

Lab Freeze Dryer



N Series Freeze Dryer

Scope of Application

Delivers large-scale freeze-drying flexibility with a 40% smaller space than conventional systems. Engineered to process diverse sample types — from bulk pharmaceuticals to temperature-sensitive biologics.



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.

■ Key Features



Smart Process Control

7-inch LCD displays real-time/historical freeze-drying curves while auto-saving all data;
USB export enables easy access to stored drying profiles for analysis.



Premium Chamber Design

Polycarbonate drying chamber offers better visibility and leak-proof sealing-ideal for visual monitoring of sensitive samples.



Longevity Optimization

Configurable cold trap temperature reduces vacuum pump stress;
Inert gas filling valve minimizes product oxidation post-drying.



Precision Upgrade

(For Model 10ND) PID-based intelligent heating ensures $\pm 0.5^{\circ}\text{C}$ accuracy and ultra-stable ramp control for critical applications.

■ 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
- Mobile app remote control

Specifications



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						
Schering Bottle Quantity	Φ12mm	920	560	920	920	560	
	Φ16mm	480	285	480	480	285	
	Φ22mm	260	165	260	260	165	
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			Φ250×150			
Cold Trap The Lowest temperature (°C)	≤-56 (No load)						
Ultimate Vacuum (Pa)	≤5 (No load)						
Power Supply	110V~/50/60Hz 220-240V~/50/60Hz						
Ambient Temperature (°C)	≤25						
Exterior Dimension (W*D*H)mm	610×482×455+440			610×482×455+440			
Weight (kg)	55	61	57	59	65	61	
Heating Temperature (°C)	NO			Yes			