

# Nanopump Sanitary High Pressure Pump

Sanitary transfer of small sample of fluid with Pressure

## Unique Benefits

Piston Pump/Flow controllable

- **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 30L/hr
- **CE compliant and RoHs compliant**



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 30000 Psi/2000 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   | 1500bar  | 1000bar       | 800bar       | 600bar       | 300bar       |
| Dimensions (cm) | 85×36×40   | 85×36×40      | 85×36×40     | 85×36×40     | 85×36×40     |
| Weight          | 60 kg  | 60 kg         | 60 kg        | 55 kg        | 50 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 |               |              |              |              |



Phone: +1(323) 825-1851  
Fax : +1(323) 978-4693  
Email: Nano@Genizer.com  
[http://www.genizer.com/nanopump\\_p0024.html](http://www.genizer.com/nanopump_p0024.html)

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# Nanopump Sanitary High Pressure Pump



NanoPump-1500bar



Control Screen

## 3 Steps for running the NanoPump

**Step 2:** Adjust the Speed from Low to High

**Step 1:** Add the Sample from Inlet



**Step 3:** Press the Start or Stop

## Standard Features

|                   |  |
|-------------------|--|
| Parts             | 1 set of 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 as low as 1ml, display of flow rate and time, overload protection |
| Pressure Gauge    | Electric   |
| Inlet type        | 1" Triclamp  |
| Outlet type       | 1" Triclamp  |
| Inlet Reservoir   | 50mL/100mL/200mL/500mLSyringe; 500mL/1L/2L Stainless Cylinder  |
| Outlet Reservoir  | 50mL/100mL/200mL/500mLSyringe; 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 control; 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 Syringe,                      |
| Outlet Reservoir | Tank or Online  |
| Cylinder         | Titanium High pressure Cylinder (Resistant to strong acid and base) |

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