

Probe Sonicator / Ultrasonic Homogenizer

Ultrasonic power Probe Sonicator (also known as Ultrasonic Cell Crusher or Ultrasonic Tissue Homogenizer) featuring full amplitude control and digital display of operating parameters. Popular applications include nanoparticle dispersion, polymer sample disruption, creating emulsions, pharmaceutical API sonication and ultrasonic homogenization.

Adjustable Pulse ON and OFF times can be programmed and Amplitude can be varied to get the optimum ultrasonic power for right sample. An optional temperature probe can protect the precious sample from overheating. Machine is protected by overload function

FEATURES:

Programmable Operation

10 program file can be set with pre-fixed parameters like time, amplitude etc. User can call desired program and just operate the machine

Pulse ON/OFF Control

For delicate thermal sensitive biological sample, pulse can be programmed so that heat generation is minimum

Amplitude Control

Amplitude or intensity is set through keyboard and can be varied from 1% to 99% continuously. Output intensity of probe thus can be set as per sample.

Auto Tuning

The machine is provided with auto tuning facility to get maximum efficiency of selected probe

Timer

Display provides information for elapsed time and ultrasonic ON/OFF time can be programmed

Overload Cut-off

The machine is safe if overload occurs by any chance as it will automatically shut-off the machine

Temperature Alarm

Temperature of sample during sonication can be measured by an optional Temperature Probe. Sample temperature can be set so that sonication will stop in case sample temperature increases the limit

Error Message

The machine provides various error messages to identify the problem



Sound-proof Box sold separately

TECHNICAL SPECIFICATIONS:

Frequency	19.5 - 20.5 KHz
Amplitude Variation	1% - 99%
Probe Material	Titanium
Dimension	400 x 280 x 220 mm
Power Supply	220 ~ 240 VAC, 50/60 Hz

MODELS & SPECIFICATIONS:

Model	Ultras. Power	Sample Volume	Std. Probe	Optional Probe
U80	80W	100ml	Ø2	Ø3, Ø6
U150	150W	250ml	Ø3	Ø2, Ø6
U250	250W	500ml	Ø3	Ø2, Ø6
U650	650W	1000ml	Ø6	Ø3, Ø10, Ø12, Ø15
U900	900W	1500ml	Ø10	Ø6, Ø12, Ø15
U1200	1200W	2000ml	Ø12	Ø10, Ø15, Ø18
U1500	1500W	2500ml	Ø15	Ø12, Ø18, Ø20
U1800	1800W	3000ml	Ø18	Ø12, Ø15, Ø20, Ø25

STANDARD SUPPLY:

- Main Unit (Power Supply & Generator)
- Converter with Standard Probe
- High Frequency Converter Cable
- Power Supply Cable
- Wrench Set

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