

MixGenizer Series High Pressure Micromix Homogenizer

Microfluidic Mixing | Nanoemulsion | Nanoparticle | Nanodispersion | Microsphere | Liposome

Unique Benefits

- **Pioneering Technology:** A pioneering high-pressure microfluidic mixing system
- **Smart:** Programmable operation with an intuitive, user-friendly control system
- **Silent:** Noiseless performance with high energy efficiency
- **Precise Mixing Control:** $\mu\text{L}/\mu\text{s}$ level flow control for experiments with flexible mixing ratios.
- **CE compliant and RoHS compliant**



MixGenizer is a high-pressure microfluidic mixing and homogenization system for two or more inlet streams. Through Genizer's ultra-high-pressure dual-pump system and diamond interaction chamber, different fluids are mixed at preset ratios under intense shear, impact, and microchannel turbulence, enabling efficient nanoscale formulation development. It is ideal for laboratory preparation of liposomes, nanosuspensions, microemulsions, lipid microspheres, nanoprecipitations, nanoemulsions, nanocrystals, infusion formulations, and fine chemical reactions.

Specifications

Catalog No.	MixGenizer-30k	MixGenizer-Pilot	MixGenizer-Prod
Max. Flow Rate	100mL/min	30L/hr	100L/hr
Min. Sample	1mL	100mL	300mL
Max. Pressure	30,000psi	30,000psi	30,000psi
Dimensions (cm)	85×50×35	165×90×65	175×100×130
Weight (kg)	58	320	800
Power	220V/110V	380V/440V	380V/440V
Max. Temp.	80 °C (176 °F)		
Cleaning	CIP/SIP/Flush to clean		
Features	Notable shear rate; Powerful micromix		



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MixGenizer



Mechanism

Standard Features

Parts	Y-type Diamond mixing chamber
Control System	High pressure programming control systems [®] : Touch Screen, Speed control, Auto stop control by volume, time, pressure or temperature, settable volume control as low as 1mL, display of flow rate and time, overload protection
Pressure Gauge	Digital display on the touch screen
Inlet Type	1/4" HP coupling
Outlet Type	1/4" HP coupling
Inlet Speed	0-100mL/min ± 0.1 mL/min
Mixing Accuracy	1%
Mixing Arrange	25%-100%
Feed Reservoir	20mL Syringe or S/S Cylinder
Collector Reservoir	20mL Syringe or S/S Cylinder
Product Material	316L Stainless Steel, Tungsten Carbide, Viton, Teflon, UHMWPE
Material Standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects

Available Option

Parts	High Pressure Extruders, Y-type Diamond mixing chamber with cooling, Heat Exchanger
Control System	Gradient Mixing, three or four component
Detector	Pressure gauge, Pressure and Temp. transducer
Outlet type	Tri-Clamp or Luer
Feed Reservoir Collector Reservoir	20mL, 50mL, 100mL, 200mL Syringe, 300mL, 500mL S/S Cylinder, Jacketed Glass Cylinder or Online
Cylinder	Titanium High Pressure Cylinder (Resistant to strong acid and base)



Mixing Chamber



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