

SINCE 2013

ULTRASONIC PROCESSOR



Industrial
production



Biochemistry



Scientific
research



Livestock
production

Ultrasonic probe Sonicator

The Mteksonic Probe Sonicator is an ideal instrument to accelerate the chemical, biochemical and physio-chemical reactions as well as to accelerate the liquid degassing. This has various applications such as Homogenization extraction, smash, emulsification, fluid suspension, dispersion and de- polymerization, extraction, precipitation acceleration, homogenization, decomposition, crystallization, and compounding of various biological specimens.



- **Extraction Processor**
- **Ultrasonic Crusher**
- **Cell Disrupter**
- **Probe Sonicator**
- **Homogenizer**
- **Degassing Processor**
- **Emulsification Process**

TECHNICAL DETAILS :

FREQUENCY	20 KHZ ± 3 KHz
ULTRASONIC POWER	25 WATTS TO 1000 WATTS AS PER APPLICATION
VARIABLE POWER	AMPLITUDE SETTING 50% TO 100% ADJUSTABLE
PROBE CONSTRUCTION	TITANIUM WITH VARIOUS SIZES
FABRICATION OUTER COVER	ALUMINIUM POWDER COATED WITH SOUND PROOF FOR LAB
TIMER	DIGITAL WITH PULSE MODE FUNCTION / PROGRAMABLE
ULTRASONIC GENERATOR	MOSPET OR IGBT BASE MICROCONTROLLER GENERATOR
GENERATOR FUTURES	SOFT START, AUTO TUNNING , VARIABLE POWER
COMPLIANCE STATUS	ISO 9001:2015
COMPLIANCE STATUS	CE : MACHINERY DIRECTIVE (MD) 2006/42/EC

TIP MODEL	FREQUENCY (KHZ)	POWER RANG	CAPACITY
3 MM / 1/8"	18 KHz – 22 KHZ	30 - 400 W	3 – 10 ML
6 MM / 1/4"	18 KHz – 22 KHZ	60 - 650 W	10 – 100 ML
10 MM / 5/12"	18 KHz – 22 KHZ	100 - 950 W	100 – 200 ML
12 MM / 1/2"	18 KHz – 22 KHZ	200 - 950 W	100 – 200 ML
15 MM / 5/8"	18 KHz – 22 KHZ	200 - 950 W	200 – 500 ML
20 MM / 3/4"	18 KHz – 22 KHZ	400 - 1200 W	500 – 1000 ML
25 MM / 1"	18 KHz – 22 KHZ	800 - 1800 W	500 – 1200 ML

Food processing Reaction Acceleration

Cavitation accelerates chemical and physical reactions.

Fine Particle Dispersion

Nanoparticle processing

Disruption and Cell Lysing

Will break open biological tissues and Cells to extract enzymes and DNA, prepare vaccines.

Homogenization

Making uniform mixtures of liquids or liquid suspensions.

Emulsification

Processing foods, pharmaceuticals, and cosmetics.

Dissolution

Dissolving solids in solvents.

Degassing

Removing gases from solutions without heat or vacuum.

Inline pipe cleaning

Removes scale or build/up without disassembly. Cylindrical 360° internally radiating chamber.

BASIC REASERCH

CLINICAL REASERCH

PHARMACEUTICALS

OIL INDUSTRIES

PAINT INDUSTRIES

BIO-DESEAL PROCESS

METALLURGICAL PROCESS



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