

# NanoGenizer-Dual Series High Pressure Homogenizer

Nanoemulsion | Cell Disruption | Nanodispersion | Deagglomeration | Liposome

## Unique Benefits

- **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 and foolproof functions
- **Silent:** Noiseless performance
- **Strong:** More than 120mL/min at 30,000 psi
- **CE compliant and RoHS compliant**

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NanoGenizer-Dual series is a dual-pump bench-top electric micro-jet homogenizer which operated on the touch screen and controlled intelligently by program. The two pumps can be used separately, in parallel or in series. With compact design, it's especially suitable for laboratory preparation of fat emulsion, liposome, nano-suspension, micro-emulsion, lipid microsphere, nano-emulsions, dye and etc. The maximum working pressure is 30000 Psi/2000 Bar. All parts touching with medium are 316L stainless steel, 17-4ph stainless steel, titanium alloy, tungsten carbide, PTFE, UHMWPE or other corrosion resistance materials.

## Specifications

|                 |  |
|-----------------|--|
| Catalog No.     | NanoGenizer-Dual                               |
| Flow rate       | 180mL/min at 25,000psi, 120mL/min at 30,000psi |
| Min. Sample     | 30mL   |
| Max. Pressure   | 30,000psi                                      |
| Dimensions (cm) | 72×43×33                                       |
| Weight (kg)     | 60   |
| Max. Temp.      | 80°C (176°F)                                   |
| Power           | 220V   |
| Cleaning        | Flush to clean                                 |
| Features        | Digital display of pressure or pressure gauge  |



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# NanoGenizer-Dual Series High Pressure Homogenizer



NanoGenizer-Dual



Control Screen



Homogenizing Chamber

## Standard Features

|                     |  |
|---------------------|--|
| Parts               | Y-type Diamond interaction chamber with cooling option   |
| Control System      | High pressure programming control systems <sup>®</sup> : Touch Screen, Speed control, Auto stop control by time, pressure or temperature, display of flow rate and time, overload protection |
| Pressure Gauge      | Digital display on the touch screen  |
| Inlet type          | 1/4" HP coupling   |
| Outlet type         | 1/4" HP coupling   |
| Feed Reservoir      | 300mL S/S Cylinder   |
| Collector Reservoir | S/S Pipe   |
| Product material    | 316L stainless steel, Tungsten Carbide, Viton, Teflon  |
| Material standard   | Pharmaceutical Grade, FDA, GMP   |
| Warranty            | 1 year against any manufacturing defects   |

## Available Option

|                            |   |
|----------------------------|---|
| Parts                      | High Pressure Extruders, Homogenizing valves<br>-Two stages, Heat Exchanger |
| Control System             | Speed; start; stop control  |
| Detector                   | Pressure gauge, Pressure & Temp. transducer up to 8 optional                |
| Outlet type                | Tri-Clamp or Luer   |
| Feed & Collector Reservoir | 10mL, 20mL, 50mL, 100mL, 200mL Syringe, Tank or Online                      |
| Cylinder                   | Titanium High pressure Cylinder (Resistant to strong acid and base)         |