature adjustable 20~80°C digital control,
- ☞ Material: good quality stainless steel SUS304,
- ☞ Drainage system: styles with 6L above was installed drainage ball valve,
- ☞ Heat dissipation: Machine with 10L above installed cooling fan.

SAFETY PRECAUTIONS



Keep away from children!

- This device is not intended for use by individuals including children with restricted physical, sensory or mental capacities or those with a lack of experience and / or knowledge, including children, unless they are supervised by an individual who is responsible for their safety or have received training in operating the device.
- Please store the ultrasonic cleaner where it is not reachable by children.
- Dangerous for children! May die through suffocation! Keep the packaging material away from children.



To prevent from being electrocuted, please observe the following:



CAUTION! May get electrocuted! Do not use while bathing. Never immerse the device or the power cord into water or other liquids.

- **CAUTION!** May get electrocuted! Never touch the power plug with wet hands, especially when inserting or removing the plug.
- **CAUTION!** May get electrocuted! If the unit has fallen into water during operation, do not touch the unit. Remove the power plug from the socket first.
- **CAUTION!** May get electrocuted! Do not spray water or liquid onto the device.
- Never operate the device unattended.
- Follow the manual to operate the device.
- Do not use components unapproved by the manufacturer.
- When removing the power cord from the socket, grab the power plug not the cord.
- Do not allow the power cord from getting caught by objects such as a cupboard doors, or chair legs; do not drag across a hot surface.
- If there is damage to the power plug, cord, housing, or other parts of the device, do not use

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the device.

- Do not disassemble the device, unless operated by professionals.
- If the unit is damaged, non-operational or has fallen into water, take it to a qualified service provider.
- Remove the power plug from the socket.
 - if malfunction occurs
 - before cleaning the device
 - if the device is not going to be used for a long period of time
 - after each use (recommended)
- The installation of an earth leakage circuit breaker with a rated tripping current of a maximum 30 mA provides more protection against electrical shock. The installation should only be carried out by a trained electrician.
- The device may come with a polarized plug (one blade is wider than the other) for certain countries. As a safety feature, this plug will only fit into a polarized outlet one direction. If the plug does not fit fully in an outlet, reverse the plug. If it still does not fit, contact a qualified electrician.



To prevent fire hazards, please observe the following:

- Never block the vents on the device. Keep the vents free from lint, hair and other materials.
- Do not place the device on a soft surface, such as a bed or a couch, where the vents could be blocked.
- Observe the other warning in the previous section.



Other observations:

- Do not operate the product without filling the tank with water; otherwise, damage will occur.

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- Do not plug in the power cord before adding water to the tank. Do not fill the tank above the max. line to avoid spilling.
- Do not use solution containing abrasive substances, or strong corrosive chemical solution not recommended by the manufacturer or the supplier.
- Place the device on a dry and flat surface for operation.
- When the device is subjected to severe electromagnetic interference, it may malfunction, stop operating, or lose control. If this happens, unplug the power cord then re-insert it to restart the device.



Items Not Suitable For Ultrasonic Cleaning

Soft Jewelry: Pearls, emerald, ivory, coral, agate, sea turtle shells, etc	These items are not hard, so scratches may occur during cleaning.
Welded, Plated and Glued Items: Welded or plated metal items, glued items	Ultrasonic cleaning may increase the gas inside the welded joints, plated coating or glued items and may cause separation.
Watches: Except diver's watches with depth rating over 50m (150ft).	Due to the strong penetration capability of the ultrasonic waves, water may get into the watches if they are not truly waterproof. Use the watch stand that we supply as a precaution.
Others: Glass, ceramic, camera filters with pre-existing cracks.	If the item such as glass, ceramic, camera filters has a pre-existing crack, the Ultrasonic Cleaner may increase the cracks on those items. However, if there is no crack on the items, no problem will occur.

OPERATION GUIDELINES

Operating Instructions

1. Place the units on a stable and flat working surface.
2. Before connecting the power cord, add cleaning solution to the tank, and completely immerse the items to be fully cleaned. Place the items in the stainless steel basket for cleaning and place the basket in the tank.
3. Re-place cover. Connect the power cable. You are now ready to set the timer and temperature.

4. Setting the temperature:

- When power is connected, press the “on/off” button in the left, the red “HEATING” light will illuminate. The temperature of the cleaning solution in the tank is displayed in the “Actual °C” window.
- Press the button “TEMP +” to increase or “TEMP-” the button to decrease the desired temperature, “Set °C” window to show the temperature settings.

CAUTION: Excessive heat or prolonged cleaning times can cause damage to your machine.

5. Setting the timer:

- Press the “on/off” button in the right, the red “TIMER” light will illuminate.
 - Press the button “TIME +” to increase or “TIME-” the button to decrease the desired cleaning time, “Minute & Second” window to show the cleaning time settings.
6. You can also press the button “OFF” during the cleaning process to make the unit stop.

7. Cleaning:

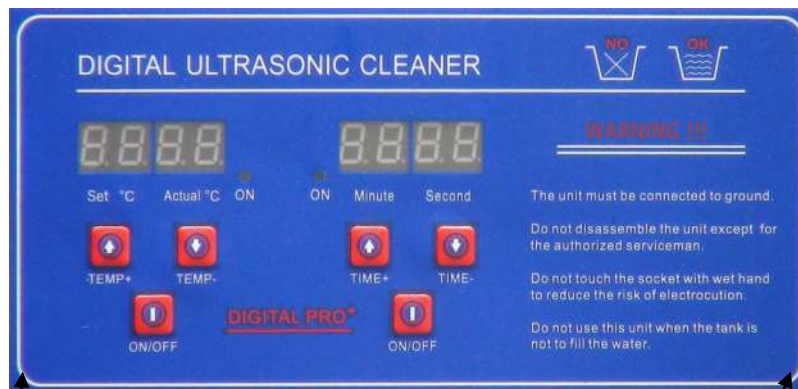
- Unplug the ultrasonic cleaner before cleaning the machine.
- Allow cleaning solution to cool.

Do Not wash the unit with cleaning solution, Store in a cool, dry place.



SPECIFICATIONS

MODEL	CAPACITY	TANK SIZE	ULTRASONIC POWER	HEATING POWER	FREQ	TIMER RANGE	WEIGHT	TEMP. RANGE
PS-08A	1.3L	15x14x6.5cm	60W	50W	40KHz	0-30 mins	2.5kg	20~80℃
PS-10A	2L	15x14x10cm	80W	50W			3kg	
PS-20A	3L	24x13.5x10cm	120W	100W			4kg	
PS-30A	6L	30x15x15cm	180W	200W			6kg	
PS-40A	10L	30x24x15cm	240W	250W			8kg	
PS-50A	14L	30x24x20cm	300W	400W			9kg	
PS-60A	15L	33x30x15cm	360W	400W			10kg	
PS-70A	19L	33x30x20cm	420W	600W			11kg	
PS-80A	22L	50x30x15cm	480W	600W			13kg	
PS-100A	30L	50x30x20cm	600W	800W			15kg	



APPLICATIONS



1. Metal Decoration Manufacturers and Jewelry Makers

-With the use of tap water only, ultrasonic cleaner can remove grease or abrasive power from work-in-process metal items and keep them clean.

-Jewelry made with investment casting often has wax layer in addition to debris. Turning on the heater will raise the water temperature, melt the wax and improve the cleaning.



2. Optical Labs

During the process of edging and polishing, debris, and abrasives, it can scratch the lenses. Ultrasonic Cleaner can effectively protect the lenses. If debris exists in the crevices of the frames during processing and polishing use tap water with Ultrasonic Cleaner to easily remove the debris.



3. Biology, Chemical Laboratories:

Laboratories can use Ultrasonic Cleaners to clean test tubes and other glass or metal containers to remove residual chemicals and debris that are affected by the accuracy of the test results.



4. Medical Instrument Disinfection Rooms:

Non-disposable medical instruments may have blood or organic tissues left after use. They need to be removed with ultrasonic cleaners before disinfection.



5. Dental Clinics:

Dental clinics can use ultrasonic cleaners to clean dental instruments and to remove blood or small particles left on the instruments before disinfection.



6. Electrical Component Manufacturers

Terminals on AC contactors and relays need to be kept clean to prevent sparks and to prevent contact. Ultrasonic cleaning is the most effective method to keep these parts cleaned.



7. Watch and Precision Metal Part Manufactures

Machines watch components and other precision metal parts often have coolant and debris left on the surfaces. Ultrasonic cleaner can remove the debris and keep the parts clean.



8. Shooting Clubs

To reuse brass cartridges: Adding special solution can make the brass useable and look brand new again.

Gun cleaning and care: Cleaning guns after shooting is time consuming. With the use of special solution in the water and ultrasonic cleaner, it can clean better, quicker, and easier then traditional methods.



9. Special Education Institutes/ Kindergartens

Speech therapy tools or small toys that are reused need to be cleaned to prevent the growth and spread of bacteria.

Ultrasonic Cleaner can clean thoroughly by removing debris hidden inside small holes and crevices before disinfection.



10. Golf Clubs

Cleaning the heads of golf clubs is a time consuming job. With the use of Ultrasonic Cleaner and the Enhanced Cleaning method can improve the effectiveness and efficiency.



11. Mobile Phone and Electronics Service Shops

PCB renewal: Non-operational electronics or non-operational keypads that fell into water can be cleaned with ultrasonic cleaners with pure alcohol to recover the functions. Use the Indirect Cleaning method for small-sized PCBs.



12. Homes

Silverware, silver, copper or brass decorations: It's difficult to clean debris hidden in the patterns with regular methods.

Using Ultrasonic Cleaners with 50 ml (3 table spoons) of dish soap will clean the debris quickly.

For silver, copper or brass items with oxidation which has darkened the items, add small amount of special solution to remove oxidation and ultrasonic cleaner will restore the shine.

Children or baby items: Debris left in the small holes and crevices are difficult to clean.

Bacteria and molds can grow. Use Ultrasonic Cleaner to deep clean the items before disinfection.

Crystal glasses, decorations and chandeliers: Ultrasonic Cleaner can bring back the sparkles and make them look brand new again.

Jewelry, eyewear, watch bands, shavers or razors: Ultrasonic Cleaner can clean the debris in the crevices. It is quick and convenient.

This model has a stainless steel basket, when cleaning small items, please put the items in the basket before the cleaning.



13. Printing Shops

Unblocking dried printer heads or ink cartridges:

Large printers and inkjet printers often have dried printer heads or ink cartridges ports. Replacing them with new ones is very costly. With the use of acetone or special cleaning solution and Ultrasonic Cleaner, the cleaning process will only take a couple of minutes to remove the blockage and make them usable again.




Avoid acetone from contacting the plastic housing to prevent corrosion. Use Indirect Cleaning explained later and a glass or metal container for acetone.



14. Automotive Repair Shops




The Enhanced Cleaning method can be used to clean precision parts such as valves, injectors, gears and bearings. It cleans out debris from tiny holes and crevices effectively.

SAMPLE APPLICATIONS

JEWELRY	PERSONAL ITEMS	MEDICAL/ DENTAL INSTRUMENTS
		
Necklaces, rings, earrings, bracelets, etc.	Eyeglasses, sunglasses, shaver heads, watch bands, diver's watches, dentures, etc.	Surgical instruments, pliers, handpieces, etc.

PRECISION PARTS	SILVERWARE, SILVER, COPPER OR BRASS DECORATIONS	CHILDREN AND BABY ITEMS
		
Bearings, gears, valves, tools, fuel injectors, etc.	Silverware, silver, copper or brass decorations, etc.	Toys, baby items, speech therapy tools, etc.

LAB ITEMS	BRASS, GUN PARTS	PCB, INKJET CARTRIDGES
		
Test tubes, beakers, flasks, etc.	Reusable brass, gun parts, etc.	PCBs from mobile phones and MPS, ink cartridges, etc.

GOLF CLUBS	ELECTRICAL PARTS	LENSES, CRYSTALS
		
Golf clubs and golf balls	Terminals for relays and contactors	Lenses, crystals