

SCIENTZ-150/150A High Pressure Homogeniser

HIGH PRESSURE HOMOGENIZER







High crushing Adjustable Wide range of sample rate pressure applications





Innovation, Service, Science

Listed on the Beijing Stock Exchange

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NINGBO SCIENTZ BIOTECHNOLOGY CO., LTD

SCIENTZ-150/150A High Pressure Homogeniser

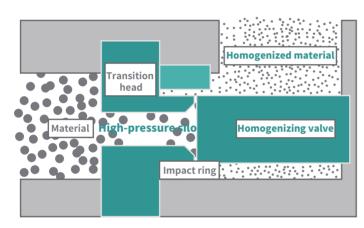
HIGH PRESSURE HOMOGENIZER

Product Description

Our High-Pressure Homogenizer is a miniaturized bench-top biological sample processing unit. The machine has a built-in cooling circulation system to directly cool the homogenizing head, and homogenizing valves for different applications can be purchased. It is characterized by high pressure, small volume, easy operation, high processing efficiency and large sample output. It is the standard equipment for R&D and production in bioengineering and biopharmaceutical industries.

Working Principle

Material from the material cup through the one-way valve into the high-pressure warehouse, through the pump body telescopic pressurization so that the sample to reach the regulated control of high pressure, through a specific width of the limited flow gap instantaneous release of the formation of micro-jet impact on the impact of the valve or homogenizing valve, in turn, through the cavity, impact, shear to achieve the emulsification of materials dispersed and the cell crusher purpose.



Working Principle Schematic

Product Features



High crushing efficiency The material particle size can be uniformly re to below 100nm, with a crushing rate of over



Adjustable pressure Homogenization pressure adjustable from 0 to 150



Versatile options Diamond crushing valve or Stellite emulsifying va



Online exhaust Simple operation and autom of regulated pressure after vo



High sanitary grade Made of 316L stainless steel material that m food and pharmaceutical requirements.



Zero Residue

Built-in venting valve structu



The inlet and outlet of the cooling connector are connected with the constant temperature tank which can effectively control the temperature rise of homogenized material.



Invention Patent Built-in cooler structure de



Adjustable flow rate

Application Areas



Bioengineering

Handling of microbial samples and fragmentation of algal cells;

Study of the effect on the functionality of plant proteins under different homogenization conditions.



Food industry

Research on the effects of different homogenization conditions on the physicochemical properties of food and beverages. The application of non-thermal sterilization technology in liquid food





Materials Engineering

Application in ultrafine powder processing and handling of pigments and dyes; Optimization of cosmetic (nanoparticle emulsion, liposome) processes



Biopharmaceuticals

Optimization of extraction and preparation of active pharmaceutical ingredients (fat emulsions, nanosuspensions, lipid nanoparticles, liposomes, flavonoids)

Research on the integration of traditional Chinese medicine extracts with modern pharmaceutical new technologies.

Sample Examples

Plant proteins: soy protein, peanut protein, sweet potato protein, etc;

Plant tissues: psyllium sprouts, hawthorn leaves, loquat leaves, ginger plant rhizomes, etc;

Algal cells: Spirulina cells, hairy Candida cells, Chlorella cells, etc;

Microorganisms: yeast, E. coli, fission kettle bacteria, etc;

Liquid food: food and beverages, dairy products, fruit juices, etc;

Paint screed: carbon black paint screed, phthalocyanine green paint screed, phthalocyanine blue paint screed, violet 23 paint screed, etc;



Technical Parameters

Model number	SCIENTZ-150(150PS)	SCIENTZ-150A(150APS)
Power supply	220V/50Hz	Three-phase four-wire system 380V/50Hz
Flow rate	6-12 liters/hour	12-25liters/hour
Suction times per minute	approx. 140	approx. 140
Maximum working pressure	1500bar	1500bar
Maximum product viscosity	2000cP	2000cP
Motor power	1.5KW 8stages	2000cP 3.0KW 8stages
Overall size	L800*W460*H450mm	L840*W620*H540mm
Maximum product humidity	90°C	90°C
Maximum vapor humidity	121°C	121°C
Maximum feed particles	<500 microns	<500 microns