

## 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	0.12m <sup>2</sup>		0.08m <sup>2</sup>	
Tray	4 pcs		3 pcs	
Height Between Trays	50mm		/	
Cold Trap Temperature	≤-60°C (No load) (-80°C 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		Φ180*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°C: R600a, R23 -80°C: 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 (W*D*H), mm	Main Body	665*765*1140mm		
	Accessory	720*605*560mm		
Gross Weight(kg)	-60°C: 95kg			
	-80°C: 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	0.18m <sup>2</sup>		0.09m <sup>2</sup>	
Tray	4 pcs		3 pcs	
Height Between Trays	80mm		/	
Cold Trap Temperature	≤-60°C (No load) (-80°C -110°C 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		Φ200*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°C: R600a, R23 -80°C: 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 (W*D*H), mm	Main Body	835*680*1230mm		
	Accessory	725*665*705mm		
Gross Weight(kg)	-60°C: 118kg			
	-80°C: 136kg			
	52kg	54kg	60kg	62kg