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Toption Products

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TP-S50 Centrifugal Spray Dryer

1. Could dry solution and emulsion to powder or granule products directly, don't need evaporation and crushing process.

2. Capacity: 2L/H, 5L/H, 10L/H.

3. Customization of bigger capacity.

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Description

Comments

1. Laboratory table top spray dryer is the latest type of TOPTION which adopts advanced international technology and spare parts.

2. TOPTION Laboratory Spray Dryer assembles many of new design, for example, small size for free moving, combining air compressor and electrical heater inside the cabinet, glass spray and cyclone separator for inspecting. All the data and functions are controlled by PLC.

Application

Spray dryer can be used in a wide range where the production of a free-flowing powder sample is required. This technique has processed materials in the following areas successfully:

1. Beverages, Flavours and Colouring, Milk and Egg Products, Plant and Vegetable Extracts, Pharmaceuticals, Heat sensitive Materials, Plastics, Polymers and Resins, Perfumes, Ceramics and Advanced Materials, Soaps and Detergents, Blood, dyestuffs, Food Stuffs, Adhesives, Oxides, Textiles, Bones, Teeth and Tooth Amalgam and many others.

2. Most solutions and supernsions can be spray dried providing that the resulting product has the characteristics of material.

3. It is popular in fields of Food, biology, material, pharmacy, university, and R&D institute, etc. especially for processing temperature-sensitive material, for e.g., powder, because material only touch air for a brief moment so that heat couldn't destroy the component of material.

Advantage & Benefits

1. Stainless steel material, arc corner design and polyester powder coated shell, prevents corrosion of acidity and alkaline air effectively.

2. Imported Schneider electrical components which is more stability.

3. PLC control system, make your research more easier and efficient.

4. Build in oil-free air compressor, without any noise.

5. Self-priming peristaltic pump, avoid secondary pollution, make sure whole process conducted smoothly.

6. Narrow size distribution, more than 95% of the dry powders are in the same range of particles.

7. Innovative tower wall purging device, improves the material recycling rate.

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8. High speed of drying, after spraying of the material liquid, the surface area of material will be increased greatly, make your research more efficient.

9. In the hot-air flow, 95%~98% of water can be evaporated at a moment. You can finish material drying only in several seconds.

10. Especially suitable for drying the heat sensitive materials, after drying, there's no need for smashing and sorting, so as to reduce the operation procedures and save your time.

Technical Specification

Item	Unit	TP-S50
Max capacity	ml/h	5000
Temperature range of inlet air	°C	140°C ~ 300°C Adjustable
Temperature range of outlet air	°C	80°C ~ 90°C
Precision of temperature	°C	±1
Dryer time	S	1.0 ~ 1.5
Speed of squirt pump	ml/h	5000
Spray system	/	Centrifugal nozzle
Spray direction	/	Downwards co-current
Electrical heating power	kw	9
Heat source	/	Electric
Total power	/	10KW 380V
Stainless steel tank diameter	mm	800
Dried powder restoring rate	%	≥95
Centrifugal spray rotation type		Compressed air rotation
Rotate speed	rpm	25000
Diameter of spray tray	mm	50
Dimension	mm	1800*930*2200

Star lab solution provider

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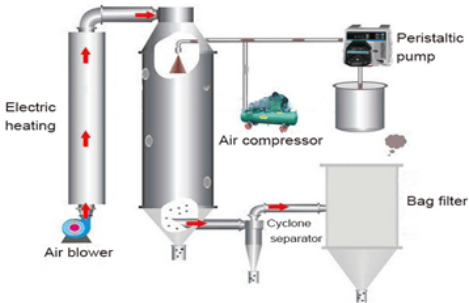
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TOPTION brand spray dryer contains: 2L/H laboratory spray dryer, 3L/H pilot type spray dryer, 3L/H centrifugal spray dryer, 5L/H centrifugal spray dryer for pilot or small production use, 10L/H industrial centrifugal spray dryer. More larger spray dryer customization please contact TOPTION specialists who have more than 10 years experience.



As star lab solution provider, TOPTION supply unique [spray dryer customization](#): laboratory spray dryer for organic solvents, lab low temperature spray dryer, lab spray granulator and lab UHT sterizier,etc.



2L/H lab spray dryer

3L/H pilot spray dryer

5L/H 10L/H industrial spray dryer

Item	Unit	TP-S15	TP-S30	TP-S30C	TP-S50	TP-S100
Max capacity	ml/h	1500-2000	3000	3000	5000	10000
Temperature range of inlet air	°C	40°C ~ 300°C	30°C ~ 300°C	30°C ~ 300°C	140°C ~ 300°C Adjustable	
Temperature range of outlet air	°C	40°C ~ 140°C	30°C ~ 140°C	30°C ~ 140°C	80°C ~ 90°C	
Spray system	/	Two-fluid nozzle	Two-fluid nozzle	Centrifugal nozzle	Centrifugal nozzle	
Precision of temp	°C	±1				
Dryer time	S	1.0 ~ 1.5				
Speed of squirt pump	ml/h	50 ~ 2000	3000	3000	5000	

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Nozzle size	mm	0.5/0.7/0.75/1.0/1.5/2.0				
Spray direction	/	Downwards co-current				
Heater Power	/	3KW 220V				
Total power	/	10KW 380V				
Heat source	/	Electric				
Air compressor	/	Built-in oil-free air compressor				
Dried powder restoring rate	%	≥95				≥98
Dimension	mm	940*850*1500	1700*1100*150	1700*1100*150	1800*930*2200	2500*1600*2800
Maximum moisture evaporation	Kg/h	2	3	3	5	10

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We are customer-centric and responsible team.
Our mission: make your research more accurate and efficient.
Our vision: Become the world's most competitive lab solution provider.
Our value: Sharing & win-win, customer success, be thankful, keep growing, innovation and responsible.



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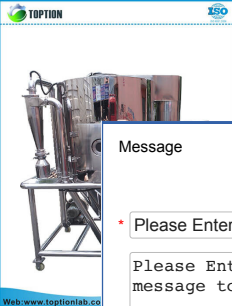
1 Pilot Two-fluid Spray



TP-S30C Centrifugal Spray Dryer



TP-S50 Centrifugal Spray Dryer



TP-S100 Centrifugal Spray Dryer

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