Hot Air Sterilizer - Dry Heat Sterilizer with Forced Convection - 34L to 188L - RT+10 to 250°C

Model MSDOF-HAS20ASWISS, MSDOF-HAS50ASWISS, MSDOF-HAS70ASWISS, MSDOF-HAS100ASWISS, MSDOF-HAS200ASWISS |
Brand Master Science







The Master Science Hot Air Sterilizer uses high-temperature dry heat to sterilize glassware, metal instruments, powders and other heat-stable items that should not be exposed to moisture. Dry heat destroys microorganisms mainly by oxidizing the cell protoplasm, so a full load can be sterilized within a set heating time.

KEY HIGHLIGHTS

- Even heating
- Lower energy use
- Easy to programme
- Safe surfaces

AT A GLANCE

RT+10 to 250°C
TEMPERATURE RANGE

±2.5%
UNIFORMITY

500 W / 750 W / 1050 W / 1500 W / 2000 W
POWER CONSUMPTION

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

support@themsci.com
www.themsci.com

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Overview

Five chamber sizes from 34 L to 188 L are available, all with a brushed stainless steel interior, forced air convection and PID temperature control from ambient +10°C to 250°C. A large LCD screen and menu-based operation make the Master Science Hot Air Sterilizer quick to programme for routine sterilization.

Not every item can go into a steam autoclave. The Master Science Hot Air Sterilizer helps where moisture is a problem:

Key Benefits

Even heating
A high-efficiency fan with back suction and bottom vertical air supply improves temperature uniformity.

Lower energy use
Silicone door seals and adaptive control reduce heat loss and power draw.

Easy to programme
LCD menu, fixed-value or timed operation, and an END alert with beep at completion.

Safe surfaces
Thick aluminium silicate insulation keeps the outer case cooler.

For drying applications without sterilization, see our forced air drying oven.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSDOF-HAS20ASWISS, MSDOF-HAS50ASWISS, MSDOF-HAS70ASWISS, MSDOF-HAS100ASWISS, MSDOF-HAS200ASWISS
SKU	MSDOF-HAS20ASWISS, MSDOF-HAS50ASWISS, MSDOF-HAS70ASWISS, MSDOF-HAS100ASWISS, MSDOF-HAS200ASWISS
Brand	Master Science
Models	MSDOF-HAS20ASWISS (34 L), MSDOF-HAS50ASWISS (51 L), MSDOF-HAS70ASWISS (70 L), MSDOF-HAS100ASWISS (138 L), MSDOF-HAS200ASWISS (188 L)
SKU	MSDOF-HAS20ASWISS, MSDOF-HAS50ASWISS, MSDOF-HAS70ASWISS, MSDOF-HAS100ASWISS, MSDOF-HAS200ASWISS
Circulation	Forced air 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 display
Timer	1 to 9999 min
Interior / Exterior	Stainless steel / cold-rolled steel with anti-static coating
Shelves	2
Safety Devices	Leakage protector, over-temperature alarm

DIMENSIONS & WEIGHT	
Internal Dimensions (W × D × H)	34 L: 340 × 320 × 320 mm; 51 L: 420 × 350 × 350 mm; 70 L: 400 × 360 × 500 mm; 138 L: 550 × 450 × 560 mm; 188 L: 600 × 550 × 570 mm
External Dimensions (W × D × H)	34 L: 630 × 570 × 500 mm; 51 L: 830 × 710 × 700 mm; 70 L: 540 × 550 × 870 mm; 138 L: 845 × 700 × 730 mm; 188 L: 890 × 730 × 780 mm

POWER	
Power Supply	AC 220/110 V, 50/60 Hz
Power Consumption	500 W / 750 W / 1050 W / 1500 W / 2000 W

PROBLEMS THE MASTER SCIENCE HOT AIR STERILIZER SOLVES	
Moisture damage to instruments	Dry heat sterilizes without steam, avoiding corrosion and wet loads.
Uneven temperature in the chamber	Forced convection with a large impeller fan keeps heat uniform.
Hot outer surfaces	Thick insulation lowers the cabinet surface temperature.
Overheating risk	An independent temperature limit stops heating and sounds an alarm.

Applications

The Master Science Hot Air Sterilizer is used for

Dry heat sterilization of laboratory glassware Sterilizing metal instruments and tools Sterilizing sample bottles and containers Sterilizing powders, oils and other moisture-sensitive materials Microbiology, pharmaceutical and clinical laboratories

Control

- Large LCD with real-time parameters
- Screen self-lock function
- Fixed-value and timed operation
- °C / °F conversion
- Self-diagnosis with fault display

Air Circulation

- High-quality fan with large impeller
- Back suction with bottom vertical air supply

Construction

- Laser-cut one-piece cabinet
- Brushed stainless steel interior with rounded corners
- Removable stainless steel shelves, adjustable at 30 mm minimum spacing
- Sliding bayonet shelves to prevent tilting
- Tempered double-layer viewing window
- Anti-scald door handle
- Stackable design

Safety

- Leakage protection device
- Independent internal temperature limit with audible alarm
- High, low and over-temperature alarms

Standard Accessories Included

- Hot air sterilizer main unit
- 2 stainless steel shelves
- Leakage protector

Optional Accessories

- Intelligent touch screen with programme setting and data storage
- Programme controller for up to 30 programmes
- Printer or RS485 port (one of the two)
- Independent temperature limit controller
- Test hole