

Ultrasonic Laboratory Processors

In collaboration with TELSONIC AG Switzerland

SPECIAL FEATURES

- ★ Pre-selection of the required amplitude (50% to 100%).
- ★ Constant amplitude control over the entire load range and fluctuations of the power supply upto $\pm 15\%$.
- ★ Built-in circuit protection for all possible fault and load conditions.
- ★ Microprocessor controller permits reproducible laboratory results.
- ★ Digital wattmeter to display actual power used.
- ★ Continuous /Pulse operation (with selection of pulser time).



APPLICATION FIELDS

- ★ Dispersion
- ★ Suspension
- ★ Emulsification
- ★ Homogenization
- ★ Degassing of liquids
- ★ Acceleration of chemical processes
- ★ Sonochemistry
- ★ Crystallization
- ★ Extraction
- ★ Cell disruption
- ★ Automization
- ★ Agglomeration etc.



HIGH PERFORMANCE PROCESSOR FOR LABORATORY AND PILOT PLANT APPLICATIONS

With the Microprocessor controlled ultrasonic processor, a wide range of chemical and physical processes can be performed such as the disruption of cells, preparation of emulsions and dispersions, homogenizing of liquids, acceleration of various chemical reactions, atomizing and degassing of liquids and the extraction of several substances from organic sources. Further more, the equipment is ideally suited for development activities in the area of sono-chemistry research.

The ultrasonic generator is designed for constant amplitude control over the entire load range from idle run to nominal load and fluctuations of the power supply. The ultrasonic generator also features fully automatic frequency tuning under all load conditions and sonotrode changeover. Because the oscillation amplitude represents a characteristic process parameter, it is essential to keep the amplitude constant during operation in order to achieve comparable and reproducible results.

STANDARD ACCESSORIES

- * Ultrasonic Generator
- * Converter
- * Stand / Converter Holder
- * Sonotrode - Ti / SS316 (12.5mm dia)
- * Foot Switch
- * Tool Kit

OPTIONAL ACCESSORIES

- * Sonotrode (12.5mm, 20 & 25mm) with replaceable tips.
- * Integrated temperature controller (Heating & Cooling) 5^o-100^o C
- * Accoustic enclosure
- * Booster in various conversion ratio / Micro-tip sonotrodes.
- * Laboratory Jack

SPECIFICATIONS	
Power Supply	220V AC, 50Hz, 1Ø
Ultrasonic Power Output	600 W Average (Model USG-600) & 150 W Average (Model USG-150) (Other Outputs Optional)
Frequency	20/30/36 Khz
Timer	Microprocessor controlled upto 999 Min. (with Lapse time display)
Processing Volume	Upto 500 ml (Standard probe dia. 12.5mm) - USG-600 0.25 ml to 10 ml (Standard probe dia. 3mm) - USG-150

NOTE: Technical specifications are subject to change without prior notice, due to continuous upgradation.

CONTACTS

Factory

Gandhinagar

Tel: 079-23287452 / 23287454 Fax: 23287555

Exports

Tel: 022 42111802

Email: export@rooptelsonic.com
adityatrivedi@rooptelsonic.com

Thailand

754/191 Soi Punnavithi 22,
Sukhumvit 101, Bangjak,
Prakhanong, Bangkok 10260
Thailand.
Tel: +66 (0) 2741 3835
Fax: +66 (0) 2741 8915

Email: thailand@rooptelsonic.com

Malaysia

10, Jalan Jasmin 6/KS6,
Bandar Botanic,
41200, Klang, Selangor Darul
Ehsan, Malaysia.
Tel: 6019-352 6042

Email: mashadani@telsonic.com.my

Vietnam

Lot 10, Phuc Loi, Long Bien,
Hanoi City 100.803 Vietnam
Tel : 84/ 4 3872 7130;
Tel : 84/ 4 3872 7131
Tel : 84/ 983 96 9798
Www.vinasonic.vn

Email: Telsonic@vnn.vn



An Indo-Swiss joint venture



A/41, Nandkishore Industrial Estate, Off Mahakali Caves Road, Andheri (E), Mumbai - 400 093.

Tel: 022-26870990/0981/1034, 42111500 Fax : 42111505/26870004 E-mail: sales@rooptelsonic.com Web: www.rooptelsonic.com