BioLAB

PRODUCT CATALOG



# MANIFOLD FLOOR STANDING FREEZE DRYER
# BKV-203

CE ISO9001 CERTIFIED

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# FLOOR STANDING FREEZE DRYER BKV-203

FLOOR TYPE 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-203 |
|---|---|
| Condenser Temperature | -55 °C (-110 °C (Optional |
| Ice Condenser Capacity | 5 liters |
| Dry chamber size (D x H) | Φ260x465 |
| Total shelf area | 0.12m² |
| Shelf size (mm) | Φ200 |
| Shelf space height | 70mm |
| Shelf number | 4pcs |
| Trays number | 4pcs |
| Vials load capacity | (Φ12 mm) : 920 pcs(Φ16 mm) : 480 pcs(Φ22 mm) : 260 pcs |
| Sample load capacity | 1.2 L |
| Flask | 8 pcs |
| Dry rack | Included |
| Cold trap rack | Included |
| Shelf heating program | Optional |
| Cold trap size | Φ215 x 140 mm |
| Ice removal capacity | 4 kg/24 h |
| Cooling type | Air-cooled |
| Defrost type | Electric heating defrost |
| Ultimate vacuum | 1 Pa |
| Vacuum pump | Included |
| Pump rate | 2 L/s |
| Installed power | 970 W |
| Voltage | 220 V/50 Hz or 110 V/60 Hz (Optional) |
| Dimensions of host (L x W x H) | 580x500x720 mm |
| Dimensions of vacuum pump | 480x140x240 mm (2XZ-2) |
| Total weight | 125 kg |
| Alt Name | Floor Type 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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