

BFD-5SLIM

PILOT FREEZE DRYER



Pilot Freeze Dryer

Laboratory Research & Development Freeze Dryer



Key Features:

- Compact size
- 2-chamber system
- Stainless steel shelves, trays, condenser
- Acrylic door, observable freeze drying process
- Heat transfer fluid based shelf system
- Optional pneumatic, top-bottom stoppering
- Condenser isolate by butterfly valve
- External installed vacuum pump
- Pirani vacuum gauge
- PLC based controller
- Lyo-pilot control interface

Technical Parameters:

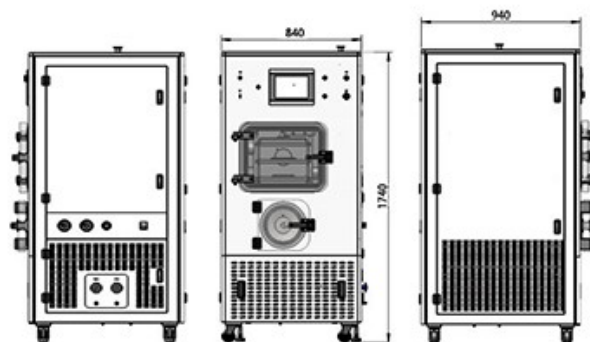
Model	BFD-5Slim
Shelf Area	0.1 ~ 0.32m2
Shelf Number	1 ~ 3
Shelf Clearance	182 ~ 50mm
Shelf Dimension	W/275*D/405*T/16mm
Condenser Volume	11L
Condenser Performance	>5Kgs/24Hrs
Condenser Capacity	>8Kgs
Power Install	5.5Kwh
Machine Size	W/820*D/930*H/1800mm
Approx. Weight	500Kgs
Voltage	220V/50Hz/1P

Performance Parameters:

Lowest Shelf Temperature	-55C
Shelf Temperature Control Range	-50C ~ +70C
Shelf Temperature Control Accuracy	<+/-1C
Shelf Temperature Uniformity	<+/-1C
Shelf Cooling Rate +20C to -40C	<60Min
Shelf Heating Rate	>1C/Min
Lowest Condenser Temperature	-85C
Condenser Cooling Rate +20C to -40C	<15Min
Condenser Defrost Time	<60Min
System Final Vacuum	<1Pa
Vacuumize To 133Pa	<60Min
Vacuum Control Accuracy	+/-5Pa
Leak Rate	<5Pa L/Sec
Compressor Configuration	Cascade, Air Cooling
Refrigerant	R404a, R508b

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Shelf Configuration:

Tray Size: W/270 * D/400 * H/20mm				
No. of Shelves	1	2	3	
Shelf Area	0.1m ²	0.21m ²	0.32m ²	
Shelf Clearance	182mm	83mm	50mm	

Vials Load:

Vials Size \ Shelf No.	1	2	3
2R Dia.16	419	838	
6R Dia.22	220	440	
10R Dia.24	180	360	
20R Dia.30	112	224	
30R Dia 30	112		
50H Dia 43	55		
100H Dia 52	32		

Bulk Load:

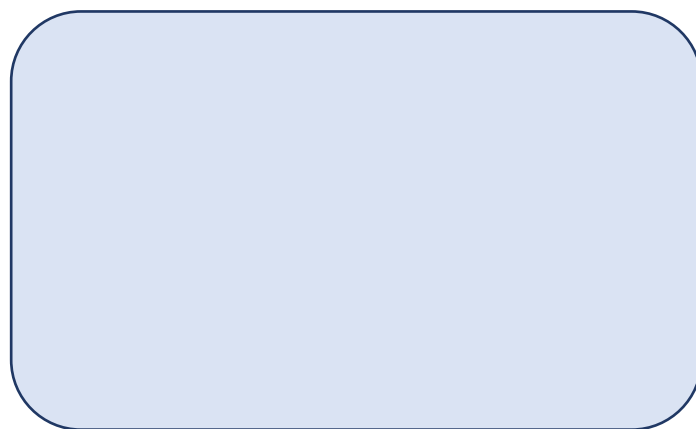
Thick In Trays \ Shelf No.	1	2	3
5mm	0.54L	1.08L	1.62L
10mm	1.08L	2.16L	3.24L
15mm	1.62L	3.24L	4.86L
20mm	2.16L	4.32L	

Remarks:

- 1) Vials load: calculate by using loading frame.
- 2) Bulk load: example of fluid products.

Optional Features:

- Vials closing under vacuum
- Solvent package
- Scroll vacuum pump
- Capacitive vacuum gauge
- Eutectic detector
- PC control
- S/S chamber door
- S/S316L material



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