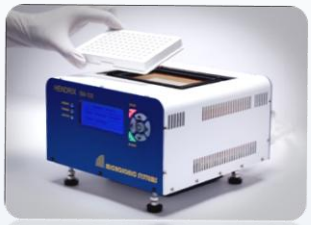
MICROSONIC SYSTEMS™

HENDRIX Ultrasonic Fluid Processors

HENDRIX SM100

The HENDRIX SM100 ultrasonic fluid processor has 384 transducer elements for high-throughput microplate processing. The system supports microplates in 96-, 384- and 1536-well formats.



Compound Solubilization

Solubilizes compounds in DMSO in minutes or recovers precipitated compounds from liquid stores for compound management, HTS or secondary screening.

Assay Mixing

Mixes assays 7 times more efficiently than orbital shakers and 12 times faster than diffusion; produces homogenous assays that increase data accuracy.

Sample Thawing

Thaws frozen samples on demand. Takes less than 5 minutes to thaw 96 sample tubes or one microplate. Simultaneous thawing and solubilization further enhances throughput.

Beads/Particles Suspension

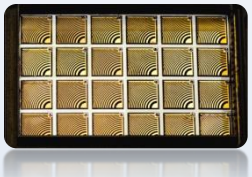
Keeps beads or magnetic particles in suspension for genomic applications such as DNA purification; open-deck design allows concurrent pipetting activity.

HENDRIX SM224

This is the second generation HENDRIX ultrasonic fluid processor with 24 powerful transducer elements for initial compound solubilization. Unlike the conventional overnight sonic bath process, compounds in large volume vials, such as in 4 mL glass vials, can now be solubilized in just minutes.

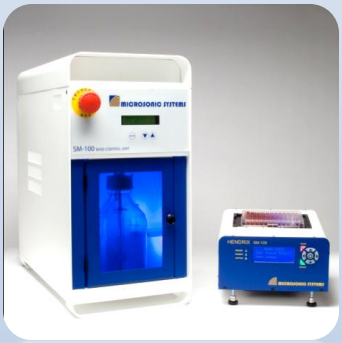
Powerful Transducer for Instant Solubilization

The HENDRIX SM224 system has 24 transducer elements which provide a 1:1 ratio for a rack of 24 high-volume sample vials either 4mL or 6mL.



Modular Design Saves Bench Space

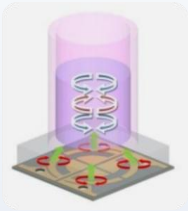
Both the HENDRIX SM224 ultrasonic fluid processor and the HENDRIX SM100 system incorporate the same dual modular design – the fluid processor unit (FPU) has open-deck labware access with a footprint smaller than a laptop computer, and the base control unit (BCU) and the external chiller can be positioned beneath the bench. The modular design of the systems provide easy labware handling while maximizing available bench working space.



Microprocessor for Life Sciences

Our Bulk Lateral Ultrasonic (BLU)™ technology produces an entirely new form of ultrasonic energy – a broad beam of energy created by proprietary Micro-Electrical-Mechanical Systems (MEMS) transducers.

This new form of ultrasonic energy combines a very high power output with a very small form factor.



The transducer is described as the "**Microprocessor for Life Sciences**" because of its wide range of potential uses in life sciences. The operation begins with an excitation signal that the MEMS transducer converts into a sample as a broad beam of acoustic energy. The energy creates layers of lateral ultrasonic thrust in alternating standing waves. The broad spectrum of control of the technology enables applications from gentle non-destructive mixing of proteins and cells to very strong shearing pressures.

Feature	Benefit
Broad beam **Bulk Lateral Ultrasonic (BLU)™** technology	Works with various labware types Reduces consumable costs
Extensive spectrum of control	Applies to a wide range of uses
Scalable	Meets throughput requirement Saves time

HENDRIX SM Series Product Specifications

Power Requirements
- 100-120V AC 50/60Hz 15A 250V AC, 15 A
- 200-240V AC 50/60Hz 10A 250V AC, 15 A

Vacuum Requirements
- Free air flow rate: 2.95CFM, 5 m^3/hour, or 83.4 L/min
- Min. airflow at vacuum: 23 inch-Hg (gauge/below atmosphere) @ 1.5CFM, or 176 torr or 234 mbar @ 42.48 L/min, or 23.43 Kpascal @ 2.55 m^3/hour

Chiller Requirements
- SM100: Internal chiller included
- SM224: External water chiller required

Operating Environment
- 15–35°C; 10%-80% relative humidity, non-condensing

MICROSONIC SYSTEMS

76 Bonaventura Dr.

San Jose, CA

(408) 844-4980

sales@microsonics.com

www.microsonics.com