

Freeze Dryer



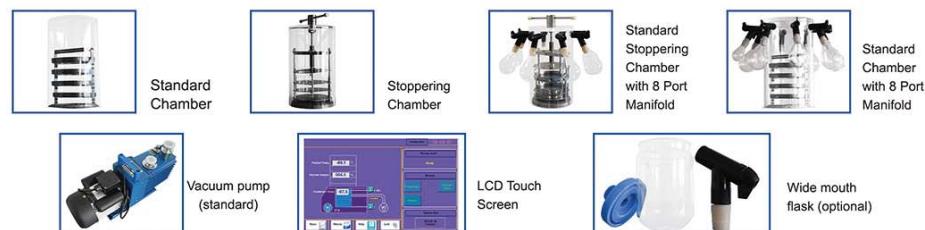
Introduction

Vacuum freeze-drying technology is also known as sublimation drying. The principle is to freeze a sample containing water in advance, and then sublimate its moisture under vacuum. The original biological, chemical and physical properties of the freeze-dried samples remain basically the same, and they are easy to be stored for a long time. After adding water, the samples can be restored to the state before freeze-drying, and their original biochemical characteristics can be maintained. Therefore, freeze-drying technology is widely used in medicine, food, chemical, biological products and other fields.

Features

- * Compressor, energy saving and high efficiency, low noise, long life.
- * Vacuum pump, small volume, pumping speed, low noise, can achieve higher vacuum.
- * Integrated design, compact structure, easy to use.
- * Environmentally friendly refrigerant, ODP=0.
- * With defrosting function, safe and reliable.
- * The cold trap and operating table are made of stainless steel, corrosion resistant and easy to clean.
- * The transparent cover of the drying chamber is made of aviation acrylic material, with high strength and no bonding.
- * Large cold trap opening size, with pre-freezing function, no need for low temperature refrigerator.
- * Professional gas diversion technology, high freeze-drying efficiency, and uniform ice capture.

Accessories



Technical Parameters

Model	BK-FD10S	BK-FD10P	BK-FD10T	BK-FD10PT
Type	Standard chamber	Standard chamber with 8 port manifold	Stoppering chamber	Stoppering chamber with 8 port manifold
Freeze Drying Area	0.12m²		0.08m²	
Tray	4 pcs		3 pcs	
Height Between Trays	50mm		/	
Cold Trap Temperature	≤-60℃(No load)(-80℃ optional)			
Cold Trap Capacity	6L			
Cold Trap Size (Diameter*H)	Φ219*140mm			
Vacuum Degree	≤5 Pa			
Water Capture Capacity	3-4L/24h			
Tray Size (D*H)	Φ200*20mm			
Freeze Drying Time	36h			
Loading Capacity/Shelf (Liquid)	1.2L		0.9L	
Total Loading Capacity (Liquid)	2.4L		1.6L	
Drying Chamber Size (Diameter*H)	Φ260*420mm		Φ260*465mm	
Total Qty. Of Vial Φ22	/	/	147	147
Total Qty. Of Vial Φ16	/	/	297	297
Total Qty. Of Vial Φ12	/	/	492	492
Refrigerant	-60℃: R600a, R23 -80℃: R404a、R23			
Cooling System	Standard: Air cooling Optional: Water cooling			
Power Supply	Standard: 220V 50Hz Optional: 220V 60Hz			
Power Consumption	1300W			
Standard Accessory	Vacuum pump 2L/S, Material tray*4(Material tray*3 for T/PT), Drying rack*1, Cover*1, Acrylic bucket*1(all models)			
	Conical-mouth flask100ml*2pcs, 200ml*2pcs, 250ml*2pcs, 500ml*2pcs, Switch valve*8 pcs (only for model BK-FD10P/PT)			
Optional Function & Accessory	Equipment moving frame, vacuum pump of other specifications, vacuum regulation, oil mist filter, automatic air intake, automatic water discharge and other customization(for all models) 600ml/1200ml Wide-mouth flask (for BK-FD10P/PT)			
External Size (W*D*H), mm		640*610*550		
Package Size(W*D*H), mm	Main Body	735*720*760mm		
	Accessory	720*605*560mm		
Gross Weight(kg)	Main Body	-60℃: 80kg -80℃: 98kg		
	Accessory	45kg	49kg	54kg

Vertical Freeze Dryer



BK-FD12S



BK-FD12P



BK-FD12T



BK-FD12PT

Technical Parameters

Model	BK-FD12S	BK-FD12P	BK-FD12T	BK-FD12PT
Type	Standard chamber	Standard chamber with 8 port manifold	Stoppering chamber	Stoppering chamber with 8 port manifold
Freeze Drying Area	0.12m²		0.08m²	
Tray	4 pcs		3 pcs	
Height Between Trays	50mm		/	
Cold Trap Temperature	≤-60℃(No load)(-80℃ optional)			
Cold Trap Capacity	9L			
Cold Trap Size (Diameter*H)	Φ219*240mm			
Vacuum Degree	≤5 Pa			
Water Capture Capacity	3-4L/24h			
Tray Size (D*H)	Φ200*20mm			
Freeze Drying Time	36h			
Loading Capacity/Shelf (Liquid)	1.2L		0.8L	
Total Loading Capacity (Liquid)	2.4L		1.6L	
Drying Chamber Size (Diameter*H)	Φ260*420mm	Φ260*465mm		
Total Qty. Of Vial Φ22	/	/	147	147
Total Qty. Of Vial Φ16	/	/	297	297
Total Qty. Of Vial Φ12	/	/	492	492
Refrigerant	-60℃: R600a, R23 -80℃: R404a、R23			
Cooling System	Standard: Air cooling Optional: Water cooling			
Power Supply	Standard: 220V 50Hz Optional: 220V 60Hz			
Power Consumption	1400W			
Standard Accessory	Vacuum pump 2L/S, Material tray*4(Material tray*3 for T/PT), Drying rack*1, Cover*1, Acrylic bucket*1(all models)			
	Conical-mouth flask 100ml*2pcs, 200ml*2pcs, 250ml*2pcs, 500ml*2pcs, Switch valve*8 pcs (only for model BK-FD12P/PT)			
Optional Function & Accessory	Equipment moving frame, vacuum pump of other specifications, vacuum regulation, oil mist filter, automatic air intake, automatic water discharge and other customization(for all models) 600ml/1200ml Wide-mouth flask (for BK-FD12P/PT)			
External Size (W*D*H), mm		520*625*865mm		
Package Size	Main Body	665*765*1140mm		
(W*D*H),mm	Accessory	720*605*560mm		
Gross Weight(kg)	-60℃: 95kg			
	-80℃: 114kg			
	45kg	49kg	54kg	56kg



BK-FD18S



BK-FD18P



BK-FD18T



BK-FD18PT

Technical Parameters

Model	BK-FD18S		BK-FD18P	BK-FD18T	BK-FD18PT
Type	Standard chamber		Standard chamber with 8 port manifold	Stoppering chamber	Stoppering chamber with 8 port manifold
Freeze Drying Area	0.18m²			0.09m²	
Tray	4 pcs			3 pcs	
Height Between Trays	80mm			/	
Cold Trap Temperature	≤-60℃(No load)(-80℃ -110℃Optional)				
Cold Trap Capacity	28L				
Cold Trap Size (Diameter*H)	Φ300*410mm				
Vacuum Degree	≤5 Pa				
Water Capture Capacity	6L/24h				
Tray Size (D*H)	Φ240*20mm				
Freeze Drying Time	36h				
Loading Capacity/Shelf (Liquid)	1.8L			0.9L	
Total Loading Capacity (Liquid)	3.6L			1.8L	
Drying Chamber Size (Diameter*H)	Φ300*445mm		Φ300*465mm		
Total Qty. Of Vial Φ22	/		/	183	183
Total Qty. Of Vial Φ16	/		/	345	345
Total Qty. Of Vial Φ12	/		/	615	615
Refrigerant	-60℃: R600a, R23 -80℃: R404a、R23				
Cooling System	Standard: Air cooling Optional: Water cooling				
Power Supply	Standard: 220V 50Hz Optional: 220V 60Hz				
Power Consumption	1800W				
Standard Accessory	Vacuum pump 4L/S, Material tray*4(Material tray*3 for T/PT), Drying rack*1, Cover*1, Acrylic bucket*1(all models) Conical-mouth flask 100ml*2pcs, 200ml*2pcs, 250ml*2pcs, 500ml*2pcs, Switch valve*8 pcs (only for model BK-FD18P/PT)				
Optional Function & Accessory	Equipment moving frame, vacuum pump of other specifications, vacuum regulation, oil mist filter, automatic air intake, automatic water discharge and other customization(for all models) 600ml/1200ml Wide-mouth flask (for BK-FD18P/PT)				
External Size (W*D*H), mm		545*686*938			
Package Size	Main Body	835*680*1230mm			
(W*D*H),mm	Accessory	725*665*705mm			
Gross Weight(kg)	Main Body	-60℃: 118kg -80℃: 136kg			
	Accessory	52kg	54kg	60kg	62kg