

NanoPump Sanitary High Pressure Pump

Sanitary transfer of small sample of fluid with pressure

Unique Benefits

- **Energy efficient:** 1/2 energy loss of the most homogenizers
- **Small:** integrated design delivers the light weight and small dimensions
- **Smart:** programming control systems confer diligent functions
- **Silent:** noiseless performance with high energy efficiency
- **Strong:** more than 30L/hr at 300 bar
- **CE compliant and RoHS compliant**

Piston Pump/Flow controllable



NanoPump series electric Sanitary High Pressure Pump 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 30,000 Psi/2,000 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.	NanoPump-1500	NanoPump-1000	NanoPump-800	NanoPump-600	NanoPump-300
Flow Rate	6L/hr	8L/hr	10L/hr	18L/hr	30L/hr
Min. Sample	20mL	20mL	20mL	50mL	100mL
Max. Pressure	1,500bar	1,000bar	800bar	600bar	300bar
Dimensions (cm)	75×40×35	75×40×35	75×40×35	75×40×35	75×40×35
Weight	40 kg	40 kg	40 kg	40 kg	40 kg
Max. Temp.	80°C (176°F)				
Power	110V/220V/230V				
Cleaning	Flush to clean/CIP/SIP				
Features	Digital display of pressure or sanitary pressure gauge				



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NanoPump



Control Screen



NanoPump with DIXC

Standard Features

Parts	1 diamond interaction chamber
Control System	High pressure programming control systems [®] : touch screen, speed control, auto stop control by volume, time, pressure or temperature, settable volume control, display of flow rate and time, overload protection
Pressure Gauge	Electric
Inlet Type	1" tri-clamp
Outlet Type	1" tri-clamp
Inlet Reservoir	50mL/100mL/200mL/500mL syringe; 500mL/1L/2L stainless cylinder
Outlet Reservoir	50mL/100mL/200mL/500mL syringe; 500mL/1L/2L stainless cylinder
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, heat exchanger
Control System	Mechanical controls: speed, start, stop control
Detector	Pressure gauge, pressure and temp. transducer
Outlet Type	2" tri-clamp or luer
Inlet Reservoir	10mL, 20mL, 50mL, 100mL, 200mL, 500mL
Outlet Reservoir	syringe, tank or online
Cylinder	Titanium high pressure cylinder (resistant to strong acid and base)