Natural Convection Oven, 222L

Model **MSBO200NSWISS** | Brand **Master Science** | Unit **Pc**





The high-temperature natural convection oven is engineered to provide a consistent and stable high-temperature environment, ideal for drying and disinfecting applications in laboratories and industrial settings. This oven can effectively handle glassware, solid objects, materials, and various process equipment, making it a versatile solution for different heating needs.

KEY HIGHLIGHTS

- Precise Temperature Control
- Linear Temperature Rise Control
- Step Heating Control

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Overview

Utilizing natural convection, this oven circulates warm air naturally without the need for a fan, reducing air turbulence and ensuring gentle, even drying.

Equipped with either a colorful touch screen controller or a professional controller for intuitive and easy operation.

Allows for multi-stage temperature setting, adjustable circulation speed, time control, and heating rates, simplifying complex testing processes through automatic control and programmable operation.

Conforms to the DIN-12880-2007 international standard, ensuring high precision and reliability.

Offers exceptional temperature control with minimized error, enhancing consistency across tests.

Environmentally efficient design minimizes heat loss, reducing energy consumption by up to 20% compared to traditional designs.

Maintains temperature uniformity within the chamber to ≤±2.5°C, ensuring even heating across all samples.

The temperature fluctuation is maintained at ±0.3°C, guaranteeing high stability during operations.

Key Benefits

STACKABLE STRUCTURE MAXIMIZES LABORATORY SPACE UTILIZATION.

Precise Temperature Control

PROGRAM CONTROL MODE

Linear Temperature Rise Control
Provides smooth and controlled heating increments to reach target temperatures.

Step Heating Control
Allows for customized, step-by-step temperature programming, ideal for protocols that require varying temperatures over time.

This natural convection oven is an excellent solution for laboratories seeking an energy-efficient, space-saving, and highly stable drying and disinfection solution.

Technical Specifications

PARAMETER	SPECIFICATION
Natural Convection OvenHigh-Temperature Stability for Drying and Disinfection	
Capacity222 liters	
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Temperature RangeRT+10°C to 200°C (Maximum 300°C)	
Display Resolution0.1°C, Colorful intelligent touch screen (Advanced) controller	
Temperature Uniformity at 100°C±2.5°C	
Heating Time to 100°C25 minutes	
Standard Shelf Capacity2 shelves (expandable up to 16 shelves)	
Maximum Load per Shelf20 kg	
Net Weight (NW)103 kg	
Interior Dimensions (W×D×H)650×500×650 mm	
Exterior Dimensions (W×D×H)940×658×910 mm	
Timing Range1 to 5999 minutes	
Temperature Specifications	
Shelf Capacity	
Physical Dimensions	
(Note	Exterior dimensions do not include hinges, handles, gauges, wires, etc., and the interior dimensions exclude duct sections.)
Timing and Power	

Standard Accessories Included

- AC220V, 50Hz
- Power Consumption: 2250W
- Important Notes
- Testing Conditions: All test data were obtained in a controlled 25°C environment.
- Dimensions: The exterior dimensions do not include additional components such as hinges, handles, gauges, or wires. The interior dimensions exclude the duct section.
- If operation at the maximum temperature of 300°C is required, please specify this in advance when placing an order.