

MixGenizer-30K, a HP Homogenizer for Microfluidic Mixing and Cell Disruption

The MixGenizer applies microfluidic approaches and is a kind of nano-particle generator. The aim of microfluidic mixing is to achieve a thorough and rapid mixing process of two different samples in interaction chambers at high pressure. The MixGenizer is designed with a separate pump system to avoid contamination and the specially designed microfluidic diamond chamber is the core unit where the samples experience mixing, diffusing and cell disruption processes. The system can be widely used in biochemical applications.



MixGenizer-30K, for fluid Micro-mixing and homogenizing at the same time



Microfluidic Mixing Interaction Chamber, Diamond, F20X-RT

Main features of the MixGenizer:

- ▶ Pressure: 30,000 psi (2,068 bar)
- ▶ Flow rate: ~100 mL / min (water value)
- ▶ Minimum sample volume: 5 mL
- ▶ Weight: ~60 kg, bench top
- ▶ Mixing Interaction Chamber, Diamond
- ▶ Application: Nano emulsions, fat emulsions, liposomes, cell disruption, nano dispersion, deagglomeration

Enhanced Features:

- ▶ Control System: PLC touch screen, digital pressure value, auto stop
- ▶ Cooling System: Heat exchanger, diamond interaction chamber designed with cooling ports
- ▶ 316L high pressure tubing and piping
- ▶ Warranty period of one year against any manufacturing defects
- ▶ Tools and Spares
- ▶ CE compliant and RoHs compliant