

SDG-02

Spray Dryer

Lab1st SDG/SDS series spray dryer is mainly used to produce trace particle powder for universities, research institutes and enterprises' laboratories in food, medicine and chemical industry. It has broad spectrum applicability to all solutions such as emulsion and suspension, and is suitable for drying heat-sensitive substances such as biological products, biological pesticides, enzyme preparations, etc. The material is heated only when they sprayed into mist size particles, so they are just instantaneously heated and can keep these active materials maintain its active ingredients.

Features

Stainless steel material, anti rust&corrosion.

Stainless steel nozzle with two-fluid spray structure, high efficiency, good atomization effect.

LCD touch screen parameter display: Inlet/outlet temperature/peristaltic pump speed/air volume/needle frequency.

High-quality borosilicate heat-resistant glass used for the spray, drying, collection system, ensure drying process carried out in a pollution-free environment.

Real-time regulation PID constant temperature control technology.

Equipped with air inlet filter to keep the sample purity.

Feed volume adjusted by the peristaltic pump, the minimum sample volume can reach 30ml.

Finished dry powder has uniform particle size, >95% dry powder in the same particle size range.

Equipped with nozzle cleaner (through needle), automatically cleared when the nozzle is blocked.



Parameters

Model	SDG-02
Technical Data	
Inlet Temperature [°C]	30-300;±1
Outlet Temperature [°C]	30-140;±1
Nozzle Diameter [mm]	1.0
Optional Nozzle [mm]	0.5/1.5/2.0
Drying Time [s]	1.0-1.5
Evaporation Rate [ml/h]	1500-2500
Total Power [Kw]	3
Voltage	220V; 1P; 50/60HZ
Material	
Drying Chamber	High borosilicate glass
Separation Chamber	High borosilicate glass
Collector	High borosilicate glass

Others	SUS304 (Option: SUS316)
Feeding	
Feeding Rate [ml/h]	30-2500
Feeding Method	Peristaltic pump
Dimension Weight	
Unit Dimension [mm]	1300×650×500
Package Dimension [mm]	880×680×1440
Package Weight [Kg]	134

Packages

W (mm)	CBM (m3)
D (mm)	Weight (kg)
H (mm)	

* Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original.