

Sonifier® SFX150 Cell Disruptors and Homogenizers

OVERVIEW

The Branson Sonifier® SFX150 is part of the lineup of ultrasonic processors from Emerson, designed to bring the industry's most advanced sample-processing capabilities to your laboratory. Geared toward low-volume samples ranging from 0.2 to 150 mL, the Sonifier SFX150 delivers up to 150 watts of power. And at 40 kHz, it's quiet enough to operate on a lab bench without a sound enclosure.

Because it is available with either a conventional or a handheld converter, you can use the SFX150 in a stack configuration to process longer-duration samples, or process samples quickly by hand using the comfortable, ergonomically-designed handheld converter.



- Handheld Converter.** Branson's exclusive handheld converter is designed with the user in mind. The handheld converter offers an ergonomic grip for comfort and control, and a recessed pushbutton and LED indicator for assured operation.
- Energy Mode.** 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 in individual pulses. The SFX Series automatically compensates for any variability, extending or shortening the cycle as needed to deliver the precise energy output.
- 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.
- 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.

Sonifier[®] SFX150

KEY FEATURES

- 40 kHz ultrasonics for quiet tabletop operation.
- Sample sizes from 0.2 to 150 mL.
- High-efficiency, handheld and stand-mountable converters require no internal cooling.
- Scrollable, multifunction screen with pushbuttons.
- Continuous or pulsed ultrasonics.
- Amplitude control range from 10 to 100%.
- Microtip mode limits amplitude to 70% to extend tool life.
- Control modes include time, temperature, and energy.
- True temperature control manages sample temperature within user-specified limits (requires separate temperature probe).
- In-process feedback displays experiment progress together with key variables such as power level, energy usage, and elapsed time.
- Advanced energy control mode delivers precise energy input in continuous or pulse modes.
- Programmable parameters include continuous or pulsed ultrasonics; time, energy, or temperature* control modes; pulse on-time/energy, off-time and total time/energy; or amplitude as a percentage.

*requires optional temperature probe

Handheld Converter



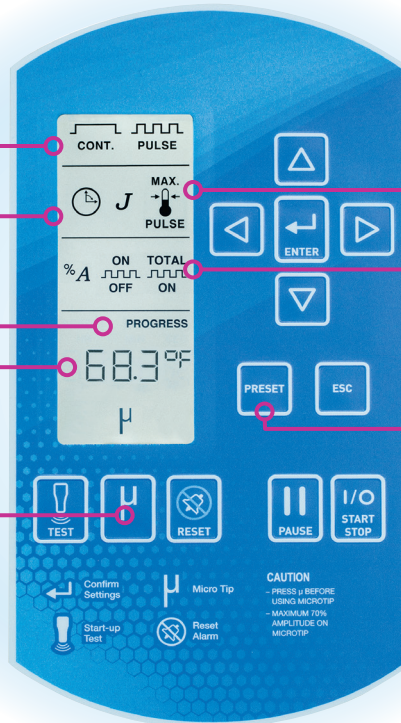
Continuous or pulsed
ultrasonics

Time, energy, and temperature
control modes

Experiment progress
indicator

Process monitoring

Microtip mode to limit
amplitude to 70%



True temperature control

Fully programmable pulsing,
in time or energy (joules)

Up to 20 stored
processing programs

Sonifier® SFX Series: Tips and Accessories

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



Cup Horn: This specialized horn permits high-intensity sound to be applied to multiple samples without direct horn contact. 3.0" diameter only.



Microtips: These smaller, high-intensity tips are ideal for processing smaller samples in Eppendorf vials or similar vessels. Sizes range from 3/32" to 1/4".



40 kHz Traditional Converter: Used in a stand or acoustic sound enclosure, the traditional converter is designed for longer-duration samples.

The Branson Advantage

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 cleaned easily. 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 40 kHz traditional converter. The converter holder supports the ultrasonic stack (converter and microtip) and is adjusted easily to properly position the microtip in the sample.



ORDERING INFORMATION

Model	Part Number	Input Power	Output Power	Dimensions	Weight
SFX150 w/Traditional Converter	101-063-962R	120 V	150 watts	12.5" (318 mm) L x 7.5" (191 mm) W x 9.25" (235 mm) H	14 lbs.
SFX150 w/Traditional Converter	101-063-963R	240 V CE			
SFX150 w/Handheld Converter	101-063-1096R	120 V	150 watts	12.5" (318 mm) L x 7.5" (191 mm) W x 9.25" (235 mm) H	14 lbs.
SFX150 w/Handheld Converter	101-063-1097R	240 V CE			

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