

Sonifier® S250A and S450A Cell Disruptors

The Sonifier product line is the benchmark in cell disruption, has become a liquid processing mainstay in the laboratory.

The Analog Sonifier is ideal for simple quick operation. This unit features dial controls for easy setting of the timer, which can also run continuously; it also features duty cycle and output control.

Analogue Sonifiers are available in either 200 or 400 watts and supplied with a power supply, converter, and 1/2" (13mm) tapped horn with replaceable flat tip: the 400 watt can also be supplied with a 3/4" solid horn.

Features Include:

- **Processing volumes:** S250A: up to 250ml; S450A: up to 500ml.
- **Mechanical timer:** Provides the means to control ultrasonic energy applied in increments between 0-15 minutes. Continuous operation is achieved by turning the control to the "hold" position.
- **Duty cycle:** Includes a pulsar mode which allows for pulsing, this eliminates the temperature increase of the solution which can result from constant exposure to ultrasonics. The energy is applied at one pulse a second, the duration of the pulse can be adjusted from 0.1 to 0.9 seconds. Continuous sonics will result when the switch is on the "constant" position.
- **Output meter:** Indicates the percentage of ultrasonic power emitted at any output control setting. The recording of the meter reading and the output control setting permit any established power level to be reproduced.
- **Auto-tune memory:** No need for tuning.



NOTE: All accessories available for this line can be found at www.sonifier.com – upper right click on sonifier.com, then 20kHz. Accessories.

Optional accessories include a wide range of probes for efficient processing of volumes, soundproof enclosure for eliminating processing noise and ensuring quiet operation. Micro tips, cup horns, sealed atmosphere chamber, flow-through and more, all sold separately.

Specifications

Power Supply

L x W x H	16" x 7.5" x 9.5" (41 x 19 x 24cm)
Weight	S250A 19 lbs. (8.72 kg); S450A 25 lbs. (11.34 kg)
Power	S250A: 200 watts; S450A : 400 watts
Frequency	20Khz
Timer	0 to 15 minutes or continuous hold
Intensity Control	Continuous (10-100%)
Meter Display	Yes

Converter

Weight	4 lbs. (1.8g) with horn
Dimensions	7" L x 2-1/2" diameter (180 x 60mm)

Horn

Tip Diameter	1/8" - 1", (3.2 - 25mm) diameter depending on process needs
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Ordering Information

Model	Part Number	Output Power	Input Power
S250A w-1/2" tapped horn	101-063-196R	200	117V, 60Hz
S250A w-1/2" tapped horn	101-063-197R	200	230V, 50/60Hz
S450A w-1/2" tapped horn	101-063-198R	400	117V, 60Hz
S450A w-1/2" tapped horn	101-063-199R	400	230V, 50/60Hz
S450A w-3/4" tapped horn	101-063-200R	400	117V, 60Hz
S450A w-3/4" tapped horn	101-063-201R	400	230V, 50/60Hz
*S450A w-3/4" solid horn	101-063-346R	400	117V, 60Hz

*also includes 1/8" microtip and 1/2" tapped horn

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