

BOGHI Engineering & Software Technologies Private Limited

Branch Off: 4th Floor; CoKarma, Veer Chambers, Begumpet, Secunderabad, Telangana State-500016. Cell:9121003011

Regd. Off: Plot No.11, Anand Nagar-1, Bandlaguda, Nagole, Hyderabad, Telangana State-500068. Cell: 9347006933/9704010147

www.boghiengineering.com



ULTRASONICS PRINCIPLE

Ultrasonics (Ultrasound) is the sound which human beings cannot hear. Ultrasound utilizes frequencies from and above 18khz (18,000 cycles per time) High frequency electrical energy is converted into ultrasound waves by means of ultrasonic Transducers, which are bonded on the base of Steel Cleaning Tank. These high frequency sound waves create in the liquid countless, microscopic vacuum Bubbles which rapidly expand and collapse.

Ultrasonic cleaning is the most effective, economical & powerful cleaning methods for various applications in

- *Laboratories*
- *Dental*
- *Medical Technology*
- *Micro Electronics*
- *Precision Engineering*
- *Optics*
- *Cosmetics and*
- *Automotive Industry.*

For the removal of air spaces in the liquid formulations

For Cleaning of Dental Appliances

The Physical properties of imploding vacuum bubbles cause tiny air bubbles to form in the cleaning fluid, which generate up to 1000 Bar & 5000°C when the forces implode and penetrate all small cavities. Combined with a cleaning agent geared to the type of contamination and the material to be cleaned, it is possible, through the cavitation forming on the part to be cleaned without any additional manual workload, to remove residues like oil carbon, incrustations, grease, oils, oxidation, paints, dust, rust, limescale etc. quickly in a way that protects the material and does not leave behind any residual matter

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ULTRASONIC BATH SONICATOR (MAKE: LABMAN)



Digital Ultrasonic Cleaner (Sonicator)

LMUC SERIES - 2.5L to 24L

Digital 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. returning them to almost "like new" condition without damage to delicate parts.



E - Catalogue

SALIENT FEATURES

- ✦ Normal and soft power control for the cleaning spots .
- ✦ Degas function for improve the cleaning effect.
- ✦ Time Setting: 1-99minutes adjustable.
- ✦ Heating Temperature RT+5°C ~ to 80°C
- ✦ User-friendly and clear panel
- ✦ Memory function
- ✦ LID & Basket is Standard Supply
- ✦ Drainage and cool fan available in 5L to 24L
- ✦ Blue LED Display

Ultrasonic Cleaners available from 2.5ltrs to 100ltrs capacity

NOTE: Not recommended for the following Gemstones:

Opal; Pearl, Emerald, Tanzanite, Malachite, Turquoise; Lapis & Corals

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Digital Ultrasonic Cleaner

HSN Code : 84562000

SPECIFICATIONS	MODEL	LMUC3D	LMUC6D	LMUC9D	LMUC12D	LMUC25D
	Tank Capacity (Approx.)	2.5L	5L	8L	11L	24L
	Tank Size (mm)	240x140x100	300×155×150	300×240x150	330×300×150	500×300×200
	Overall Size (mm)	270x170x240	330×180×310	330×270×310	360×330×310	550×330×360
	Ultrasonic Power	100W	150W	200W	300W	500W
	Heating power	100W	300W	300W	400W	500W
	Tank Drain	NA	Drain Valve			
	Degas Function	Yes				
	Memory	Yes				
	Time Setting	1-99 min.				
	Heating Temp.	RT+5°C ~ to 80°C				
	Display	Digital BLUE LED				
	Frequency	40kHz				
	Lid Material	SS 304				
	Inner Tank Material	SS 304				
	Outer Tank Material	SS 201				
	Power Supply	AC 220V,50/60Hz				
	Weight (approx.)	3.6 kg	7 kg	9 kg	11 kg	16 kg

★ Specifications are subject to change without notice.

STANDARD ACCESSORIES : Main Instrument, Lid - SS Top, Power cable, Basket, Test Certificate

Note : Ultrasonic Cleaner is not recommended for the following gemstones Opal, Pearl, Emerald, Tanzanite, Malachite, Turquoise, Lapis and Coral

Application							
							

Ultrasonic Cleaners available from 2.5ltrs to 100ltrs capacity

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ULTRASONIC BATH SONICATOR-DIGITAL (MAKE: LABMAN):



SS304 - Industrial Ultrasonic Cleaner - 12L, 35L **LMUC13M, LMUC35M,**



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

SALIENT FEATURES

- ❖ Timer & Heater, Control by Knob
- ❖ Ultrasonic power 0-100% adjustable.
- ❖ Time setting 0-30min.
- ❖ Heating Temperature RT+7 ~ 80°C
- ❖ Ultrasonic frequency 40kHz.
- ❖ SS304 Construction Inner Tank
- ❖ SS304 Construction Outer Tank
- ❖ SS304 Construction Lid (Top Cover)
- ❖ Lid & Basket as Standard Supply



Note : Ultrasonic Cleaner is not recommended for the following gemstones
Opal, Pearl, Emerald, Tanzanite, Malachite, Turquoise, Lapis and Coral

Ultrasonic Cleaners available from 2ltrs to 100ltrs capacity

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SS304 - Industrial Ultrasonic Cleaner

HSN Code : 84562000

SPECIFICATIONS

MODEL	LMUC13M	LMUC35M
Tank Capacity (Approx.)	12L	35L
Tank Size (LxWxH)	300 x 240 x180mm	500 x 295 x 250mm
Overall Size (LxWxH)	325 x 265 x 360mm	570 x 360 x 450mm
Ultrasonic Power	300W	600W
Heating power	500W	800W
Wheels	NA	4 Nos
Make	LABMAN	
Ultrasonic Power	0 to 100% (Adjustable)	
Timer	Yes	
Heater Setting	Yes	
Control By	Knob Type	
Tank Drain	Drain Valve	
Time Setting	0 to 30 min.	
Heating Temp.	RT+7 ~ to 80°C	
Frequency	40kHz	
Inner Tank	SS304	
Outer Tank	SS304	
Lid Material	SS304	
Power Supply	AC 220V,50/60Hz	
Packing Dimension (LxWxH)	465 x 405 x 510mm	750 x 550 x 620mm
Gross Weight	14kg	33kg

★ Specifications are subject to change without notice.

STANDARD ACCESSORIES : Main Instrument, Lid , Powercord, Basket, Wheel 4 Nos (LMUC35M), Instruction Manual Test Certificate

Ultrasonic Cleaners available from 2ltrs to 100ltrs capacity



ULTRASONIC BATH SONICATOR-DIGITAL (MAKE: OPTICS):



OT-UBS-335

- Ultrasonic (Ultrasound) is the sound which human beings cannot hear.
- These high frequency sound waves create in the liquid countless, microscopic vacuum Bubbles which rapidly expand and collapse.
- Ultrasound utilizes frequencies from and above 18khz (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. Cleaning Tank.

TECHNICAL SPECIFICATIONS:

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

CAPACITY	TANK SIZE (L x B x H) mm	WATTAGE
1.5 Lit	240 x 135 x 65	60 W
3.5 Lit	300 x 150 x 100	120 W
6.5 Lit	300 x 150 x 150	200 W
8.5 Lit	300 x 200 x 150	250 W
<i>Sonicator with capacities more than 9 Litres are also available on request.</i>		

SALIENT FEATURES:

- 1) Easy to operate & maintain with one-piece SS tank.
- 2) Indigenously manufactured with advanced MOSFET technology with auto-tuning facility
- 3) Digital tuning of transducers with generators to avoid any frequency shift even during demanding applications.
- 4) Compact, rugged, and highly durable systems
- 5) Extensively protected electronic circuits means longer and safer operations.