Ultrasonic cleaner

- Thanks for purchasing this machine.
- Read all instructions before operating the device.
- Please keep the manual for reference.

Catalog

- Security precautions & Daily maintenance & Application description 1-3
- Product introduction & Product specification & Operation steps 3-5

Cautions

- Ensure the power supply is in rated range before power cable is connected. Refitting is strictly prohibited! Attention that the control panel will be croded by organic solution, strong acid and strong alkali.
- Ensure the earth wiring is well connected before starting.
- Activate key of system should be on position of “ ON/OFF ” button.
- Do not turn on machine if the tank is empty or the transducer will be damaged.
- 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.
- Water-soluble liquid is suggested for bench top ultrasonic cleaner. Strong acid or flammability cleaner is strictly forbidden. If solvent type cleaner is added in tank, please stop working for a while after 30mins cycle.
- Do not use the machine in below environment.
  - The place where temperature change 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

⚠ **Do not work for long time when you use flammable liquid like alcohol! You will get better cleaning effect if cleaning solution is added in ultrasonic cleaner.**

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Maintenance

- The unit must be opened by authorised specialised person only for maintenance and care of it.
- Clean the contaminant in the tank frequently.

Trouble clearing

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 replace it. F.Inquiry our after service engineer.	
2	Time control failure	A.Timer knob out of control B.Timer failure	A.Loosen or tighten the screw. B.Replace timer or digital panel. C.Inquiry our after service engineer.	
3	No heating	A.Heater power switch linkage. B.Fuse burn outl. 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 replace it. E.Inquiry our after service engineer.	Suggeation 50-60℃
4	Temperature control failure	A.Thermostat loosen. B.Thermostat tube broken. C.Digital display of control.	A.Fasten the thermostat header. B.Replace thermostat. C.Check the broken part and replace it. D.Inquiry our after service engineer.	
5	Not well cleaning	A.Not Strong ultrasonic cleaning. B.Too high too low liquid surfacel. C.toohigh too low temperature. D.Not suitable cleaning liquid. E.Other reasons	A.Connect ultrasonic button and adjust. B. Adjust liquid into best urface. C.Adjust temperature into the most fitted. D.Stop and switch off power supply, replace suitable liquid after the previous liquid cool down. E.Inquiry our after service engineer.	Suggeation 50-60℃
6	Electric leakage	C.Customer side not rounded. D.Machine not grounded.	C.Make sure the wire. D.Check if machine earth loosen.	
7	Other problems			

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Ultrasonic application description

■ The standard ultrasonic cleaners adopt high quality stainless steel plate with strong corrosion resistance and long lifespan, transducers with advanced connection sticking technology, high electroacoustic conversion efficiency and strong ultrasonic output, also equipped with automatic constant temperature heating device. Temperature range: 20-80℃.

■ Suit for varies industries and objects cleaning, such as precision electronic parts, eyeglasses & clock parts, optical glass parts, hardware, jewelry, semiconductor silicon wafer, printer inkjet, medical instruments and electroplate parts etc.

Industry	The cleaning products and materials	Clear dirt
Semi-conductor	Integrated circuit, power tube ,silicon wafer, diode, lead frame, capillary, tray, etc.	Hards, etching oil, polishing wax, dust particles, etc,
Electrical& electronic machine	Tube parts, cathode ray tube, printed circuit board,quartzparts ,electronic components , telephone switching equipment, speaker components, power meter, LCD glass, core iron parts, computer floppy disk, video parts, head, photo die mask, etc.	Finger print, powder, cutting oil, stamping oil, iron filings, polish-ing 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, olishing 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, compressors, 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.

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COMMERCIAL ULTRASONIC CLEANER GRANBO

S Series Product introduction





1 Lid 3 Stainless steel body 5 Stainless steel basket

2 Tank 4 Plug

Product specification

Model	Capacity (L)	Frequency (KHz)	Ultrasonic Power (W)	Heating Power (W)	Tank Size (LxWxH mm)	Unit Size (LxWxH mm)	Temp. (℃)	Timer (Min)
GS0101	1.3	40	60	150	150x135x65	175x165x160	20-80	0-30
GS0201	1.3	40	120	150	150x135x65	175x165x190	20-80	0-30
GS0102	2.0	40	60	150	150x135x100	175x165x190	20-80	0-30
GS0202	2.0	40	120	150	150x135x100	175x165x225	20-80	0-30
GS0203	3.2	40	120	150	240x135x100	265x165x225	20-80	0-30
GS0303	3.2	40	180	150	240x135x100	265x165x225	20-80	0-30
GS0304	4.5	40	180	300	300x150x100	325x175x230	20-80	0-30
GS0306	6.5	40	180	300	300x150x150	325x175x270	20-80	0-30
GS0410	10	40	240	300	300x240x150	325x265x275	20-80	0-30
GS0610	10	40	360	300	300x240x150	325x265x275	20-80	0-30
GS0615	15	40	360	450	330x300x150	355x325x275	20-80	0-30
GS0815	15	40	480	450	330x300x150	355x325x275	20-80	0-30
GS0915	15	40	540	450	330x300x150	355x325x275	20-80	0-30
GS0822	22	40	480	600	500x300x150	530x330x280	20-80	0-30
GS1022	22	40	600	600	500x300x150	530x330x280	20-80	0-30
GS1222	22	40	720	600	500x300x150	530x330x280	20-80	0-30
GS1422	22	40	840	600	500x300x150	530x330x280	20-80	0-30
GS1522	22	40	900	600	500x300x150	530x330x280	20-80	0-30
GS1030	30	40	600	600	500x300x200	530x330x330	20-80	0-30
GS1230	30	40	720	600	500x300x200	530x330x330	20-80	0-30
GS1430	30	40	840	600	500x300x200	530x330x330	20-80	0-30
GS1530	30	40	900	600	500x300x200	530x330x330	20-80	0-30

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COMMERCIAL ULTRASONIC CLEANER GRANBO

S Series Digital model (Timer & Heater & Degas) operation steps



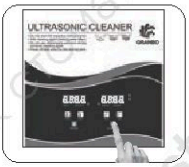
Check the machine

Plug the machine to be sure the machine will be in a state of electricity after start the power switch on the back.



Uncover the lip and fill the tank with tap water.

No water operation will damage the machine, please put the cleaning objects in the water. Fully immerse the part to be cleaned in the water, but do not over the MAX line.



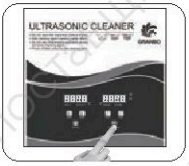
Time setting

Default time is “ 05 00 ”. Press “ TIME+ ” once to increase time by 1minute.Press TIME- ” once to decrease time by 1minute. Press ON/OFF after time setting and ultrasonic indicator light on, machine works follow the setting parameter and stop work when time counts down to “ 00 00 ”, then indicator light off.



Temperature

Temperature display panel shows “ 50 ” and actual detergent temp. Press “ TEMP+ ” to increase setting temperature by 1℃, press “ TEMP- ” to decrease setting temperature by 1℃. Press “ ON/OFF ” to start heating function and heater indicator on, actual temperature number will blazing by 1Hz Frequency during heating process, heater indicator light will off when temperature reaches the setting temperature.



Degas

In the downtime, press “ UTRASONIC ” button 3 times within 3 seconds to enter the intermittent degassing mode, then the machine will work for 6 seconds and stop for 3 seconds to run alternately until the time end.



Finish work

Please do unplug the machine first after working, and then clean the tank. Be sure no liquid is in the tank if need long-term storage.

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