

F Series Pilot Freeze Dryer

Scope of Application

Widely used in pharmaceutical, herbal extract, health product, food, and chemical production. In pharmaceutical applications, it is primarily employed for lyophilizing drugs.

■ Key Features



Precision Temperature Control

Maintains uniform drying ($\leq 1^{\circ}\text{C}$ temperature variance) with PID heating and adjustable shelves for reliable R&D-to-production process.



Premium Material Design

Aviation-grade acrylic door provides durability and clarity alongside inert-gas compatibility to prevent sample oxidation.



Smart Process Management

Real-time PLC controller displays drying curves and historical data while enabling USB export/printing for full traceability.

One-touch USB transfer and print-ready reports simplify documentation and compliance audits.

■ Optional Function

- Imported vacuum pump
- Automatic nitrogen filling interface
- F-frame
- Eutectic point test
- Vacuum adjustment
- Meet CMP standards
- Embedded model
- Mobile app and PC remote control
- Bluetooth group
- Fingerprint unlocking

Specifications



Model	MD-20F/A	MD-30F/A	MD-30F/B
Type	Ordinary	Ordinary	Gland
Dryer Area (m ²)	0.21	0.32	
Ability To Capture Water (Kg/batch)	4	6	
Schering Bottle Quantity	Φ12mm	1300	1950
	Φ16mm	814	1160
	Φ22mm	430	615
Plate Load Capacity(L)	3	4.5	
Plate Size	W/mm	400	
	D/mm	270	
Plate Distance (mm)		70	
Tray Quantity (pc)	2+1	3+1	
Plate Temperature Range (°C)		-50~+70 (no load)	
Cold Trap The Lowest temperature (°C)		≤-80 (no load)	
Ultimate Vacuum (Pa)		≤2 (no load)	
Power Supply		110V~/50/60Hz 220-240V~/50/60Hz	
Ambient Temperature		≤25	
Exterior Dimension (W*D*H)mm	810 x 815 x 1205	1050 x 760x 1300	1050 x 760 x 1300
Weight (kg)	236	335	360