

Product Specification

>>>>>> Digital model with multi function (with timer and heater) <<<<<<<<

Model	Capacity (L)	Frequency KHz	Ultrasonic Power (W)	Heating Power (W)	Tank Size (LxWxH mm)	Unit Size (LxWxH mm)	Temp. (°C)	Timer (MIN)
010SD	2L	40	30/60	150	150x135x100	175x160x210	05---90	0--30
020SD	3.2L	40	60/120	150	240x135x100	265x165x230	05---90	0--30
030SD	4.5L	40	90/180	300	300x150x100	325x180x230	05---90	0--30
031SD	6.5L	40	90/180	300	300x150x150	360x180x270	05---90	0--30
040SD	10L	40	120/240	450	300x240x150	370x265x280	05---90	0--30
060SD	15L	40	180/360	450	330×300×150	400×325×280	05---90	0--30
080SD	22L	40	240/480	600	500×300×150	580×325×280	05---90	0--30
100SD	30L	40	300/600	600	500×300×200	580×325×335	05---90	0--30

Instruction Manual

MECHANICAL MODEL

(Without heater)

MECHANICAL MODEL

(with knob timer and heater)

DIGITAL MODEL

(with digital timer and heater)

POWER ADJUSTABLE MODEL

(with timer and heater, and adjustable power)

APPLICATION: Electronic factory, Car work shops, Industrial and mining area, Laboratories, Hospitals, Dental clinics, Watch shop, Optical shops, Jewelry shops, Mobile phone repair shops, and household use.

Cautions

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.

- 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 transducer will be damaged. If heating is needed, the water level shouldn't 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 suitable model or basket based on cleaning objects.

- series standard ultrasonic cleaner suggest using water-soluble liquid. Strong acid or flammability cleaner is forbidden. Heater is forbidden if use volatile solvent-based cleaning agent. Machine is recommended to rest period of time (usually more than 3 minutes) after work 30 minutes.

- 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 exists corrosive gas or dust;
- The place where vibration or impact is strong;
- The place where is filled with explosive and flammable gas;



Heater is forbidden when using flammable liquid (such as alcohol, solvent cleaner etc.) to clean objects.

Product Specification

>>>>>> Mechanical model(without heater) <<<<<<<

Model	Capacity (L)	Frequency KHz	Ultrasonic Power (W)	Heating Power (W)	Tank Size (LxWxH mm)	Unit Size (LxWxH mm)	Temp. (°C)	Timer (MIN)
010B	2L	40	80/120	/	150x135x100	175x160x210	/	0--30
020B	3.2L	40	120/180	/	240x135x100	265x165x230	/	0--30
030B	4.5L	40	180	/	300x150x100	325x180x230	/	0--30
031B	6.5L	40	180	/	300x150x150	360x180x270	/	0--30
040B	10L	40	240/360	/	300x240x150	370x265x280	/	0--30
060B	15L	40	360/480	/	330x300x150	400x325x280	/	0--30
080B	22L	40	480	/	500x300x150	580x325x280	/	0--30
100B	30L	40	600/720/900	/	500x300x200	580x325x335	/	0--30

>>>>>> Mechanical model(with timer and heater) <<<<<<<

Model	Capacity (L)	Frequency KHz	Ultrasonic Power (W)	Heating Power (W)	Tank Size (LxWxH mm)	Unit Size (LxWxH mm)	Temp. (°C)	Timer (MIN)
010	2L	40	80/120	150	150x135x100	175x160x210	20--80	0--30
020	3.2L	40	120/180	150	240x135x100	265x165x230	20--80	0--30
030	4.5L	40	180	300	300x150x100	325x180x230	20--80	0--30
031	6.5L	40	180	300	300x150x150	360x180x270	20--80	0--30
040	10L	40	240/360	450	300x240x150	370x265x280	20--80	0--30
060	15L	40	360/480	450	330x300x150	400x325x280	20--80	0--30
080	22L	40	480	600	500x300x150	580x325x280	20--80	0--30
100	30L	40	600/720/900	600	500x300x200	580x325x335	20--80	0--30

>>>>>> Digital model (with timer and heater) <<<<<<<

Model	Capacity (L)	Frequency KHz	Ultrasonic Power (W)	Heating Power (W)	Tank Size (LxWxH mm)	Unit Size (LxWxH mm)	Temp. (°C)	Timer (MIN)
010S	2L	40	80/120	150	150x135x100	175x160x210	05--90	0--30
020S	3.2L	40	120/180	150	240x135x100	265x165x230	05--90	0--30
030S	4.5L	40	180	300	300x150x100	325x180x230	05--90	0--30
031S	6.5L	40	180	300	300x150x150	360x180x270	05--90	0--30
040S	10L	40	240/360	450	300x240x150	370x265x280	05--90	0--30
060S	15L	40	360/480	450	330x300x150	400x325x280	05--90	0--30
080S	22L	40	480	600	500x300x150	580x325x280	05--90	0--30
100S	30L	40	600/720/900	600	500x300x200	580x325x335	05--90	0--30

>>>>>> Digital with power adjust Model(with timer and heater) <<<<<<<

Model	Capacity (L)	Frequency KHz	Ultrasonic Power (W)	Heating Power (W)	Tank Size (LxWxH mm)	Unit Size (LxWxH mm)	Temp. (°C)	Timer (MIN)
040ST	10L	40	100~240	450	300x240x150	370x265x280	05--90	0--30
060ST	15L	40	150~360	450	330x300x150	400x325x280	05--90	0--30
080ST	22L	40	200~480	600	500x300x150	580x325x280	05--90	0--30
100ST	30L	40	240~600	600	500x300x200	580x325x335	05--90	0--30

Application

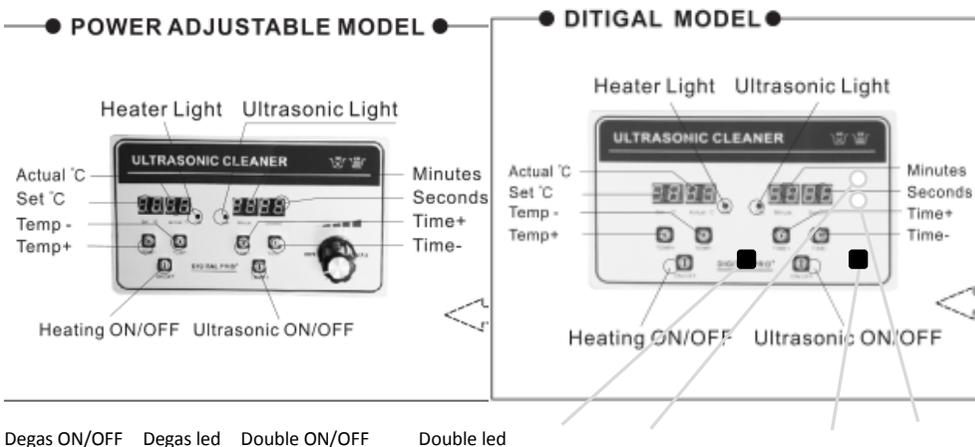
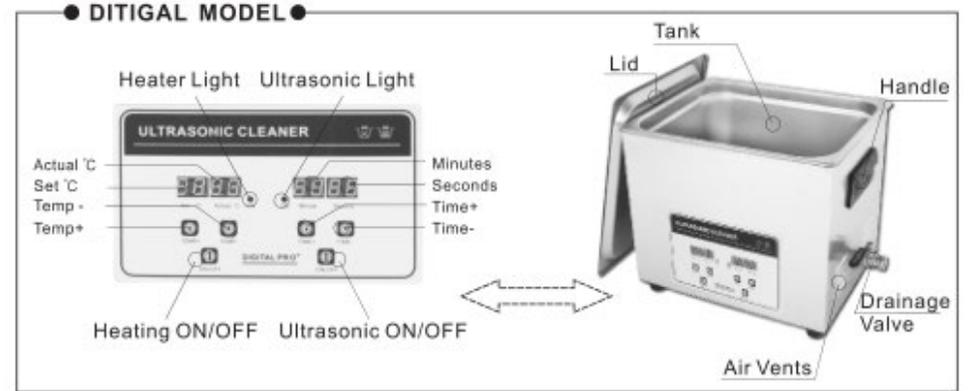
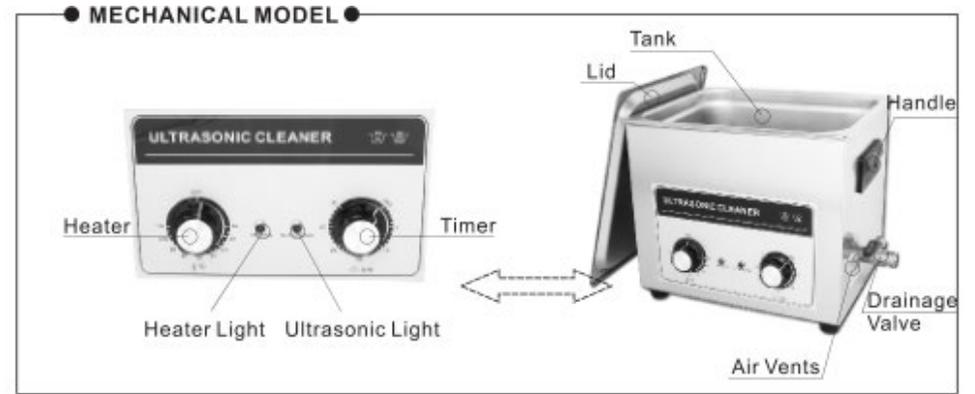
Ultrasonic application description

■ series 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: room temperature ~80°C.

■ 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.

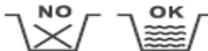
Industry	The cleaning products and materials	Clear dirt
Semi-conductor	Integrated circuit, power tube ,silicon wafer, diode, lead frame, capillary, tray, etc.	Hards, etching oil, polishing wax, dust particles, etc,
Electrical& electronic machine	Tube parts, cathode ray tube, printed circuit board, quartz parts ,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.

Product drawing & indication



Operation procedure

- Add suitable detergent based on cleaning requirement.
- Ensure correct power and switch connect before starting the equipment.



● Start ultrasonic

Machine will be in a state of electricity after start the power switch on the back.

◇ Mechanical model: set time, clockwise rotate the time switch to chose the time you required between 0~30min. when the indicator light is on and make "ZIZI" sound, it shows ultrasonic works well. **Please take attention that anticlockwise rotate is forbidden.**

◇ Digital model: 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 lightoff. **Please take attention that digital series with power off memory function.**

● Additional operation

■ Heating

◇ Mechanical model: (with heater function model) rotate temperature control knob to adjusted temp and start heating, 40°C-60°C is suggested. (Heater is not suggesting for normal environment). When actual temp is lower than setting temp, heating function will auto start and the heat indicator light on. When temp reaches the setting temp, heat indicator light will off.

◇ Digital model: Temperature display panel shows "50" and actual detergent temp. Press "TEMP+" to increase setting temperature by 1°C, press "TEMP-" to decrease setting temperature by 1°C. Press "ON/OFF" to start heating function and heater indicator on, actual temperature number will blazing by 1HzFrequency during heating process, heater indicator light will off when temperature reaches the setting temperature.

◇ SD series model dual frequency (variable wave) function: the ultrasonic wave works intermittently in the whole wave and half wave of electric power (full wave 5 seconds-stop 1 seconds-half wave 5 seconds-stop 1 seconds). It is advantageous to remove the air in the cleaning liquid, and the cleaning without dead angle is more favorable for cleaning. The function is turned on and the double frequency (variable wave) indicator light is on.

◇ SD series models fast deqi energy: ultrasonic power only works in half of the waveform of electricity, can quickly squeeze out the air in the solution, complete ultrasonic deqi energy, power output in half. However, ultrasonic intensity is only reduced by 20. It is also suitable for the use of less power requirements.

◇ Digital series models: if in the downtime, press the "ultrasonic switch" 3 times within 3 seconds to enter the intermittent degassing mode (work 6 seconds-stop earthquake 3 seconds-work 3 seconds-stop earthquake #timea- cycle work). Until the clock is complete.

● Power off

◇ Mechanical model: temperature control knob rotate to "OFF", heater indicate light off, disconnect the machine power. **Anticlockwise rotate the timer knob is forbidden.**

◇ Digital Model: Machine has stop work or press "ON/OFF" once to stop work, then disconnect machine power.

Pour out the cleaning detergent and use dry rag to clean the tank and whole unit.

Keep the shell clean.

Clean the tank at least once a week.

Maintenance

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 change 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 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 0 H Ms. 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.	Suggestion5 0-60°C
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 change it D. Inquiry our after service engineer.	
5	Not well cleaning	A. Not Strong ultrasonic cleaning. B. Too high too low liquid surface. C. too high too low temperature. D. Not suitable cleaning liquid E. Other reasons.	A Connect ultrasonic button and adjust. B Adjust liquid into best surface. 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.	Suggestion5 0-60°C
6	Electric leakage	A. Customer side not rounded. B. Machine not grounded	A To ensure grounded. B Check if machine earth loosen	
7	Other problems		TEL:+86-0755-23063745.	