

Liposome Extruder Product Overview

Liposome | HandExtruder | Jacketed Extrusion | Online Extrusion | Membrane Extrusion | Scale-Up

Unique Benefits

Genizer liposome extruders provide membrane extrusion solutions for small-volume formulation, temperature-controlled processing, online operation, and process scale-up. Samples are passed through track-etched membranes with defined pore sizes to support particle-size reduction and improved size uniformity. Different configurations are available for laboratory, pilot, and production-scale processing.

- **Multiple Configurations:** Manual, jacketed, online, and multi-extruder systems.
- **Process Control:** Temperature-controlled and online configurations are available.
- **Scalable Processing:** Solutions for formulation development through production-scale processing.



Specifications

Scale	Catalog No.	Maximum Pressure	Power Type	Dimensions / Weight
Test Scale 1-200 mL	HandExtruder-1mL-RT	200 psi	Manual	14 × 23 × 7 cm / 2 kg
	HandExtruder-1mL	200 psi	Manual	14 × 23 × 7 cm / 2 kg
	GJE-10mL	500 psi	Inert Gas	13 × 23 × 25 cm / 4 kg
	GOE-25mL	2,000 psi	<u>Pump-25mL/min</u>	10 × 10 × 8 cm / 1 kg
	GJE-100mL	500 psi	Inert Gas	20 × 23 × 32 cm / 7 kg
	GOE-200mL	2,000 psi	<u>Pump-100mL/min</u>	13 × 13 × 9 cm / 2 kg
Pilot Scale 100-8,000 mL	GJE-800mL	800 psi	Inert Gas	18 × 22 × 35 cm / 19 kg
	GOE-1000mL	2,000 psi	<u>Pump-10L/h</u>	18 × 18 × 10 cm / 5 kg
	GJE-3000mL	800 psi	Inert Gas	27 × 32 × 52 cm / 45 kg
	GOE-8L	2,000 psi	<u>Pump-30L/h</u>	25 × 30 × 25 cm / 24.5 kg
Production 1-20 L	GJE-10000mL	800 psi	Inert Gas	43 × 52 × 70 cm / 155 kg
	GOE-20L	2,000 psi	<u>Pump-60L/h</u>	40 × 45 × 30 cm / 120 kg
10-100 L	Multi-Extruder System	2,000 psi	<u>Pump-80L/h</u>	Model dependent



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https://www.genizer.com/c/liposome-extruder_0365

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Liposome Extruder Product Overview



HandExtruder



Jacketed Extruder



Online Extruder

Standard Features

Product Material	316L stainless steel
Material Standard	Compliant with FDA and GMP pharmaceutical sanitary standards
Operating Principle	Liposome suspensions are passed through track-etched membranes with defined pore sizes under pressure to reduce particle size and improve size uniformity
Cleaning	Disassemble, rinse, clean, and dry
Sterilization	Whole unit autoclavable
Warranty	Standard 1-year warranty

Optional Features

All Series	Available Options
Liposome Membrane	Track-etched membrane; pore sizes: 30, 50, 80, 100, 200, 400, 800 nm; 1, 2, 5, 10, 20, 30 μ m; diameters: ϕ 19, ϕ 25, ϕ 47, ϕ 90, ϕ 142, ϕ 293 mm; availability depends on model

HandExtruder	Available Options
Gas-Tight Syringe	2.5 mL
Extended Plunger Handle	Improves comfort during reciprocating operation

Jacketed Extruder	Available Options
Gas Cylinder Connection	CGA580 (U.S.); G 5/8 (UK/China); DIN477 (Germany); NF E 29-650/C (France); UNI4409 (Italy)
High-Pressure Nitrogen Hose	1 m or 1.5 m
Feed / Loading Tools	500 mL and 1 L feed cups; model dependent

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Online Extruder	Available Options
Automatic Lifting System	Available for GOE-20L only
Power Source Options	High-pressure pump; high-pressure homogenizer; hand pump
Sanitary High-Pressure Flexible Hose	Customizable
Multi-Extruder System	Multiple extruders connected in parallel or series; e.g., GOE-8L × 2, × 4, or × 6

Jacketed & Online Extruders

O-Ring Material	VMQ; NBR; FKM; FFKM
Detection Instruments	Sanitary mechanical pressure gauge; pressure transducer; temperature transducer; safety relief valve
Drain Disc	PETE material
Outlet Type	Barbed fitting; Luer fitting
Warranty Extension	Standard 1-year warranty; optional 2-, 3-, 4-, or 5-year extended warranty

