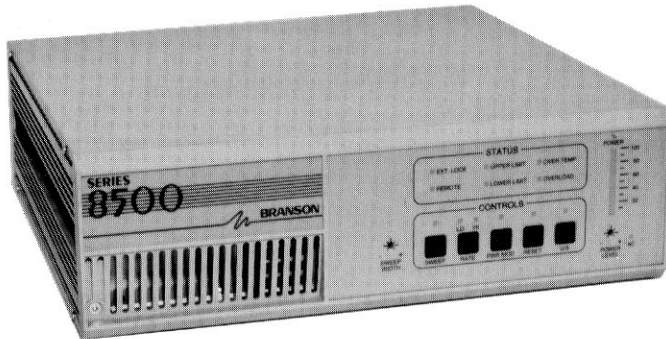


BRANSON

Sound Ideas For Business

Bulletin S-1044

ADVANCED ULTRASONIC CLEANING GENERATOR



SERIES 8500

Branson's *Series 8500 Advanced Ultrasonic Generator* offers a full range of features to meet any precision cleaning requirements. Used on a simple cleaning tank or in a fully integrated cleaning system, the *Series 8500* will deliver precise cleaning quickly, consistently, and cost effectively.

KEY FEATURES & BENEFITS

- **Line / load regulation** compensates for liquid level and temperature changes as well as line voltage and load variations. Changes are held to less than 3% for very consistent cleaning.
- **True variable power control** makes the cavitation intensity (not time) infinitely variable from 0% to 100% which allows matching the power to your application. A bright LED display indicates the selected level.
- **Selectable sweep frequency** permits the process engineer to select both band width and sweep rate to eliminate standing waves and improve ultrasonic activity distribution.
- **Auto tuning** maintains optimum operating frequency around *your* application. It allows the generator to dynamically adjust to changing bath conditions optimizing performance around parameters such as temperature, liquid level, and tank loading.

- **Power modulation mode** is a unique patented feature which produces four times the peak power in the bath. This is helpful for tenacious soils or for driving difficult to cavitate chemistries like semi-aqueous and hydrocarbon formulations.
- **Two input / output (I/O) interface** options permit remote control of operating parameters. One is for *on/off only*. The other enables *full remote control* of the generator for automation or the addition of a PLC to record statistical information on ultrasonic performance.

ADDITIONAL STANDARD FEATURES

- User-adjustable power and frequency controls.
- Indirect cabinet cooling - sensitive components are isolated from potentially dirty cooling air.
- 19 inch, 3 DIN rack mount cabinet.
- Status indicators on safety and fault alarms.
- Bright LED display for easy viewing.
- Two-year warranty period.

SPECIFICATIONS

Element configurations: 12, 18, 24, 36, 48
Input Voltage: 120V(12 ele only), 220V +/- 15%
Avg. output power: 40 watts per element
Output frequency: 25 or 40 kHz
Regulatory Approvals: FCC and CSA or CE
Dimensions: 17.5"W, 16.8"D, 5.5"H
Weight: 30 lbs. (13.6kg)

GENERATOR SPECIFICATIONS

Model	Frequency	Transducer Elements	Voltage Requirements	Average Output Power
S-8525-12 S-8540-12	25 kHz 40 kHz	12 12	120 V or 220 V +/-15% 50 / 60 Hz	500 Watts
S-8525-18 S-8540-18	25 kHz 40 kHz	18 18	220 V +/- 15% 50 / 60 Hz	750 Watts
S-8525-24 S-8540-24	25 kHz 40 kHz	24 24	220 V +/- 15% 50 / 60 Hz	1000 Watts
S-8525-36 S-8540-36	25 kHz 40 kHz	36 36	220 V +/- 15% 50 / 60 Hz	1500 Watts
S-8525-48 S-8540-48	25 kHz 40 kHz	48 48	220 V +/- 15% 50 / 60 Hz	2000 Watts

NUMBERING SYSTEM

Each Series 8500 Ultrasonic generator has a model number which contains information useful for selecting other compatible components.

For example: S-8540-12. This model number, stamped on the generator nameplate, indicates the model (Series 8500), the operating frequency (40 kHz), and the total number of transducer elements the generator can drive (12 elements).

These may be on one cleaning tank or a combination of immersible transducer cans with a total of twelve elements.

REGULATORY APPROVALS

All Series 8500 ultrasonic generators meet FCC Rules and Regulations. They conform to the EN 60-204-1 standards and carry either the CSA or CE mark.



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