



ULTRASONIC CLEANER SKYMEN MANUFACTURE

Professional manufacturer focus on ultrasonic technology R&D

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

Thanks for purchase ultrasonic cleaner, Please read the instruction manual carefully before operation to avoid damage to the machine or any danger to personal safty. 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

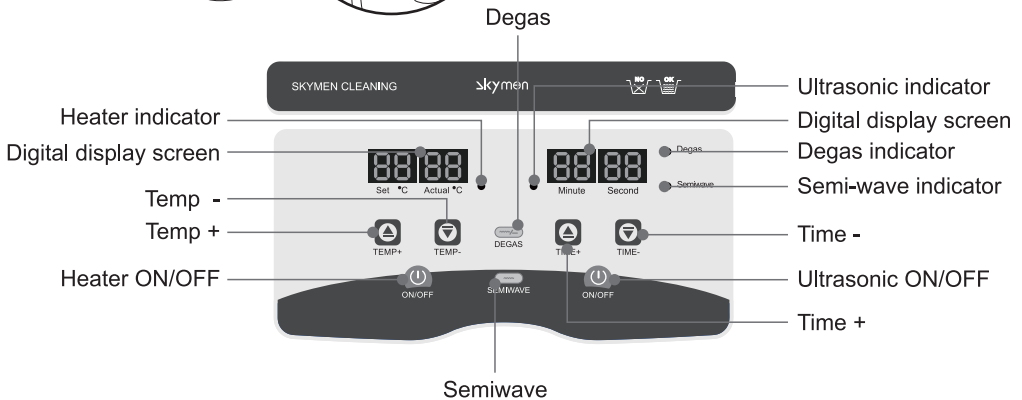
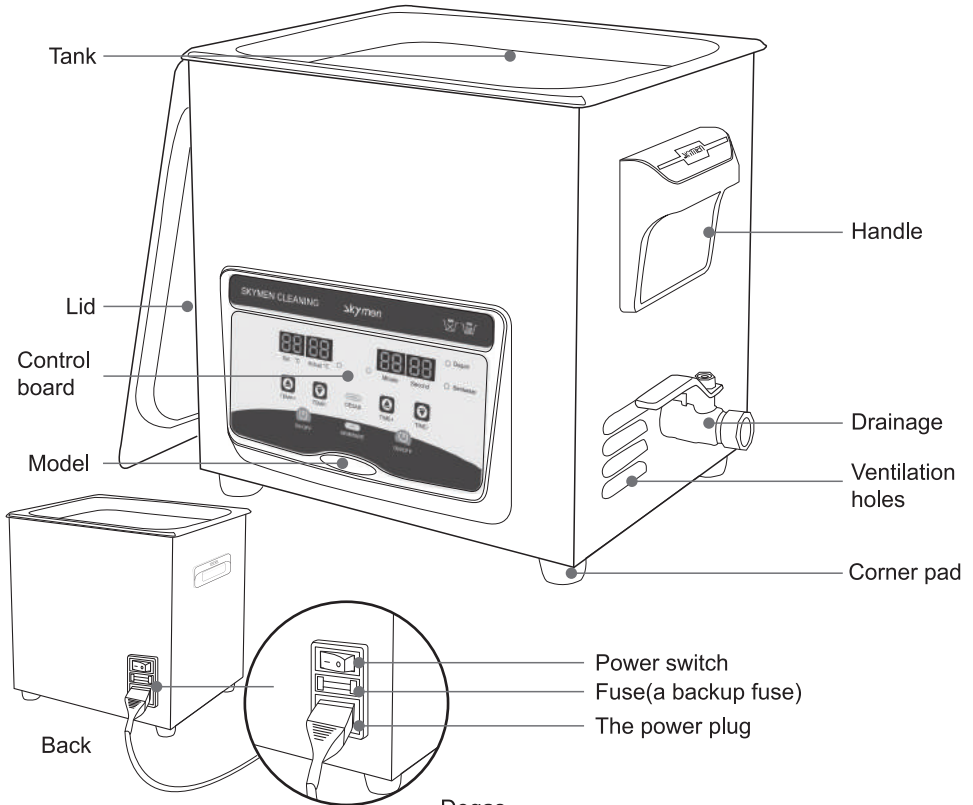
- 1 . Ensure the power supply is in rated range before power cable is connected. Refitting is strictly prohibited! Attention that the control panel will be eroded by organic solution, strong acid and strong alkali.
- 2 . Ensure the earth wiring is well connected before starting.
- 3 . Ensure the power switch should be placed in the "O" position before starting.
- 4 . Do not operate if the tank is empty, or ultrasonic generator will be damaged. If heating is needed, the water level shouldn't 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. Heater is forbidden when using flammable liquid (such as alcohol, solvent cleaner etc.) to clean objects. 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;

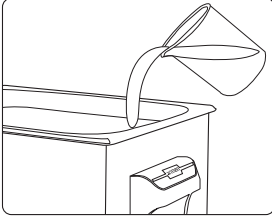
PRODUCT DRAWING&INDICATION

Digital timer heater adjustable with degas series



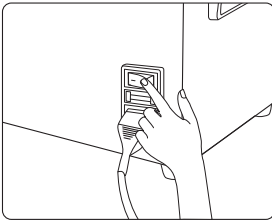
OPERATION STEPS

◆ Before Operating Your Cleaner



1. Add cleaning liquid

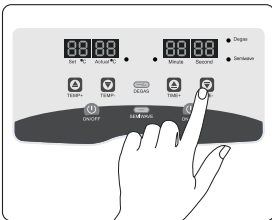
Add appropriate amount of cleaning solution to the cleaning tank according to the cleaning. Ensure that the liquid level is not lower than the inner tank height by 2/3 when the heating is turned on. **It is forbidden to heat when using flammable liquids such as alcohol, gasoline, etc. Long-term vibration will cause liquid increase in temperature, beware of fire!**



2. Open power

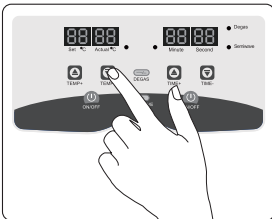
Plug the cleaner into a grounded outlet. Turn on the power switch at the tank back, then machine is power on. ("O" is closed, and "—" is open).

◆ Start ultrasonic cleaning



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.

◆ Heat



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.

◆ Additional functions

Degas: ultrasonic work for 9seconds, stop for 6seconds, work for 9seconds ets etc. till time is out.

Semiwave: touch "Semiwave" to start half-wave Mode, ultrasonic power will cut in half.

◆ Power OFF

Press the ultrasonic "ON/OFF" button, the ultrasonic stops and the light is off. Press the heater "ON/OFF" button, the heating stops and the light is off. And then cut off the power, empty out the liquid, clean the tank and the unit with cloth for next use.

SPECIFICATIONS (The size is manual measurement, please refer to the actual product)

>>>>> Digital timer heater adjustable with degas 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-020S	40	2	3.2	240x135x100	270x185x230	100	120/60	0~30	room temp~80
JP-030S	40	3	4.5	300x150x100	330x200x235	200	180/90	0~30	room temp~80
JP-031S	40	3	6.5	300x150x150	375x200x275	200	180/90	0~30	room temp~80
JP-040S	40	4	10	300x240x150	380x290x280	200	240/120	0~30	room temp~80
JP-050S	40	5	14.5	300x240x200	370x270x325	200	300/150	0~30	room temp~80
JP-060S	40	6	15	330x300x150	400x350x280	300	360/180	0~30	room temp~80
JP070S	40	8	20	330x300x200	400x300x200	300	480/240	0~30	room temp~80
JP-080S	40	8	22	500x300x150	585x330x280	500	480/240	0~30	room temp~80
JP-100S	40	10	30	500x300x200	585x327x333	500	600/300	0~30	room temp~80
JP-120S	40	12	38	500x300x250	595x345x385	800	720/360	0~30	room temp~80

APPLICATION

Full series standard ultrasonic cleaners are made up of high quality stainless steel plate, which is corrosion resistance and long lifespan, adopt with high quality 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	Clear dirt
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 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, etc
Hardware & machinery parts	Bearing, gear, ball, metal shaft parts, tools, adjustable valve, and cylinder parts, burner, copm 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	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	Electricleakage	A.The equipment ground wire is not connected well. B.The internal live line or neutral line of the equipment falls off	A.Check whether the internal ground wire and power cable grounding of the device are connected. B.Check if the internal live wire or neutral wire of the machine is fall off.	
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: +86-755-297847256	



WARNINGS



Donot operate when tank is empty



Donot use flammable solution



Please use the ground wire correctly



Caution pollution when disposal this product.

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 !			



Please scan the code
for instructions

Skymen Cleaning Equipment Shenzhen Co.,LTD

TEL: +86-755-29784256

FAX: +86-755-29784236

Email: skymen@skymen.cc

Website: www.skymen.cc

Factory Add: Building F12, No.110, first Industrial park of Li Song Lang, GuangMing new district, Shenzhen, China.

Marketing Center: 3F, A1 Block, Fuhai Technology Park Building, FuYong Steet, Baoan district, Shenzhen, Guangdong, China.

Solemnly Declare

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