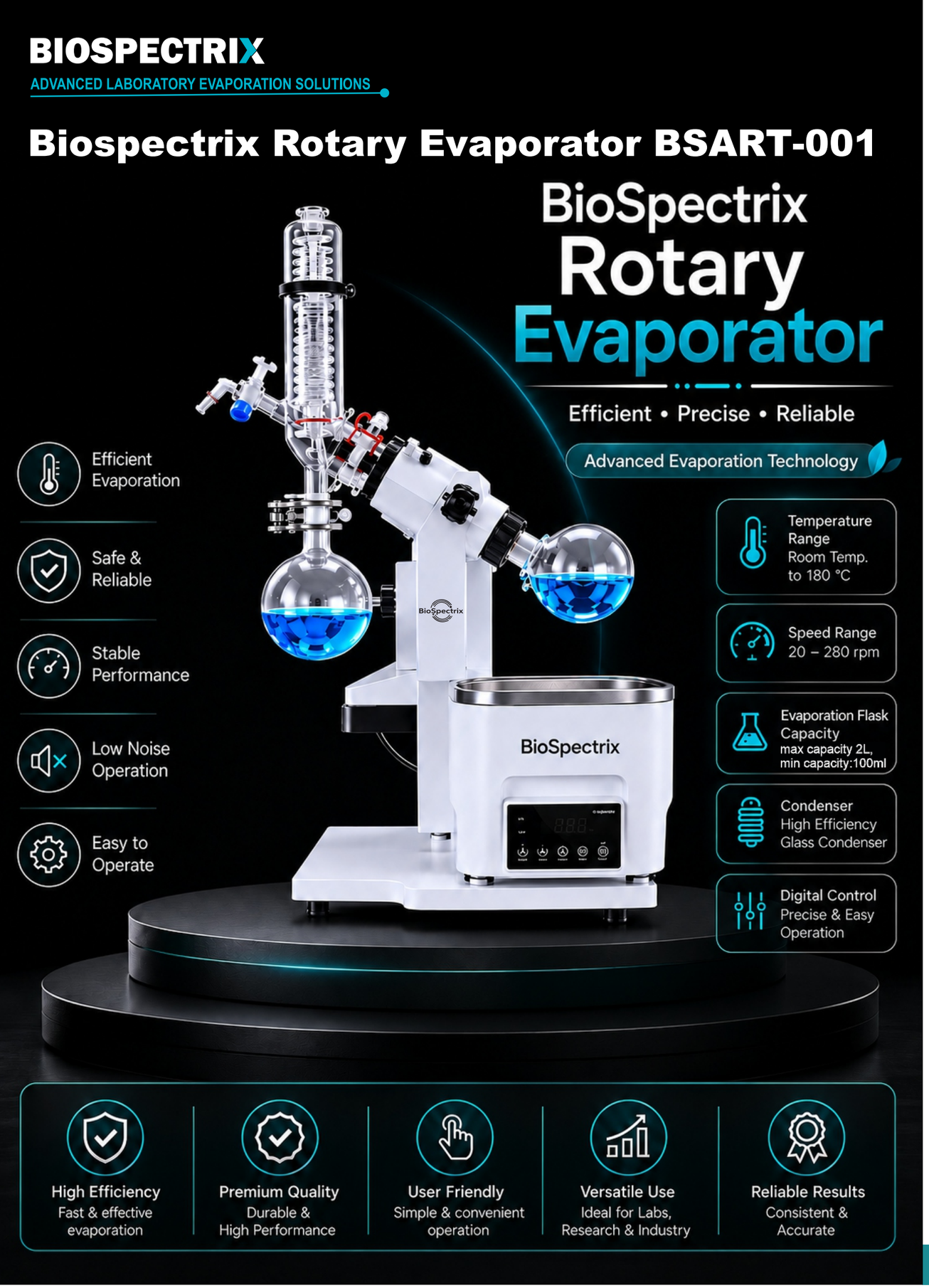
BIOSPECTRIX

ADVANCED LABORATORY EVAPORATION SOLUTIONS

Biospectrix Rotary Evaporator BSART-001



BIOSPECTRIX

PRECISION SCIENTIFIC & LABORATORY INSTRUMENTS

BioSpectrix Rotary Evaporator BSART-001

Fast, Efficient & Gentle Solvent Evaporation



INTRODUCTION

The BioSpectrix Rotary Evaporator is designed for rapid solvent evaporation, concentration, and recovery. The sample flask rotates continuously in a temperature-controlled water bath, forming a thin film that increases the evaporation surface area and enhances efficiency.

When operated under vacuum, the solvent boiling point is reduced, enabling faster evaporation at lower temperatures—ideal for heat-sensitive samples. The evaporated solvent is then condensed through a cooled glass condenser and collected in a receiving flask for efficient solvent recovery.

For complete operation, the system can be integrated with vacuum pumps and recirculating chillers, providing a reliable solution for pharmaceutical, chemical, biotechnology, food, and research laboratories

BASIC CONFIGURATION:

- High-borosilicate glass & PTFE material-contact parts for excellent chemical resistance.
- Durable aluminum alloy main frame with PTFE + fluororubber sealing system.
- Continuous vacuum feeding through PTFE-lined piston valve.
- High-efficiency upright double-layer serpentine condenser.
- Large LCD display for simultaneous temperature & speed monitoring.
- Brushless motor for low-noise, spark-free & stable operation.
- Electronic stepless speed control with precision adjustment knob.
- Aluminum alloy + PTFE composite heating bath with PT100 sensor.
- Electric main-unit lifting with convenient manual control.
- Dual-fuse safety protection for heating & rotation systems.

Technical parameters

Model	BSART-001
Voltage/Frequency	220V 50Hz/110V 60Hz
Total Power	1540W
Rotary motor power	40W
Heating power	1500W
Vacuum	0.098Mpa
Rotary flask volume	Eggplant shape 1LΦ131mm/24# standard port
Collecting flask volume	Spherical shape 1LΦ131mm/35# ball mill port
Rotary speed	35-200rpm/min
Temperature control range	Room temperature-99℃
Temperature control accuracy	±1℃
Main machine lifting distance	180mm
Condenser dimension	Φ85×430H(mm) lower 35# ball mill stopper
Condensing area	0.17 ㎡
Material feeding valve	19#standard plug valve, feeding valve (pagoda joint) with 10mm outer diameter
Vacuum nozzle	Pagoda joint with 10mm outer diameter
In and out circulating nozzle of condenser coil	Pagoda joint with 12mm outer diameter
Bath dimension/weight	about 5L
Overall dimension(W*D*H)	650X 420X 900mm
Net weight	20KG
Packing dimension	660*500*500mm wooden package 0.17m³
Packing weight	23KG

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