Forced Air Drying Oven - Laboratory Convection Oven - 30L to 640L - RT+10 to 250°C, PID LCD

Model **MSDOF-B20ASWISS, MSDOF-B50ASWISS, MSDOF-B100ASWISS, MSDOF-B200ASWISS, MSDOF-B625ASWISS** | Brand **Master Science**





The Master Science Forced Air Drying Oven is a convection oven for drying, baking, wax melting and sterilization in laboratories, research institutions and industrial plants. Five chamber sizes from 30 L to 640 L cover everything from small sample batches to bulky loads.

KEY HIGHLIGHTS

- Even drying
- Energy saving
- Simple operation
- Safe use

AT A GLANCE

RT+10 to 250°C TEMPERATURE RANGE	**500 / 750 / 1500 / 2000 / 4000 W** POWER CONSUMPTION
±2.5% UNIFORMITY	

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

support@themsci.com
www.themsci.com

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Overview

A high-quality fan with a large impeller draws air from the back and circulates it along both sides, while perforated shelves improve airflow for good temperature uniformity. PID control from ambient +10°C to 250°C, a large LCD menu and a 1 to 9999 minute timer make the Master Science Forced Air Drying Oven quick to set up for routine work.

Natural convection ovens can dry unevenly and slowly. The Master Science Forced Air Drying Oven helps with:

Key Benefits

Even drying
Back-suction airflow with side circulation and perforated shelves.

Energy saving
Silicone door seals and adaptive control reduce heat loss.

Simple operation
LCD menu, fixed or timed running, END display with buzzer.

Safe use
Leakage protection, thick insulation and over-temperature alarms.

For dry heat sterilization with a stackable cabinet, see our hot air sterilizer.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSDOF-B20ASWISS, MSDOF-B50ASWISS, MSDOF-B100ASWISS, MSDOF-B200ASWISS, MSDOF-B625ASWISS
SKU	MSDOF-B20ASWISS, MSDOF-B50ASWISS, MSDOF-B100ASWISS, MSDOF-B200ASWISS, MSDOF-B625ASWISS
Brand	Master Science
Models	MSDOF-B20ASWISS (30 L), MSDOF-B50ASWISS (51 L), MSDOF-B100ASWISS (138 L), MSDOF-B200ASWISS (188 L), MSDOF-B625ASWISS (640 L)
SKU	MSDOF-B20ASWISS, MSDOF-B50ASWISS, MSDOF-B100ASWISS, MSDOF-B200ASWISS, MSDOF-B625ASWISS
Circulation	Forced convection
Temperature Range	**RT+10 to 250°C**
Fluctuation	±0.5°C
Resolution	0.1°C
Uniformity	±2.5%
Sensor	PT100
Controller	PID with LCD
Timer	1 to 9999 min
Interior	Brushed stainless steel
Exterior	Electro-galvanized steel with antimicrobial powder coating
Shelves	2 (standard)
Safety	Leakage protector, over-temperature visual and audible alarm

DIMENSIONS & WEIGHT	
Internal Dimensions (W × D × H)	30 L: 340 × 320 × 320 mm; 51 L: 420 × 350 × 350 mm; 138 L: 550 × 450 × 560 mm; 188 L: 600 × 550 × 570 mm; 640 L: 800 × 800 × 1000 mm
External Dimensions (W × D × H)	30 L: 630 × 570 × 500 mm; 51 L: 710 × 520 × 520 mm; 138 L: 845 × 700 × 730 mm; 188 L: 890 × 730 × 780 mm; 640 L: 1090 × 980 × 1180 mm

POWER	
Power Supply	AC 220/110 V, 50/60 Hz (640 L: AC 380 V, 50 Hz)
Power Consumption	500 / 750 / 1500 / 2000 / 4000 W

PROBLEMS THE MASTER SCIENCE FORCED AIR DRYING OVEN SOLVES	
Hot and cold spots	Forced air circulation improves uniformity.
Long drying times	Active airflow removes moisture faster.
Wasted energy	Silicone seals and adaptive heating cut losses.
Overheating risk	Audible and visual over-temperature alarms.

Applications

The Master Science Forced Air Drying Oven is used for
Drying samples, glassware and materials Baking and curing Wax melting Dry heat sterilization Industrial, mining and research laboratories

Air Circulation

- High-quality fan with large impeller
- Back suction with air circulation on both sides
- Laser-perforated shelves for airflow

Control

- Large LCD with real-time parameters
- Menu-based setting of temperature and time
- Fixed-value and timed running with END alert
- Self-diagnosis with fault display

Construction

- Brushed stainless steel chamber
- Removable shelves, adjustable at 30 mm spacing
- Observation window
- Anti-scald door handle
- Aluminium silicate insulation

Standard Accessories Included

- Drying oven main unit
- 2 shelves

Optional Accessories

- Digital independent temperature limiter
- Multi-segment programmable control
- USB, RS485/232 or printer
- Test hole Ø25, 50 or 80 mm
- Spare shelves