

Lab Freeze Dryer

FREEZE-DRYING SYSTEM

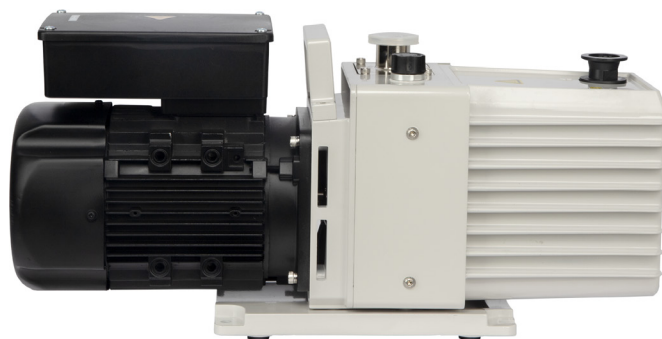


N Series Freeze Dryer

FREEZE-DRYING SYSTEM



MD-10N/A



vacuum pump



A: Ordinary type

Suitable for the drying of liquid and solid of bulk materials.



B: Pressure cap type

Suitable for the drying of materials in penicillin vials, and can achieve vacuum seal packaging of samples. It includes the functions of Ordinary type.



C: Ordinary manifold type

Suitable for lyophilizing bulk or small materials, and can be used with lyophilized bottles, vials, and wide-mouth bottles.

Optional Function

- Imported vacuum pump
- Automatic nitrogen filling interface
- Eggplant bottle T-frame
- Eutectic point test
- Cold trap electric heating defrost
- Condenser temperature configurations with -80°C
- Sample plate PID intelligent heating

Features

- The control system automatically saves freeze-drying data and allows you to view real-time freeze-drying curves and historical curves.
- 7-inch LCD screen, easy to operate.
- The drying chamber of the freeze dryer is made of polycarbonate material, which has high transparency and strong sealing performance.
- Can store multiple freeze-drying curves to realize data extraction from USB disk.
- Equipped with a filling valve that can be filled with dry inert gas.
- The cold trap temperature can be set, which is beneficial to extending the life of the vacuum pump.
- Model 10ND adds PID intelligent heating mode to achieve more accurate temperature control and more stable temperature rise.

Main Technical Parameters

Model		MD-10N			MD-10ND		
Type		MD-10N/A	MD-10N/B	MD-10N/C	MD-10ND/A	MD-10ND/B	MD-10ND/C
Dryer area(m ²)		0.12	0.08	0.12	0.12	0.08	0.12
Ability to capture water(Kg/batch)		3	3	3	4	4	3
Schering bottle quantity	Φ12mm	920	560	920	920	560	920
	Φ16mm	480	285	480	480	285	480
	Φ22mm	260	165	260	260	165	260
Eggplant shape bottle		0	0	8	0	0	8
Plate load capacity (L)		1.5	1	1.5	1.5	1	1.5
Plate size(mm)		Φ200	Φ180	Φ200	Φ200	Φ180	Φ200
Plate distance (mm)		70					
Tray quantity (pc)		4	3	4	4	3	4
Cold chamber size(mm)		Φ250×150			Φ250×250		
Cold trap the lowest temperature(℃)		≤-50 (No load)					
Ultimate vacuum(Pa)		≤5 (No load)					
Power Kw(220V50Hz)		0.95			1		
Ambient temperature(℃)		≤28					
Overall dimension(mm)		620(L)×475(W)×490(H)+510			620(L)×475(W)×490(H)+510		
Weight(kg)		57					
Heating		No			Yes		

F Series Freeze Dryer

Features

- The difference between drying room temperature is $\leq 1^{\circ}\text{C}$, and the drying effect is uniform.
- The plate temperature is adjustable and controllable, allowing pilot testing and production processes to be explored.
- Equipped with a filling valve that can be filled with dry inert gas.
- The door of the drying room is made of aviation-grade acrylic material.
- PLC controller, PID adjust temperature, display freeze-drying curve and historical curve.
- Support U disk data transfer and data printing.



Main Technical Parameters

Model		MD-20F/A	MD-30F/A
Type		Ordinary	Ordinary
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	L/mm	400	
	W/mm	270	
Plate distance (mm)		70	
Plate 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 KW (220V50Hz)		3.03KW	3.8
Ambient temperature		≤ 28	
Overall dimension (L*W*Hmm)		1100*770*1300	1100*680*1240
Weight(Kg)		236	335