



# ICON INSTRUMENTS COMPANY

(Manufacturer of Laboratory Equipment)

**IIC-171**



## SONICATOR ULTRASONIC CLEANER IIC

- Laboratory & Pharmaceutical Cleaning Applications.
- Our Sonicator Bath Ultrasonic cleaners to fulfill all cleaning needs of your labs. Sonicator Bath Ultrasonic Cleaners will save time and reduce effort while providing a safe solution for your cleaning needs.
- Now - A - Days Ultrasonic Cleaner is essential tool for Scientific & Pharma Labs. There are many uses of ultrasonic cleaner in QC , R&D & Analytical Labs such as,
- Dissolve, disperse, and emulsify samples
- Sonochemistry i.e. degassing the solution
- Cleaning the glass ware , Lab Instruments
- Sonicator Bath Ultrasonic Cleaner (Sonicator) has design with MOSFET /IGBT & latest Micro-controller base technology. A laboratory will require a cleaning system to ensure that items are completely clean and free from contaminants prior to each use. Any residue or debris left from previous processing could provide inaccurate and incorrect testing results. The use of delicate instruments in the laboratory makes ultrasonic a perfect technology for cleaning and reprocessing. The gentle yet effective cleaning action ensures that contaminants are removed but instruments are not damaged.

### Ultrasonic Cleaning Technology:

Ultrasonic waves is the term used to describe waves having a frequency above the audible range of humans. Whenever high intensity ultrasound is applied to a liquid, the result is millions of millions of tiny bubbles (or cavities) in a liquid. Cavitation is produced by the alternating high and low pressure waves generated by high frequency (ultrasonic) sound. During the low pressure phase, these bubbles grow from microscopic size until, during the high pressure phase, they are compressed and implode known as cavitation. Whenever this happens at the interface of the parts to be cleaned, the surface of the parts - because of the relative lack of compressibility on the part of the cleaning fluid - will experience a local impact.

### Features:

- Compact, lightweight, very efficient - saving valuable and costly power.
- Rugged and reliable systems.
- Micro Controller base Digital Timer.
- With latest MOSFET base technology.
- Automatic frequency tuning for maximum output.
- Low transducer losses permit maximum cleaning action.
- Modular generator for easier modification / Servicing .
- Rugged and easy to clean stainless steel housing.

- Extensively protected electronics circuits for longer and safe operation.
- Frequency 33 + 3 KHz
- Input voltage range of 170AC-270AC.50 Hz
- One Year Warranty.

### •EASY MAINTENANCE :

- The maintenance required is minimum due to high quality components and design, but following maintenance should be done to avoid any defect.
- Clean all outer and visible parts properly.
- Any unauthorized person/ agencies should not be allowed to do any repair.

Model	IIC-Sonic - 171	IIC-Sonic - 171A	IIC-Sonic - 171B	IIC-Sonic - 171C	IIC-Sonic - 171D	IIC-Sonic - 171E
Power (Watt)	50	100	150	250	400	500
Tank Size Inch (LxWxH)	9"x 5.5"x4"	12"x 6"x4"	12"x 6"x6"	12"x 9"x6"	18"x 12"x6"	15"x 15"x8"
Capacity Liters	2.0	4.0	6.5	10.0	20.0	30.0

### Applications :

Printed Circuits Board, Micro Switches, Pens, Syringes Degassing of Liquids, Polished Precious Metals, Camera Closures, Watches, Crystal, Drills Armatures, Dental Instrumentation, Ocular Gravure, Valves, Styluses, Probes, Sieves for pH-Electrodes, etc.

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