



ULTRASONIC CLEANER SKYMEN MANUFACTURE
Professional manufacturer focus on ultrasonic technology R&D

Industrial class ultrasonic cleaner
Instruction Manual

ULTRASONIC CLEANER
SKYMEN MANUFACTURE
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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.



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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	
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
Please contact supplier if trouble cannot be removed !			

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PREFACE OF USE

Thanks for purchase ultrasonic cleaner. Please read the instruction manual carefully before operation to avoid damage to the machine or any danger to personal safety. And please keep it for reference.
Please make sure power supply is in rated range, before plug the machine. Refitting is strictly prohibited! Attention that the control panel will be eroded by organic solution, strong acid and strong alkali.

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

- 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.
- Ensure the earth wiring is well connected before starting.
- Ensure the power key or knob is on the "OFF" place before starting.
- Do not operate if the tank is empty, or ultrasonic generator will be damaged. If heating is needed, the water level should not be less than 2/3.
- Please close the lid to reduce noise and pay attention to water and steam in case of burning skin while open the lid.
- Do not relocate the machine when fluid in the tank in case of overflow.
- Please choose the proper sizes or types of baskets according the object to be cleaned.
- 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!
- 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.

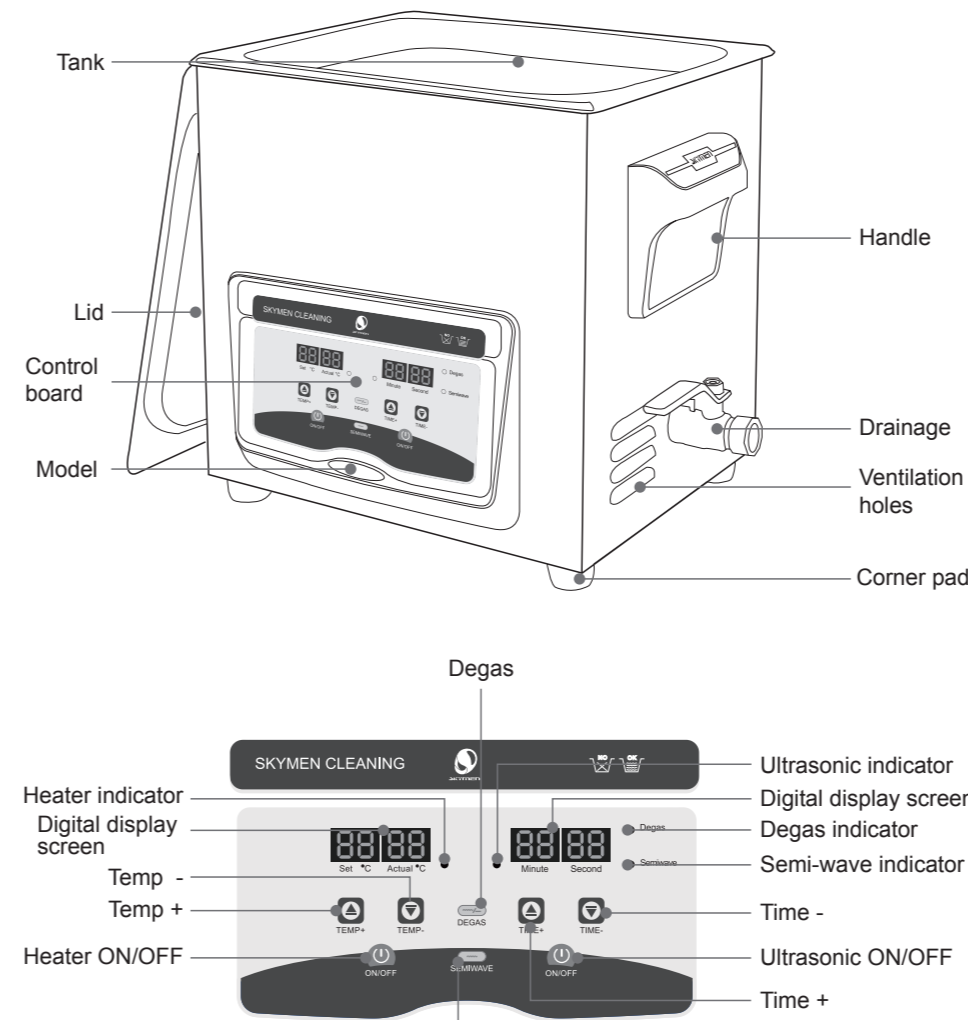
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PRODUCT DRAWING&INDICATION

Digital timer heater adjustable with degas series



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OPERATION PROCEDURE

>>>>>Mechanical time & heater adjustable series<<<<<<

Model	Frequency (kHz)	Transducer (PCS)	Capacity (L)	Tank size(mm)	Unit size(mm)	Heating power (W)	Ultrasonic power (W)	Time(M)	Temperature(°C)
JP-Q20S	40	2	3.2	240x135x100	270x185x230	100	120/60	0-30	room temp-80
JP-Q30S	40	3	4.5	300x150x100	330x200x235	200	180/90	0-30	room temp-80
JP-Q31S	40	3	6.5	300x150x150	375x200x275	200	240/120	0-30	room temp-80
JP-Q40S	40	4	10	300x240x150	380x290x280	200	300/150	0-30	room temp-80
JP-Q50S	40	5	14.5	300x240x200	370x270x325	200	360/180	0-30	room temp-80
JP-Q60S	40	6	15	330x300x150	400x350x280	300	480/240	0-30	room temp-80
JP-Q70S	40	8	20	330x300x200	400x300x200	300	480/240	0-30	room temp-80
JP-Q80S	40	8	22	500x300x150	585x330x280	500	480/240	0-30	room temp-80
JP-Q100S	40	10	30	500x300x200	585x327x333	500	600/300	0-30	room temp-80

>>>>>Digital timer heater adjustable plus series<<<<<<

Model	Frequency (kHz)	Transducer (PCS)	Capacity (L)	Tank size(mm)	Unit size(mm)	Heating power (W)	Ultrasonic power (W)	Time(M)	Temperature(°C)
JP-Q20PLUS	40	3	3.2	240x135x100	270x185x275	100	180	0-99	room temp-80
JP-Q30PLUS	40	5	4.5	300x150x100	330x200x280	200	240	0-99	room temp-80
JP-Q40PLUS	40	8	10	300x240x150	380x290x315	200	480	0-99	room temp-80
JP-Q60PLUS	40	10	15	330x300x150	400x357x320	300	600	0-99	room temp-80
JP-Q80PLUS	40	14	22	500x300x150	580x335x330	500	840	0-99	room temp-80
JP-Q100PLUS	40	18	30	500x300x200	580x335x385	500	1080	0-99	room temp-80

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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	Piston 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.

MAINTENANCE

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

◆ Troubleshooting

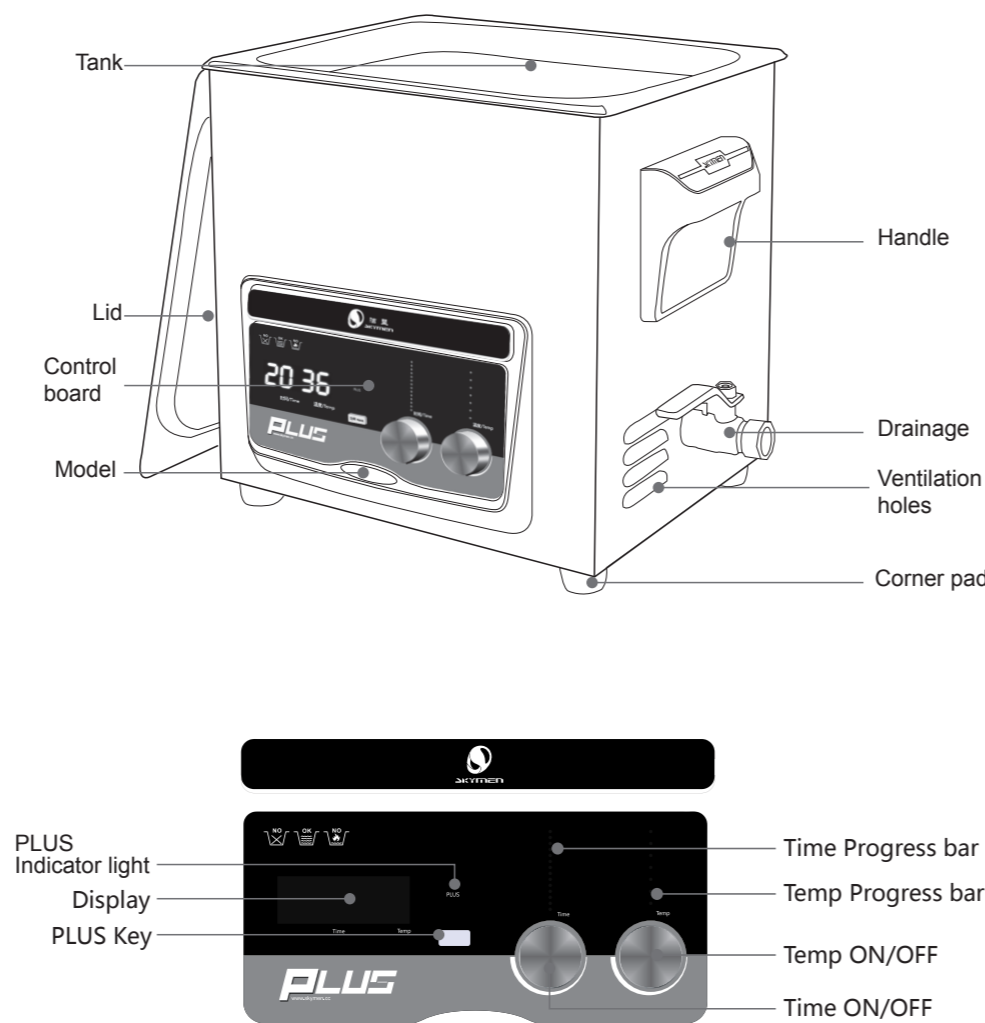
No	Problems	Possible causes	Solutions	Remarks
1	No Ultrasonic	A. Power supply not connect B. Fuse broken C. Cable short circuit D. Transducer short circuit E. PCB Board broken F. Other reasons	A. Check and plug power switch B. Check the fitted power supply and change the same specification fuse C. Connect 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 safety	A. Customer side not grounded B. Machine not grounded	A. To ensure grounded B. Check if machine earth wire loosen	
7	Other problems		Consult our after service: 0755-297847256	

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Digital timer heater adjustable plus series



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OPERATION STEPS

◆ Before Operating Your Cleaner

- Fill the tank with warm or tap water below the max line. 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!
- Plug the cleaner into a grounded outlet. Turn on the power switch at the tank back, then machine is power on.

◆ Start ultrasonic cleaning

- S series: At first setting, the time is random. Touch "Time+" or "Time-" to set time, press "On/Off" the ultrasonic active and the machine start to countdown.
- PLUS series: At first setting, the time is random, progress bar light on. Turn the rotary knob clockwise to increase time; Turn counterclockwise to decrease time. Correspondingly the two digits on the left of the display change accordingly, and the time setting done well. Press the rotary knob, ultrasonic start working.
- Plus Series Description: Time starts to countdown in minutes. The progress bar indicator flashes to show that the ultrasound starts to work. When the countdown is over, the ultrasound stops working, the progress bar indicator recover light. Press the knob again during the work, when ultrasound stops working, the progress bar indicates light steps flashing. The next boot display of timer will default last setting.

◆ Heat

- S series: At first setting, the temperature is random. Touch "Temp+" or "Temp-" to increase or decrease temperature. Press "On/Off" button, heat will active before reaching the setup temperature.
- Plus series: At first setting, the temperature is random. Turn the rotary knob clockwise or counterclockwise to increase or decrease temperature. Press rotary knob, heat will active before reaching the setup temperature.

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Plus Series Description: Heating in degree Celsius, the progress bar indicator light flashes, which say heater starts working, heat to the specified temperature. When Heating Stop Working, the progress bar indicator recover light. Press the knob again during the work, the heating stop working, the progress bar indicator light flashes. The next boot display of heater will default last temperature setting.

◆ Additional functions

Degas: ultrasonic work for 6seconds stop for 6seconds, work for 9seconds etc. till time is out. (some cleaner do not have this function)
Semiwave: touch "Semiwave" to start half-wave Mode, ultrasonic power will cut in half. (some cleaner do not have this function)
PLUS: The machine will work at 150-180% power (this will not affect the machine's performance life), which is used to clean object with stubborn stains. (Some machines do not have this function)

◆ 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.

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, glasses, metal, jewelry, and medical instruments cleaning etc.

Industry	The cleaning products materials	Cleardirt
Semi-conductor	Integrated circuit, power tube, silicon wafer, diode, lead frame, capillary, tray, etc.	Hairs, 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, wafer powder, polishing wax, resin, dust etc.
Precision machine	Bearing, sewing machine parts, typewriter, textile machine, optical mechanical device, gas valve, watches, cameras, metal filter element, etc.	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, and so on.
Hardware & machinery parts	Bearing, gear, ball, metal shaft parts, tools, adjustable valve, and cylinder parts, burner, cog, pressors, hydraulic press, gun and ultracentrifuge, city water faucet, etc.	Cutting oil, iron filings, grease, polishing powder, finger parts printing, and so on.
Medical instrument	Medical instrument, denture, etc.	Iron filings, polishing powder, oil, stamping oil, dirt, etc.

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