Compact Rotary Evaporator - Brushless Motor Rotavap - 20-200 rpm - RT-180°C Bath

Model **MSREV100-SSWISS** | Brand **Master Science**





The Master Science Compact Rotary Evaporator is a space-saving rotavap with a maintenance-free brushless DC motor, suited to routine solvent removal and concentration in research and QC labs. Flasks from 50 mL to 3000 mL can be used, with a 1000 mL evaporating flask fitted as standard.

KEY HIGHLIGHTS

- Low maintenance drive
- Efficient condensing
- Safe heating
- Small footprint
- Remote operation

AT A GLANCE

Ambient to 180 °C BATH TEMPERATURE	**20 to 200 rpm** SPEED RANGE
5 L, water/oil switchable BATH VOLUME	**1200 W** HEATING POWER

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

A separate 5 L bath switches between water and oil heating and can work on its own as a heating bath. Manual lift with an auxiliary stroke allows precise flask positioning, and a USB port enables PC control and data transfer.

Overview

- 5 L water/oil bath
- PID control
- Independent use as heating bath

Key Benefits

Low maintenance drive
the brushless motor in the Master Science Compact Rotary Evaporator needs no brush replacement.

Efficient condensing
a double-helix condenser with central arc speeds liquid flow and cooling.

Safe heating
boil-dry protection and a 220 °C cut-off prevent overheating.

Small footprint
fits benches and fume hoods with limited space.

Remote operation
USB connection allows PC control and data logging.

For larger flasks and electric lift, see the Master Science 3 L rotary evaporator.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSREV100-SSWISS
SKU	MSREV100-SSWISS
Evaporating Flask	50 to 3000 mL (1000 mL standard; 3 L with optional reinforced shaft)
Receiving Flask	100 to 2000 mL (1000 mL standard)
Motor	Brushless DC
Speed Range	**20 to 200 rpm**
Rotation	Clockwise and anticlockwise interval for drying
Bath Volume	5 L, water/oil switchable
Bath Temperature	Ambient to 180 °C
Control Accuracy	**±1 °C (water); ±3 °C (oil)**
Overheat Protection	220 °C cut-off; boil-dry protection
Lift	Manual 110 mm plus 100 mm auxiliary
Timer	1 to 999 min; interval 1 to 999 s
Condenser	Double-helix design, 1200 or 1700 cm² cooling surface
Seals	PTFE double-spring
Protection Class	IP20

POWER	
Heating Power	1200 W
Power Supply	100 to 120 V / 200 to 240 V, 50/60 Hz, 1245 W

DISPLAY & DATA	
Display	LED (speed, temperature, time)
Interface	USB

DIMENSIONS & WEIGHT	
Dimensions	Main unit 440 × 320 × 450 mm; bath 300 × 300 × 240 mm
Weight	Main unit 7 kg; bath 3 kg

COMMON LABORATORY PROBLEMS AND HOW THIS EVAPORATOR HELPS	
Common Laboratory Problems and How This Evaporator Helps	How the Master Science Compact Rotary Evaporator helps with daily evaporation:
Motor brush wear	brushless drive removes this maintenance.
Bath running dry	boil-dry protection cuts power.
Leaking vacuum seals	PTFE double-spring seals hold vacuum.
Limited space in fume hoods	compact design fits easily.
Manual logging	USB transfers run data to a PC.

Applications

The Master Science Compact Rotary Evaporator is used for
Solvent removal in organic synthesis Natural product and extract concentration Sample preparation for analysis Teaching laboratories Small-scale solvent recovery

Drive

- Brushless DC motor 20 to 200 rpm
- Interval forward and reverse rotation
- Adjustable immersion angle

Glassware and Seals

- Double-helix condenser
- PTFE double-spring seal
- Easy flask ejection

Standard Accessories Included

- 1000 mL evaporating flask
- 1000 mL receiving flask
- Heating bath

Optional Accessories

- Reinforced glass shaft for 3 L flasks
- 1700 cm² condenser
- Diaphragm vacuum pump
- Vacuum controller
- Low-temperature circulator