

Pilot Scale Freeze Dryer



PSFQ 9510

PRODUCT CATALOGUE

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Pilot Scale Freeze Dryer PSFQ 9510 is a small scale production unit with drying area of 2.7m². The cooling method and defrosting system in this model are Air Cooling, Ambient temperature, $\leq 25^{\circ}\text{C}$ and Electric defrosting system.

✦ Design

Equipped with LCD display, Touch Screen, PLC control standard helps to display freeze drying curves and also organic glass window for observation. 32 groups programs can be stored and each program is set up with 36 segments. The internal surface of rectangular chamber and product trays are made of 304 stainless steel. Silicon oil fills the hollow shelves with uniform shelf temperature, consistency and repeatable drying effect.

✦ Controller System

Provided with two branded compressors, a vacuum pump, a circulating pump and condenser separated from drying chamber which is better in water capture capability and reduce the drying time. The temperature accuracy of shelf is $\leq 1^{\circ}\text{C}$. This model can also provide Nitrogen filling valve and with USB port to output freeze drying data.

✦ Applications

Used in pharmaceutical, biotechnology, bacteriology, ceramics, microbiology, biochemistry, food and agriculture based industries for drying processes of large-scale production units.

Model No.	PSFQ 9510
Drying Area	2.7m ²
Temperature Range of Shelf	-35°C ~ +70°C
Condenser Temperature	Min. ≤-50°C
Final Vacuum	≤10 Pa
Condenser Ice Capacity	30kg/batch
Bulk Capacity	22L (10mm thickness)
Shelf Layer	6+1, spacing 60mm, 5 shelves for loading products, top shelf for heat radiation
Shelf Size	500*900*20 mm
Shelf Temperature Uniformity	±1.0°C
Tray Size	495*445*25 mm, 10pieces
Power Supply	380V, 50Hz, 3Phase
Installation Power	15kW
Weight	2500kg
Dimensions	1200*2100*1700 mm