



Vacuum Freeze Dryer

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Vacuum Freeze Dryer



Product Overview

Vacuum freeze dryers are widely used in medicine, pharmaceuticals, biological research, chemical industries, and food processing. Materials processed by freeze-drying can be stored for long periods and can be rehydrated with water while retaining their original properties.

Product Features

1. Small samples can be pre-frozen directly inside the cold trap, making the unit suitable for laboratory use and meeting most routine laboratory freeze-drying requirements. Suitable for freeze-drying liquids, pastes, solids, and other materials.
2. Typically used for laboratory and small-scale production.
3. Features a smaller processing capacity.
4. Compact design, suitable for small laboratories.
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6. Provides precise temperature and pressure control, suitable for research and development applications.

TECHNICAL ADVANTAGE

1. Cold Trap Temperatures: -60°C / -85°C / -110°C
2. Uses a deep-low-temperature cold trap to capture volatile organic solvents and prevent corrosion of the freeze dryer. Effective for freeze-drying products containing high concentrations of organic solvents and capable of handling organic solvent solutions with concentrations below 95%
3. Through extensive testing and optimization, the refrigeration technology team achieved a cold-trap temperature as low as -110°C for laboratory freeze dryers. The system can operate continuously for up to 7 days to meet the freeze-drying requirements of different materials..

FEATURES

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KEY FEATURE

- Rapid Cold Trap Defrost
- Uniform Ice Trapping in the Cold Trap
- Comprehensive Compressor and Vacuum
- Pump Short-Circuit & Overload Protection
- Operating Status Warnings: High Ambient Temperature, Vacuum Pump Performance, Sensor Faults, Component Operating Time, and Other Alerts
- Real-Time Recording and Display of Freeze-Drying Curves with Data Export
- Modular Controller with Low Power Consumption, Fast Response, and High Storage Efficiency
- Adjustable Vacuum Pump Start-Up Temperature
- Pre-Freezing of Small Sample Quantities in the Cold Trap
- Well-Sealed Drying Chamber
- Top-Brand Compressor and Vacuum Pump
- Complies with GLP Requirements
- 7-Inch High-Resolution LCD Color Touchscreen



Suitable for Bulk Materials



Suitable for Vials



Standard Manifold Type – Suitable for Bulk and External Vial Materials; Multiple Vials Can Be Connected Simultaneously.



Top-Press Manifold Type Suitable for Vial Materials with Top-Press Sealing and External Vial Connections.



Ampoule Tray Type Suitable for Ampoule Tray Materials



Freeze-Drying Bottle Tray Type – Suitable for Vial/Bottle Materials; Can Accommodate 8, 10, or 12 Rows of Freeze-Drying Bottles.



Specification

		DSFD—10X		DSFT-12X		DSFT-18X	
Specification	Unit	standard	Top press	Standard	Top press	Standard	Top press
Shelf Area	m²	0.12	0.08	0.12	0.08	0.18/0.27	0.09
Cold Trap temperature	°C	<-60(empty),<-85(empty), <-110(empty)					
Vacuum degree	Pa	< 1(empty)					
Ice Capacity	Kg/24h	3-4		3-4		6	
Material tray	mm	Ø200	Ø180	Ø200	Ø180	Ø240/Ø240	Ø200
Layer of tray		4	3	4	3	4/6	3
Tray Spacing	mm	70		70		70	
Power(-60)	w	970		970		1400	
Weight(-60)	kg	41		62		105	
Dimension of overall (-60)	mm	615*450*370		580*500*720		630*580*970	
Dimension of overall (-85)	mm	850*680*405		770*550*720		810*580*950	
Drying Chamber	mm	Ø260*430	Ø260*490	Ø260*430	Ø260*490	Ø300*445	Ø300*540
Dimension of Cold trap	mm	Ø215*140		Ø215*140		Ø270*400	
Capacity(Vail)	Ø	-	12mm:492 16mm:297 22mm:147	-	12mm:492 16mm:297 22mm:147	-	12mm:615 16mm:345 22mm:183
Defrosting	-	Electric					
Power	-	Half 3 phase, 220V					