

MECHANICAL ULTRASONIC CLEANER

USER MANUAL



FEATURES

Stainless steel housing, tank and lid, nice looking.

Stamp tank without welding gap for better waterproof.

Overheat protector

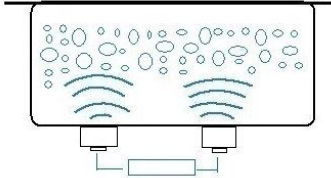
Cooling fan

Moisture-proofed PCB

Industrial grade IC & ultrasonic transducer

Thank you for purchasing the ultrasonic cleaner. Please take the time to read these operating instructions before using and retain them for future reference. Failure to follow these instructions may lead to serious personal injury and damage to property.

INTRODUCTION



Ultrasonic cleaning is based on the cavitation effect caused by high frequency ultrasonic wave vibration signal in the fluid. Microscopic bubbles are formed, and they implode violently causing the cavitation which create an intense scrubbing action on the surface of the item being cleaned. The bubbles are small enough to penetrate microscopic crevices, cleaning them thoroughly and consistently.

Ultrasonic cleaning is extremely effective at removing dirt and grime which would normally require tedious manual cleaning by hand. It has been used to clean a wide variety of instruments and mechanical parts such as carburetors, returning them to almost "like new" condition without damage to delicate parts.

PREPARATION:

1. Carefully unpack the cleaner and remove all traces of packing materials from it.

Visually inspect the cleaner for any parts that may have become loose or damaged during transit.

Contents:

- a: Main machine
 - b: Sound proof lid.
 - c: Power lead
 - d: Outlet filter
 - e: Mesh basket (Optional)
2. Place the cleaner on a flat, clean surface where the cooling fans will receive adequate ventilation and ensure all controls are set to off. Also ensure the drain tap is in the closed position.
 3. Ensure the power lead is securely plugged into the cleaner and that no part of the lead is likely to come into contact with moisture.
 4. Carefully fill at least 1/2 of the tank with a solvent solution. For demanding cleaning we recommend a small amount of washing up liquid, this will help

increase the cleaning performance. The cleaner is now ready for use.



Attention

- a) While the machine is working normally, ultrasonic and tank syntonny gives a well-proportioned sound, and no shudder on the surface of the water, yet there is spray made by the tiny bubbles. If there are discontinuous surges, please add or release a little of washing solution in the tank, stopping the surges is better for the objects cleaning.
- b) On the condition of making sure the cleaning object is cleaned, please run the machine discontinuously as far as possible(not more than 30min.),for long-time running will cause temperature increment of the case .

SAFETY PRECAUTIONS



Keep it away from children !

This device is not intended to use by individuals with restricted physical sensory or metal capacities or those with lack of experience or knowledge, include children, unless they are supervised by an individual who is responsible for their safety or have received training in operating the device.



PLEASE READ THE FOLLOWING VERY CAREFULLY AS FAILURE TO COMPLY MAY INVALIDATE YOUR GUARANTEE

- 1) DO NOT run the cleaner continuously for more than one hour at a time, as doing so can damage the internal components.
- 2) DO NOT operate the unit without fluid in the tank. Always ensure the fluid is no higher than the max mark, Always ensure there is a minimum depth of 7cm.
- 3) DO NOT drop any item into the tank as this may cause damage to the transducer. Always place the items gently into the tank and use the basket whenever possible.
- 4) The more items that you place in your cleaning bath the less efficient it will clean. It is not advised to overlap items. Always allow plenty of clear space between the

items.

- 5) Do keep the lid on during use. This will prevent splashes and reduce evaporation of the fluid.
- 6) Never immerse the machine or power cord in water or other liquid.
- 7) DO NOT touch the power plug with wet hands, especially when inserting or removing the plug.
- 8) DO NOT touch the unit if the machine has fallen into water during operation. Remove the power plug from the socket first.
- 9) DO NOT disassemble the machine, except by professionals.
- 10) UNPLUG the power source while filling or emptying the tank.
- 11) DO NOT spray water or liquid over the device and the control panel
- 12) DO NOT operate the cleaner without proper grounding.
- 13) DO NOT place the device on a soft surface, where the vents could be blocked.
- 14) Always turn the heater off after using as leaving it on can cause the fluid to evaporate and damage the internal components.
- 15) Upon completion of the cleaning cycle, turn the heater knob off and isolate the machine from the electrical supply.
- 16) Take care when adding or removing items from the cleaning tank as the fluid is likely to be hot and displaced fluid can damage the internal components. Any displaced fluid must be dried up immediately.
- 17) In the event of failure/emergency, disconnect the mains supply by removing the plug from the mains socket.

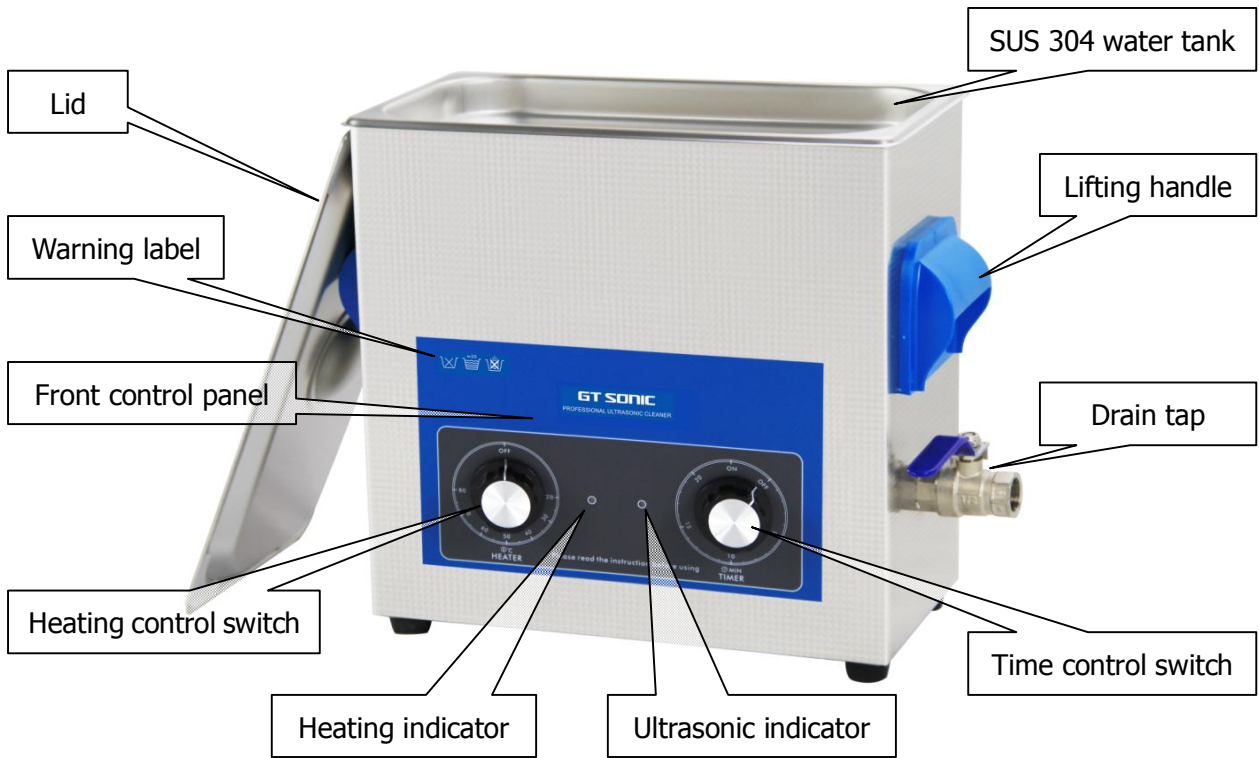
APPLICATION RANGES



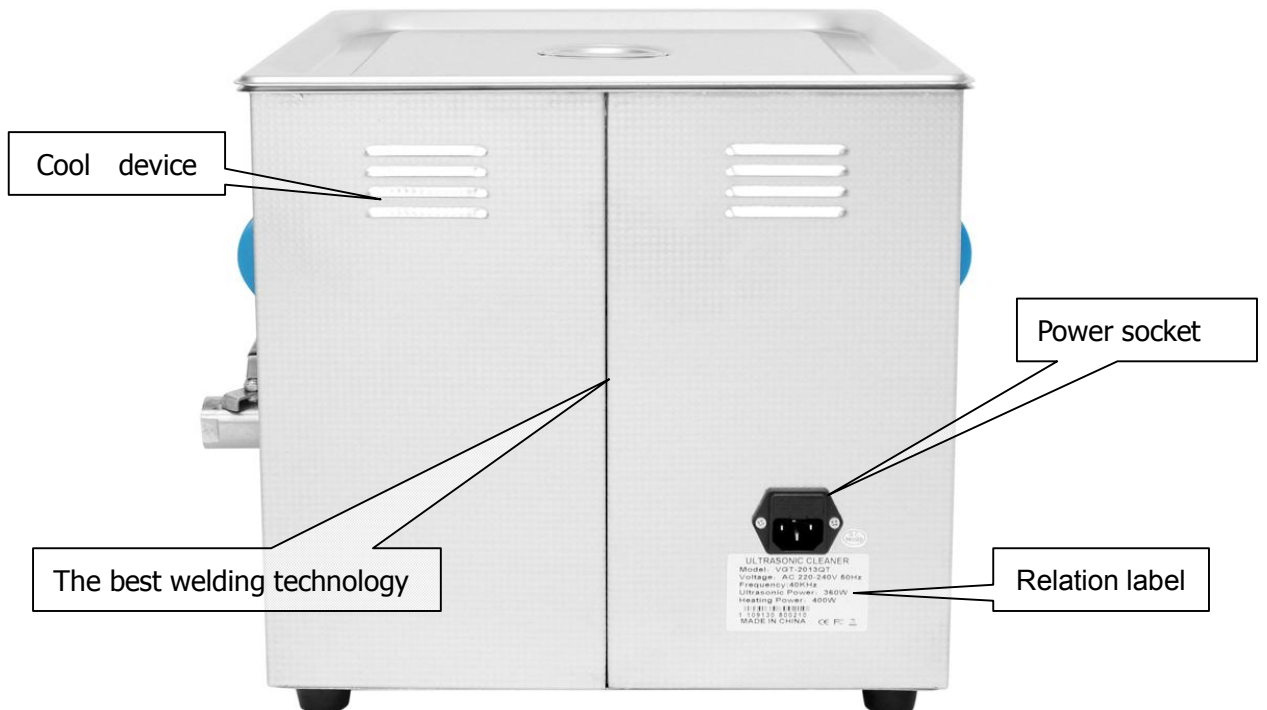
DOMESTIC	
Jewelry	Necklaces, rings, bracelets, earrings etc
Watches and glasses	Waterproof wristwatches, watch chains, glasses, sunglasses etc
Toiletry items	Electric toothbrush heads, electric shaver heads, razor blades, combs, toothbrushes, dentures etc
Discs	CDs, DVDs, DVDs, CD-R discs, laserdisc etc
Office equipment	Printed heads, fountain pen nibs, wax or rubber stamps , Calligraphic pens/ nibs etc
Metal items	Metal cutlery (knives/forks etc),old coins, metal badges, valves, machine nozzles, small metal parts etc

COMMERCIAL/INDUSTRIAL
Airbrushes / Spray guns / Inkjet printer cartridges
Automotive/ Aviation components/Engine cylinder heads
Motorcycle radiators
Dental & surgical instruments
Lenses & other optical components
Laboratory glassware & apparatus

MECHANICAL ULTRASONIC CLEANER STRUCTURE




Back of the machine




OPERATION

1. START UP ULTRASONIC FUNCTION:

- 1) Fill stainless steel tank with water
- 2) Plug the cleaner into grounded outlet;
- 3) Turn the "Timer switch"  left wards to "ON" for continuous working. Or turn the switch right wards to set the 0-20 min working time. During working, you will hear the " sizzling" voice ,that means the cleaner running properly.

2. START UP HEATING FUNCTION:

- 1) Set temperature (if have): Turn the "Heating switch"  button for setting temperature 20°C-80°C. Please set the temperature switch to the degree that needed, normally 40-60°C.

3. STOP ULTRASONIC & HEATING PROCESS:

- 1) Switch "Ultrasonic" button to "OFF", the cleaner will stops working, indicator light turn off. And then disconnect the power supply.
- 2) Switch "Heating" button to "OFF", the heating function will stop.
- 3) Empty the tank and clean both the outside and inside of the cleaner with clean and dry cloth for next use.

DIFFERENT WAYS OF CLEANING

GENNRAL CLEANING—use only tap water. Use warm temperature about 50°C .

ENHANCED CLEANING—add few drops of standard washing up liquid, liquid soap, or detergent into water, other non-acidic cleaning agents can also be used.

EXTENSIVE CLEANING—removing tarnish, carbon & rust from non-plated metals, it is recommended to use specialist cleaning solution in associated using ultrasonic cleaner.

WARNING : Strong acid or alkaline cleaning solution will cause corrosion, rust and even puncture of tank or machine body. To overcome this problem, dilute to mild PH solution or request for tank made of specific grade of stainless steel like SUS304.

PICTURE:



SPECIFICATIONS

Model	Tank Size	Overall Size	Capacity	Power	Frequency	Heating power	Time Setting	Heating
	(L×W×H)mm	(L×W×H)mm	L	W	KHz	W	Min	℃
VGT-1607	150×85×65	175×110×185	0.7	50	40	--	--	--
VGT-1613T	150×140×65	190×170×185	1.3	50		--	0-15	--
VGT-1620T	150×140×100	190×170×220	2	50		--	0-15	--
VGT-1730T	240×140×100	270×170×200	3	100		--	0-15	--
VGT-1730QT	240×140×100	270×170×200	3	100		100	0-20	20-80
VGT-1860QT	300×155×150	330×180×310	6	150		300	0-20	20-80
VGT-1990QT	300×240×150	330×270×310	9	200		300	0-20	20-80
VGT-2013QT	330×300×150	360×330×310	13	300		400	0-20	20-80
VGT-2120QT	500×300×150	550×330×310	20	400		500	0-20	20-80
VGT-2227QT	500×300×200	550×330×360	27	500		500	0-20	20-80

