BIOSPECTRIX

ADVANCED LABORATORY EVAPORATION SOLUTIONS

BioSpectrix

Rotary Evaporator

Precise • Reliable • Efficient

Advanced Evaporation Technology

MODEL

BSR-1005



Sturdy Structure
Stable and durable construction

Precise Control
Digital display for accurate speed and temperature

High Efficiency
Efficient evaporation with excellent recovery rate

Safe Operation
Overheat protection and circuit safety

Strong Compatibility
Compatible with various vacuum systems

Temperature Range Room Temp. to 180 °C

Speed Range 20 – 280 rpm

Evaporation Flask Capacity max 5L, min 3L,

Condenser High Efficiency Glass Condenser

Digital Control Precise & Easy Operation

High Efficiency
Fast & effective evaporation

Premium Quality
Durable & High Performance

User Friendly
Simple & convenient operation

Versatile Use
Ideal for Labs, Research & Industry

Reliable Results
Consistent & Accurate

BioSpectrix Rotary Evaporator BSR-1005

Fast, Efficient & Gentle Solvent Evaporation



INTRODUCTION

The evaporation flask rotates at a constant speed while the water bath maintains a controlled temperature, forming a uniform thin film on the inner wall for rapid and efficient evaporation.

Under vacuum conditions, the solvent evaporates more efficiently. The generated vapor passes through the glass condenser coil, where it is cooled and condensed into liquid and collected for recovery.

System Requirements

The system requires a suitable vacuum pump such as a circulating water, rotary vane, or diaphragm pump, along with a cooling and circulating system for efficient condensation and continuous operation.

BASIC CONFIGURATION:

- Premium Materials: High-borosilicate glass and PTFE ensure excellent chemical stability.
- Durable Construction: Aluminum-alloy support with a 304 stainless-steel heating bath.
- Reliable Sealing: PTFE + fluororubber sealing for stable vacuum operation.
- Vacuum Monitoring: Real-time vacuum indication via pressure gauge.
- Continuous Feeding: PTFE-sleeved valve enables feeding under vacuum.
- Efficient Condenser: Double-layer serpentine coil for enhanced condensation.
- Large LCD Display: Easy control of rotation, heating, and lifting.
- Low-Noise Motor: Brushless DC motor for smooth, quiet operation.
- Precision Temperature Control: PT100 sensor for accurate bath temperature.
- Electric Bath Lifting: Easy lifting with heat-insulation protection.
- Safety Protection: Dual-fuse, over-temperature, anti-dry, and power-failure protection.
- Easy Discharge: Independent glass + PTFE discharge system for convenient solvent recovery.
- Vacuum Switching: Smooth switching between rotary, collection, and discharge operations.

Technical parameters

Model	R-1005
Voltage/Frequency	220V 50Hz/110V 60Hz
Total Power	2100W
Rotary motor power	60W1/5
Lifting motor power	40W1/12.5
Heating power	2000W
Vacuum	0.095Mpa
Rotary flask volume	5LΦ230mm/Φ80 flange port
Collecting flask volume	3LΦ195mm/upper Φ50 flange port×Φ35 flange port×2 pcs×lower Φ50 flange port
Rotary speed	0-120rpm/min
Temperature control range	Room temperature-180°C
Temperature control accuracy	±1°C
Bath lifting stroke	140mm
Condenser dimension	Φ120×600H(mm) side Φ50 flange port×lower Φ50 flange port
Condensing area	0.5 ㎡
Gas cylinder	Left Φ35 flange port, side Φ50 flange port, rightΦ50 flange port
Material feeding valve	Φ35 flange port, glass+PTFE valve, material feeding valve(pagoda joint) with 12mm outer diameter
Releasing valve	Φ35 flange port×2, glass+PTFE valve, releasing valve(pagoda joint)with 12mm outer diameter
Material discharging valve	Φ50 flange port, side discharging valve (pagoda joint)with 20mm outer diameter, 260mm from the ground
Vacuum nozzle	Pagoda joint with 10mm outer diameter
In and out circulating nozzle of condenser coil	Pagoda joint with 16mm outer diameter
Bath dimension/weight	Φ295×175H(mm) about 12L
Overall dimension(W*D*H)	980×480×1260mm
Net weight	46KG
Packing dimension	800×450×1090mm wooden package 0.39m³
Packing weight	68KG

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