

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.



Spray Dryer

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.

Technical Data:

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|-------------------------|-------------------|
| 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 |

Package Information:

| | |
|-------------------------|---------------------|
| Length (cm) | Width (cm) |
| Height (cm) | CBM (m3) |
| Weight (kg) | Total capacity |
| Product Serial No. 9155 | 2023-06-01 16:35:13 |

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

