

Hand Drive, Mini High Pressure Homogenizer

Nanoemulsion | Cell Disruption | Nanodispersion | Deagglomeration | Liposome

Unique Benefits:

- **Budget-Friendly Mini Homogenizer**
- **Portable design deliver the light weight and small dimensions**
- **Pressure up to 30,000 psi (2,070 bar)**
- **Manual Operation:** No need compressed air or electricity
- **CE Compliant**



The HandGenizer is an environmentally and budget-friendly mini homogenizer compared to hydraulic or pneumatic liquid processors. It's a manual homogenizer that is hand-operated by moving the handle up and down to generate high pressure on samples. Additionally, it requires no PLC control system, no electricity and is ideal for simple experimental tasks, especially when dealing with small amounts of liquid nano-emulsions.

The mini pump of the HandGenizer is designed to supply the desired pressure to the product stream. When lifting the pump handle, a small portion of the sample will be drawn into the mini-pump body. By moving the pump handle way down to create a high-pressure profile (max. 30,000 psi) to the sample stream, this portion of the sample will pass through the check valve and through the Genizer Y-Type Diamond Interaction Chamber. It then exits the outlet and is collected.

Specifications

<i>Catalog No.</i>	HG-10K	HG-15K	HG-20K	HG-25K	HG-30K
<i>Max. Pressure</i>	10,000 psi	15,000 psi	20,000 psi	25,000 psi	30,000 psi
<i>Mini Sample</i>	3mL	3mL	3mL	3mL	3mL
<i>Flow Rate</i>	10mL~30mL/min (base on the operator operational strength)				
<i>Dimensions</i>	25×40×50(cm)				
<i>Weight</i>	15 kgs (33 lbs)				
<i>Power Source</i>	Hand Drive, requires no PLC control system, no electricity or compressed air source				
<i>Cleaning</i>	Flush to clean				



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

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Genizer Y-Type DIX Chamber



Liposome Applications

Standard Features

Including Parts	1) Y-Type diamond interaction chamber
	2) Genizer sanitary mini pump
	3) High pressure gauge, G35000
	4) Inlet, outlet check valves
	5) 316L stainless piping and tubing
Applications	Nano emulsions, liposomes
Inlet	1/4" HP coupling
Outlet	1/4" HP coupling
Feed Reservoir	20mL syringe
Collection	20mL syringe
Spare	Spare O-ring packs, spare check valves
Warranty	1 year against any manufacturing defects

Available Options

Available Parts	1) Y-Type diamond interaction chamber with cooling
	2) Genizer online liposome extruders
	3) G58000, high pressure gauge
	4) 316L stainless heat exchangers
	5) Track-Etched liposome filter membranes
Chamber Type (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
Feed Reservoir	10mL, 20mL, 50mL, 100mL, 200mL, 500mL Syringe, Cylinder, Tank or Online
Warranty	1 year against any manufacturing defects



HandGenzier Combines with Genizer
Online Liposome Extruder (GOE)

