

# Ultrasonic Generators



## Introducing the Model 5400 Series

- Advanced engineered with patented innovative features
- Transducer Status Indicator (TSI) – patent pending circuit that indicates the condition of the transducers
- Overheat Protection System
- UP-Sweep™ - 4kHz variable sweep that eliminates “hot spots” and “dead zones”
- Automatic short and open protection
- Automatic frequency and load control
- PLC Controllability
- Engineered for High Power, Consistency and Reliability
- Powers UPC's Vibra-bar® transducers
- Backed by UPC's industry leading warranty and service



**ULTRASONIC POWER CORPORATION**

*“Our technology, your solution”*

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Each of Ultrasonic Power Corporation generator features our patented modulation sweep and power intensity control technology. The power intensity control maximizes the cleaning unit's flexibility to clean small delicate items or large bulk items. Our generators use solid state circuitry backed by years of field proven reliability. Ultrasonic Power Corporation's generators provide consistent, predictable ultrasonic cleaning power throughout the cleaning bath. This proven design provides a constant output power even as the solution temperature or load volume increases.

**Model 5400 - Advanced**

The most advanced generator on the market today

**Model 5300 – Classic**

Classic design with thousands in the field

- **Patent pending Transducer Status Indicator (TSI)** - transducer monitoring circuit that indicates the operational condition of the transducers that it is powering via LED's
- **Overheat Protection System** - protects generator from high temperatures caused by overheating due to air blockage or fan failure - LED indicator
- **Automatic short / open protection** - generator is protected if the output is either "short circuited" or "open circuited"
- **Automatic frequency / load control** - provides uniform and reliable operations under all conditions of loading
- **Power Intensity Control** - combined with "Simultaneous Multi-Frequency®", extends the equipment cleaning ability to very fragile items such as semiconductor devices, wafers and delicate glass parts
- **PLC control connector** - 15 pin connector on back of generator providing ability to control the generator externally via a PLC controller with the following capabilities:
  - **Power Intensity Control** - 0-10VDC input will control 0-100% power
  - **Sweep Control** - 0-10VDC input will control sweep from 300-1000Hz
  - **On/Off control** - 24VDC input controls On/Off time
  - **Power Meter Signal Output** - 0-10VDC represents generator output power
  - **Frequency Meter Output** - represents actual operating frequency
  - **Alarm Output** - ground output if generator is On and power is above the adjustable set point.

UPC Generator Table		
Features	5400	5300
25kHz	X	X
40kHz	X	X
68kHz*	X	X
132kHz*	X	X
170kHz*	X	X
120V	X	X
240V	X	X
250W	X	X
500W	X	X
750W	X	X
1000W	X	X
Manual Intensity Control	X	X
Manual Sweep Control	X	X
Manual On/Off	X	X
Short/Open Protection	X	X
Auto Freq/ load Control	X	X
UP-Sweep™	X	X
Transducer Status Indicator	X	
Overheat Protection	X	
PLC Controlability	X	
External Sweep Control	X	
External Intensity Control	X	
External On/Off Control	X	
Power Meter Output	X	
Frequency Meter Output	X	
Alarm Output	X	
CE	X	X
TUV (UL & CSA)	X	X

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