

UltraGenizer 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 12L/hr at 60,000 psi
- **CE & RoHS compliant**

Always Discount for Public Research



The UltraGenizer Series Electric Ultra-High Pressure Homogenizer features touchscreen operation and intelligent programmable control. It is applicable to laboratory testing and industrial production for preparing fat emulsions, liposomes, nanosuspensions, nanoemulsions, lipid microspheres, dairy products, infusion solutions, juice homogenization, cell disruption, fine chemicals, dyes and other products. Its maximum operating pressure is 60,000 Psi (4,100 Bar). All medium-wetted components are made of FDA-compliant sanitary materials: 316L, 17-4PH, 15-5PH, titanium alloy, zirconia ceramic, cemented carbide, Viton, PEEK and UHMWPE.

Specifications

Catalog No.	UG-20K	UG-25K	UG-30K	UG-40K	UG-45K	UG-20K
Flow rate	35L/hr	30L/hr	25L/hr	20L/hr	15L/hr	12L/hr
Min. Sample	30mL	25mL	25mL	20mL	20mL	15mL
Max. Pressure	20,000psi	25,000psi	30,000psi	40,000psi	45,000psi	60,000psi
Dimensions (cm)	150×68×48					
Weight (kg)	~200					
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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UltraGenizer



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	3/8" HP coupling; 1" Tri-Clamp
Outlet type	3/8" HP coupling; 1" Tri-Clamp
Feed Reservoir	Online, 3000mL SUS316 Cylinder
Product material	316L, 17-4PH, 15-5PH, zirconia ceramic, cemented carbide, Viton, PEEK and UHMWPE
Material standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects

Available Option

Parts	Liposome Extruders, Heat Exchanger
Control System	Pressure control, Speed, start, stop control
Software Module	Three-Level Access Control, Electronic Signature, Audit Trail, Data Export
Detector	Pressure gauge, Pressure and Temp. transmitter
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)