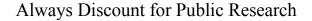
## Nanogenizer-110P Series High Pressure Homogenizer

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:** ① Controlled inlet volume±0.1mL; ② Auto stop with time/volume
- **Silent:** Noiseless performance with high energy efficiency
- Strong: More than 120 mL/min at 30,000 psi
- CE compliant and RoHs compliant





Nanogenizer 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      | 100mL/min      | 100mL/min       | 60mL/min        |
| Min. Sample     | 1mL   | 1mL            | 1mL            | 1mL             | 1mL             |
| Max. Pressure   | 15,000psi                                     | 20,000psi      | 25,000psi      | 30,000psi       | 45,000psi       |
| Dimensions (cm) | 85×36×40                                      | 85×36×40       | 85×36×40       | 85×36×40        | 85×36×40        |
| Weight          | 40 kg (85 lbs)                                | 40 kg (85 lbs) | 40 kg (85 lbs) | 45 kg (100 lbs) | 50 kg (110 lbs) |
| 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 Series High Pressure Homogenizer



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   |  |  |
| Inlet Type          | 1/4" HP coupling   |  |  |
| Outlet Type         | 1/4" HP coupling   |  |  |
| 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 Liposome Extruder,<br>Homogenizing valves -Two stages, Heat<br>Exchanger |  |  |
|---------------------------------------|--|--|--|
| Control System                        | Mechanical control; Speed, start, stop control   |  |  |
| Detector                              | Pressure gauge, Pressure and Temp. transducer  |  |  |
| Outlet type                           | Tri-Clamp or Luer  |  |  |
| Heat Exchanger                        | HPE-100; HPE-150; HPE-200  |  |  |
| <u>Liposome Extruder</u>              | GOE-200mL; GOE-1000mL  |  |  |
| Feed Reservoir<br>Collector Reservoir | 10mL, 20mL, 50mL, 100mL, 200mL, 500mL<br>Syringe, Cylinder, Tank or Online             |  |  |
| Cylinder                              | Titanium High pressure Cylinder (Resistant to strong acid and base)                    |  |  |



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