

Natural Convection Drying Oven, 50L



Natural Convection Drying Oven

Model: MSCPO50SSWISS

Product Overview

The MSCPO50SSWISS Natural Convection Drying Oven is designed for applications requiring gentle drying and uniform heating. It features low air turbulence, making it ideal for sterilization, powder drying, and high-temperature storage. Equipped with a 4.3-inch

touchscreen controller, it ensures fast, accurate, and uniform heat distribution. The oven is engineered with airtight doors, corrosion-resistant stainless-steel inner chambers, and a range of safety features, ensuring maximum efficiency, safety, and user convenience.

Key Features and Performance

1. Temperature Range

- Ambient+10°C to 300°C (572°F).

2. Heating Technology

- P.I.D temperature controller for precise and reliable temperature control.
- Natural convection heating for uniform sample temperature, ideal for sterilization, powder drying, and high-temperature storage.

3. Durable and User-Friendly Design

- Extended-life silicone rubber gasket for excellent sealing and long service life, with easy replacement when needed.
- Corrosion-resistant stainless-steel inner chamber with round curved edges for easy cleaning.
- Anti-skid shelf design for one-handed operation.
- Space-saving stackable design for efficient use of laboratory space.

4. Advanced Controller

- New color 4.3-inch touchscreen controller for intuitive operation.
- Programmable settings with 8 periods and 8 steps for a total of 64 programs.
- USB data collection port for enhanced data management.

5. Safety Features

- Auto-start function after power loss/return.
- Over-temperature alarm, temperature deviation alarm, and over-current protection.
- Independent over-temperature limit controller for added safety.

Convenience

- **Easy Cleaning:** Mirror-polished stainless-steel inner chamber with curved inner angles simplifies cleaning and maintenance.
- **Efficient Design:** Anti-skid shelf design ensures safety and ease during sample handling.
- **Data Port:** USB port for convenient data collection and storage.

Technical Specifications

Feature	Details
Stackable	Yes
Internal Volume	1.8 cu ft (50 liters)
Temperature Range	Ambient+10°C to 300°C (572°F)

Feature	Details
Uniformity at 100°C	±3.0°C
Temperature Stability	±0.5°C
Display Resolution	0.1°C
Maximum # of Shelves	6
Test Hole Diameter	Ø5mm
Max. Load per Shelf	44.1 lb (20 kg)
Internal Dimensions (WxHxD)	15.8 × 14.9 × 13.0 inches (400 × 380 × 330 mm)
External Dimensions (WxHxD)	27.2 × 25.2 × 18.4 inches (690 × 640 × 468 mm)
Net Weight	99.2 lb (45 kg)
Timer	00:01 ~ 99:59 hh:mm
Electrical Requirements	220V, 60Hz
Power Consumption	1600W
Number of Shelves	2