

# High Pressure Liposome Extruder

Liposome | Lipopolyplex | Sterile Filtration | Lab | Pilot | Manufacture

## Unique Benefits

The Genizer Extruder is designed to produce unilamellar populations of liposomes and lipopolyplex by the extrusion of a multilamellar liposome suspension. A multilamellar sample is forced repeatedly through polycarbonate filters with a defined pore size, and the smaller liposome 50nm-120nm with homogeneous size is produced.

- **Sanitary:** 316L Stainless Steel
- **Compatible:** Tri-clamp, NPT, UNF, Flange and custom fittings are available
- **Efficient:** micron pore supporting maximize the pressure and lower the contamination
- **Compatibility:** GMP and FDA compliant



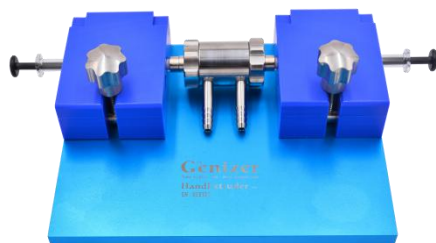
Scale	Catalog No.	Maximum Pressure	Power Type	Dimension L×W×H(cm)/Weight
	HandExtruder-1mL-RT	150 psi	Hand Drive	23×17×13/2kg
	HandExtruder-1mL	150psi	Hand Drive	23×17×13/2 kg
Test Scale 1-200mL	Jacketed Extruder-10mL	3,000 psi	Compressed Air	23×13×25/4kg
	Online Extruder-25mL	6,000 psi	<a href="#">Pump-25mL/min</a>	10×10×8/1 kg
	Jacketed Extruder-100mL	3,000 psi	Compressed Air	23×20×32/7kg
	GExtruder-200mL	6,000 psi	<a href="#">Pump-50mL/min</a>	12.5×12.5×9/2 kg
Pilot Scale 100-8000mL	Jacketed Extruder-800mL	3,000 psi	Compressed Air	25×25×37/20kg
	Online Extruder-1L	6,000 psi	<a href="#">Pump-10L/hr</a>	18×18×10/5kg
	Jacketed Extruder-3000mL	3,000 psi	Compressed Air	30×25×55/45kg
Production 2-20L 20L-100L	Online Extruder-8L	6,000 psi	<a href="#">Pump-30L/hr</a>	30×25×25/25kg
	Jacketed Extruder-10000mL	3,000 psi	Compressed Air	45×40×65/120kg
	Online Extruder-20L	6,000 psi	<a href="#">Pump-60L/hr</a>	45×40×30/90kg
	Multi-Extruders System	6,000 psi	<a href="#">Pump-80L/hr</a>	TBD



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Hand Extruder



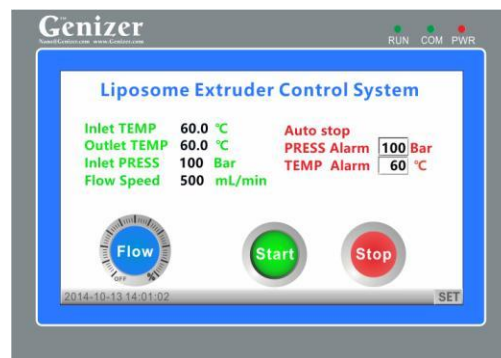
Jacketed Extruder



Online Extruder



Homogenizer with Extruder



Sanitary High Pressure pump control system

## Standard Features

Surfacing	Electro-polish and inner Passivation
Application	Liposome   Lipopolyplex   Sterile Filtration   Lab   Pilot   Manufacture
Inlet type	1/2" or 1" Tri-Clamp or High Pressure Coupling
Outlet type	1/2" or 1" Tri-Clamp or High Pressure Coupling
Feed Reservoir	SUS316 Cylinder or Online
Collector Reservoir	SUS316 Cylinder or Online
Product material	316L stainless steel
Material standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects

## Available Option

Parts	Tri-clamp, NPT, UNF, Flange and custom fittings are available
Customer	Customer size for larger flow rate
Detector	Pressure gauge, Pressure and Temp. transducer
Outlet type	NPT, UNF, Flange and custom fittings are available
Feed Reservoir	100mL, 200mL, 500mL, 1L, 2L Syringe, Cylinder or Online
Collector Reservoir	Cylinder or Online
Product material	Titanium (Resistant to strong acid and base)