

SD-1800F LOW TEMPERATURE LAB SPRAY DRYER

SD-1800F laboratory low-temperature spray dryer is a breakthrough made by us with efforts in spray drying technology. SD-1800F can extract natural product and juice from traditional medicine (herbal medicine) in laboratory and get powder particles of excellent liquidity at a low temperature of 110°C with a high yield. In particular, it achieves rapid material drying at low temperature and provides very convenient and safe drying method for thermo-sensitive materials, such as biological product, high carbohydrate traditional Chinese medicine natural product extract, thermolabile polymer material, heat gasification material and so on.

FEATURES

- Entire spray drying experimental process can be completed in 110 ° C, greatly reduces the temperature of drying to solve the problems for spray drying of heat-sensitive materials.
- Color touch-screen operation: PID temperature control heating temperature, heating accuracy reach ± 1°C., peristaltic pump feed rate can be adjusted at any time.
- Particle diameter of powder in normal distribution, good liquidity with low noise, in line with laboratories noise standards;
- Structure of two-fluid atomizer spray, made of high quality stainless steel materials, precision manufacturing, compact design without ancillary equipment, easy to use.
- Feed rate can be adjusted by feeding peristaltic pump, rated capacity
- Spray head located in the middle of the drying chamber, can be dry in concurrent or counter-current way, can lengthen or shorten drying time according to the material characteristics, suitable for heat-sensitive materials.
- With the function of the fluidized bed;
- Can be equipped with 1-micron precision filter, effectively improve the efficiency.











SPECIFICATIONS

Model	SD-1800F
Power	4000W
Voltage	220V
Frequency	50/60 Hz



F 1: 0 :	1500 H. C.
Evaporating Capacity	1500ml/h for water
Airflow	0-330 M3/h
Max. Inlet temperature	200℃
Heating power	3500W
Temperature precision	±1℃
Compressed air	4.2M3/h, 2-5bar
Nozzle jet	0.7mm standard/(0.5/0.75/1.0/1.5/2.0mm available)
Nozzle type	Two fluid nozzle
Possible particle size range	1-25µm
Mean Residence time	1.0-1.5 sec
Operation mode	Automatic/Manual
Max. Sample feed	1800ml/hr
Minimum sample volume	30ml
Seal of cyclone/cylinder	Silicone
Inlet temperature	105~200°C
Cyclone separator material	SUS-304 Stainless steel
Body material	SUS-304 Stainless steel
Spray chamber material	SUS-304 Stainless steel & borosilicate glass
collection bottle material	SUS-304 Stainless steel
Sound	<60db
Dimensions	1100*1000*1200mm
Weight	115KG
Display	7-Inch LCD can display
	Heat, Spray, Pump, Air pressure, de-blocker frequency
Thermal protection	Blower does not stop until temp <90 $^{\circ}\mathrm{C}$
Deblocking	Automatic
Atomizer material	SUS 316 Stainless steel



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