Twin-Block Nitrogen Evaporator - 24-Tube Sample Concentrator - RT+5 to 160°C - 500 W

Model **MSNEC160-2ASWISS** | Brand **Master Science**





The Master Science Twin-Block Nitrogen Evaporator doubles capacity with two aluminium heating blocks, allowing up to 24 tubes to be concentrated at once under a stream of nitrogen. Dry block heating replaces the water bath, giving clean, uniform and fast temperature control up to 160 °C.

KEY HIGHLIGHTS

- Double the capacity
- Mix tube sizes
- Clean dry heating
- Efficient gas use
- Accurate temperature

AT A GLANCE

Ambient +5 °C to 160 °C
TEMPERATURE RANGE

±0.5 °C at 40 °C; ±1 °C at 120 °C
TEMPERATURE ACCURACY

±0.5 °C
TEMPERATURE UNIFORMITY

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

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Overview

Each needle can be opened or closed individually, and the manifold height adjusts steplessly with one hand, so partial batches and different tube lengths are handled easily.

Key Benefits

Double the capacity
the Master Science Twin-Block Nitrogen Evaporator processes up to 24 tubes in one run.

Mix tube sizes
two blocks can hold different tube diameters at the same time.

Clean dry heating
no water bath to maintain or contaminate.

Efficient gas use
unused needles are switched off individually.

Accurate temperature
±0.5 °C uniformity across the blocks.

For a single-block model, see the Master Science dry block nitrogen evaporator.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSNEC160-2ASWISS
SKU	MSNEC160-2ASWISS
Heating Blocks	2 (12 tubes each with standard blocks)
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 Length	150 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
Display Resolution	0.1 °C

POWER	
Power	500 W
Power Supply	AC 220 V or 110 V, 50/60 Hz

DIMENSIONS & WEIGHT	
Dimensions	260 × 220 × 475 mm
Weight	7.5 kg

COMMON LABORATORY PROBLEMS AND HOW THIS EVAPORATOR HELPS	
Common Laboratory Problems and How This Evaporator Helps	How the Master Science Twin-Block Nitrogen Evaporator supports busy sample prep:
Batches larger than 12 tubes	two blocks give 24 positions.
Mixed tube formats	each block can hold a different size.
Water bath upkeep	dry heating removes it.
Gas wasted on empty spaces	needles close individually.
Uneven evaporation	uniform block temperature keeps samples consistent.

The Master Science Twin-Block Nitrogen Evaporator is used in

- **Residue analysis in food and agriculture**
- **Commodity inspection laboratories**
- **Environmental testing**
- **Pharmaceutical sample preparation**

Biological product analysis

Heating

- Two high-purity aluminium blocks
- PID control to 160 °C
- Fast heat-up

Gas Delivery

- Individually switchable needles
- 150 mm needles, up to 15 L/min
- Stepless one-hand lift

Operation

- 0.1 °C display
- Long timer range
- Compact design

Optional Accessories

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