



FOR IMMEDIATE RELEASE

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MICROFLUIDICS INTRODUCES CONTROLS AUTOMATION FOR ITS M-700 SERIES PILOT/PRODUCTION SYSTEMS

Increases Productivity and Reliability

Newton, Mass. - Microfluidics Corporation introduces full, customizable controls and automation for its M-700 Series Microfluidizer® high shear fluid processors. Allowing for potentially full integration and connectivity to customer SCADA or DCS systems using Microfluidics controls, M-700 Processors are capable of generating up to 40,000 psi for premium results at an affordable cost, while guaranteeing scale-up to full production.

Each processor delivers the most uniform and reproducible distribution of submicron particle size at the highest shear rates available. Additionally, the patented interaction chamber boasts highly wear-resistant construction and a geometrically fixed design, meaning that the entire product stream will encounter equal energy-per-unit volume and produce extraordinarily stable emulsions and suspensions.

The addition of a flexible controls design allows for M-700 system configuration on three levels. At the first level, an interface panel is available to assist in the monitoring of various hydraulic fluid levels and temperatures, process pressure, and product temperature at the inlet and outlet. The addition of a process pressure controller offers second level closed-loop pressure control, allowing the customer to conduct maintenance and process audits to ensure optimum product quality. At the third level, full automation is available using Microfluidics DCS, and Automated Valve Actuators with position sensors that render the machine easier to use than ever before. Full control of the Microfluidizer® processor provides information on all process states, including alarms, notification, and automatic shutdown functions.

The controls system is constructed using a NEMA-4x, wash-down enclosure, PLC, HMI, industrial PC and documentation. It is built to cGAMP4 guidelines, ensuring that the automation can be completely validated under 21 CFR Part 11 for US FDA regulated environments.

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Optionally, Clean-In-Place and Sterilize-In-Place is available for the automated M-700. The series is also available with Ethernet communication, which connects with the customers factory automation systems.

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, email mixinginfo@mfics.com or contact Microfluidics at 800.370.5452 for application information.

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