

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 Tray: 395*265*25mm		Shelf: 300*340*18mm Tray: 295*335*25mm	
Qty. Of Shelf & Tray	Shelf: 3+1, Tray: 3		Shelf: 4+1, Tray: 4	
Sample Loading Capacity (Liquid)	3L		4L	
Height Between Trays	70mm		50mm	
Tray Temperature Difference	±1°C			
Refrigerant	R404A + R23			
Condenser Cooling Mode	Air cooling			
Defrost Mode	Electric defrosting		Natural defrosting (option electric defrosting)	Electric defrosting
Stoppering Mode	/		automatic	automatic
Total Qty. Of Vial	Φ22mm	/	440	654
	Φ16mm	/	868	1200
	Φ12mm	/	1554	2187
Vacuum Pump	4L/S(14.4m ³ /h)		6L/S(22m ³ /h)	
Electric Defrosting Consumption	800W	800W	/	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		928*825*1366mm 1272*853*1679mm	
Package Size(W*D*H)mm	Main Body	1150*900*1780mm /400kg	1155*900*1905 mm /400kg	1050*945*1570mm /450kg 1392*995*1880mm/651kg
Gross Weight	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 Tray: 475*355*25mm		Shelf: 410*410*18mm Tray: 405*405*25mm	
Qty. Of Shelf & Tray	Shelf: 4+1, Tray: 4		Shelf: 3+1, Tray: 3	
Sample Loading Capacity (Liquid)	7L		5L	
Height Between Trays	50mm/70mm(Optional)		100mm	
Tray Temperature Difference	±1°C		70mm	
Refrigerant	R404A + R23			
Condenser Cooling Mode	Air cooling			
Defrost Mode	Natural defrosting (option electric defrosting)		Electric defrosting	Electric defrosting
Stoppering Mode	/		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		1000W	1600W
Hydraulic Pressure Station Consumption	/		1000W	/
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
External Size(W*D*H) mm	1008*823*1420mm		1405*911*1983mm	1190*876*1727mm
Package Size(W*D*H)mm	Main Body	1130*950*1620mm /700kg	1530*1030*2190mm /900kg	1310*1000*1930mm /850kg
Gross Weight	Vacuum Pump	790*330*445mm (73kg)	830*370*600mm (88kg)	785*455*300mm (95kg)
				1823*1144*2014mm 1940*1270*2220mm /1200kg 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