BioLAB

PRODUCT CATALOG



TOP-PRESS BENCHTOP FREEZE DRYER BKV-103

CE ISO9001 CERTIFIED

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BENCHTOP FREEZE DRYER BKV-103

BENCH-TOP MINI FREEZE DRYER



1. Control
Microprocessor control & New FD upgraded to 7" LCD touch display which can display drying curve, vacuum, condenser temp., run time, ambient temperature.
Controller built with data recorder and USB interface, data can be exporting to computer for analysis.
Equipped with an advanced control system featuring a modular controller for precise and reliable operation.
2. Condenser
Samples can be pre-freezing in condenser chamber, no need of deep freezer; smoothly chamber without coil pipe.
Material is SS304 stainless steel, SS316 is optional.
-60°C condenser is fit for water-based material.

SPECIFICATIONS

Model	BKV-103
Condenser Temperature	-60 °C(-110 °C Optional)
Ice Condenser Capacity	5 Liters
Dry chamber size (D x H)	Φ260 x 490 mm
Total shelf area	0.08 m²
Shelf size (mm)	Φ180 x 3 pcs
Shelf space height (mm)	70mm
Shelf number	3 pcs
Trays number	3 pcs
Vials load capacity (Φ12 mm)	(Φ12 mm) : 560 pcs(Φ16 mm) : 285 pcs(Φ22 mm) : 165 pcs
Sample load capacity	0.8 L
Flask	
Dry rack	Included
Cold trap rack	Included
Shelf heating program	Optional
Cold trap size	Φ215 x 140 mm (Depth x Height)
Ice removal capacity	3-4 kg/24 hours
Cooling type	Air-cooled
Defrost type	Electric heating defrost
Ultimate vacuum	1 Pa (no load)
Vacuum pump	Included
Pump rate	2 L/s
Installed power	970 W
Voltage	220 V / 50 Hz (110 V / 60 Hz optional)
Dimensions of host (L x W x H)	615 x 450 x 370 mm
Dimensions of vacuum pump	480 x 140 x 240 mm (2XZ-2)
Total weight	85 kg / 105 kg
Alt Name	Bench-Top Mini Freeze Dryer

FEATURES

1. Control

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2. Condenser

Samples can be pre-freezing in condenser chamber, no need of deep freezer; smoothly chamber without coil pipe.
Material is SS304 stainless steel, SS316 is optional.
-60°C condenser is fit for water-based material.
-85°C & -110°C condenser is available for capture low eutectic point material.
Independently temperature sensor for condenser.
Equipped with an electric heating defrost system.

3. Refrigeration

Used slight noise of DANFOSS(SECOP) compressor with CFC-FREE refrigerant (R404a, R134a) ensure long life time and energy saving.
For water-based samples, the -55°C condenser is the perfect choice with effective cost. For samples containing solvents or with low eutectic points, the -85°C dual cascade refrigeration condenser provides maximum performance(optional).
All materials in contact with the product are made of inert materials to meet GLP requirements.
All materials of condenser chamber, table-top, racks, trays and drain value are made of SS304 stainless steel to ensure corrosion-resistant and easy to clean, shelves height adjustable.

4. Module design

Flexible customize to meets wide requirements.
-85°C & -110°C condenser support
Various drying chamber available
Shelf heating & program setting
Vacuum regular valve
Condenser heating defrost function
Wide month jar flask support
Nitrogen valve

5. Spare parts

Famous brand spare parts accessories ensure long running time
Swiss DANFOSS Secop brand compressor
DANFOSS pressure control
Refco pressure gauge
PT-100 temperature sensor
Germany Leybold & Japan Ulvac vacuum pump is optional

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