

Probe - 3000

ULTRASONIC HOMOGENIZER PROBE SONICATOR



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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- Ultrasonic Homogenizers are recommended for Homogenization of laboratory samples that do not require traditional grinding.

ATL, Ultrasonic Homogenizers offers precision total system for ultrasonic disruption. In biological applications, Probe Sonicator is often used to disrupt the cell membranes & release cellular contents also used for the fragment molecules of DNA.

Probe Sonicator is commonly used in nanotechnology for dispersing nanoparticles in liquid to break the particles in nano size. Probe Sonicator mainly made up of 3 main components : Generator, Converter & Horn. Generator is used to transform AC line power to high frequency electrical energy. Generator has a keypad for operating sonication parameters & also provides high voltage pulses of energy at a frequency of 20 KHz that drives piezoelectric converter. Converter which converts is a cylindrical type device connected to Generator by high voltage cable. This converter transforms electrical Energy into the mechanical vibrations. These vibrations are amplified & transmitted upto the length of Probe.

►► **Consists of :**

- Large screen LCD
- Intensity is controlled from 1 to 100% which gives bigger degree of resolution & enables to pinpoint amplitude needed to effectively process sample.
- Program : Parameters like total time, Pulse On Time, Pulse Off Time can be adjusted.
- Pulse On & Off time is adjusted to reduce heat rise in the temperature sensitive samples.
- Integrated Temperature monitoring control to prevent heating of samples which are more heat

►► **Applications :**

Accelerate Chemical, Reactions, Degassing of Liquids, Emulsify Cosmetics, Prepare Emulsions, Disperse Solids, Extract DNA / RNA, Dissolve Powders & many depending on requirement

►► **Standard Probes :**

Probes are made from titanium and machined to various sizes & shapes. At the time of resonance frequency, they expand and contract longitudinally. This mechanical vibration is amplified and transmitted down the length of the probe and thus leads main mechanism for sample processing.

►► Specifications :

Power Rating	150 to 1200 wattage (Depending on model selection)
Operating Frequency	20 Khz
Input Power	100 to 240 V, 50 to 60 Hz
Crusher Capacity	0.2 to 1000 ml (Depending on model and tip size selected)
Temperature Control	Analogue type temperature locking system to prevent sample degradation
Total Timer	0-999 min
Pulse on/Pulse off Timer	0.1-9.9 sec

►► Model as Under :

Model	Ultrasonic Frequency (Khz)	Maximum Power	Probe Provided with Instrmt	Optional Probe	Capacity depending on tip/probe size
ATL 3150	20	0-150 W	Single probe of any	2,3.17,6.35mm	0.2-100ml
ATL 3250	20	0-250 W	One size from list	2,3.17,6.35mm	0.2-200ml
ATL 3500	20	0-500 W	Of optional probe	3.17,6.35,12.7mm	0.2-500ml
ATL 3650	20	0-650 W	For respective model	3.17,6.35,12.7,19mm	0.2-500ml
ATL 3950	20	0-950 W	Will be provided	2.17,6.35,12.7,19mm	0.2-1000ml
ATL 3120	20	0-1200 W	Free with instrument	3.17,6.35,12.7,19mm	0.2-1000ml



HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

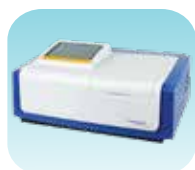
Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

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Liquid Partical
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



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