

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 | | | | |



Phone: +1(323) 825-1851
Fax : +1(323) 978-4693
Email: Nano@Genizer.com
<http://www.genizer.com/>

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ProdGenizer Series High Pressure Homogenizer



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 | 316L, 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) |