Dry Block Nitrogen Evaporator - 12-Tube Sample Concentrator - RT+5 to 160°C - 15 L/min

Model **MSNEC160-1ASWISS** | Brand **Master Science**





The Master Science Dry Block Nitrogen Evaporator concentrates samples by blowing nitrogen onto tubes held in a high-purity aluminium heating block. Using a dry block instead of a water bath keeps the bench clean and gives fast, uniform heating up to 160 °C.

KEY HIGHLIGHTS

- No water bath mess
- Save nitrogen
- Fast heating
- Fits many tube sizes
- Compact footprint

AT A GLANCE

Ambient +5 °C to 160 °C TEMPERATURE RANGE	**±0.5 °C at 40 °C; ±1 °C at 120 °C** TEMPERATURE ACCURACY
aluminium block heats uniformly. UNEVEN TUBE TEMPERATURES	**±0.5 °C** TEMPERATURE UNIFORMITY

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Contact us for pricing, configuration options and delivery details.

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Overview

Twelve gas needles can each be opened or closed independently, and the needle manifold height adjusts steplessly with one hand to suit different tube lengths.

For high-throughput work with 80 samples, see the Master Science automatic nitrogen evaporator.

Key Benefits

No water bath mess
the Master Science Dry Block Nitrogen Evaporator heats through aluminium, so there is no water to refill or contaminate.

Save nitrogen
each needle can be shut off when fewer samples are loaded.

Fast heating
reaches 160 °C in 15 minutes or less.

Fits many tube sizes
interchangeable blocks cover 10 to 20 mm tubes.

Compact footprint
small enough for crowded fume hoods.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSNEC160-1ASWISS
SKU	MSNEC160-1ASWISS
Temperature Range	**Ambient +5 °C to 160 °C**
Temperature Accuracy	**±0.5 °C at 40 °C; ±1 °C at 120 °C**
Temperature Uniformity	±0.5 °C
Heat-up Time	≤ 15 min from 25 °C to 160 °C
Timer	1 min to 99 h 59 min or continuous
Needle Positions	12, individually switchable
Maximum Lift Travel	200 mm
Maximum Gas Flow	15 L/min
Maximum Gas Pressure	0.1 MPa
Control	Microprocessor with PID
Heating Blocks (optional)	For 10, 12, 13, 15, 16, 19 or 20 mm tubes, 12 positions each
Display Resolution	0.1 °C

POWER	
Power	300 W
Power Supply	AC 220 V or 110 V, 50/60 Hz

DIMENSIONS & WEIGHT	
Dimensions	260 × 220 × 475 mm
Weight	6.0 kg

COMMON LABORATORY PROBLEMS AND HOW THIS EVAPORATOR HELPS	
Common Laboratory Problems and How This Evaporator Helps	How the Master Science Dry Block Nitrogen Evaporator improves sample concentration:
Water bath contamination and refilling	dry block heating removes the bath entirely.
Wasting gas on empty positions	needles switch off individually.
Uneven tube temperatures	aluminium block heats uniformly.
Different tube sizes	swap blocks to match the tubes.
Slow warm-up	fast heating shortens preparation time.

The Master Science Dry Block Nitrogen Evaporator is used in

Pesticide and drug residue analysis

Food and commodity inspection

Environmental sample preparation

Pharmaceutical analysis

Biological product testing

Heating

- High-purity aluminium block
- PID temperature control to 160 °C
- ±0.5 °C uniformity

Gas Delivery

- 12 independently switchable needles
- Up to 15 L/min nitrogen
- Stepless one-hand height adjustment

Operation

- Digital display with 0.1 °C resolution
- Timer up to 99 h 59 min
- Simple, safe operation

Optional Accessories

- Heating blocks MD50 to MD56 for 10 to 20 mm tubes