Dual Convection Oven - Forced Air Drying Oven - 50-300°C - 42 to 224 L

Model **MSDOF-H42ZSWISS, MSDOF-H70ZSWISS, MSDOF-H135ZSWISS, MSDOF-H224ZSWISS** | Brand **Master Science**







The Master Science Dual Convection Oven works as a forced-air oven with the fan running, or as a natural convection oven when the fan is switched off. This makes one unit suitable for both fast, even drying and for light powders that must not be disturbed by air flow.

KEY HIGHLIGHTS

- Two ovens in one
- Choice of heating power
- See samples without heat loss
- Safe unattended runs
- High temperature

AT A GLANCE

50 to 300 °C TEMPERATURE RANGE	**42 L / 70 L / 135 L / 224 L** CAPACITY
1600 W / 2400 W / 3000 W / 4000 W POWER CONSUMPTION	**≤ ±2.5 % of maximum temperature** TEMPERATURE UNIFORMITY

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Overview

It is used for drying, baking, wax melting and dry-heat sterilisation from 50 to 300 °C. Four chamber sizes are available, from 42 to 224 litres.

Key Benefits

Two ovens in one
the Master Science Dual Convection Oven switches between forced and natural air flow.

Choice of heating power
a selector switch matches power to the load.

See samples without heat loss
inner glass door.

Safe unattended runs
alarms and power-failure memory.

High temperature
up to 300 °C for baking and sterilisation.

For faster infrared drying, see the Master Science infrared fast heating drying oven.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSDOF-H42ZSWISS, MSDOF-H70ZSWISS, MSDOF-H135ZSWISS, MSDOF-H224ZSWISS
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Capacity	**42 L / 70 L / 135 L / 224 L**
Circulation	Forced convection (fan can be switched off for natural convection)
Heating	Bottom resistance wire with power selector switch
Temperature Range	**50 to 300 °C**
Temperature Uniformity	≤ ±2.5 % of maximum temperature
Temperature Fluctuation	±1 °C
Controller	PID with LED digital display
Timer	Continuous or 0 to 9999 min
Shelves	2 / 2 / 3 / 3, removable
Alarms	Over-temperature, temperature probe failure
Doors	Inner glass door; solid outer door
Materials	Powder-coated steel exterior, stainless steel chamber

DIMENSIONS & WEIGHT

Internal Dimensions (W × D × H)	350 × 348 × 350 / 450 × 348 × 450 / 550 × 448 × 550 / 600 × 498 × 750 mm
External Dimensions (W × D × H)	677 × 527 × 642 / 777 × 527 × 742 / 877 × 627 × 842 / 927 × 677 × 1042 mm

POWER

Power Supply	1 phase, 220 V, 50 Hz
Power Consumption	1600 W / 2400 W / 3000 W / 4000 W

EVERYDAY ISSUES THE MASTER SCIENCE DUAL CONVECTION OVEN ADDRESSES

Uneven drying	forced air spreads heat through the chamber.
Light powders blown around	switch the fan off for natural convection.
Opening the door to check samples	inner glass door keeps heat in.
Interrupted programs	memory resumes after power returns.

Applications

The Master Science Dual Convection Oven is used for
Drying samples and glassware Baking and curing Wax melting Dry-heat sterilisation Industrial, mining and research laboratories

Air Flow and Heating

- Fan on for forced convection, off for natural convection
- Bottom heating with power selector
- Adjustable top air outlet

Control

- PID controller with LED display
- Timer 0 to 9999 min or continuous
- Automatic restart after power failure

Chamber

- Stainless steel with rounded corners
- Removable, adjustable shelves
- Inner glass door

Standard Accessories Included

- Shelves (2 or 3 depending on model)

Optional Accessories

- Additional shelves