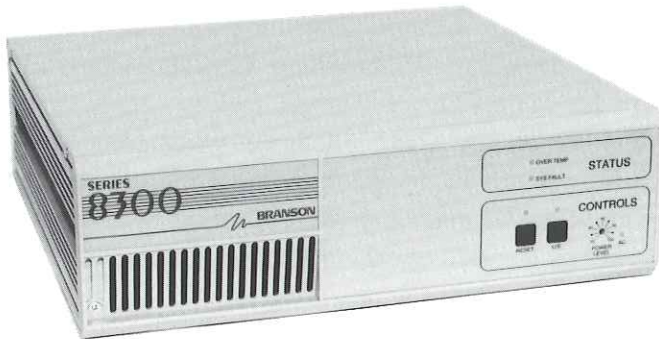


ULTRASONIC CLEANING GENERATOR

SERIES 8300



Branson's *Series 8300 Ultrasonic Generator* offers a range of features to meet any production cleaning requirements. Used on a simple cleaning tank or with immersible transducers in an integrated cleaning system, the *Series 8300* 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 duty cycle) infinitely and linearly variable from 20% to 100% which allows matching the power to your application requirements.
- **Sweep frequency** minimizes standing waves and improves ultrasonic activity distribution. The sweep operates at a rate of 80 Hz per second across a bandwidth of 1400 Hz.

- **Auto tuning** maintains optimum operating frequency around *your* application. The generator automatically and dynamically adjusts to your conditions regardless of changes in the operating environment.
- **Input / output (I/O) interface** option permits remote on / off control of the generator. This is ideal for systems applications or where the generator may be inaccessible.
- **Safety features** to protect the generator include over-temperature, overload, open circuit, and short circuit. Panel mounted fault lights indicate a problem.

ADDITIONAL STANDARD FEATURES

- 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.
- CSA certified and meets FCC regulations.
- Two-year warranty period.

SPECIFICATIONS

Element configurations: 12, 18, 24, 36, 48
Input Voltage: 120V(12 ele only), 208V to 230V
Avg. output power: 40 watts per element
Output frequency: 25 or 40 kHz
Regulatory Approvals: FCC and CSA
Dimensions: 17.5"W, 16.8"D, 5.5"H
Weight: 30 lbs. (13.6kg)

BRANSON IMMERSIBLE ULTRASONIC TRANSDUCERS



Branson immersible transducers provide versatile ways to add ultrasonics to new or existing tankage in a variety of industrial settings. Type 316L bright annealed stainless steel construction permits use of a wide range of cleaning chemistries. Hard chrome is offered as an option in severe applications.

The hermetically sealed immersible transducers are available in two standard sizes and four mounting configurations. This allows for maximum versatility of transducer placement on tank walls or bottom to optimize cleaning. This selection is supplemented by our fabricating capability for custom sizes.

IMMERSIBLE TRANSDUCER SPECIFICATIONS

| | Model 610-6 | Model 618-12 | Custom |
|-------------------------------|---------------------|---------------------|-------------------------------------|
| Working Dimensions | 6"W x 10"L x 3.25"H | 6"W x 18"L x 3.25"H | Special sizes available on request. |
| Number of Transducer Elements | Six | Twelve | Various |
| Frequencies Available | 25 kHz, 40 kHz | 25 kHz, 40 kHz | 25 kHz, 40 kHz |

TRANSDUCER ELEMENTS

Branson offers either piezoelectric or magnetostrictive technology in its immersible transducers. Both types offer excellent energy conversion, stable performance under all operating conditions, and are guaranteed for the life of the system. Piezoelectric transducers are offered in two frequencies: 25 kHz and 40 kHz. Generally 25 kHz is preferred for large, massive parts while 40 kHz is for more intricate parts and small particle removal. Magnetostrictive transducers are offered at 20 kHz and are best used where high power or focused energy is needed.

ADDITIONAL FEATURES

- A variety of junction box and cabling schemes for easy installation and maintenance.
- Hard chrome or titanium nitride coatings for extreme wear applications.

POWER SUPPLY SELECTION

Each group of Branson immersible transducers must be served by a power supply operating at the same frequency (20, 25, or 40 kHz) and rated for the same number of transducer elements. See data on the reverse side of this brochure for more information.



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