

Pilot Freeze Dryer



BK-FD20S



BK-FD20T



BK-FD30S



BK-FD30T

Technical Parameters

Model	BK-FD20S(Standard)	BK-FD20T(Stoppering)	BK-FD30S(Standard)	BK-FD30T(Stoppering)	
Freeze Drying Area	0.3m ²	0.2m ²	0.4m ²	0.3m ²	
Shelf Temperature	-50°C~+70°C(no-loading)				
Cold Trap Temperature	<-80°C(no-loading)				
Vacuum Degree	≤1Pa(no-loading)				
Water Capture Capacity	≥6		≥8		
Cold Trap Volume	14L		26L		
Cold Trap Size (Diameter*H)	Φ200*460mm		Φ320*520mm		
Drying Chamber Size (W*D*H)	330*325*470mm		340*500*420mm	480*380*540mm	
Shelf & Tray Size(W*D*H)	Shelf: 400*270*18mm		Shelf: 300*340*18mm		
	Tray: 395*265*25mm		Tray: 295*335*25mm		
Qty. Of Shelf & Tray	Shelf: 3+1, Tray: 3	Shelf: 2+1, Tray: 2	Shelf: 4+1, Tray: 4	Shelf: 3+1, Tray: 3	
Sample Loading Capacity (Liquid)	3L	2L	4L	3L	
Height Between Trays	70mm	100mm	50mm	70mm	
Tray Temperature Difference	±1°C				
Refrigerant	R404A + R23				
Condenser Cooling Mode	Air cooling				
Defrost Mode	Electric defrosting		Natural defrosting (option electric defrosting)	Electric defrosting	
	/		automatic	automatic	
Total Qty. Of Vial	Φ22mm	440	654	1200	
	Φ16mm	868	1200	2187	
	Φ12mm	1554	2187	2187	
Vacuum Pump	4L/S(14.4m ³ /h)		6L/S(22m ³ /h)		
Electric Defrosting Consumption	800W	800W	1000W	1000W	
Silicone Oil Heating Rods Consumption	800W	800W	1000W	1000W	
Hydraulic Pressure Station Consumption	/	500W	/	1000W	
Total Consumption	3KW	4KW	4.5KW	5.5KW	
Power Supply	AC220V, 50Hz/60Hz (single phase)				
Main Body Weight	300kg		400kg		
External Size(W*D*H) mm	1033*781*1580mm	1033*781*1580mm	928*825*1366mm	1272*853*1679mm	
Package Size(W*D*H)mm	Main Body	1150*900*1780mm /400kg	1155*900*1905mm /400kg	1050*945*1570mm /450kg	1392*995*1880mm/651kg
	Vacuum Pump	950*420*500mm (37kg)		790*340*460mm (57kg)	790*300*470mm (52kg)

Optional: Import vacuum pump, Vacuum pump anti-return valve, Eutectic point tester, Oil mist filtration system, Vacuum adjustment device
Standard: USB port



BK-FD50S



BK-FD50T



BK-FD100S



BK-FD100T

Technical Parameters

Model	BK-FD50S(Standard)	BK-FD50T(Stoppering)	BK-FD100S(Standard)	BK-FD100T(Stoppering)
Freeze Drying Area	0.7m ²	0.5m ²	1.03m ²	1.15m ²
Shelf Temperature	-50°C~+70°C(no-loading)			
Cold Trap Temperature	<-80°C(no-loading)			
Vacuum Degree	≤1 Pa(no-loading)			
Water Capture Capacity	≥10kg		≥15kg	
Cold Trap Volume	/		70L	
Cold Trap Size (Diameter*H)	/		Φ400*560mm	
Drying Chamber Size (W*D*H)	410*510*590 mm	620*510*580mm	410*580*520mm	700*590*760mm
Shelf & Tray Size(W*D*H)	Shelf: 480*360*18mm	Shelf: 410*410*18mm	Shelf: 480*360*18mm	Shelf: 480*600*18mm
	Tray: 475*355*25mm	Tray: 405*405*25mm	Tray: 475*355*25mm	Tray: 475*595*25mm
Qty. Of Shelf & Tray	Shelf: 4+1, Tray: 4	Shelf: 3+1, Tray: 3	Shelf: 6+1, Tray: 6	Shelf: 4+1, Tray: 4
Sample Loading Capacity (Liquid)	7L	5L	10L	11L
Height Between Trays	50mm/70mm(Optional)	100mm	70mm	100mm
Tray Temperature Difference	±1°C			
Refrigerant	R404A + R23			
Condenser Cooling Mode	Air cooling			
Defrost Mode	Natural defrosting (option electric defrosting)		Electric defrosting	Electric defrosting
	/		automatic	automatic
Total Qty. Of Vial	/		1050	2460
	/		2058	4788
	/		3075	8624
Vacuum Pump	8L/S(29m ³ /h)		15L/S(54m ³ /h)	
Electric Defrosting Consumption	/		1000W	1500W
Silicone Oil Heating Rods Consumption	1000W		1600W	1500W
Hydraulic Pressure Station Consumption	/		/	1500W
Total Consumption	5.5KW		6.5KW	7.5KW
Power Supply	AC380V, 50Hz/60Hz (three phase) BK-FD50S:AC220V, 50Hz/60Hz (single phase)			
Main Body Weight	600kg	800kg	700kg	1000kg
External Size(W*D*H) mm	1008*823*1420mm	1405*911*1983mm	1190*876*1727mm	1823*1144*2014mm
Package Size(W*D*H)mm	1130*950*1620mm /700kg	1530*1030*2190mm /900kg	1310*1000*1930mm /850kg	1940*1270*2220mm /1200kg
	790*330*445mm (73kg)	830*370*800mm (88kg)	785*455*300mm (95kg)	800*500*500mm (70kg)

Optional: Import vacuum pump, Vacuum pump anti-return valve, Eutectic point tester, Oil mist filtration system, Vacuum adjustment device
Standard: USB port