

Product Information

Desintegrator DG 100



- Dispersing
- Suspending
- Emulsifying
- Homogenizing
- Degassing of liquids
- Acceleration of chemical processes
- Disrupting of cell structures
- Sonochemistry

ultrasonic

Product Information

Desintegrator DG 100

With the microprocessor controlled ultrasonic processor, a wide range of chemical/physical processes can be performed such as disruption of cells and bacteria, preparation of emulsions and dispersions, homogenizing of liquids, acceleration of various reactions, atomizing and degassing of liquids, extraction of several substances from organic sources and so on. Furthermore, the equipment is ideally suitable for investigation and research activities in the entire area of sonochemistry research.

The ultrasonic generators are designed for constant amplitude control (over the entire load range from idle run to nominal load and fluctuations of the main supply) and fully automatic frequency tuning under all load conditions and sonotrode changeover. Since 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.

Advantages

- Digital pre-selection of the required amplitude (50 ... 100 %)
- Constant amplitude control over the whole load range and fluctuations of the main supply of up to ± 15 %
- Built in circuit protection for all possible fault and load conditions
- Microprocessor controller permits reproducible laboratory tests by recording of amplitude and time

Technical Data

Mains supply	230V ± 15 %, 50 Hz
Output power max.	100 W
Frequency	36 kHz, 20 kHz
Duty cycle	100 %
Amplitude	50 - 100 %
Frequency control	constant



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