Rotary Evaporator - 3 L Lab Rotavap with Electric Lift - 0-310 rpm - 27 mL/min

Model **MSREV-3000ACSWISS** | Brand **Master Science**





The Master Science Rotary Evaporator removes solvents quickly and gently under reduced pressure for concentration, distillation, crystallisation and drying of samples. A 70 W DC motor turns flasks from 250 to 3000 mL at up to 310 rpm with smooth start-up and high torque.

KEY HIGHLIGHTS

- High recovery rate
- Broad temperature range
- Safer operation
- Ideal for drying powders
- Precise vacuum (optional)

AT A GLANCE

0 to 310 rpm
ROTATION SPEED

Microcomputer PID with digital display
TEMPERATURE CONTROL

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Overview

The Teflon-coated dual-purpose bath runs as a water bath to 99 °C or an oil bath to 210 °C, and an electric lift with touch and handle controls raises the flask safely at the end of each run.

For multi-sample concentration under nitrogen, see the Master Science laboratory instrument range.

Key Benefits

High recovery rate
the Master Science Rotary Evaporator uses a 0.21 m² three-layer condenser with anti-backflow design.

Broad temperature range
one bath works with water to 99 °C or oil to 210 °C.

Safer operation
electric lift, insulated bath and timed auto-stop protect users and samples.

Ideal for drying powders
interval forward and reverse rotation prevents caking.

Precise vacuum (optional)
integrated controller holds pressure within ±1 mbar.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSREV-3000ACSWISS
SKU	MSREV-3000ACSWISS
Flask Volume	250 to 3000 mL
Rotation Speed	0 to 310 rpm
Evaporation Rate	Up to 27 mL/min (water)
Motor	70 W DC
Bath Temperature	Water: ambient to 99 °C (±0.5 °C); oil: ambient to 210 °C (±2 °C)
Bath	Teflon-coated, Ø26 × 15 cm, about 8 L, insulated with safety handles
Heater	Enclosed, 1.5 kW
Temperature Control	Microcomputer PID with digital display
Rotation Modes	Continuous or interval clockwise/counter-clockwise, pause 0 to 60 s
Lift	Electric, touch and handle control; 150 mm stroke; 60 mm lower safety gap
Timer	0 to 999 min, automatic stop and standby
Vacuum Control (optional)	Built-in controller, -0.1 to 0 MPa, ±1 mbar
Condenser	Vertical three-layer serpentine, 0.21 m², drip point and anti-backflow
Seals	PTFE
Display	Color LCD with knob control
Ambient Conditions	5 to 40 °C
Power Supply	AC 220 V, 50 Hz

DIMENSIONS & WEIGHT	
Dimensions	710 × 645 × 790 mm
Gross Weight	35 kg

HOW THE MASTER SCIENCE ROTARY EVAPORATOR SUPPORTS SOLVENT WORK	
Bumping and foaming	controlled vacuum and steady rotation reduce bumping.
Burns from hot baths	insulated shell and handles protect users.
Powders caking on the flask	interval rotation keeps material moving.
Runs left unattended	timer and auto-standby stop the process safely.
Solvent loss	large condenser area improves recovery.

Applications

The Master Science Rotary Evaporator is used for

Solvent removal after extraction Concentration of plant extracts and natural products Pharmaceutical and chemical synthesis Food and flavour concentration Solvent recovery and purification

Drive and Lift

- 70 W DC motor, 0 to 310 rpm
- Interval rotation for drying
- Electric lift with collision guard

Heating

- Teflon-coated 8 L bath
- Water and oil operation
- PID control with digital display

Condensing and Sealing

- Three-layer serpentine condenser
- Drip point and anti-backflow
- PTFE seals and quick flask release

Standard Accessories Included

- 3 L flanged round-bottom flask
- 1 L eggplant flask (29#)
- Flange to 29# adapter
- 2 L collection flask (S35 ball joint)

Optional Accessories

- Built-in vacuum controller
- Transparent safety cover (water bath)
- Diaphragm vacuum pump
- Low-temperature circulator