

Hand Driven High Pressure Homogenizer

Nanoemulsion | Cell Disruption | Nanodispersion | Deagglomeration | Liposome

Unique Benefits

Always Discount for Public Research



- **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 30,000 psi
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-20K | HG-1ml-25K | HG-1ml-30K |
|-----------------|------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|
| Flow rate | 1~20 ml/min (user dependent) | | |
| Min. Sample | 0.6 ml per stroke | | |
| Max. Pressure | 20,000psi | 25,000psi | 30,000psi |
| Dimensions (cm) | 25×40×20 | | |
| Weight | 15 kg | | |
| Max. Temp. | 80°C (176°F) | | |
| Cleaning | Flush to clean | | |
| Features | 3 stages 20,000psi; 2 stages 14,000psi; 1 stages 6,000psi; | 3 stages 25,000psi; 2 stages 16,000psi; 1 stages 8,000psi; | 3 stages 30,000psi; 2 stages 20,000psi; 1 stages 10,000psi; |



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HandGenizer™

Hand Driven High Pressure Homogenizer



HandGenizer with Chamber



HandGenizer with Extruder



Homogenizing Chamber

Standard Features

| | |
|---------------------|------------------------------------------------------------------------------------|
| Parts | 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 Extruders, 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 Syringe, |
| Collector Reservoir | Cylinder or Online |
| Cylinder | Titanium High pressure Cylinder (Resistant to strong acid and base) |