

Pilot Scale Freeze Dryer PSFQ 8210



Product Catalogue

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Pilot Scale Freeze Dryer PSFQ 8210 is a standard type unit, designed with condensing capacity of 30kg/batch, freeze drying area of 2.25m², air cooling method at an ambient temp. ≤25°C and electric defrosting system.

➤ Design

It is designed with LCD display, touch screen, organic glass observation window to view the process, temperature accuracy of the shelf is ≤ 1°C. 32 groups program can be stored and each program can be set up to 36 segments. The hollow shelves are filled with silicon oil to maintain uniform shelf temperature and to have consistent and repeatable drying effect. The internal surface of rectangular chamber and product trays are made of 304 stainless steel.

➤ Controller System

Provided with branded compressors, vacuum pump, circulation pump and condenser separated from the drying chamber which improves the water capture capability and reduce the drying time. It can also display the freeze-drying curve, which is programmable, with the help of PLC control standard. The device can also be equipped with 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.

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➤ Specifications

Model No.	PSFQ 8210
Freeze Drying Area	2.25m ²
Temperature Range of Shelf	-45°C ~ +70°C
Condenser Temperature	Min ≤-70 °C
Final Vacuum	≤10 Pa
Condenser Ice Capacity	30kg/batch
Bulk Capacity	22L (10mm thickness)
Shelf Layer	5+1, spacing 80mm 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*25mm, 10 pieces
Voltage	380V, 50Hz, 3phase
Installation Power	15KW
Weight	2500kg
Dimensions	1200*2100*1700 mm
Packing Dimensions	1500*2450*2000 mm