

ManuGenizer High-Pressure Homogenizer

Nanoemulsion | Cell Disruption | Nanodispersion | Deagglomeration | Liposome

Unique Benefits

- **Particle Size Control:** Reproducible submicron particle-size distribution
- **Smart Backflush System:** Anti-clogging backflush function
- **Smart:** Programmable control system with reliable, user-friendly operation
- **Compliance Assurance:** IQ/OQ, FAT/CIP/SIP/ Audit, CGMP Standards
- **Strong:** More than 500 L/hr at 30,000 psi
- **CE-compliant and RoHS-compliant**

Always Discount for Public Research



The ManuGenizer Series Microjet High-Pressure Homogenization System is engineered for large-scale production. It is suitable for the industrial-scale production of fat emulsions, liposomes, nanosuspensions, lipid microspheres, nanoemulsions, dairy products, infusion solutions, cell disruption applications, juice homogenization, fine chemicals, dyes, and related products. The maximum working pressure is 30,000 psi / 2,065 bar. All product-contact parts are made of FDA-compliant sanitary materials, including 316L stainless steel, 17-4PH stainless steel, titanium alloy, zirconia ceramic, PEEK, and UHMWPE.

Specifications

Catalog No.	Manu-120L-30K	Manu-240L-30K	Manu-480L-30K	Manu-720L-25K	Manu-1000L-20K
Flow rate	120L/hr	240L/hr	480L/hr	720L/hr	1000L/hr
Min. Sample	5L	8L	12L	15L	15L
Max. Pressure	30,000psi	30,000psi	30,000psi	25,000psi	20,000psi
Dimensions (cm)	237*90*148	237*90*148	305*125*180	305*125*180	305*125*180
Weight (kg)	~900	~1300	~2500	~2500	~2500
Max. Temp.	80 °C (176 °F)				
Power	380V~480V, 3-phase				
Cleaning	CIP/Flush to clean				
Features	Digital display of pressure or pressure gauge				



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ManuGenizer Series High-Pressure Homogenizer



Manu



Control System HMI



Homogenizing Chamber

Standard Features

Parts	Multi-Slotted Y-type + Z-type Diamond interaction chamber with cooling option
Control System	High-pressure programmable control system [®] : touchscreen interface, pressure control, automatic stop by volume, time, pressure, or temperature, adjustable volume control down to 1 L, flow-rate and time display, and overload protection.
Pressure Gauge	Electric
Inlet type	1½" Tri-Clamp
Outlet type	1½" Tri-Clamp
Feed Reservoir	Feed Diaphragm Pump
Collector Reservoir	N/A
Product-contact materials	316L stainless steel, zirconia ceramic, Viton, Teflon, UHMWPE
Material standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects

Available Option

Parts	Liposome Extruders, Homogenizing valves -Two stages, Heat Exchanger
Control System	Mechanical control, Speed, start, stop control
Software Module	Three-Level Access Control, Electronic Signature, Audit Trail, Data Export
Detector	Pressure gauge, Pressure and Temp. transducer
Outlet type	Tri-Clamp or Barbed fitting
Feed Reservoir	Feed Diaphragm Pump
Cylinder	Titanium High pressure Cylinder (Resistant to strong acid and base)