

Digital Ultrasonic Cleaner With Timer Instruction Manual >>

020S-100S

Instruction Manual

The pictures in this manual are for reference only.
Please refer to the real products.

Application:

Electronic factory, utensil, hardware, machinery, communication, biological, medical instrument, glasses, Optical, Jewelry, clock, watch, chemical, Textile, auto part, Ships, aviation, mining area, commercial cleaning.

PREFACE OF USE

Thank you for purchasing our company's products, this manual is mainly to explain some necessary precautions during installation and use. Before the operation, please read this manual first, in order to fully understand the operating procedures of this product, please keep the manual for reference anytime. Before connecting the power, please confirm whether it is within the rated range. Do not modify this product. Please note that the machine control panel will be affected by organic solvents, strong acid, strong alkali erosion. This product may cause some interference to some electromagnetic communication devices, such as mobile phones, Bluetooth, etc. When installing, pls place it horizontally, do not cut diagonally, to prevent liquid from flowing out

THE BASIC PRINCIPLE OF ULTRASONIC CLEANING

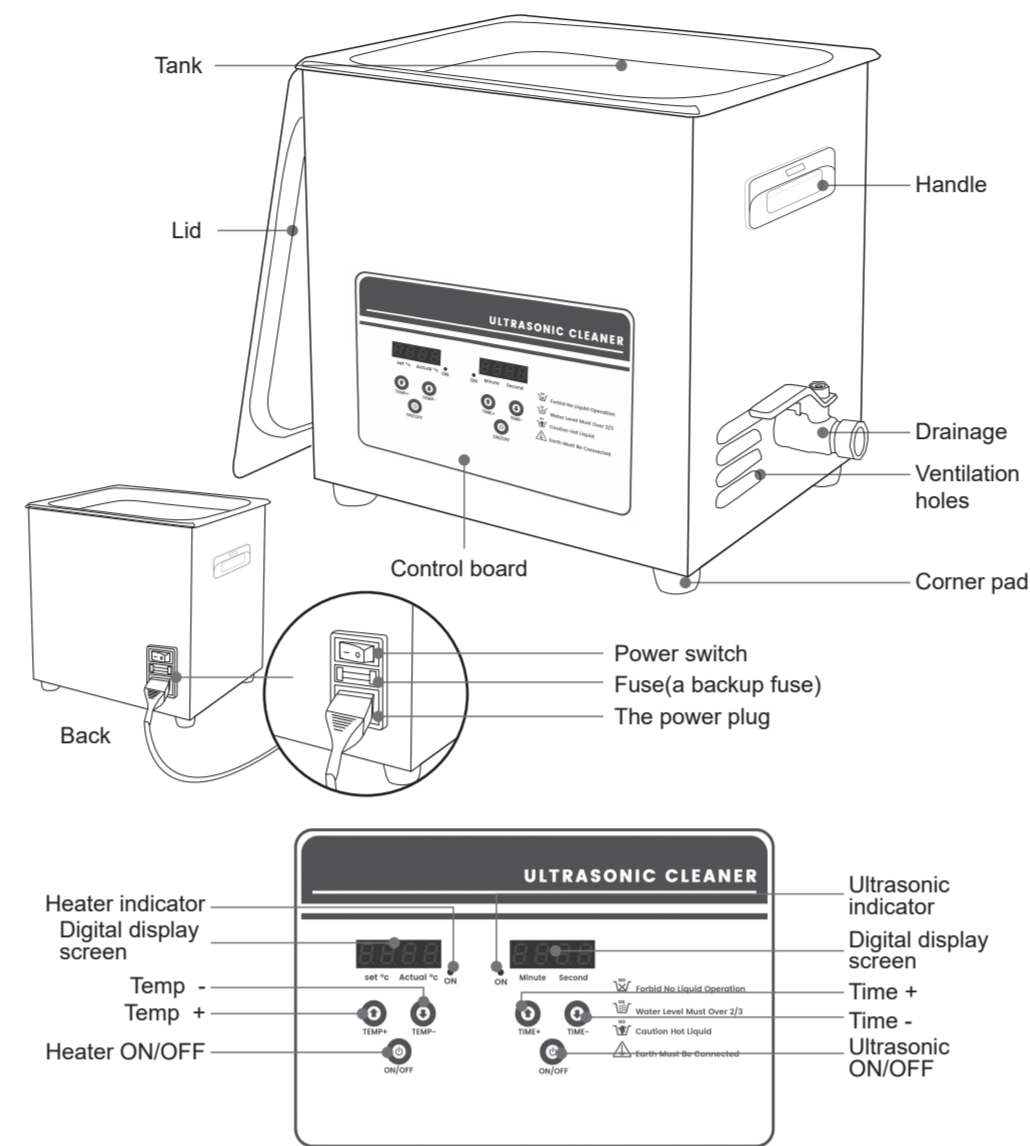
The cleaner uses ultrasonic energy (40 kHz) in the form of sound waves to create millions of tiny microscopic bubbles in the solution that even works its way into holes and hidden cavities, loosening dirt on all surfaces that the solution touches. This action called cavitation, occurs thousands of times per second to gently yet thoroughly scrub contamination off the article being cleaned. When you lift the item out of the cleaner, it's microscopically clean.

NOTES BEFORE USE

1. Ensure the power supply is in rated range before power cable is connected. Refitting is strictly prohibited! Attention that the control panel will be eroded by organic solution, strong acid and strong alkali.
2. Ensure the earth wiring is well connected before starting.
3. Ensure the power key or knob is on the "OFF" place before starting.
4. Do not operate if the tank is empty, or ultrasonic generator will be damaged. If heating is needed, the water level should be less than 2/3.
6. Please close the lid to reduce noise and pay attention to water and steam in case of burning skin while open the lid.
7. Do not relocate the machine when fluid in the tank in case of overflow.
8. Please choose the proper sizes or types of baskets according to the object to be cleaned
9. Suggest using water-soluble liquid for benchtop ultrasonic cleaners. Strong acid or flammability cleaner is forbidden. Do not heat when using flammable liquid such as alcohol, gasoline, etc., heating is strictly prohibited. Ultrasonic vibration for a long time cause temperature of liquid increase, caution fire!
10. Do not use the machine in severe environment:
The place where temperature changes fiercely; The place where humidity is too high and is easy to produce dew; The place where vibration or impact is strong; The place where exists corrosive gas or dust; The place where water, oil or chemicals splash; The place where is filled with explosive and flammable gas;

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PRODUCT DRAWING&INDICATION



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OPERATION STEPS

◆ Before Operating Your Cleaner

1. add cleaning liquid
Fill the tank with warm or tap water below the maxline, Add required quantity of cleaning solution. When using flammable liquid such as alcohol, gasoline and so on, heating is strictly forbidden. Ultrasonic vibration for a long time cause temperature of liquid increase, caution fire!

2. open power
Plug the cleaner into a grounded outlet. Turn on the power switch at the tank back, then machine is power on. ("O" is closed, and "I" is open)

◆ Start ultrasonic cleaning

- For the first Boot, time display show setting time at random, press/touch time key + one time, "the setting time" on the display increase by 1 minute correspondingly. Touch time - Key to decrease time setting by 1 minute. Touch ON/OFF switch after set the time well, ultrasonic indicator turns red and machine starts working based on specified the parameters, meanwhile timer begin to count down and stop working until time shows "00:00", automatically.

◆ Heat

- For the first boot, the setting temperature on the display is random, and actual temperature is room temperature. Touch TEMP+ once to increase temperature by 1°C; Touch TEMP- once to decrease temperature by 1°C. Temperature display shows setting temperature and actual temperature when heater is working, the heater indicator goes off when actual temperature reaches setting temperature.

◆ Power OFF

- Press "ON/OFF" to stop working and then cut off the power. empty out the liquid, clean the tank and the unit with cloth for next use.

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APPLICATION

Full series standard ultrasonic cleaners are made up of high quality stainless steel plate, which is corrosion resistance and long lifespan, adopt with original South Korea ultrasonic transducer and advanced adhesive technology, high electro-acoustic conversion efficiency and strong ultrasonic power output. Equipped with automatic constant temperature heating device, heating range: room temperature-80°C

Skymen ultrasonic cleaner widely applied to industry of precision electronics, painting, filter system, watch-clocks, glass, metal, jewelry, and medical instruments deaning etc.

Industry	The cleaning products materials	Cleardirt
Semi-conductor	Integrated circuit, power tube, silicon wafer, diode, lead frame, capillary, tray, etc	Hards, etching oil, stamping oil, polishing wax, dust particles, etc
Electrical & electronic machine	Tube parts, cathode ray tube, printed circuit board, quartz parts, electronic components, telephone switching equipment, speaker components, power meter, LCD glass, core iron parts, computer floppy disk, video parts, hoop parts, head, photo die mask, etc	Fingerprint, powder, cutting oil, stamping oil, iron filings, polishing materials, walnut powder, polishing wax, resin, dust etc
Precision machine	Bearing, sewing machine parts, typewriter, textile machine, optical mechanical device, gas valve, watches, cameras, metal filter	Machine cutting oil, iron filings, polishing powder, finger print oil, grease, dirt etc.
Optical device	Glasses, lens prism, optical lens, filter lens, glass device, film, optical fiber, etc.	Plastic, resin, paraffin, finger printing, etc
Hardware & machinery parts	Bearing, gear, ball, metal shaft parts, tools, adjustable valve, and cylinder parts, burner, comp. pressors, hydraulic press, gun and ultracentrifuge, city water faucet, etc.	Cutting oil, iron filings, grease polishing powder, finger printing, and so on.
Medical instrument	Medical instrument, denture, etc.	Iron filings, polishing powder, oil, stamping oil, dirt, etc.
Electroplate	Galvanized parts, mold, stamping parts, etc.	Polishing scrap iron oil, black iron shell, rust, oxidation shell, scrap iron, polishing powder, stamping oil, dirt etc
Car parts	Position ring, carburetor, flow meter housing, compressor shell, electrical components, etc	Iron filings, polishing powder, oil, stamping oil, dirt, etc.
Chemical fiber	Chemical or artificial fiber nozzle filter protector, chemical fiber texture, etc	Chemical colloid, glue, and other solid material, dust, etc.

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MAINTENANCE

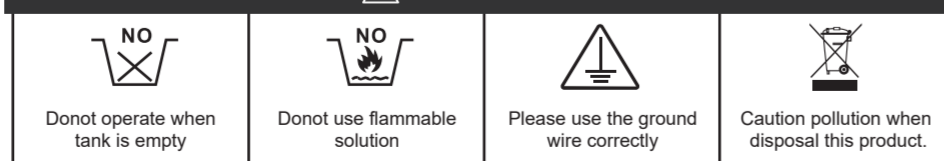
◆ Maintenance

Regularly use high-pressure wind blown away dust for electrical parts Clean the tank at least once a week

◆ Troubleshooting

No	Problems	Possible causes	Solutions	Remarks
1	No Ultrasonic	A. Power supply not connect B. Fuse broken C. Cable short circuit D. Transducer short circuit E. PCB Board broken F. Other reasons	A. Check and plug power switch B. Check the fitted power supply and change the same specification fuse C. Connect fitted cable or replace a new D. Inquiry our after service engineer E. Check the broken part and change it F. Inquiry our after service engineer	
2	Time control failure	A. Timer failure B. Other reasons	A. Replace timer or digital control panel B. Inquiry our after service engineer	
3	No heating	A. Heater power switch bad linkage B. Fuse burn out C. Heating pad burn out D. Digital display board out of control E. Other reasons	A. Check heating plug and connect well, check outlet line with multimeter if OK and resistance value is few hundred Ohms. B. Change the same specification fuse C. Replace the bad heating pad if open circuit D. Check the broken part and change it E. Inquiry our after service engineer	Suggestion 50-60°C
4	Temperature control failure	A. Thermostat loosen B. Thermostat tube broken C. Digital display out of control D. Other reasons	A. Fasten the thermostat header. B. Replace thermostat. C. Check the broken part and change it. D. Inquiry our after service engineer	
5	Not well cleaning	A. too high too low liquid surface B. too high too low temperature C. Not suitable cleaning liquid D. Other reasons	A. Adjust liquid into the best surface B. Adjust temperature into the most fitted C. Stop and switch off power supply, replace suitable liquid after the previous liquid cool down D. Inquiry our after service engineer	Suggestion 50-60°C
6	Electrical leakage	A. Customer side not grounded B. Machine not grounded	A. To ensure grounded B. Check if machine earth wire loosen	
7	Scrap	Not repairable or discarded	According to the state related laws and designated units for discarded medical equipment	
8	Other problems		Consult our after service: 0755-297847256	

WARNINGS



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Model	Frequency (kHz)	Transducer (PCS)	Capacity (L)	Tank size (mm)	Unit size (mm)	Heating power (W)	Ultrasonic power (W)	Time (M)	Temperature (°C)
020S	40	2	3.2	240x135x100	255x165x220	100	120	0-30	room temp-80
030S	40	3	4.5	300x150x100	325x180x225	200	180	0-30	room temp-80
031S	40	3	6.5	300x150x150	325x180x280	200	180	0-30	room temp-80
040S	40	4	10	300x240x150	325x265x280	200	240	0-30	room temp-80
060S	40	6	15	330x300x150	360x325x285	300	360	0-30	room temp-80
080S	40	8	22	500x300x150	530x325x285	500	480	0-30	room temp-80
100S	40	10	33	500x300x200	530x325x325	500	600	0-30	room temp-80

Note:
Models 020S and 030S do not contain the drain valve, other models are equipped with it.

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MAINTENANCE CARD

Ultrasonic cleaner			
EX factory date:			
Machine number:			
Work voltage:			
Work current:			
Rated power:			
Maintenance care records			
	Maintenance care solution	replacement part	contact person
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02			
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Please contact supplier if trouble cannot be removed!			

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