

# Ultrasonic Bath **SONICATOR**



[www.pcianalytics.in](http://www.pcianalytics.in)

Models available:

- 1.5 Ltr. to 9 Ltr. & above
- Heater / Temp. controller optional
- Body S. S. or M. S. Powder Coated
- Probe Sonicator

**Ultrasonic Bath**

# Ultrasonic Bath (Sonicator)



1.5 liters (Imported)



1.5 liters



3.5 liters



6.5 liters

## Principle of Ultrasonic Cleaner:

High frequency electrical energy is converted into ultrasound waves by means of ultrasonic Transducers, which are bonded on the base of S. S. Water 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 minutes 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 either complete or little Dismantling.

## Applications :

- Laboratory : For Glassware, Filters Cleaning & HPLC Mobile Phase, Degassing
- Industrial : 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 contaminant.

## Technical Specification :

- Operating frequency  $33 \pm 3$  KHz, for all general purpose cleaning is highly recommended. Frequency of 50 KHz is also available
- Input voltage range of 170V AC - 270V AC, 50 Hz, 1Ph.
- Micro controller based timer range 0 to 15 minutes upto 3.5 ltrs. 30/99 min. timer are also available.
- Thermostatic heating
- Digital Temperature Controller (optional) if required

## Salient Features :

- Easy to operate & made of one piece S. S. Tank.
- Indigenously manufactured with advanced MOSFET 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.

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
1.5 Lit (Imported)	175 x 147 x 80	230 x 190 x 160	60W

\* Higher capacity other than mentioned are also available as per customer requirements.

## Probe Sonicator



### Applications:

- Tissue Processing (Plant & Animal Tissues)
- Emulsification of Immiscible Liquids.
- Formulations.
- Particle Dispersion.

Note:

Probe sizes available:  
12mm Dia, 20mm Dia.

## Ultrasonic Performance Meter



Model: Sonic-200

Instant measurement of ultrasonic cleaning tank performance

Provides accurate understanding of the ultrasonic behavior during the cleaning process

The SONIC 200 Ultrasonic Performance Meter monitors cavitation within the liquid medium in an ultrasonic cleaning bath. It employs a hand-held probe allowing measurements to be taken at various locations throughout the bath. The probe's high sensitivity means that problems with an ultrasonic cleaner can be detected before they become critical.

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