



Specialized in laboratory equipment

YC-1000 MINI SPRAY GRANULATOR

SHANGHAI PILOTECH INSTRUMENT & EQUIPMENT CO., LTD



Focused · Perfection · Reputation · Innovation

The world leading R&D solution for Spray Drying

- Famous brand for spray dryer in China
- 15 years continuous development
- Over 1,500 customers all over the world



Mini Spray Granulator YC-1000
The world leading R&D solution
for Spray Granulating /Drying /
Coating

Developed by Shanghai Pilotech Instrument & Equipment Co., Ltd., YC-1000 laboratory spray granulator (fluidized bed granulation) combines spray dehydration and granulation focusing on large particles powder granulation in laboratory.

Frequently, only small quantities of expensive products are available for research, development, universities and technical colleges. But sometimes less is more –with Mini Spray Granulator YC-1000 .

Pilotech
雅程设备

More compact design

Integrated plug and play technology, ready for immediate use, simply connect power and air compressor /blower built in. All the YC-1000 components packaged assembly and modified structure are easier to use. Dismantling the machine is easy and cleaning it is a simple matter.



Greater efficiency

Suitable for almost all fluid bed processes: Spray Drying, granulating /agglomerating and coating using bottom-spray process.



Suitable for heat-sensitive materials of easy dissolving particulates(for spray dry)



With maximum inlet air temperature reaching 200°C, it can meet high temperature drying requirements of ceramics and other materials; with minimum inlet air temperature being 105°C, it is especially suitable for spray drying of traditional Chinese medicine, extracts of natural substances and other materials with sugar content. No material will adhere to the wall during drying and materials are featured with excellent fluidity after drying.

Controls & Functionality

YC-1000 mini spray granulator is designed to ensure that all functions are simple to select and adjust, to quickly achieve the optimum conditions for spray drying. Both use a clear touch screen display, the operator can control the following functions:

- Inlet Temperature
- Outlet Temperature
- Airflow Volume
- Pump Speed



Two Fluid Nozzle with SUS316L stainless steel

The stainless steel spray assembly consists of an inner tube for the liquid sample leading to a small diameter jet. An outer tube directs compressed air to the nozzle. All units are supplied with 0.7mm jets, other sizes are available as accessories. The spray assembly incorporates an automatic de-blocking device that prevents the jet nozzle from becoming blocked, the de-blocking needle is activated by an integral compressor. De-blocker is sometimes necessary with materials which may solidify or when large particles in suspension cause blockages in the jet.



SUS 304 stainless steel

Spray chamber, cyclone separator, collector are all made of SUS 304 stainless steel & borosilicate glass. It can work in a no-pollution and stable environment, and sight glass equipped so the whole process can be inspected. All the spare parts are easy to install and clean.



Trusted by the users

Over 1,500 domestic customers of top universities, enterprises and research institutes use our mini spray dryer/granulator. And exported to more than 40 countries & regions such as the United States, Italy, South Korea, Mexico, Singapore, Canada, Malaysia, Chile and Russia etc.



Wide range of applications

YC-1000 mini Spray granulator can be used in a wide range of applications where the production of a free-flowing powder sample is required. This technique has successfully processed materials in the

following areas:

- Oxide • Blood • Polymers and Resins
- Beverages • Flavours & Colourings
- Milk & Egg Products • Plant & Vegetable Extracts
- Pharmaceuticals • Heat Sensitive Materials
- Plastics • Perfumes • Dyestuffs
- Ceramics & Advanced Materials
- Soaps & Detergents • Textiles
- Foodstuffs • Adhesives
- Bones, Teeth & Tooth Amalgam and many others



■ YC-1000 spray granulator parameters

Sr.no	Parameter	Pilotech YC-1000 spray granulator
	Function	Spray dryer,spray granulator,coating,mixing
1	Power	5KW ,220V,50/60Hz
2	Capacity for spray granulator	Max. 1000g/batch
3	Capacity for spray dryer	Max. 1500ml/h
4	Minimum sample volume	50g
5	Granulator temperature	40-150°C
6	Spray dryer inlet temp.	105-200°C
7	Compressed air	2-4 Bar
8	Temperature precision	±1°C
9	Coating	50-1000g/batch
10	Mixing	50-1000g/batch
11	Nozzle type	Two fluid nozzle
12	Nozzle jet	0.7mm standard/(0.5/0.75/1.0/1.5/2.0mm available)
13	Airflow	0-150 m ³ /h
14	Peristaltic pump	Max. 1500ml/h
15	Main chamber volume	10L
16	Heaterpower	4.5KW
17	Main chamber material	SUS304 Stainless steel&High borosilicate glass
18	Body material	SUS304 Stainless steel
19	Seal of cyclone/cylinder	Silicone
20	Sound	<60db
21	Dimensions	900*800*1300mm
22	Weight	110KG
23	Operation mode	Automatic/Manual
24	Display	7-Inch LCD display for Heat, Spray, Pump, Air pressure, de-blocker frequency