iGENE LABSERVE®
Innovative • Interactive • Intuitive

DIGITAL ULTRASONIC CLEANER

CONTACT US

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ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customer's needs.

DESCRIPTION

Our Ultrasonic Cleaner delivers powerful and efficient cleaning through high-frequency sound waves, ensuring thorough removal of contaminants from delicate instruments and labware. Designed for precision and reliability, it features adjustable time and temperature settings for optimal performance. Ideal for laboratories, healthcare, and industrial applications, it provides gentle yet effective cleaning without damage.

FEATURES

Continuous Self Tuning Circuitry

- The ultrasonic cleaner features advanced self-tuning circuitry that continuously monitors variations in workload, liquid level, and bath temperature to maintain optimal performance. It automatically adjusts the output parameters to ensure that the ultrasonic energy is delivered consistently. This dynamic adaptation minimizes the need for manual recalibration, thereby enhancing overall operational efficiency and reliability.

Optional 3 modes of sonication

- Degas mode
- Normal mode
- Soft mode

Uniform Cavitations with Special Transducers

- Specially engineered transducers ensure that ultrasonic waves are distributed uniformly throughout the cleaning tank, producing consistent cavitation. This uniform formation and collapse of cavitation bubbles guarantee that contaminants are dislodged evenly across all immersed components. The result is a highly effective cleaning process that reaches even the most intricate and hard-to-access areas.

Separate Oscillator for Generator Protection

- A dedicated oscillator is integrated into the design to operate independently from the transducer circuitry. This separation serves to protect the ultrasonic generator from potential damage in the event of transducer failure or electrical irregularities. By isolating critical components, the system maintains continuous operation and extends the lifespan of the equipment.

Using 40 kHz Frequency for Effective Cleaning with Low Noise

- Operating at a 40 kHz frequency, the ultrasonic cleaner achieves an optimal balance between powerful cleaning performance and low operational noise. At this frequency, cavitation bubbles are generated with sufficient energy to remove contaminants while remaining gentle on delicate parts. This ensures that the cleaning process is both effective and suitable for environments where noise reduction is a priority.

Cleaning Without Dismantling

- The ultrasonic cleaning process is designed to clean both small and large components in their assembled state, eliminating the need for disassembly. Ultrasonic waves penetrate complex geometries and reach crevices, ensuring thorough cleaning of even the most intricate assemblies. This approach saves time and reduces the risk of damage during manual dismantling.

Stainless Steel Construction

- The inner tank and outer body are constructed from stainless steel, a material renowned for its durability and corrosion resistance. This robust construction is ideal for withstanding harsh chemicals and high temperatures, ensuring long-term performance and ease of maintenance. The stainless-steel design also contributes to maintaining high hygiene standards, making the ultrasonic cleaner suitable for demanding industrial applications.

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SPECIFICATIONS

MODEL	IGUC-3	IGUC-4	IGUC-6	IGUC-9	IGUC-12	IGUC-16	IGUC-25
Tank Volume (litres)	3 L	4.5L	6 L	9 L	12 L	16 L	25 L
Actual Water Filling (litres)	2L	3.5L	5L	7L	10L	14L	23L
Ultrasonic Power	100 W	180W	150 W	150 W	200 W	300 W	600 W
Frequency	40 KHz						
Frequency Accuracy	± 03 KHz						
Tank Size (mm)	240 x 140 x 100	300 x 150 x 100	300 x 155 x 150	235 x 135 x 150	30 x 240 x 200	330 x 300 x 200	500 x 300 x 200
Overall Size (mm)	270x170x240	330 x 180 x 240	330 x 180 x 310	325 x 265 x 290	325 x 265 x 340	354 x 325 x 400	530 x 330 x 420
Heating Temp.	Ambient to 80°C Digitally Controlled (Dual Display)						
Time Setting	1 min to 30 min						
Inner Tank Material	Stainless Steel 304						
Outer Tank Material	Stainless Steel						
Power Supply	220 Volt, AC 50 Hz, Single Phase						

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CONNECT WITH US.

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