

Tiny Particles, BIG Results

Microfluidizer® high-shear fluid processors from Microfluidics International Corporation set the standard for nanoemulsion and nanoparticle applications. No matter your application we have the technology that provides targeted size reduction at lower peak pressures, attaining industry leading particle distribution profiles and guaranteed process performance at lab-to-production scales. With higher yields of active ingredients and greater control over process repeatability, our homogenization equipment sets standards the rest of the industry aspires to emulate.

Laboratory Models

Model	Environment	Operating Pressure range	Flow rate (depends on chamber type)			Minimum volume	Volume Max	IXC	APM	Pressure Transducer	Pressure Gauge	Cgmp	User interface	Cooling coil
			10,000psi	20,000 psi	30,000psi									
HC8000	Pneumatic	Up to 8000 psi	1000 ml/min			250ml	100 l	Ceramic	NA	Option	Option	NA	Air Valve	Option
HC8000 EP	Pneumatic	Up to 8000 psi	1000 ml/min			250ml	100 l	Ceramic	NA	Option	Option	Mostly	Air Valve	Option
M110Y	Pneumatic	23,000 psi	300 ml/min		NA	60 ml	100 l	Ceramic	Standard	Option	Standard	NA	Air Valve	Standard
M110Y EP	Pneumatic	23,000 psi	300 ml/min		NA		100 l	Ceramic	Standard	Standard	N/A	Mostly	Air Valve	Standard
LV1	Electric (Plug and Play) 1 phase	Up to 30,000 psi	6 ml per stroke			2ml	10 ml	Ceramic	NA	N/A	N/A	NA	Push Button	Option
LM20-20	Electric 3 phases	Up to 20,000 psi	120 ml/min			10 ml	20 l	Ceramic	Option	N/A	Option	NA	PLC	Option
LM20-30	Electric 3 phases	Up to 30,000 psi	120 ml/min			10 ml	20 l	Diamond	Option	N/A	Option	NA	PLC	Option
M110P 30	Electric (Plug and Play) 1 phase	Up to 30,000 psi	120 ml/min			60 ml	40 l	Diamond	Option	Option	Standard	Option	Push Button	Standard
M110P 20	Electric (Plug and Play) 1 phase	Up to 20,000 psi	120 ml/min			60 ml	40 l	Ceramic	NA	Option	Standard	NA	Push Button	Standard
M110PS 30	Electric (Plug and Play) 1 phase	Up to 30,000 psi	120 ml/min			25 ml	40 l	Diamond	Option	Option	Standard	Option	Push Button	Standard
M110PS 20	Electric (Plug and Play) 1 phase	Up to 20,000 psi	120 ml/min			25 ml	40 l	Ceramic	NA	Option	Standard	NA	Push Button	Standard

Pilot Models

Model	Environment	Operating Pressure range	Flow rate (depends on chamber type)			Minimum volume	Volume Max	IXC	APM	Pressure Transducer	Pressure Gauge	Cgmp	User interface	Cooling coil
			10,000psi	20,000 psi	30,000psi									
LM10	Pneumatic	Up to 23,000 psi	250-600 ml/min			14 ml	100 l	Ceramic	NA	N/A	N/A	NA	PLC	Standard
M110EH-30	Electric 3 phases	Up to 30,000 psi		0.5 lpm	0.3 lpm	120 ml	200 l	Diamond	Standard	Option	Standard	Option	Push Button	Standard
M110EH-30 S	Electric 3 phases	Up to 30,000 psi		0.5 lpm	0.3 lpm	25 ml	200 l	Diamond	NA	Option	Standard	NA	Push Button	Standard

Production Models

Model	Environment	Operating Pressure range	Flow rate (depends on chamber type)			Minimum volume	Volume Max	IXC	APM	Pressure Transducer	Pressure Gauge	Cgmp	User interface	Cooling coil
			10,000psi	20,000 psi	30,000psi									
M7115	Electric 3 phases	Up to 10	4.74 lpm	2.44 lpm	1.53 lpm	> 12 l	Continuous	Ceramic (10K) Diamond (20-30K)	Standard	Option	Standard	Option	Push Button	Standard
M7125	Electric 3 phases	20 or	7.78 lpm	3.96 lpm	2.53 lpm	> 12 l	Continuous	Ceramic (10K) Diamond (20-30K)	Standard	Option	Standard	Option	Push Button	Standard
M7250	Electric 3 phases	30,000 PSI	15.6 lpm	7.97 lpm	5.10 lpm	> 12 l	Continuous	Ceramic (10K) Diamond (20-30K)	Standard	Option	Standard	Option	Push Button	Standard