

PilotGenizer Pilot-scale High Pressure Homogenizer from Genizer LLC

The PilotGenizer is a pilot-scale ultra-high-pressure homogenizer and cell disruptor from Genizer LLC. It is electric-driven and gives formulation development experts more alternatives and capacities for cell disruption, emulsification and particle size reduction quickly and easily.



The PilotGenizer dual pumps system is based on a digital control design and is simple to use, with an auxiliary diamond chamber that helps pre-mix the sample and aids the nano-sizing procedure, as well as a primary diamond interaction chamber that disrupts the cell and reduces particle size. In the sample cooling unit, a 316 L stainless heat exchanger is employed to help cool the samples.

In addition, the Genizer PLC touch screen provides operators with multi-advanced features, such as auto-stop configuration (cycle numbers, set time and pressure) and precision sampling. 316 L stainless steel, 17-4 ph stainless steel, titanium alloy, tungsten carbide, PTFE, UHMWPE, or other corrosion-resistant materials are used on any parts that come into contact with the medium.

Main Features of the NanoGenizer:

- Diamond interaction chamber technology
- Flow rate: ~20 L/H at 30,000 psi (water value)
- Pressure: 25,000 psi, 30,000 psi and 45,000 psi
- Sanitary dual pumps system
- Control system: PLC touch screen, digital pressure value, auto-stop configuration
- Application: Nano emulsions, liposomes, fat emulsions, nano dispersion, cell disruption, deagglomeration, graphene, and carbon nanotube

Technical Data:

Catalog No.	PilotGenizer-20K	PilotGenizer-25K	PilotGenizer-30K
Flow rate (water value)	30L/H	25L/H	20L/H
Min. Sample	100mL	100mL	100mL
Max. Pressure	20,000psi (1,378 bar)	25,000psi (1,725 bar)	30,000psi (2,068 bar)
Dimensions (cm)	130×60×30		
Weight	150 kg (330 lbs)		
Max. Temp.	80°C (176°F)		
Power	380V/430V, three phase		
Cleaning	Flush to clean		
Features	Digital display of pressure or pressure gauge		

(※ Flow rate can be customized as your request.)