Infrared Drying Oven - Fast Heating Lab Oven - 50-250°C - 72 to 270 L

Model **MSDON-IF72HSWISS, MSDON-IF138HSWISS, MSDON-IF270HSWISS** | Brand **Master Science**





The Master Science Infrared Drying Oven heats samples by far-infrared radiation, which brings the chamber to temperature quickly and uses less energy than many conventional heating systems. It is a practical choice for routine drying and heat testing in industrial, agricultural, medical and research laboratories.

KEY HIGHLIGHTS

- Shorter drying cycles
- Lower energy use
- Restart after power cuts
- Easy cleaning
- Visual check without heat loss

AT A GLANCE

50 to 250 °C TEMPERATURE RANGE	**72 L / 138 L / 270 L** CAPACITY
1200 W / 1600 W / 1900 W POWER CONSUMPTION	**≤ ±3.5 % of maximum temperature** TEMPERATURE UNIFORMITY

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

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Overview

Three chamber sizes are offered, 72, 138 and 270 litres, all with a working range of 50 to 250 °C and natural air convection.

Key Benefits

Shorter drying cycles
infrared radiation transfers heat directly to the sample.

Lower energy use
the Master Science Infrared Drying Oven runs at 1200 to 1900 W.

Restart after power cuts
memory resumes the program automatically.

Easy cleaning
rounded stainless chamber corners.

Visual check without heat loss
observation window in the outer door.

Need higher temperatures for ashing? See the Master Science laboratory instrument range.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSDON-IF72HSWISS, MSDON-IF138HSWISS, MSDON-IF270HSWISS
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SKU	MSDON-IF72HSWISS, MSDON-IF138HSWISS, MSDON-IF270HSWISS
Capacity	**72 L / 138 L / 270 L**
Heating Method	Far-infrared radiation
Circulation	Natural convection
Temperature Range	**50 to 250 °C**
Temperature Uniformity	≤ ±3.5 % of maximum temperature
Temperature Fluctuation	±1 °C
Controller	PID with LED digital display
Timer	Continuous or 0 to 9999 min
Shelves	2 / 3 / 3, removable, adjustable spacing
Alarms	Over-temperature, temperature probe failure
Outer Casing	Powder-coated cold-rolled steel
Inner Chamber	Stainless steel with rounded corners

DIMENSIONS & WEIGHT

Internal Dimensions (W × D × H)	400 × 400 × 450 / 500 × 500 × 550 / 600 × 600 × 750 mm
External Dimensions (W × D × H)	730 × 565 × 702 / 830 × 665 × 772 / 930 × 765 × 972 mm

POWER

Power Supply	1 phase, 220 V, 50 Hz
Power Consumption	1200 W / 1600 W / 1900 W

COMMON LABORATORY PROBLEMS AND HOW THIS OVEN HELPS

Common Laboratory Problems and How This Oven Helps	How the Master Science Infrared Drying Oven deals with typical drying issues:
Slow warm-up	infrared heating reaches temperature quickly.
Lost runs after outages	programs resume when power returns.
Overheated samples	over-temperature alarm and optional independent protector.
No temperature records	optional printer or RS485 output.

Applications

Common uses of the Master Science Infrared Drying Oven
Drying of glassware and samples Moisture removal from powders and granules Heat treatment and curing Agricultural and food sample drying Medical and research laboratories

Heating and Control

- Far-infrared heating
- PID controller with LED display
- Timed or continuous operation

Chamber

- Stainless steel interior
- Removable shelves with adjustable height
- Top adjustable air outlet

Safety

- Over-temperature alarm
- Probe failure alarm
- Power-failure memory

Standard Accessories Included

- Shelves (2 or 3 depending on model)

Optional Accessories

- Independent external over-temperature protector
- LCD temperature controller
- LCD controller with RS485 interface
- LCD controller with micro dot-matrix printer
- RS485 to USB adapter
- Additional shelves