# 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