



**FOR IMMEDIATE RELEASE**

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## **MICROFLUIDICS OFFERS M-110Y MICROFLUIDIZER® PROCESSOR**



**Newton, Mass.** - Microfluidics introduces one of its most popular laboratory fluid processors, the M-110Y Microfluidizer® processor, a pneumatic bench top version that rounds out a comprehensive line of lab machines for chemical formulation development and other fluid processing applications.

The M-110Y is an easily portable lab machine that provides an order of magnitude higher shear rate than any available fluid processor on the market today. The processor maximizes the energy-per-unit fluid volume, insuring the generation of uniform, submicron particle and droplet sizes. Process pressures are highly variable and reproducible, ranging from a low of 1,500 psi to a high of 23,000 psi. Options available for the M-110Y include a NIST traceable pressure transducer and thermocouple and accessories allowing pressurized sample feed.

The M-110Y utilizes the now well-established proprietary interaction chambers that are specifically designed with fixed-geometry, wear-resistant micro channels that accelerate the product stream to high velocities. This process creates controlled and reproducible shear and impact forces that bring about the desired results. Because the interaction chamber employs no moving parts, no disassembly is required for cleaning.

As a result of the Microfluidics' fixed geometry interaction chamber, the system is capable of processing a wide variety of fluids ranging from simple oil-in-water emulsions to highly immiscible solids-in-liquid suspensions.

Additionally, the processor is easy to operate and designed for clean-in-place procedures. These features virtually eliminate sample cross-contamination. Because each Microfluidics unit is process repeatable and scaleup is guaranteed, customers can be confident that their laboratory scale development efforts will scale to pilot and production volumes.

## **About Microfluidics**

Microfluidics, a wholly owned subsidiary of MFIC Corporation, provides patented and proprietary high performance Microfluidizer® materials processing equipment to the biotechnology, pharmaceutical, chemical, cosmetics/personal care and food industries. Microfluidics applies its nearly 20 years of high pressure processing experience to produce the most uniform and smallest liquid and suspended solid structures available, and has provided manufacturing systems for nanoparticle products for more than 15 years. The Company is a leader in advanced materials processing equipment for laboratory, pilot scale and manufacturing applications, offering innovative technology and comprehensive solutions for nanoparticles and other materials processing and production. More than 3,000 systems are in use and afford significant competitive and economic advantages to Microfluidics equipment customers.

Companies seeking an affordable, high-pressure fluid processor can get complimentary sample testing at one of three Microfluidics facilities. Visit [www.microfluidicscorp.com](http://www.microfluidicscorp.com), email [mixinginfo@mfics.com](mailto:mixinginfo@mfics.com) or contact Microfluidics at 800.370.5452 for application information.

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