The Sonifier product line, originally established as the benchmark in cell disruption, has become a liquid processing workhorse in the laboratory. Applications include:

- Emulsification of immiscible liquids
- Disaggregation and dispersion
- Homogenization
- Chip assay
- Acceleration of reactions
- Cell lysing
- Processing DNA and proteins
- Leaching and extraction

Each Sonifier system consists of a power supply, converter, and mechanically tuned processing horn. Standard units are available from 100 to 1000 Watts for matching the equipment to your application. A wide variety of specialized tools, chambers, and accessories are available to accomplish specific effects. In addition to many standard disruption horns, Branson offers flow-through horns, high intensity cup horns, focused processing cells, sound reduction enclosures, and much more.

Branson – The Leader in Ultrasound Technology Since 1946

Norman G. Branson founded Branson Instruments in 1946 to harness ultrasonic energy for commercial purposes. In the ensuing years, it has introduced new technologies, become a leader in the industry, and a leader in ultrasonic cell disruption for biological research in 1960. This has now grown into a full line of products and accessories to meet the demanding needs of this rapidly expanding market. These broad products provide massive ultrasonic benefits in the areas of food, detergent, pre-made cleaning, and plastic piping. Today, Branson is a world leader in all of these technologies.

With over 1800 employees, 70 sales and service offices, and a half dozen manufacturing facilities worldwide, Branson has developed ultrasonic solutions for global customers. Let our staff assist you in your needs for your liquid processing application.
SONIFER® Cell Disruptor

Branson Sonifier digital products take advantage of breakthroughs enabled by newer digital technology. This is particularly useful where precise power control and parameter measurement is required. These 10-watt models include automatic amplitude control, broad-band tuning, and include advanced features like:

• Amplitude plus Monitor (APM®) - provides full-range tuning and output control in the end of cycle phase.
• Multiple audit features - controls, printed, and stored parameters
• Self-tuning in five languages
• Digital timer (9 hours, 59 minutes, 59 seconds)
• Digital parameter setting with valid parameter range checking
• Setup menu in five languages
• Multiple mode operation – continuous, pulsed, timed, and autotune.
• Autotune plus Memory (AT/M) – provides fully-automatic tuning, and include enhanced features like:
  • Twenty user-programmed presets for convenience
  • Self diagnostics on start-up
  • Reflective programmed protection for convenience

All units have digital controls including a membrane keypad for easy data entry, 16 hour timer, adjustable start/stop, 90 character LCD display to monitor parameters, and much more. The parallel power monitor and Branson's Rosette cell disruptor system add more utility. All units are supplied as an operational package including power supply, converter, and standard horn base.

### Analog

**Model** | **Output Dimensions** | **Weight** | **Part Number** | **Input Power** | **Included Horn**
--- | --- | --- | --- | --- | ---
S-250D | 196 x 371 x 287 mm | 18 lbs. | 101-063-196 | 230 Volt, 50/60 Hz, 1ø | 1/2" Tapped
S-450D | 258 x 420 x 363 mm | 25 lbs. | 101-063-199 | 230 Volt, 50/60 Hz, 1ø | 1/2" Tapped
S-650A | 258 x 420 x 363 mm | 35 lbs. | 101-063-203 | 230 Volt, 50/60 Hz, 1ø | 1/2" Tapped

### Digital

**Model** | **Output Dimensions** | **Weight** | **Part Number** | **Input Power** | **Included Horn**
--- | --- | --- | --- | --- | ---
S-250DD | 196 x 371 x 287 mm | 20 lbs. | 101-063-200 | 230 Volt, 50/60 Hz, 1ø | 1/2" Tapped
S-450DD | 258 x 420 x 363 mm | 22 lbs. | 101-063-201 | 230 Volt, 50/60 Hz, 1ø | 1/2" Tapped
S-650A | 258 x 420 x 363 mm | 28 lbs. | 101-063-203 | 230 Volt, 50/60 Hz, 1ø | 1/2" Tapped

Note: All accessories included with 250 and 450 units only.

**Sonofication**

The Branson Sonifier SLP Series – available in both time and energy (joules) models – are capable of processing today's laboratory requirements. Software prevents inappropriate data entry and warns as alert of the process moves outside set limits. The SLP Series units include the generator/power supply, converter, and digital horn. They operate at 40 kHz, 50/60 Hz. All units include automatic amplitude control, broad-band tuning, and include advanced features like:

• Total processing time: 1 second to 99 hours (SLPf unit)
• LED readout displays parameter settings during setup and operation for external control. They operate at 40 kHz, 50/60 Hz.
• Twenty user-programmed presets for convenience
• Self diagnostics on start-up
• Reflective programmed protection for convenience

All units have digital controls including a membrane keypad for easy data entry, 16 hour timer, adjustable start/stop, 90 character LED display to monitor parameters, and much more. The parallel power monitor and Branson's Rosette cell disruptor system add more utility. All units are supplied as an operational package including power supply, converter, and standard horn base.

### Smaller Volumes

**Model** | **Output Dimensions** | **Weight** | **Part Number** | **Input Power** | **Included Horn**
--- | --- | --- | --- | --- | ---
SLP Time | 150 Watts | 7.9" x 7.1" x 9.9" | 22 lbs. | 101-063-723 | 1/8˝ Microtip
SLP Energy | 150 Watts | 7.9" x 7.1" x 9.9" | 22 lbs. | 101-063-724 | 1/8˝ Microtip

**Rosette Cell**

Branson's Rosette Cell provides a unique flow path of substrates for exposure to ultrasonic energy during circulation through the cell. When it is immersed in a sonic bath, the enlarged glass surface area and circulation through the side arms provides an efficient mean of heat exchange. Three sizes are available.

**Acoustic Sound Enclosure**

The Branson Acoustic Sound Enclosure contains a sound barrier that reduces the ambient noise level a minimum of 24 dBs from the work area. The Branson Acoustic Sound Enclosure reduces the ambient noise level a minimum of 24 dBs from the work area, reducing the ambient noise level a minimum of 24 dBs from the work area. Reduces the ambient noise level a minimum of 24 dBs from the work area.