



## FREEZE DRYER BFBT-103-A

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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.

Used in Laboratory, Research, Proteins, Organic Tissues, Waste Products, Plant Material, Polymers, Pharmaceuticals, Nutraceuticals, Plant material.

Also known as Benchtop Freeze Dryer, Tabletop Lyophilizer, Laboratory Benchtop Freeze Dryer, Laboratory Tabletop Lyophilizer, Benchtop Lyophilizer, Laboratory Benchtop Lyophilizer, T-Manifold Freeze Dryer.

## BFBT-103-A 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-103-A
Type	Manifold
Capacity	1.2 L
Condenser Temperature	< -50°C
Water Holding Capacity	3-4 /24h
Freeze Drying Surface Area	0.12 m <sup>2</sup>
Pre Freeze Shelf Dimension	φ 200 mm
Vacuum Degree	< 10 Pa
Pump Flow Rate	2 L/sec
Vial φ 22	260
Vial φ 16	480
Vial φ 12	920
Overall Dimension (mm)	565x420x(360+430)
Shelves	4
Weight	105 kg
Power	970 W
Power Supply	110-220V, 50/60Hz

## ACCESSORIES

Accessory Code	Name	Description	Trays
1900606012	Trays	Trays : dia. 180mm/ dia.200mm	Diameter 180mm/200mm

1900610006	Clamp		
1900610007	Vacuum pump		
1900610008	Acrylic drum		
1900610009	Drying shelf		
1900610010	Pre-freezing shelf		
1900610011	Sealing ring		
1900610012	Flask (wide-neck flask) - 1200ml		
1900610013	Flask (wide-neck flask) - 600ml		
1900610014	Flask (round bottom flask) - 1000ml		
1900610015	Flask (round bottom flask) - 500ml		
1900610016	Flask (round bottom flask) - 250ml		
1900610017	Flask (round bottom flask) - 100ml		

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Temperature
1900606006	Nitrogen inflation valve		
1900606007	Exhaust filter/ Oil mist filter for pump		
1900606008	Air inlet filter for pump		
1900606009	Anti oil return valve for pump		
1900606010	Electricity heating defrosting		
1900606011	Electric heating shelf		
1900606013	RS232 and software	Check and keep freeze drying data on computer; control freeze dryer through PC	
1900606014	-80°C Condenser	Minimum condenser temperature as -80°C	Min. condenser temperature as -80°C



**Biolab Scientific Ltd.**

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)