



# HENDRIX SM100

## Programmable Ultrasonic Microplate Fluid Processor



**FLUID PROCESSOR UNIT**



**BASE CONTROL UNIT**

### Applications:

- Non-invasive, non-destructive mixing
  - Improves homogeneity of compounds in solution
  - Eliminates localized concentration in a well
  - Leaves cell viability and morphology unchanged
  - Variable power operation
- Compound Solubilization
  - Decreases false negative results due to compound precipitation
- Isothermal thawing of microplates
  - Complete in less than 90 seconds
- Bead, particle, and cell re-suspension

### Ordering Information:

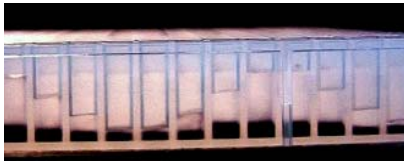
*Item Number: SM100*

*Description: Programmable Ultrasonic Microplate Fluid Processor*

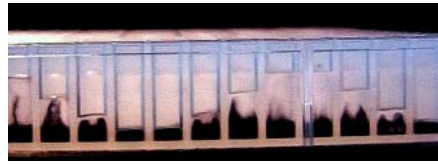
*For sales inquiries, send request to: [sales@microsonics.com](mailto:sales@microsonics.com) or call 408-844-4993*



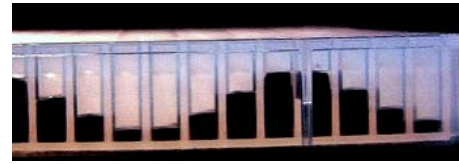
**Mixing in 384-well microplate - Black Dye in water at different fill heights**



**Elapsed Time: 0 Sec**



**Elapsed Time: 2 Sec**



**Elapsed Time: 10 Sec**

**Compound Solubilization in 384-well microplate - Sugar fully dissolved in water**



**Elapsed Time: 0 Sec**

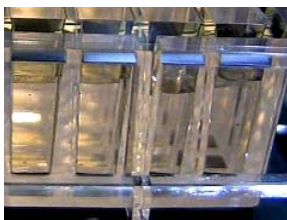


**Elapsed Time: 5 Sec**

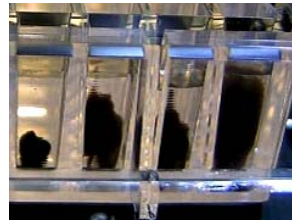


**Elapsed Time: 30 Sec**

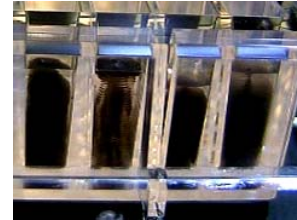
**Bead re-suspension in 384-well microplate - Magnetic beads in water**



**Elapsed Time: 0 Sec**



**Elapsed Time: 5 Sec**



**Elapsed Time: 10 Sec**

**Features:**

- Processes 24, 96, 384, 1536 and 3456-well polypropylene, polystyrene, and COC SBS format microplates
- Compact, modular design - efficient for integration/stand-alone use
  - Fluid processor unit occupies about ½ sq. ft. of deck space (W: 8.25" D: 8.75" H: 4.25")
  - Base control unit easily sits underneath lab bench (W:9.5" D: 18.0" H:18.5")
- Robotic arm accessible plate nest
- Easy access to program configurations through LCD display and keypad interface
- External communication & programming architecture for remote computer control
  - Client PC via RS232 and Ethernet
  - API enables control of the mixer program configuration for drivers and integrations
  - .NET Framework 2.0 and COM compatible SDK
- Simple, built-in, low-maintenance, temperature-controlled fluidic system

**Advantages:**

- Does not kill cells or denature enzymes – no bubble nucleation (cavitation) or foaming
- Unparalleled speed – dramatically reduces plate processing time
  - Simultaneously thaws, mixes, and solubilizes
  - 384 simultaneously active effectors
- Ultra gentle mixing to high power solubilization
- Microplate properties unaffected by acoustic power
- Compound solubilization without plate sealing
  - Decreased cycle time with no consumables
- High reliability design with few moving parts
- Works with water, DMSO and higher viscosity fluids