

Sonicator (Ultrasonic Bath) 3001 Series

Principle of Ultrasonic Cleaning:

Ultrasonic (Ultrasound) is the sound which human beings cannot hear. Ultrasonics utilises frequencies from and above 18 KHz (18,000 cycles per sound).

High frequency electrical energy is converted into ultrasound waves by means of ultrasonic Transducers, which are bonded on the base of S.S cleaning Tank. These high frequency sound waves create in the liquid countless, Microscopic Vacuum Bubbles, which rapidly expand and collapse. This phenomenon is CAVITATION. These bubbles act like miniature high speed brushes, driving the liquid in to all openings and minute recesses of the object immersed in the liquid. Intense scrubbing of Cavitation cleans away all the dirt and soil from the object immersed and the object is perfectly cleaned. Intricate objects can be cleaned with complete or little Dismantling.

Applications:

Laboratory	For Glassware, Filters, cleaning & HPLC Mobile, Phase Degassing
Industrial	Printed Circuit Board, Semi-Conductors, Electronic Components, Precious Parts & Mechanisms.
Medical	Dental & Surgical Instruments.
Opticals	Spectacles, Spectacle Frames, Lenses,
Jewellery	For all kinds of Jewellery, Precious Stones etc.
To Remove	Dust, Oils, Greases, Polishing Compounds, Waxes, Swarf, Stains, Soils, and any other Contaminants.

Salient Features:

- Easy to operate & maintain with one piece S.S. Tank.
- Indigenously manufactured with advanced Technology, with auto-tuning facility.
- Digital tuning of transducers with Generators to avoid any frequency shifted even during demanding applications.
- Compact, rugged and highly durable systems.
- Extensively protected electronic circuits means longer and Safer Operations.

Technical Specification:

- Operating Frequency 33±3KHz, for all general purpose cleaning is highly recommended.
- Input Voltage range of 170V AC - 270V AC, 50 Hz, 1 Ph.
- Micro Controller based timer range 0 to 30/99 minutes
- Thermostatic controlled temperature controller

Capacity	Tank Size (L x B x H)mm	Over all Dimension (L x B x H)mm	Wattage
1.5 Lit	240 x 135 x 65	265 x 160 x 180	60W
3.5 Lit	300 x 150 x 100	330 x 175 x 250	120W
6.5 Lit	300 x 150 x 150	450 x 200 x 350	200W
9 Lit	300 x 200 x 150	450 x 300 x 375	250W

*Other capacity other than mentioned are also available as per customer requirement.



▶▶ Regulatory compliances



▶▶ Corporate Social Responsibility



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