

Nanogenizer-110P Series High Pressure Homogenizer

Nanoemulsion | Cell Disruption | Nanodispersion | Deagglomeration | Liposome

Unique Benefits

Always Discount for Public Research

- **Energy efficient:** 1/2 energy loss of the most homogenizers
- **Small:** Integrated design deliver the light weight and small dimensions
- **Smart:** Programming control systems confer diligent functions
- **Silent:** Noiseless performance with high energy efficiency
- **Strong:** More than 120 ml/min at 30,000 psi
- **CE compliant and RoHs compliant**



Nanogenizer-110P series electric ultrahigh pressure homogenizer is an equipment operated with the touch screen and controlled intelligently by program. It can be used for laboratory preparation of fat emulsion, liposome, nanosuspension, microemulsion, lipid microsphere, nanoemulsions, dairy products, infusion solutions, cell disruption, juice homogeneity, fine chemical engineering, dye and etc. The maximum working pressure is 45000 Psi/3100 Bar. All parts touching with medium are FDA approved sanitary materials including 316L stainless steel, 17-4ph stainless steel, titanium alloy, tungsten carbide, PTFE, UHMWPE.

Specifications

Catalog No.	Nano15k	Nano20k	Nano25k	Nano30k	Nano45k
Flow rate	120ml/min	120ml/min	120ml/min	110ml/min	65ml/min
Min. Sample	1ml	1ml	1ml	1ml	1ml
Max. Pressure	15,000psi	20,000psi	25,000psi	30,000psi	45,000psi
Dimensions (cm)	70×36×40	70×36×40	70×36×40	85×36×40	85×36×40
Weight	50 kg	50 kg	50 kg	55 kg	60 kg
Max. Temp.	80°C (176°F)				
Power	110V/220V/230V				
Cleaning	Flush to clean				
Features	Digital display of pressure or pressure gauge				



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NanoGenizer-110P



Control Screen



Homogenizing Chamber

Standard Features

Parts	Y-type Diamond interaction chamber with cooling option
Control System	High pressure programming control systems [®] : Touch Screen, Speed control, Auto stop control by volume, time, pressure or temperature, settable volume control as low as 1ml, display of flow rate and time, overload protection
Pressure Gauge	Electric
Interaction Chamber	Low sticky sample (high requirement for the final product): pharmaceuticals emulsion, liposome, fine chemistry and pure sample
Homogenizing Valve	High sticky sample: cell sample, coarse food sample, sample with <0.2mm large particles
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
Control System	Mechanical control; Speed, start, stop control
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)