

# PRODUCT CATALOG



## BENCHTOP FREEZE DRYER

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Simple and economical means of freeze drying for stabilization of living material and preservation of fragile substances. Equipped with vacuum freeze drying technology and customizable tray spacing, this is the right product for your small scale freeze drying requirements.

### 100 SERIES FREEZE DRYER



- Condenser, control panel, shelves and trays are made of stainless steel
- Low noise compressor with a long shelf life
- The drying chamber is equipped with organic glass for safety and visibility
- Condenser features pre-freezing function
- Features vacuum freeze drying technology
- Drying curves are displayed on LCD screen
- Tray spacing can be customized
- Eco-friendly CFC free refrigeration system
- Features nitrogen valve and eutectic test device (optional)

## SPECIFICATIONS

Model	BFBT-101-A	BFBT-101-B	BFBT-102-A	BFBT-102-B
Type	Standard		Top Press	
Capacity	1.2 L			
Condenser Temperature	< -50°C	-80°C	< -50°C	-80°C
Water Holding Capacity	3-4 /24h			
Freeze Drying Surface Area	0.12 m <sup>2</sup>		0.08 m <sup>2</sup>	
Pre Freeze Shelf Dimension	φ 200 mm		φ 180 mm	
Vacuum Degree	< 10 Pa			
Pump Flow Rate	2 L/sec		3 L/sec	
Overall Dimension (mm)	565x420x(360+430)	830 x680x(400+430)	565x420x(360+430)	831 x680x(400+430)
Shelves	4			
Weight	100 kg		105 kg	
Power	970 W	970	970 W	970
Power Supply	110-220V, 50/60Hz			
Vial φ 22	-	-	-	-
Vial φ 16	-	-	-	-
Vial φ 12	-	-	-	-
No of Sealed Valves	-	-	-	-

Model	BFBT-103-A	BFBT-103-B	BFBT-104-A	BFBT-104-B
Type	Manifold		Manifold Top Press	
Capacity	1.2 L			
Condenser Temperature	< -50°C	-80°C	< -50°C	-80°C
Water Holding Capacity	3-4 /24h			
Freeze Drying Surface Area	0.12 m <sup>2</sup>		0.08 m <sup>2</sup>	
Pre Freeze Shelf Dimension	φ 200 mm		φ 180 mm	
Vacuum Degree	< 10 Pa			
Pump Flow Rate	2 L/sec		3 L/sec	
Overall Dimension (mm)	565x420x(360+430)	831 x680x(400+430)	565x420x(360+430)	831 x680x(400+430)
Shelves	4			
Weight	105 kg			
Power	970 W	970	970 W	970
Power Supply	110-220V, 50/60Hz			
Vial φ 22	260		165	
Vial φ 16	480		285	
Vial φ 12	920		560	
No of Sealed Valves	-	-	-	-

Model	BFBT-105-A	BFBT-105-B
Type	T-type	
Capacity	-	-
Condenser Temperature	< -50°C	-80°C
Water Holding Capacity	3-4 /24h	
Freeze Drying Surface Area	-	-
Pre Freeze Shelf Dimension	-	-
Vacuum Degree	< 10 Pa	
Pump Flow Rate	2 L/sec	
Overall Dimension (mm)	565x420x(360+340)	831 x680x(400+430)
Shelves	-	-
Weight	95 kg	
Power	971 W	971
Power Supply	110-220V, 50/60Hz	
Vial φ 22	-	-
Vial φ 16	-	-
Vial φ 12	-	-
No of Sealed Valves	24 pieces for 24 ampoules	

## ACCESSORIES

For Models: BFBT-103-A, BFBT-103-B

Accessory Code	Name
BX-103739	Clamp
BX-103740	Vacuum pump
BX-103741	Acrylic drum
BX-103742	Drying shelf
BX-103743	Pre-freezing shelf
BX-103744	Sealing ring
BX-103745	Flask (wide-neck flask) - 1200ml

Accessory Code	Name
BX-103746	Flask (wide-neck flask) - 600ml
BX-103747	Flask (round bottom flask) - 1000ml
BX-103748	Flask (round bottom flask) - 500ml
BX-103749	Flask (round bottom flask) - 250ml
BX-103750	Flask (round bottom flask) - 100ml
BX-102701	Trays : dia. 180mm/ dia.200mm

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description
BX-102695	Nitrogen inflation valve	Nitrogen inflation valve
BX-102696	Exhaust filter/ Oil mist filter for pump	Exhaust filter/ Oil mist filter for pump
BX-102697	Air inlet filter for pump	Air inlet filter for pump
BX-102698	Anti oil return valve for pump	Anti oil return valve for pump
BX-102699	Electricity heating defrosting	Electricity heating defrosting
BX-102700	Electric heating shelf	Electric heating shelf
BX-102702	RS232 and software	Check and keep freeze drying data on computer, control freeze dryer through PC
BX-102703	-80°C Condenser	Minimum condenser temperature as -80°C

For Models: BFBT-101-A, BFBT-101-B, BFBT-102-A, BFBT-102-B, BFBT-104-A, BFBT-104-B, BFBT-105-A, BFBT-105-B

Accessory Code	Name	Description
BX-102701	Trays	Trays : dia. 180mm/ dia.200mm



BFBT-101-A



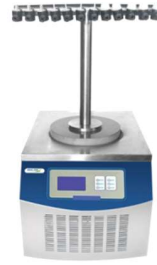
BFBT-102-A



BFBT-103-A



BFBT-104-A



BFBT-105-A

BENCH TOP FREEZE DRYER



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