

ProdGenizer Series High Pressure Homogenizer

Nanoemulsion | Cell Disruption | Nanodispersion | Deagglomeration | Liposome

Unique Benefits

- **Energy efficient:** Half the energy consumption of most homogenizers
- **Small:** Integrated design delivers light weight and small dimensions.
- **Smart:** Programmable control system with reliable, foolproof functions.
- **Silent:** Noiseless performance with high energy efficiency
- **Strong:** More than 100L/hr at 30,000 psi
- **CE & RoHS compliant**

Always Discount for Public Research



The ProdGenizer Series Electric Ultra-High Pressure Homogenizer is intelligently programmed and touchscreen-operated equipment. It is suitable for laboratory testing and industrial production to prepare fat emulsions, liposomes, nanosuspensions, lipid microspheres, nanoemulsions, dairy products, infusion solutions; it also supports cell disruption, juice homogenization, processing of fine chemicals and dyes, and other applications. Its maximum operating pressure is 30,000 Psi (2,065 Bar). All medium-wetted components are constructed from FDA-compliant sanitary materials, including 316L, 17-4PH, 15-5PH, titanium alloy, zirconia ceramic, Viton, PEEK and UHMWPE.

Specifications

Catalog No.	PrG-5K	PrG-10K	PrG-15K	PrG-20K	PrG-30K
Flow rate	300L/hr	240L/hr	180L/hr	125L/hr	100L/hr
Min. Sample	1000mL	800mL	600mL	400mL	300mL
Max. Pressure	5,000psi	10,000psi	15,000psi	20,000psi	30,000psi
Dimensions (cm)	175×100×130				
Weight (kg)	~800				
Max. Temp.	80 °C (176 °F)				
Power	380V/480V, 3-phase				
Cleaning	CIP/Flush to clean				
Features	Digital pressure display or pressure gauge				



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ProdGenizer



Foolproof Control



Homogenizing Chamber

Standard Features

Parts	Multi-Slotted Y-type Diamond interaction chamber with cooling option
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 50ml, display of flow rate and time, overload protection
Pressure Gauge	Electric
Inlet type	9/16" HP coupling; 1" Tri-Clamp
Outlet type	3/8" HP coupling; 1" Tri-Clamp
Feed Reservoir	Online, 3000mL SUS316 Cylinder
Collector Reservoir	Online, 3000mL SUS316 Cylinder
Product material	16L, 17-4PH, 15-5PH, zirconia ceramic, Viton, PEEK and 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	3000 mL/5000 mL Jacketed Feed Reservoir
Cylinder	Titanium High pressure Cylinder (Resistant to strong acid and base)