Automatic Nitrogen Evaporator - Sample Concentrator - 80 Positions - 0-3.0 L/min Flow

Model **MSNEC90-R80WSWISS** | Brand **Master Science**





The Master Science Automatic Nitrogen Evaporator concentrates up to 80 samples at once by combining a heated water bath with controlled nitrogen blowdown. Needles descend automatically at a set speed to follow the falling liquid level, keeping the ideal distance from the surface for fast, even evaporation.

KEY HIGHLIGHTS

- High throughput
- Uniform results
- Faster concentration
- Hands-off operation
- Operator protection

AT A GLANCE

Ambient to 90 °C TEMPERATURE RANGE	**80 positions** SAMPLE CAPACITY
PID TEMPERATURE CONTROL	

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Overview

Positive nitrogen pressure above every tube excludes oxygen and moisture, protecting sensitive analytes during sample preparation for residue, environmental and pharmaceutical analysis.

Key Benefits

High throughput
the Master Science Automatic Nitrogen Evaporator handles 80 samples in a single run.

Uniform results
identical needle bores and centred tips give equal flow to every tube.

Faster concentration
level-tracking needles keep gas close to the liquid surface throughout.

Hands-off operation
automatic water fill and drain, module lowering and retraction.

Operator protection
exhaust fan, anti-pinch sensing and insulated glass bath.

For bulk solvent removal, pair it with the Master Science touchscreen rotary evaporator.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSNEC90-R80WSWISS
SKU	MSNEC90-R80WSWISS
Method	Water bath heating with nitrogen blowdown
Gas Channels	8, individually controlled
Sample Capacity	**80 positions**
Sample Tube Volume	80 mL
Temperature Range	**Ambient to 90 °C**
Temperature Control	PID
Gas Flow Range	**0.0 to 3.0 L/min, electronic proportional valve, 0.1 L/min resolution**
Needle Travel	≥ 160 mm, programmable descent speed, 0.1 mm height control
Stored Methods	≥ 110
Water Handling	Level sensor with automatic fill and drain
Bath	Double-layer glass, three-sided transparent window
Safety	Exhaust fan, low gas pressure shutdown, low water and dry-heat alarms, anti-pinch sensor
Ventilation	Fume hood or exhaust required
Operating Conditions	10 to 40 °C, 20 to 80 % RH
Power Supply	220 to 240 V, 50/60 Hz, 1500 W

DIMENSIONS & WEIGHT	
Dimensions	400 × 480 × 540 mm
Net Weight	48 kg

COMMON LABORATORY PROBLEMS AND HOW THIS EVAPORATOR HELPS	
Common Laboratory Problems and How This Evaporator Helps	How the Master Science Automatic Nitrogen Evaporator speeds up sample preparation:
Slow manual blowdown	80 samples evaporate in parallel.
Uneven drying between tubes	equal needle flow keeps samples consistent.
Analyte oxidation	nitrogen blanket excludes air and moisture.
Solvent vapour exposure	an active exhaust removes fumes.
Constant needle adjustment	automatic level tracking does it for you.

Applications

The Master Science Automatic Nitrogen Evaporator is used for: Pesticide and veterinary drug residue analysis Environmental water, soil and air samples Pharmaceutical sample preparation Biochemical extracts Polymer and materials analysis

Gas Delivery

- 8 channels with individual flow control
- Electronic flow 0 to 3.0 L/min
- Quick-release needles for cleaning

Automation

- Liquid-level tracking needle descent
- Automatic water fill and drain
- Touchscreen with 110+ methods

Safety

- Built-in exhaust fan
- Low pressure, low water and dry-heat protection
- Anti-pinch detection