## Sonifier SFX250 | SFX550





Sonifier<sup>®</sup> SFX250 and SFX550 Cell Disruptors and Homogenizers



## Sonifier<sup>®</sup> SFX250 and SFX550

### **Overview**

The SFX250 and SFX550 are part of the new SFX Series of Sonifiers from Branson, designed to bring the industry's most advanced sample-processing capabilities to your laboratory. The SFX Series brings a new level of ease, precision, and repeatability with advanced energy and temperature control modes, process monitoring capabilities, and programming features.

### Sonifier SFX250 Model

- 250 watts of power at 20 kHz
- Processes samples from 0.2 up to 500 mL
- Includes power supply, converter and 1/2-inch disruptor horn

### Sonifier SFX550 Model

- 550 watts of power at 20 kHz for high-volume processing
- Processes samples from 0.2 to 1000 mL
- Includes power supply, converter, and choice of 1/2- or 3/4-inch disruptor horn

### Sonifier SFX250 and SFX550 Features

- Advanced energy control mode delivers precise energy input in continuous or pulse modes.
- True temperature control manages sample temperature within user-specified limits (requires separate temperature probe).
- Control modes include time, temperature, and energy.
- Continuous or pulsed ultrasonics.
- High efficiency, stand-mountable converter requires no internal cooling.
- Scrollable, multi-function screen with pushbuttons.
- In-process feedback displays experimental progress together with key variables such as power level, energy usage, and sample temperature.
- Microtip mode limits amplitude to 70% to extend tool life.
- Amplitude control range from 10 to 100%.
- Powerful 20 kHz ultrasonics.
- Up to 20 stored programs. Programmable parameters include continuous or pulsed ultrasonics; time, energy, or temperature control modes; pulse on-time/energy, off-time and total on-time/energy; or amplitude as a percentage.



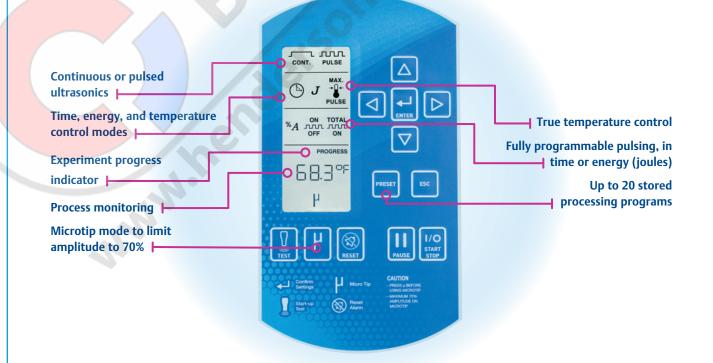
## **Ultimate Control and Ease of Use**

All SFX Series Sonifiers feature a digital, intuitive interface flanked by easy-to-use pushbuttons. The screen and buttons provide one-touch access to all control parameters and modes of operation.

Advanced control modes. In Energy Mode, the SFX Series power supply manages the processing cycle to deliver a precise, user-determined input of ultrasonic energy (measured in joules), either continuously or pulsed. The SFX Series automatically compensates for any variability, extending or shortening the cycle as needed to deliver the precise energy output.

**True temperature control.** (Requires separate temperature probe.) With true temperature control, the SFX Series power supply maintains the temperature of the sample to within a user-specified range, automatically adjusting the ultrasonic pulse length to regulate the temperature rise and prevent overheating. Sample-processing programs. For assured repeatability and precision on a greater scale, the SFX Series enables users to create and store up to 20 sample-processing programs. Program parameters include continuous or pulsed ultrasonics; time, energy, or temperature control modes; pulse on-time/energy, off-time, and total on-time/energy; or amplitude as a percentage.

**Process monitoring.** In operation, Sonifier SFX Series monitors ongoing processes on a scrollable, digital screen, providing continuous updates of key variables including power level, energy usage, sample temperature, and experiment progress.



## **Sonifier SFX Series: Tips and Accessories**

Sonifier SFX Series can be equipped with a wide range of specialized tools and accessories to meet specific application requirements.



**6** Sealed atmosphere treatment chamber: These specialty horns have been developed to handle noxious or hazardous samples while isolating them from incidental contact or to contain reactants for metric evaluation.

## BRANSON



**Rosette Cell:** Branson's Rosette Cell provides a unique flow pattern of substances for exposure to ultrasonic energy during circulation through the cell. When it is immersed in a cooling bath, the enlarged glass surface area and circulation through the side arms provide an efficient means of heat exchange.



Acoustic Enclosure: Operating a Sonifier® SFX Series in the Soundproof Enclosure can minimize mechanical noise produced by ultrasonic processing. The sturdy cabinet is lined with waterproof, sound-absorbing material, which is impervious to most solutions or laboratory reagents and can be easily cleaned. A fully-transparent door enables viewing of the process while limiting the noise to an acceptable level.

**Stand and Converter Holder:** The support stand with stainless steel rod accommodates Branson's 20 kHz converter. The converter holder supports the ultrasonic stack (converter and horn) and is easily adjusted to properly position the horn in the sample.

## Sonifier SFX250 / SFX550

# BRANSON

## The Branson Advantage

### **Ordering Information**

Model	Part Number	Input Power	Output Power	Dimension	Weight
SFX250 with 1/2" Horn	101-063-965R	120V	250 Watts	12.5" (318mm) L x 7.5" (191mm) W	14 lbs
SFX250 with 1/2" Horn	101-063-966R	240V CE	200 Walts	x 9.25" (235mm) H	14 103
SFX550 with 1/2" Horn	101-063-969R	120V	550 Watts	12.5" (318mm) L x 7.5" (191mm) W	14 lbs
SFX550 with 1/2" Horn	101-063-971R	240V CE		x 9.25" (235mm) H	
SFX550 with 3/4" Horn	101-063-968R	120V	550 Watts	12.5" (318mm) L x 7.5" (191mm) W	14 lbs
SFX550 with 3/4" Horn	101-063-970R	240V CE	550 Watts	x 9.25" (235mm) H	1-103

# Accessories Ordering Information

Description	Catalog No.	Description	
Temperature probe	101-148-062	Tapered 1/8" diameter microtip for 1/2" tapped horn	
Acoustic enclosure (20-25 dB reduction)			
1/2" diameter stepped disruptor horn	101-148-069	Tapered 3/16" diameter microtip for 1/2" tapped horn	
3/4" disruptor horn with solid tip	101-148-070	Tapered 1/4" diameter microtip for	
3/4" diameter high-gain horn		1/2" tapped horn	
1" stepped, solid horn	101-063-212	Double step 1/8" diameter microtip with coupler for direct attachment to the converte	
Continuous flow attachment		•	
Cup horn, flow-through, 1"	101-147-050	Double step microtip, coupler portion only	
	101-148-063	Double step microtip, microtip portion only	
(requires adapter stud 100-098-249)	101-063-1108	Lab stand with 1/2" rod	
Cup horn, flow-through, 3"	101-063-1110	20 kHz converter mount for 1/2" lab stand	
Adapter stud	101-135-066R	20 kHz 102-C converter	
Replacement tip for 1/2" tapped horn (1/4-20 thread)	101-118-039	Spanner wrench (qty. 1 – requires 2)	
Extension 1/2" diameter with replaceable tip 101-148-013			
	Temperature probeAcoustic enclosure (20-25 dB reduction)1/2" diameter stepped disruptor horn3/4" disruptor horn with solid tip3/4" diameter high-gain horn1" stepped, solid hornContinuous flow attachmentCup horn, flow-through, 1"Cup horn, flow-through, 2" (requires adapter stud 100-098-249)Cup horn, flow-through, 3"Adapter studReplacement tip for 1/2" tapped horn (1/4-20 thread)Extension 1/2" diameter with replaceable tip	Temperature probe101-148-062Acoustic enclosure (20-25 dB reduction)101-148-0691/2" diameter stepped disruptor horn101-148-0693/4" disruptor horn with solid tip101-148-0703/4" diameter high-gain horn101-063-212Continuous flow attachment101-147-050Cup horn, flow-through, 1"101-063-212Cup horn, flow-through, 2" (requires adapter stud 100-098-249)101-063-1108Cup horn, flow-through, 3"101-063-1110Adapter stud101-135-066RReplacement tip for 1/2" tapped horn (1/4-20 thread)101-118-039	

#### Americas

Branson Ultrasonics Corp. 41 Eagle Road Danbury, CT 06810, USA T: 203-796-0400 F: 203-796-0450 www.bransonultrasonics.com

### Europe

Branson Ultrasonic SA Ch. du Faubourg-de-Cruseilles 9 1227 Carouge Switzerland T: +41(0)22 3048353 F: +41(0)22 3048359 www.branson.ch

#### Asia

Branson Ultrasonics (Shanghai) Co., Ltd. 758 Rong Le Dong Road Song Jiang, Shanghai, PRC, 201613 T: 86-21-3781-0588 F: 86-21-5774-5100 www.branson-china.com Sonifier 5FX © Branson Ultrasonics Corporation 2015. The Emerson logo is a trademark and service mark of Emerson Electric Co. Revised and printed in the U.S.A.

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Henderson Biomedical Unit 3, Swan Close Croydon CR0 2DZ United Kingdom

### Tel: 020 8663 4610

For sales enquiries: sales@henderson-biomedical.co.uk For all other enquiries: info@henderson-biomedical.co.uk www.henderson-biomedical.co.uk