

News

Microfluidics™, a division of MFIC Corporation

New M-710 Microfluidizer™ Processor

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NEW 100-HORSEPOWER M-710 MICROFLUIDIZER® HIGH-SHEAR FLUID PROCESSOR OFFERS COMPANIES AN AFFORDABLE SCALE-UP ALTERNATIVE.

Companies facing the problem of how to affordably bring new products to market or manufacture large volumes of stable emulsions and suspensions now have an alternative to expensive high-pressure fluid processors or traditional homogenizers. Microfluidics, a division of MFIC Corporation (Newton, Mass.), offers a new, guaranteed scalable, 100-hp, stainless steel M-710 Series Microfluidizer™ high-shear fluid processor that complements the existing M-700 Series product line.

“The M-710 is expected to be very competitive, both in price and performance, with all of the available alternatives on the market today, including high-pressure homogenizers,” said Bob Bruno, president and COO of MFIC.

With the new M-710 processor, companies can produce from 2 gallons per minute (GPM) at 40,000 psi to 8 GPM at 10,000 psi in batch or continuous mode. The intensifier pump’s synchronous operation keeps product flowing at high velocities and near constant pressure. As product flows through the patented, fixed-geometry interaction chamber, the resulting shear forces reduce particles to sub-micron or droplet sizes with a very narrow particle size distribution. The M-710 processor uniformly deagglomerates, disperses and distributes particles to create very stable emulsions and solids-in-liquid suspensions. The lightweight, longer-lasting Zirconia ceramic plunger and wear-resistant seals, coupled with the interaction chamber’s abrasion-resistant ceramic or diamond construction, keep maintenance and repair costs to a minimum. Because the interaction chamber employs no moving parts, no disassembly is required for cleaning. All these features contribute to the M-710 Microfluidizer processor’s lower cost of ownership.

The M-710 comes with an optional Ultra-Clean-in-Place (UCIP) feature that thoroughly cleans the system between batches or before storage. Most existing options and accessories for the M-700 series are compatible with the M-710 product line, including flush diaphragm pressure transducers, feed pumps and temperature sensors, and a split-system design for clean room production areas with limited space.

Companies seeking an affordable, high-pressure fluid processor can get complimentary sample testing at three of MFIC's facilities. Visit www.microfluidicscorp.com, email mixinginfo@mfics.com or contact Microfluidics at 800.370.5452 for application information.