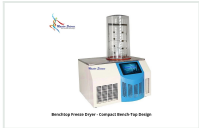
# Benchtop Freeze Dryer - Laboratory Lyophilizer - Condenser -60°C - 3 kg/24h, Touch Screen

Model **MSLYO60B-1SSWISS, MSLYO60B-1PSWISS, MSLYO60B-1TSWISS, MSLYO60B-1PTSWISS** | Brand **Master Science**









The Master Science Benchtop Freeze Dryer removes water from samples by freezing them and subliming the ice under vacuum, with a condenser that reaches -60°C. It is used to freeze-dry vaccines, bacteria, medicines, food and heat-sensitive substances such as antibiotics, blood products, hormones and enzymes.

### KEY HIGHLIGHTS

- Clear process monitoring
- Data export
- Independent pre-freezing
- Fast cooling

### AT A GLANCE

**-60°C**
CONDENSER TEMPERATURE

**6.5 L, Ø215 × 190 mm**
CONDENSER CAPACITY

**3 kg / 24 h**
ICE CONDENSING CAPACITY

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

support@themsci.com
www.themsci.com

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## Overview

A 7-inch colour touch panel shows sample temperature, condenser temperature and vacuum both as numbers and curves, and data can be exported by USB. Four configurations of the Master Science Benchtop Freeze Dryer are available: standard chamber, standard chamber with 8-port manifold, stoppering chamber, and stoppering chamber with manifold.

Heat drying can destroy sensitive biological samples. The Master Science Benchtop Freeze Dryer helps with:

## Key Benefits

**Clear process monitoring**
Touch panel displays temperatures and vacuum as values and curves.

**Data export**
USB interface for record keeping.

**Independent pre-freezing**
Large stainless steel condenser without coils.

**Fast cooling**
High-performance compressor in a cascade refrigeration system.

For frozen sample storage, see our -86°C ultra-low temperature freezer.

## Technical Specifications

| GENERAL | |
|---|---|
| Brand | Master Science |
| Model Number | MSLYO60B-1SSWISS, MSLYO60B-1PSWISS, MSLYO60B-1TSWISS, MSLYO60B-1PTSWISS |
| SKU | MSLYO60B-1SSWISS, MSLYO60B-1PSWISS, MSLYO60B-1TSWISS, MSLYO60B-1PTSWISS |
| Brand | Master Science |
| Models | MSLYO60B-1SSWISS (standard), MSLYO60B-1PSWISS (standard + 8-port manifold), MSLYO60B-1TSWISS (stoppering), MSLYO60B-1PTSWISS (stoppering + manifold) |
| SKU | MSLYO60B-1SSWISS, MSLYO60B-1PSWISS, MSLYO60B-1TSWISS, MSLYO60B-1PTSWISS |
| Freeze Drying Area | Standard: 0.12 m²; stoppering: 0.09 m² |
| Trays | Standard: 4 (6 optional); stoppering: 3; Ø200 × 20 mm |
| Condenser Temperature | -60°C |
| Condenser Capacity | **6.5 L, Ø215 × 190 mm** |
| Vacuum (no load) | ≤ 5 Pa |
| Ice Condensing Capacity | **3 kg / 24 h** |
| Loading Capacity | **300 ml per shelf; total 1200 ml (standard) / 900 ml (stoppering)** |
| Vial Capacity | **Ø22: 260 / 195; Ø16: 480 / 360; Ø12: 920 / 690** |
| Drying Chamber | Lower Ø260 mm, upper Ø240 mm, height 450 mm |
| Refrigerant | CFC-free |

| POWER | |
|---|---|
| Power | 0.85 kW |
| Power Supply | AC 220 V, 50 Hz |

| DIMENSIONS & WEIGHT | |
|---|---|
| External Dimensions | 600 × 540 × 374 mm (main unit) |

| PROBLEMS THE MASTER SCIENCE BENCHTOP FREEZE DRYER SOLVES | |
|---|---|
| Heat damage to samples | Water is removed by sublimation at low temperature. |
| Hard-to-track drying | Real-time curves show the whole process. |
| Lost records | USB export keeps data for documentation. |
| Limited bench space | A compact benchtop footprint. |

## Applications

**The Master Science Benchtop Freeze Dryer is used for**
Freeze-drying laboratory biomedical samples Vaccines, bacteria and biological products Antibiotics, hormones, enzymes and blood products Food and chemical samples Pharmaceutical research

## Control

- 7-inch colour touch panel
- Sample and condenser temperature, vacuum display with curves
- USB data export

## Refrigeration and Vacuum

- Condenser -60°C
- Cascade refrigeration with high-performance compressor
- Vacuum ≤ 5 Pa
- CFC-free refrigerant

## Construction

- Stainless steel coil-free condenser
- Stainless steel operation panel
- Transparent drying chamber
- Compact bench-top footprint

## Standard Accessories Included

- Vacuum pump 2 L/s (8 $m^3$/h)
- Material trays and rack
- PMMA drying chamber cover
- 500 ml conical flasks × 8 and switch valves × 8 (manifold models)

## Optional Accessories

- Electric condenser defrost
- 800 ml wide-mouth flasks (manifold models)