GT SONIC-S SERIES ULTRASONIC CLEANER USER MANUAL

Dentalzone



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

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01. OVERVIEW/SCOPE OF DELIVERY

Note:Check that all accessories are include and undamaged.





A : Lid B:Handles C:Warning marking D: Housing

E: Drain tap F: Controlpanel G:Rubber feet H: Louver

I: Socket J: Powerswitch

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Contents:



a: Main machine



b: Soundproof lid



c: Power cord



d: Outlet filter
available for 6L-9L



e: Mesh basket



f: User manual

02. SAFETY INSTRUCTIONS

Intended use

The cleaner can be used for commercial purpose indoors only.

Possible misuse

The cleaner must only be used according to the purposes described in these instructions.



DANGER for children

//This cleaner 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 cleaner .

//Cleaning and maintenance shall not be carried out by children without supervision.

//Store the cleaner and accessories where it is not reachable by children.

//Children must not play with packaging material.

//Do not allow children to play with bags.Danger of suffocation.



DANGER of electric shock

//Do not operate the cleaner if it or the cable shows visible signs of damage or if the cleaner has been dropped.

//Only connect the mains plug to a properly installed socket,which is easily accessible and supplies voltage matching the rating plate. The socket must still be easily accessible after connection.

//Ensure that the cable not damaged by sharp edges or hot surfaces. Do not wrap the cable around the cleaner (cable break danger!)

//Make sure the cable is not trapped or crushed.

//Do not remove the grounding prong on the line cord plug.

//Remove the mains plug from the socket,when after each use,if a fault occurs,when you are not using the cleaner,before cleaning the cleaner and during thunderstorms.

//To avoid any risk,do not make any changes to the cleaner or accessories.

//Do not replace the cable yourself either.Repairs must only be carried out by a specialized company.

//Do not disassemble your cleaner--high voltage inside the cleaner is dangerous.Except by specialist.

//Do not immerse the cleaner or power cord in water or other liquid.



DANGER of electric shock as a result of moisture

//Do not use this cleaner in the vicinity of bathtubs, showers, washbasins or other vessels containing water.

//Never put the cleaner down in such a way that it could fall into water

//Protect the cleaner from moisture,dripping water or splash water.

//Never touch the cleaner with the wet hands.

//The cleaner ,the cable and the mains plug must not fall into water.

//If the cleaner has fallen into water,pull out the mains plug immediately, and only then remove the cleaner from the water.Do not use the cleaner again,but have it checked by a specialist.

WARNING !To prevent personal damage

//Do not touch the stainless steel tank or cleaning solution--they may be hot.

//Do not allow fluid temperature to exceed 70℃(160℉).When temperature exceed 70℃,cleaning effect will be affect.The best temperature suggest is 40℃-60℃.

//Do not place your fingers or hands into the tank while the cleaner is operating.Doing so may cause discomfort and possible skin irritation.

//Do not ever use alcohol ,gasoline or flammable solutions.Doing so could cause a fire or explosion and will avoid your warranty.Only use non-flammable solutions and water-based solutions.

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WARNING !To prevent damage to the cleaner

//Do not operate the cleaner when the tank is empty.

Dry running will damage the cleaner.

//When filling the tank, always ensure that the water immersed the 1/2 of tank and do not exceeded the max line.

//Do not place parts or containers directly on the bottom of the cleaning tank; Use basket to suspend items.Failure to comply may cause transducer damage .The stainless steel basket absorbs less ultrasonic energy .

//Use the original accessories only.

//Never place the cleaner on hot surfaces or near heat sources or open fire.Place the cleaner on a dry and smooth surface.

//Do not place the cleaner on a soft surface that might cover the openings.

//Do not run the cleaner for continuous working more than 1.5 hours .

//Do not hit the cleaner.Be careful when moving the cleaner.

//Do not expose the cleaner to temperature below -10℃ or above +40℃.

//Do not ever use strong acid and alkali .These could damage the tank.

03.Application

Objects to be cleaned(application examples):

- Jewelry especially gold, silver & platinum
- Laboratory
- Hospital &Dental
- Beauty& Nail tools
- Automotive and motor parts
- Metal parts cleaning
- Industrial parts and tools
- Laser Component
- Electronic Boards

The list is almost endless. Provided the product is non porous and can normally be immersed in water almost anything can be thoroughly cleaned.










Items Not suitable for ultrasonic cleaning:

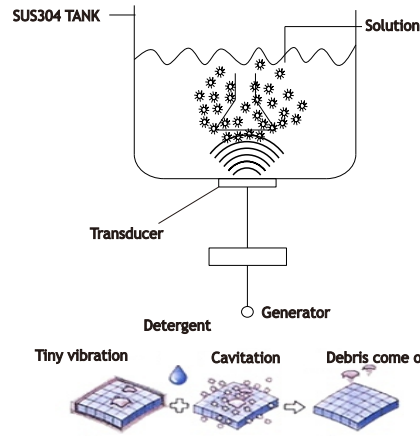
Soft Jewelry: Pearls, emerald, ivory, coral. Agate, sea turtle shells, etc.

Welded, Plated and Glued Items: Welded or plated metal items, glued items.

Watches: Except diver's watches with depth rating over 50m(150ft).

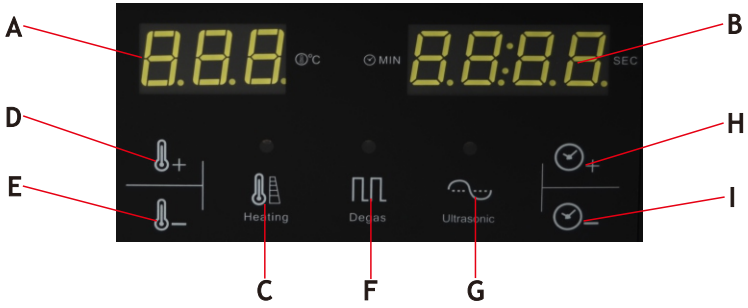
Others: Ceramic, camera filters with preexisting cracks.

04. INTRODUCTION



Ultrasonic cleaning is based on the cavitation effect caused by the vibration of high frequency ultrasonic waves in the liquid . Microscopic bubbles are formed. These implode 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 in removing dirt and grime which would normally require tedious manual cleaning . It is used to clean a wide variety of instruments and mechanical parts ,returning them to almost "brand new" condition without damage to delicate parts.



A: LED display temperature.

B: LED display cleaning time.

C: Heating button: Touch this button to start/stop heating.
(Note 1: The new machine will display the ambient temperature when first time use.)

D: Increase Temperature:
Touch this button to set the temperature.
Touch one time to increase 1℃ , holding the button to increase by 10℃ .

E: Temperature reduce:
Touch this button to set the temperature.
Touch one time to reduce 1℃, holding the button to reduce by 10℃.

F: Degas: Fresh solutions with many airs which reduce effective ultrasonic action.
Using Degas mode speeds up the degassing process and improves cleaning efficiency.

G: Ultrasonic button: touch this button for start/stop ultrasonic.

H: Timer increase: touch this button to set the cleaning time.
Touch one time to increase 1minute, holding the button to increase by 10minutes.

I: Timer reduce:
Touch one time to reduce 1minute, holding the button to reduce by 10minutes.

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05.OPERATION

Step	Action
1	Select your cleaning solution, fill at least ½ of solution into the tank. Do not exceed the filling line. Note: Do not ever use alcohol, gasoline or flammable solutions. Doing so could cause a fire or explosion. Use only water-based solutions.
2	Place the items into a basket, slowly lower the basket into tank, do not allow items to contact the tank bottom (solution should cover the items).
3	A: Plug the cleaner into grounded outlet. B: Power on and turn on the power switch on back side of the machine. Note: After the power is on, the temperature you see on the machine is environment temperature. Time and temperature default to the last setting.
Timer 	Touch   to set the cleaning time. When timer countdown is 00:00, the cleaner will shut off.

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Heating 	Touch to start/stop heating. Touch  to setting the temperature. **Note:** 1. To get the best cleaning result, the solution's temperature we suggest is 40-60℃. Warm water and dish washing liquid can soften grease and improve cleaning result. 2.When setting the temperature, if the setting temperature exceeds the ambient temperature, touch  key, the heating working, and indicator on. If below ambient temperature, the heater will not start, and indicator will turn off. 3:Heating function won`t shut off automatically , make sure turn off the heating button if do no use . (**Note**:if you don't touch or use heating function for 2 hours.The heating function will shut off automatically.)
Degas Mode 	After timer and temperature setting, touch  , the corresponding indicator on and the device will work in degas mode: working 6 seconds, and stop 2 seconds, then working 6 seconds,….cycle like this with countdown display. Intermittent operation of ultrasonic power for a quicker degassing of the cleaning liquid.If you want to transfer to other mode, just touch  ,then the "degas" indicator turn off and indicator for "ultrasonic" turn on; If want to stop working, touch  again, then both heating and ultrasonic will stop and the corresponding indicator turn off.

Ultrasonic Mode 	After timer and temperature setting, Touch  “ultrasonic” key, the corresponding indicator on and the device will work: continuously working with full ultrasonic power and countdown display. If you want to transfer to other mode, just touch  or  , the “ultrasonic” indicator turn off and indicator for “degas” turn on; if you want to stop working, touch  again, then both heating and ultrasonic will stop and the corresponding indicator turn off.
Last	When the cleaning is completed, unplug the power cord, open the lid, take out the basket and items . Until the solution cooling and then empty the tank and clean both the outside and inside of the device with clean and dry cloth for next use.Keep the drainage valve closed. (for 6L and above units).

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.

06.CARE AND MAINTENANCE



CAUTION!Before cleaning the device,pour water out until it’s cooling,and pull out the power plug,hot water will hurt your and damage the machine itself.

//Do not cleaning the cleaner with corrosive detergent or pointed object.

//Use a cloth to cleaning and dry the tank.

//Ensure that there is no residual water left in the tank in order to prevent limescale.

//Store the device in a cool and dry place.

//Keep the device out of children's reach.

//Check the joint of the power plug and cord.

//DO not impact ,hit the device. Handle with care when move the device.

07.SPECIFICATIONS

Model	Tank Size (L*W*H)mm	Unit Size (L*W*H)mm	Volume (L)	Ultrasonic Power (W)	Frequency (kHz)	Heating Power (W)	Timer (Min)	Heating Temperature (℃)
GT SONIC-S2	150x140x100	175x165x230	2	50	40	100	1-99	30-80
GT SONIC-S3	240x140x100	330x165x230	3	100		100	1-99	30-80
GT SONIC-S6	300x150x150	400x175x305	6	150		300	1-99	30-80
GT SONIC-S9	300x235x150	400x265x305	9	200		300	1-99	30-80