BIOSPECTRIX

ADVANCED LABORATORY EVAPORATION SOLUTIONS

BS RX SERIES ROTARY EVAPORATORS

10L | 20L | 50L

WITH SAFETY ENCLOSURES

Efficient • Precise • Reliable

Advanced Evaporation Technology

- Efficient Evaporation
- Safe & Reliable
- Stable Performance
- Low Noise Operation
- Easy to Operate



- Temperature Range Room Temp. to 180 °C
- Speed Range 20 – 280 rpm
- Evaporation Flask Capacity Upto 50 Liter
- Condenser High Efficiency Glass Condenser
- Digital Control Precise & Easy Operation

High Efficiency	Premium Quality	User Friendly	Versatile Use	Reliable Results
Fast & effective evaporation	Durable & High Performance	Simple & convenient operation	Ideal for Labs, Research & Industry	Consistent & Accurate

BioSpectrix®

PRECISION SCIENTIFIC & LABORATORY INSTRUMENTS

BIOPECTRIX ROTARY EVAPORATORS

SMARTER CONTROL
SAFER OPERATION
SUPERIOR RECOVERY

ENGINEERED FOR PRECISION. DESIGNED FOR SAFETY.

Advanced Rotary Evaporators with Safety Enclosures



SMART TECHNOLOGY.
MAXIMUM SAFETY.
HIGH PERFORMANCE.

SIMPLE TO OPERATE | PRECISE RESULTS | SAFE BY DESIGN | HIGH EFFICIENCY

01 SMART CONTROL



- **7" Touchscreen** — Intuitive & responsive control
- **Auto Programs** — Set it once, run with ease
- **Multi-Segment Programming** — Control vacuum, speed, temperature & timing
- **USB Data Export** — Store & export data to Excel with ease

02 SAFETY FIRST



- **Safety Enclosure** — Acrylic covers for flasks – enhanced protection
- **Door Interlock** — Stops rotation when door is opened
- **Dual Fuses** — Independent protection for rotation & heating
- **Over-Temperature Protection** — Auto shut-off if temp. exceeds set by 5°C
- **Power-Restoration Safety** — Heating stays OFF when power restores

03 PRECISION EVAPORATION



- **Vacuum Regulation** — Accurate pressure control for better results
- **PT100 Control** — Fast & accurate temperature measurement
- **0–120 rpm Rotation Speed** — Stable & uniform evaporation
- **Continuous Feeding** — PTFE extended feeding valve for vacuum feeding

04 HIGH-EFFICIENCY RECOVERY



- **3-Layer Serpentine Condenser** — Large surface area for efficient cooling
- **Large Condensation Area** — High recovery of solvent vapors
- **Continuous Collection & Discharge** — Vacuum switching valve for uninterrupted operation

05 BUILT TO LAST



- **High-Borosilicate Glass** — 3.3 expansion coefficient – excellent chemical resistance
- **PTFE + Viton Seals** — High vacuum performance & leak resistance
- **SUS304 Bath** — Durable, rust-resistant & easy to clean
- **Anti-Corrosion Construction** — Powder-coated steel & aluminum alloy for long life

ONE SYSTEM. COMPLETE SOLUTION.

ROTARY EVAPORATOR + VACUUM PUMP + COOLING CIRCULATOR = POWERFUL EVAPORATION & SOLVENT RECOVERY

Safety Enclosure. Protection Built In.

A dedicated enclosure around the evaporation and receiving area for safer, cleaner operation.



ENCLOSED DESIGN

SAFETY FOCUS

WHY THE ENCLOSURE MATTERS

01 PHYSICAL BARRIER

Transparent enclosure surrounds the rotating/receiving area and provides a visible separation between the

02 SAFETY-DOOR LOGIC

The source specification states safety-door rotation logic to support safer operation.

03 EMERGENCY STOP

Emergency-stop control is visibly integrated on the enclosure for rapid intervention.

04 OVER-TEMPERATURE PROTECTION

Heating protection and automatic heating stop help protect the process and equipment.

05 CLEANER WORKSPACE

Enclosed operation helps keep the evaporation zone organized and visually controlled.

SAFER OPERATION ● BETTER VISIBILITY ● CONTROLLED PROCESS

The RX Series combines enclosed construction with controlled rotation, heating and vacuum operation. The result is a more organized evaporation environment with clear visibility of the process.

P PROTECT

Enclosure around the process zone

O OBSERVE

Clear view of the evaporation area

C CONTROL

Touch control for key process parameters

Safety statements are based on the supplied brochure specification and visible product features.

Three Capacities. One Smart Platform.

Select the RX configuration that matches your evaporation scale.

RXT-10



10 L

Rotary flask

Collection flask: 5 L

Heating power: 3,000 W

RXT-20



20 L

Rotary flask

Collection flask: 10 L

Heating power: 5,000 W

RXT-50



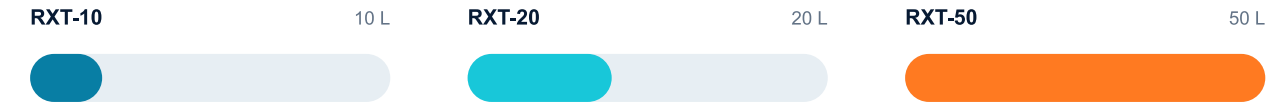
50 L

Rotary flask

Collection flask: 20 L

Heating power: 8,000 W

ROTARY FLASK CAPACITY



Visual scale is based on the supplied nominal rotating-flask capacities.

KEY TECHNICAL COMPARISON

Parameter	RXT-10	RXT-20	RXT-50
Rotation speed	0–120 rpm	0–120 rpm	0–120 rpm
Vacuum degree	0.095 MPa	0.095 MPa	0.095 MPa
Heating power	3,000 W	5,000 W	8,000 W
Heating accuracy	±1°C	±1°C	±1°C
Bath capacity	~21 L	~41 L	~76 L
Bath lifting stroke	150 mm	150 mm	215 mm
Condenser area	1.2 m²	1.2 m²	1.2 m²
Net weight	~120 kg	~150 kg	200 kg