



# ANALYSIS INSTRUMENTS

WHERE SERVICE AND QUALITY IS OUR FIRST NATURE

## ULTRASONIC BATH (SONICATORS)

Analysis Ultrasonic Cleaner AIUSB Series is designed to provide powerful ultrasonic oscillations produced by the generators into mechanical vibrations. This leads to intense scrubbing action throughout the liquid filled in the tank which pulls out contaminants from hidden recesses of complicated assemblies, parts immersed in it for cleaning.

### Features:

- ❖ Durable tank and basket made of stainless steel SUS304
- ❖ Adjustable temperature and timer
- ❖ Digital timer and controlled heater
- ❖ Thorough cleaning can be done using tap water
- ❖ Highly efficient cleaning can be done using industrial alcohol or solvent cleaner
- ❖ Microprocessor controller, well-built, reliable circuit control board
- ❖ Built-in drain for safe disposal of contaminated solutions
- ❖ Optional: Basket



### Application:

Analysis Ultrasonic Cleaner is ideal for utility cleaning, emulsification, dispersion, dissolution, extraction, degassing, and can be used in the fields of Biochemistry, Microbiology, Pharmacology, Physics, Zoology, Agriculture, Medicine, Food, Electronics, Hardware, Jewelry store, Glasses store, Chemical industry etc.

### Advantages:

- ❖ The benefits of the bath are many. Is one of the most effective cleaning methods. It has many advantages, especially compared to manual cleaning.
- ❖ The bath cleans a wide range of contaminants and bacteria like grease, oil, dirt, dust, rust, pigment, and more.
- ❖ Excellent and reliable cleaning: Ultrasonic cleaning removes the dirt and the smallest particles. After a complete cleaning cycle with the proper cleaning fluid, parts will be free of dirt.
- ❖ Gentle and safe - the use of the bath is very safe and will not damage the tools. If follow the manufacturer's instructions.
- ❖ A bath can clean the most difficult places. Effective and thorough cleaning
- ❖ Tools can be cleaned at the same time - if the volume of the device is large, several tools can be cleaned at the same time.
- ❖ Easy and simple to operate.
- ❖ Simple and inexpensive maintenance.

### Technical Specification

- ❖ **Controller:** Microcontroller Based
- ❖ **Technology:** Latest IGBT Based
- ❖ **Display:** 6 digit Large LED Display for time & temperature





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- ❖ **Transducers:** PZT Sandwich type, bonded on the base of S.S Tank, Crystal used of PZT4, of High temp. & good quality wires for connection & epoxy for bonding of transducers are used.
- ❖ **Type of Heater:** Silicon / Cartridge
- ❖ **Heater Power:** Up to 1000 watts
- ❖ **Auto Degassing: Yes, user adjustable time**
- ❖ **Unit & Tank MOC:** Stainless Steel
- ❖ **Drain Valve:** ½" Ball Valve will be provided to clean the tank. **(6.5 Liters & Above)**
- ❖ **Protection:** Protection to prevent overheating. Cleaner should automatically shut down in case of overheating.
- ❖ **Accessory:** SS Basket, SS Lid, Power Cord & Manual are provided as per model.

| Model No.            | AIUSB-1.5L                | AIUSB-2L       | AIUSB-3L       | AIUSB-5L       |
|----------------------|---------------------------|----------------|----------------|----------------|
| Capacity             | 1.5 L                     | 2 L            | 3.5 L          | 4.5 L          |
| Ultrasonic Frequency | 33 ± 3 KHz                |                |                |                |
| Temp. Range          | 5°C above ambient to 60°C |                |                |                |
| Timer Range          | 99 minutes and 59 seconds |                |                |                |
| Tank Size            | 240x135x60 mm             | 245x135x100 mm | 300x150x100 mm | 300x150x100 mm |
| Heating Power        | 50 W                      | 100 W          | 150 W          | 150 W          |
| Ultrasonic Power     | 60 W                      | 120 W          | 180 W          | 180 W          |
| Powers               | AC 220-240V, 50 / 60 Hz   |                |                |                |

| Model No.            | AIUSB-7L                  | AIUSB-9L       | AIUSB-10L      | AIUSB-11L   |
|----------------------|---------------------------|----------------|----------------|-------------|
| Capacity             | 6.5 L                     | 9.0 L          | 10 L           | 10.8 L      |
| Ultrasonic Frequency | 33 ± 3 KHz                |                |                |             |
| Temp. Range          | 5°C above ambient to 60°C |                |                |             |
| Timer Range          | 99 minutes and 59 seconds |                |                |             |
| Tank Size            | 300x150x150 mm            | 300x200x150 mm | 300x240x150 mm | 300x240x150 |
| Heating Power        | 150 W                     | 200 W          | 200 W          | 200 W       |
| Ultrasonic Power     | 180 W                     | 240 W          | 240 W          | 240 W       |
| Powers               | AC 220-240V, 50 / 60 Hz   |                |                |             |





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| Model No.            | AIUSB-15L                 | AIUSB-20L      | AIUSB-22L      | AIUSB-30L      |
|----------------------|---------------------------|----------------|----------------|----------------|
| Capacity             | 15 L                      | 20 L           | 22 L           | 30 L           |
| Ultrasonic Frequency | 33 ± 3 KHz                |                |                |                |
| Temp. Range          | 5°C above ambient to 60°C |                |                |                |
| Timer Range          | 99 minutes and 59 seconds |                |                |                |
| Tank Size            | 330x300x150 mm            | 350x250x150 mm | 500x300x150 mm | 500x300x200 mm |
| Heating Power        | 300 W                     | 300 W          | 400 W          | 500 W          |
| Ultrasonic Power     | 360 W                     | 360 W          | 480 W          | 600 W          |
| Powers               | AC 220-240V, 50 / 60 Hz   |                |                |                |

## Note:-

- ❖ Technical Specification like Size of Tank, Ultrasonic Power etc. may change without notice for purpose of continuous up gradation in instruments.
- ❖ Customize & higher Sizes of ultra sonicator baths other than above mentioned Models are also available as per customer requirements.
- ❖ Supplied with Lid, Basket, Power Cord, Operational & Instruction Manual with SOP, Calibration Test Certificate and Warranty Card.



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