

Hand Driven High Pressure Homogenizer

Nanoemulsion | Cell Disruption | Nanodispersion | Deagglomeration | Liposome

Unique Benefits

Discount for publication of public papers

- Lowcost high pressure Homogenizer
- Portable design deliver the light weight and small dimensions
- Easy Hand driven without compressed gas
- Autoclavable of whole unit
- Strong Ultra-high pressure up to 30,000psi; Adjustable 3 Stage: 1st Stage:10,000psi; 2nd Stage:20,000psi; 3rd Stage: 30,000psi
- CE compliant



HandGenizer™ is a portable hand driven high pressure homogenizer. It provides up to 30,000 psi high pressure homogenization without the compressed gas or electric motor. It can be used for formulation testing of fat emulsion, liposome, nanosuspension, microemulsion, lipid microsphere, nanoemulsions, dairy products, infusion solutions, cell disruption, juice homogeneity, fine chemical engineering, dye and etc. The HandGenizer™ provides options of the Y-type Diamond interaction chamber, cavitation nozzle, impact valve or membrane extruder.

Specifications

Catalog No.	HG-1mL-10K	HG-1mL-15K	HG-1mL-20K	HG-1mL-25K	HG-1mL-30K
Flow rate	50mL/min	25mL/min	25mL/min	25mL/min	25mL/min
Min. Sample	2mL	1mL	1mL	1mL	1mL
Max. Pressure	10,000psi	15,000psi	20,000psi	25,000psi	30,000psi
Multi-Stages (Adjustable)	10,000psi 4,000psi 2,000psi	15,000psi 8,000psi 4,000psi	20,000psi 12,000psi 6,000psi	25,000psi 16,000psi 8,000psi	30,000psi 20,000psi 10,000psi
Dimensions (cm)	25×40×20				
Weight	15 kg (32 lbs)				
Max.Temp.	80°C (176°F)				
Cleaning	Flush to clean; Whole unit autoclavable				



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http://www.genizer.com/handgenizer-laboratory-hand-drive_p0009.html

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HandGenize™

Hand Driven High Pressure Homogenizer



HandGenizer with Chamber



HandGenizer with Extruder



Homogenizing Chamber

Standard Features

Components	Y-type Diamond interaction chamber with cooling option
Application	Water, oil, emulsion, liposome, alcohol, high-viscosity liquid or solid suspension
Pressure Gauge	35,000 psi G35000 High Pressure Gauge
Inlet Type	1/4" HP coupling
Outlet Type	1/4" HP coupling
Feed Reservoir	20mL Syringe
Collector Reservoir	20mL Syringe
Product material	316L stainless steel, Tungsten Carbide, Viton, Teflon, UHMWPE
Material standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects

Available Option

Parts	High Pressure Liposome Extruder, Homogenizing valves -Two stages, Heat Exchanger
Chamber Type (Material: Diamond)	Interaction chamber (Microfluidizer) Static Homogenizing Valve (Avestin) Cavitation Chamber (BEE without EC) Impact Chamber (Most manufactures) Membrane extruder (Millipore)
Detector	Pressure gauge, Pressure and Temp. transducer
Outlet type	Tri-Clamp or Luer
Feed Reservoir	10mL, 20mL, 50mL, 100mL, 200mL, 500mL
Collector Reservoir	Syringe, Cylinder, Tank or Online
Cylinder	Titanium High pressure Cylinder (Resistant to strong acid and base)