

GT SONIC-S SERIES ULTRASONIC CLEANER

USER MANUAL



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 operation

Note:Check that all accessories are included 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 | |

Contents:



a: Main machine



b: Soundproof lid



c: Power cord



d: Outlet filter
available for 6L-9L



e: Mesh basket

GT SONIC-5 SERIES ULTRASONIC CLEANER
USER MANUAL



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f: User manual

02. SAFETY INSTRUCTIONS

Intended use

The cleaner can be used for commercial purposes & 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 mental capacities or those with lack of experience or knowledge including children, unless they are supervised by an individual who is responsible for their safety or has received training in operating the cleaner correctly.

Cleaning and maintenance shall not be carried out by children or untrained personnel without supervision.

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

Children must not play with packaging material. It can be dangerous.

Do not allow children to play with bags as there is a 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 mains cable is not damaged by sharp edges or hot surfaces. Do not wrap the cable around the cleaner.

Make sure the cable is not trapped or crushed.

Do not remove the grounding prong on the mains cord plug.

Remove the mains plug from the socket 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. Repairs must only be carried out by specialized repairers.

Do not disassemble your cleaner due to the high voltage inside the cleaner. Only to be completed by specialized repairers.

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 if it is 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 splashing 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, before having it checked by a specialized repairer.

WARNING - To prevent personal damage

Do not touch the stainless steel tank or cleaning solution as they may be hot after operation.

Do not allow the fluid temperature to exceed 70°C. When temperature exceeds 70°C the cleaning efficacy will be reduced. The best temperature suggestion is 40°C - 60°C.

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 can cause a fire or explosion and will void your warranty. Only use non-flammable and water-based solutions.



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 is past $\frac{1}{2}$ way of tank and do not exceed the max fill line at the top of the tank.

Do not place parts or containers directly on the bottom of the tank.

Use only the basket to suspend items. Failure to comply with this may cause transducer damage. The stainless steel basket absorbs less ultrasonic energy.

Use 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 continuously for more than 1.5 hours.

Do not hit the cleaner. Be careful when moving the cleaner to prevent damage.

Operating temperature range is -10°C or above $+40^{\circ}\text{C}$.

Do not use strong acid and alkali solutions as these could damage the tank.

03. Application

Examples below are of items that are suitable for ultrasonic cleaning

- Jewellery especially gold, silver & platinum
- Laboratory Glassware
- Hospital, Medical & Dental Instruments
- Beauty & Nail Tools
- Automotive and motor parts
- Metal parts
- Industrial parts and tools
- Laser Components
- Electronic Boards

The list is almost endless as to possible uses provided the product is non-porous and can regularly be immersed in water. Always consult the manufacturer of the item to confirm suitability for processing inside an ultrasonic cleaner.

Examples of items not suitable for ultrasonic cleaning:

Soft Jewellery: 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

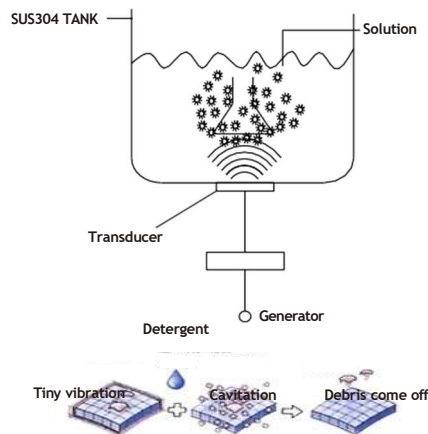
Ultrasonic cleaning is based on the cavitation effect caused by the vibration of high frequency ultrasonic waves in liquid.

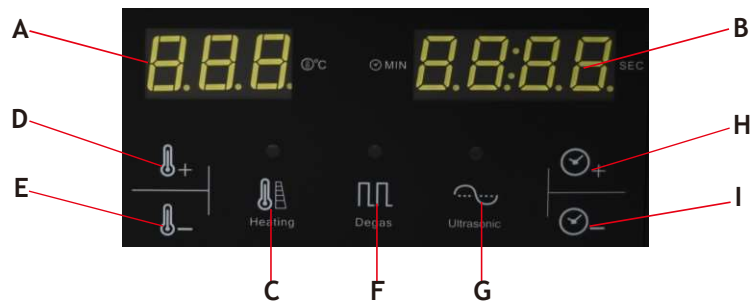
Microscopic bubbles are formed and implode causing cavitation which creates an intense cleaning action on the surface of the item

being cleaned. The bubbles are small enough to penetrate microscopic

crevices cleaning 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.





A: Display for temperature.

B: Display for cleaning time

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

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

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




F: Degas:
Fresh solution reduces effective ultrasonic action. Press the degas button every time the solution is changed and the degas program will run. Once completed the unit is good for use.







G: Ultrasonic Button: Touch this button for start/stop ultrasonic.



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

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

05. OPERATION

Step	Action
1	<p>Fill the tank at least half way. Follow manufacturers instruction for dilution if using a detergent solution.</p> <p>Do not exceed the max fill line at the top.</p> <p>Note: Do not ever use alcohol, gasoline or flammable solutions. Doing so could cause a fire or explosion. Use only water-based solutions.</p>
2	<p>Place the items into a basket, slowly lower the basket into tank, do not allow items in the basket to contact the tank bottom (solution should cover the items).</p>
3	<p>A: Plug the cleaner into a grounded mains outlet.</p> <p>B: Turn on the power switch on the back of the machine.</p> <p>Note: After the power is on, the temperature you see on the machine is ambient temperature. Time and temperature default to the last setting.</p>
Timer 	<p>Touch   to set the cleaning time. When timer countdown is 00:00, the cleaner will shut off.</p>

<p>Heating</p> 	<p>Touch heating button to start/stop heating.</p> <p>Touch   to set the required temperature.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. To get the best cleaning result, the temperature we suggest is 40-60°C. 2. When setting the temperature if the set temperature exceeds the ambient temperature, touch the  key. When illuminated the heating function is working. If below the ambient temperature, the heater will turn off. 3. The heating function won't shut off automatically when manually turned on, make sure to turn off the heating button if not required. <p>(Note: If you don't touch or use heating function for 2 Hours it will shut off automatically.)</p>
<p>Degas Mode</p> 	<p>After timer and temperature are set, touch  and the device will work in degas mode and will have a countdown on the display. When the timer hits 00:00 the degas mode is complete.</p> <p>The Intermittent operation of ultrasonic power during this mode allows a quicker degassing of the cleaning liquid. This step is important before normal operation.</p>

Ultrasonic Mode 	<p>After timer and temperature are set and the degas cycle run, Touch “ultrasonic”  key, the corresponding indicator will light up and the device will work continuously with full ultrasonic power until the timer countdown reaches 00:00.</p>
Last	<p>When the cleaning is completed, unplug the power cord, open the lid and take out the basket and items.</p> <p>Once the solution has cooled empty the tank into a “dirty” sink and clean both the outside and inside of the device for next use. Keep the drainage valve closed after the tank has been emptied. (for 6L and above units)</p>

WARNING : Strong acid or alkaline cleaning solution will cause corrosion, rust and even puncture of the tank. To overcome this problem, dilute to a mild PH solution.

06.CARE AND MAINTENANCE

CAUTION!



Before cleaning the device pull the power plug from the outlet and pour out the solution out once cooled, hot water can cause personal injury and damage the machine itself.

Do not clean the device with corrosive detergent, pointed or abrasive objects.

Use a cloth to clean and dry the tank.

Ensure that there is no residual water left in the tank in order to prevent lime scale.

Store the device in a cool and dry place.

Keep the device out of children's reach.

Check the insulation of the power cord and plug.

Do not drop or hit the device.

Handle with care when moving 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 (°C)
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

