BioSpectrix®
INNOVATING SCIENCE

RELIABLE SOLUTIONS FOR MODERN LABORATORIES

ROTARY EVAPORATOR BSRE-2000E

Efficient Evaporation | Gentle Processing | Reliable Performance

Ideal for research, teaching and small-scale solvent recovery in chemical, pharmaceutical, food and natural products applications.



High Borosilicate Glass 3.3
Chemical resistant & reliable

Stable & Efficient
Brushless motor, smooth operation

Precise Control
Digital display for temperature & speed

Safe Operation
Multiple safety protections

Compact Design
Space saving, ideal for modern labs

1 L	1 L	0 – 300 RPM	RT – 99°C	120 mm
Rotary Flask (Eggplant Shape)	Receiving Flask (Spherical Shape)	Rotary Speed	Temperature Control Range	Motorized Lift Stroke

APPLICATIONS

- Pharmaceutical R&D
- Chemical Synthesis
- Natural Products
- Food & Beverage Analysis
- Essential Oil Extraction
- Academic & Research Labs

Working Principle

The evaporation flask rotates at a constant speed and the water bath is heated at a constant temperature. The material forms a large-area uniform thin film on the inner wall of the evaporation bottle for quick evaporation. Under vacuum conditions the evaporation efficiency can be improved. The solvent vapor passes through the glass condenser coil, is cooled to a liquid (with a cooling device) and recovered in a collection flask.



Key Features

High Borosilicate Glass 3.3
Excellent chemical resistance and thermal stability.



PTFE Sealing System
PTFE + fluororubber composite sealing for reliable performance.



Continuous Feeding
Piston-type feeding valve with PTFE extension tube for vacuum feeding.



Efficient Condenser
Upright double-layer serpentine coil with large condensing area.



Digital Display
Large LCD display shows temperature and speed simultaneously.



Brushless Motor
No spark, low noise, stable running with electronic stepless speed control.



Electric Lift
Motorized lift with manual switch and tilt button for easy operation.



Safety Protection
Rotating and heating with double fuses for safe operation.

Technical Specifications

Parameter	BSRE-2000E
Model	BSRE-2000E
Voltage / Frequency	220-240V / 50Hz (110V / 60Hz optional)
Total Power	1260W
Rotary Motor Power	40W
Lifting Motor Power	20W
Heating Power	1200W
Vacuum	0.098 MPa
Rotary Flask Volume	Eggplant shape 1L, 131 mm / 24# standard port
Collecting Flask Volume	Spherical shape 1L, 131 mm / 35# ball mill port
Rotary Speed	0 – 300 rpm/min
Temperature Control Range	Room temperature – 99°C
Temperature Control Accuracy	±1°C
Main Machine Lifting Stroke	120 mm
Condenser Dimension	85 × 430H (mm), lower 35# ball mill stopper
Condensing Area	0.17 m²
Material Feeding Valve	19# standard plug valve, feeding valve (pagoda joint) with 10 mm outer diameter
Vacuum Nozzle	Pagoda joint with 10 mm outer diameter
In & Out Circulating Nozzle of Condenser Coil	Pagoda joint with 12 mm outer diameter
Bath Dimension / Weight	235 × 145H (mm), about 6.2 L, 3.5 kg
Overall Dimension (W×D×H)	630 × 400 × (690 – 810) mm
Net Weight	18.5 kg
Packing Dimension	620 × 620 × 490 mm (wooden package, 0.19 m³)
Packing Weight	23 kg

System Configuration (Required Accessories)

This rotary evaporator needs to be equipped with a vacuum pump and a cooling / circulating device to form a complete system.



Vacuum Pump
(Circulating water / Rotary vane / Diaphragm type)



Cooling Circulator
(Recirculating chiller)

Complete Solution

