

# Ultrasonic Laboratory Processors

In collaboration with TELSONIC AG Switzerland

## 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.

## 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).



### SPECIFICATIONS

Power Supply	220V AC, 50Hz, 1 $\emptyset$
Ultrasonic Power Output	1000 W Average (Model USG-1000) 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 1000 ml (Standard probe dia. 25mm) - USG-1000 Upto 500 ml (Standard probe dia. 12.5mm) - USG-600 0.25 ml to 10 ml (Standard probe dia. 3mm) - USG-150



## STANDARD ACCESSORIES

- \* Ultrasonic Generator
- \* Converter
- \* Stand / Converter Holder
- \* Standard Sonotrode - Ti / SS316 1 No.
- \* Foot Switch
- \* Tool Kit

## OPTIONAL ACCESSORIES

- \* Sonotrode dia. 3mm, 6mm, 13mm, 18mm, 20mm, 25mm, also available with replaceable tips.
- \* Integrated temperature controller ( Heating & Cooling ) 5<sup>o</sup>-100<sup>o</sup> C
- \* Acoustic enclosure
- \* Booster in various conversion ratio / Micro-tip sonotrodes.
- \* Laboratory Jack
- \* Extender

## APPLICATION FIELDS



\*And other applications like homogenization, degassing of liquids, dispersion, suspension, cell disruption, atomization, Agglomeration& acceleration of chemical processes.

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

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