

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℃~+70℃(no-loading)			
Cold Trap Temperature	<-80℃(no-loading)			
Vacuum Degree	≤1Pa(no-loading)			
Water Capture Capacity	≥6		≥8	
Cold Trap Volume	14L	/	/	26L
Cold Trap Size (Diameter*H)	Φ200*1460mm	/	/	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: 4+1, Tray: 4	
Sample Loading Capacity (Liquid)	3L	2L	4L	3L
Height Between Trays	70mm	100mm	50mm	70mm
Tray Temperature Difference	±1℃			
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
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℃~+70℃(no-loading)			
Cold Trap Temperature	<-80℃(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: 480*360*18mm	
	Tray: 475*355*25mm		Tray: 475*355*25mm	
Qty. Of Shelf & Tray	Shelf: 4+1, Tray: 4		Shelf: 6+1, Tray: 6	
Sample Loading Capacity (Liquid)	7L	5L	10L	11L
Height Between Trays	50mm/70mm(Optional)	100mm	70mm	100mm
Tray Temperature Difference	±1℃			
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	Φ22mm	/	1050	2460
	Φ16mm	/	2058	4788
	Φ12mm	/	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	/
Hydraulic Pressure Station Consumption	/	1000W	/	1500W
Total Consumption	5.5KW	6.5KW	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		1190*876*1727mm	1823*1144*2014mm
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)

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