

## Pilot Freeze Dryer



BK-FD20S



BK-FD20T



BK-FD30S



BK-FD30T



BK-FD50S



BK-FD50T



BK-FD100S



BK-FD100T

## Technical Parameters

Model	BK-FD20S(Standard)	BK-FD20T(Stoppering)	BK-FD30S(Standard)	BK-FD30T(Stoppering)
Freeze Drying Area	0.3m <sup>2</sup>	0.2m <sup>2</sup>	0.4m <sup>2</sup>	0.3m <sup>2</sup>
Shelf Temperature	-50℃--+70℃(no-loading)			
Cold Trap Temperature	<-75℃(no-loading)			
Vacuum Degree	≤5 Pa(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: 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	70mm	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	/	manual	/	automatic
Total Qty. Of Vial	Φ22mm Φ16mm Φ12mm	/ 440 868 1554	/ 440 868 1554	854 1200 2187
Vacuum Pump	4L/S(14.4m <sup>3</sup> /h)		6L/S(22m <sup>3</sup> /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	3KW	4.5KW	5.5KW
Power Supply	AC220V, 50Hz/60Hz (single phase)			
Main Body Weight	300kg		400kg	
External Size(W*D*H) mm	840*750*1580mm	840*750*1580mm	920*780*1350mm	1280*850*1420mm
Package Size(W*D*H)mm	980*860*1720mm/400kg	980*860*1720mm/470kg	1100*980*1570mm/450kg	1440*1070*1720mm/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

## Technical Parameters

Model	BK-FD50S(Standard)	BK-FD50T(Stoppering)	BK-FD100S(Standard)	BK-FD100T(Stoppering)
Freeze Drying Area	0.7m <sup>2</sup>	0.5m <sup>2</sup>	1.04m <sup>2</sup>	1.15m <sup>2</sup>
Shelf Temperature	-50℃--+70℃(no-loading)			
Cold Trap Temperature	<-75℃(no-loading)			
Vacuum Degree	≤5 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	Shelf: 480*360*18mm Tray: 475*355*25mm	Shelf: 480*600*18mm 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	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	Electric defrosting
Stoppering Mode	/	automatic	/	automatic
Total Qty. Of Vial	/	1050 2058	/	2460 4788
Vacuum Pump	8L/S(29m <sup>3</sup> /h)	3075	15L/S(54m <sup>3</sup> /h)	8624
Electric Defrosting Consumption	/	1000W	1500W	
Silicone Oil Heating Rods Consumption	1000W	1000W	1600W	1500W
Hydraulic Pressure Station Consumption	5.5KW	6.5KW	/	7.5KW
Total Consumption	AC380V, 50Hz/60Hz (three phase)	BK-FD50S:AC220V, 50Hz/60Hz (single phase)		
Power Supply	600kg	800kg	700kg	1000kg
Main Body Weight	1000*850*1420mm	1490*850*1620mm	1170*830*1665mm	1640*1100*1630mm
External Size(W*D*H) mm	1130*980*1620mm/555kg	1600*1040*2040mm/800kg	1320*990*1855mm/900kg	1800*1250*2100mm/1200kg
Package Size(W*D*H)mm	790*330*445mm (73kg)	830*370*600mm (88kg)	785*455*300mm (95kg)	800*500*500mm (70kg)
Gross Weight				

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