

# High Pressure Online Liposome Extruder

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

## Unique Benefits

Genizer Online Liposome Extruders can be connected with sanitary pump or high pressure homogenizer. It used for production of pharmaceutical liposome for anti-cancer drugs from testing to manufacture scale with temperature control. Homogenous samples can be produced quickly and easily in minutes; typically 5-10 passes are sufficient to produce a sample with uniform liposome size.

- **Sanitary:** 316L Stainless Steel
- **Efficient:** micron pore supporting maximize the pressure and lower the contamination
- **Compatibility:** GMP and FDA compliant



The Online Extruder is virtually no dead-volume and easily cleaned and suitable for sterilization. The Genizer Online Liposome Extruders are designed to generate homogeneous unilamellar liposomes and Lipopolyplex. Extrusion is a one-step procedure that produces liposomes by forcing lipid suspensions of drug, protein or gene through track-etched filters with defined pore size. The Genizer Online Extruder is easily cleaned and suitable for sterilization, compliance with FDA and GMP sanitary standards in Pharmaceuticals.

## Specifications

Catalog No.	GOE-25mL	GOE-200mL	GOE-1000mL	GOE-8L	GOE-20L
Sample Size	25mL	200mL	1000mL	8000mL	20000mL
Cooling	Jacketed	Jacketed	Jacketed	Jacketed	Jacketed
Dimensions	10×10×8(cm)	13×13×9(cm)	18×18×10(cm)	30×25×25(cm)	45×40×30(cm)
Weight	1kg	2kg	5kg	25kg	90kg
Min. Sample Size	5mL	10mL	100mL	500mL	1000mL
Max. Pressure	1,500 psi-6,000 psi				
Max. Temperature	80 °C (176 °F)				
Power Type	High pressure pump or High pressure homogenizer				
Nano-membrane	Track-etched liposome membrane				
Cleaning	Flush to clean /CIP/SIP; Whole unit autoclavable				



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[http://www.genizer.com/online-liposome-extruder\\_p0004.html](http://www.genizer.com/online-liposome-extruder_p0004.html)

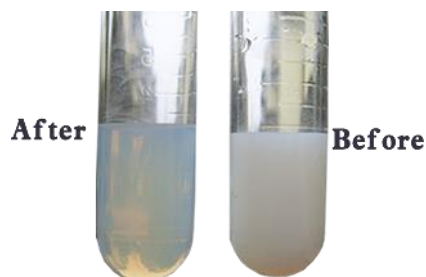
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## Standard Features



Parts	1) Liposome Online Extruder 2) 10 pieces of 100nm membrane
Filter Support	Jacketed Filter Support with Pagoda inlet/outlet
Inlet Type	3/8" High pressure coupling
Handle	Handle for GOE-800mL, GOE-3000mL and GOE-10000mL
Nano membrane	100nm track-etched polycarbonate membrane
Product material	316L stainless steel, Viton
Material standard	Pharmaceutical Grade, FDA & GMP approvable
Warranty	1 year against any manufacturing defects



## Available Option

Detector	10,000psi sanitary Pressure Gauge with adaptor, Pressure transducer, Temperature transducer
Inlet Type	Tri-clamp or Luer
Outlet Type	Tri-clamp or Luer
Nano membrane	30, 50, 80, 100, 200, 400, 800nm, 1000nm, 2µm, 5µm, 10µm, 20µm, 30µm track-etched membrane
Multi Extruder	Parallel or Series connection of Multi Extruder



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