Hot Air Sterilizer - Forced Convection Dry Heat Oven - 30L to 230L - RT+10 to 300°C PID

Model **MSDOF-HAS30ESWISS, MSDOF-HAS45ESWISS, MSDOF-HAS65ESWISS, MSDOF-HAS85ESWISS, MSDOF-HAS125ESWISS, MSDOF-HAS230ESWISS** | Brand **Master Science**







The Master Science Forced Convection Hot Air Sterilizer is a dry heat unit for laboratories that need to sterilize or heat-treat glassware, metal tools and other heat-resistant items at temperatures up to 300°C. Six models cover chamber volumes from 30 L to 230 L.

KEY HIGHLIGHTS

- Higher temperature range
- Uniform airflow
- Reliable control
- Flexible loading

AT A GLANCE

RT+10 to 300°C
TEMPERATURE RANGE

Mirror stainless steel
INNER CHAMBER

±2.5%
UNIFORMITY

Self-tuning PID control limits overshoot at start-up.
TEMPERATURE OVERSHOOT

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

support@themsci.com
www.themsci.com

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Overview

Air is circulated horizontally through double air ducts for efficient, uniform heating, and a two-stage PID controller with over-temperature protection holds the set point within ±1°C. With a mirror stainless steel chamber and fan switch, the Master Science Forced Convection Hot Air Sterilizer is easy to clean and adapt to different loads.

Moisture-sensitive items and high-temperature work call for dry heat. The Master Science Forced Convection Hot Air Sterilizer helps with:

Key Benefits

Higher temperature range
Operation up to 300°C covers dry heat sterilization and high-temperature drying.

Uniform airflow
Double air ducts circulate air horizontally across every shelf.

Reliable control
PID self-tuning, sensor offset correction and power-off memory keep results consistent.

Flexible loading
Up to 17 shelves in the largest model, each carrying 15 kg.

For a 250°C model with LCD menu control, see the hot air sterilizer 34L to 188L.

Technical Specifications

GENERAL

General	Technical data of the Master Science Forced Convection Hot Air Sterilizer:
Brand	Master Science
Model Number	MSDOF-HAS30ESWISS, MSDOF-HAS45ESWISS, MSDOF-HAS65ESWISS, MSDOF-HAS85ESWISS, MSDOF-HAS125ESWISS, MSDOF-HAS230ESWISS
SKU	MSDOF-HAS30ESWISS, MSDOF-HAS45ESWISS, MSDOF-HAS65ESWISS, MSDOF-HAS85ESWISS, MSDOF-HAS125ESWISS, MSDOF-HAS230ESWISS
Brand	Master Science
Models	MSDOF-HAS30ESWISS (30 L), MSDOF-HAS45ESWISS (45 L), MSDOF-HAS65ESWISS (65 L), MSDOF-HAS85ESWISS (85 L), MSDOF-HAS125ESWISS (125 L), MSDOF-HAS230ESWISS (230 L)
SKU	MSDOF-HAS30ESWISS, MSDOF-HAS45ESWISS, MSDOF-HAS65ESWISS, MSDOF-HAS85ESWISS, MSDOF-HAS125ESWISS, MSDOF-HAS230ESWISS
Circulation	Forced convection, horizontal double air ducts
Temperature Range	**RT+10 to 300°C**
Resolution	0.1°C
Fluctuation	±1°C
Uniformity	±2.5%
Inner Chamber	Mirror stainless steel
Exterior	Cold-rolled steel, electrostatic spray coating
Insulation	Rock wool board
Heater	304 stainless steel
Controller	Two-stage PID, touch-button setting, dual 4-digit LED display
Timer	0 to 9999 min with timing-wait function
Sensor	Pt100
Exhaust Hole	Ø35 mm on top (also used as test hole)
General	Max. Shelves: 5 / 6 / 8 / 8 / 11 / 17
Load per Shelf	15 kg

DIMENSIONS & WEIGHT

Inner Dimensions (W × L × H)	30 L: 310 × 310 × 310 mm; 45 L: 350 × 350 × 350 mm; 65 L: 400 × 360 × 450 mm; 85 L: 450 × 420 × 450 mm; 125 L: 500 × 450 × 550 mm; 230 L: 600 × 500 × 750 mm

POWER

Power Rating	0.8 / 1.2 / 1.6 / 2.0 / 2.3 / 3.0 kW
Power Supply	AC 220 V, 50/60 Hz
Lost settings after power cuts	Power-off memory keeps parameters stored.

PROBLEMS THE MASTER SCIENCE FORCED CONVECTION HOT AIR STERILIZER SOLVES	
Cold spots in the chamber	Double-duct forced convection keeps temperature uniform.
Temperature overshoot	Self-tuning PID control limits overshoot at start-up.
Limited shelf space	Large models accept up to 17 shelves.

Applications

The Master Science Forced Convection Hot Air Sterilizer is suitable for: Dry heat sterilization of glassware and metal instruments High-temperature drying of samples and containers Microbiology and pharmaceutical laboratories Material and industrial testing labs Hospital and clinical laboratories

Airflow and Heating

- Horizontal circulation through double air ducts
- High-temperature blower motor with fan switch
- 304 stainless steel heater

Controller

- Two-stage PID with over-temperature protection
- Touch-button setting, LED display of set and measured values
- Fixed temperature, timing and auto-stop modes
- Sensor deviation correction and overshoot self-tuning
- Parameter lock and power-off memory

Construction

- Mirror stainless steel inner chamber
- Electrostatically coated cold-rolled steel exterior
- Rock wool insulation
- Anti-scald handle
- Ø35 mm top exhaust hole doubling as test port

Standard Accessories Included

- 2 shelves
- 4 shelf frames

Optional Accessories

- Additional shelves