Floor Freeze Dryer - Vertical Laboratory Lyophilizer - Condenser -60°C or -80°C - 4 kg/24h

Model **MSLYO60V-1SSWISS, MSLYO60V-1PSWISS, MSLYO60V-1TSWISS, MSLYO60V-1PTSWISS, MSLYO80V-1SSWISS, MSLYO80V-1PSWISS, MSLYO80V-1TSWISS, MSLYO80V-1PTSWISS** | Brand **Master Science**











The Master Science Floor Freeze Dryer is a mobile, floor-standing lyophilizer on castors for laboratories that need more condenser capacity than a benchtop unit. It is offered with a -60°C or -80°C condenser, a 9.5 L stainless steel coil-free condenser and an ice capacity of 4 kg per 24 hours.

KEY HIGHLIGHTS

- Two condenser options
- More capacity
- Mobile
- Clear records
- For smaller sample loads, see our benchtop freeze dryer.

AT A GLANCE

-60°C or -80°C
CONDENSER TEMPERATURE

9.5 L, Ø217 × 250 mm
CONDENSER CAPACITY

4 kg / 24 h
ICE CONDENSER CAPACITY

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

A 7-inch colour touch panel shows sample temperature, condenser temperature and vacuum as numbers and curves, with USB data export. Each condenser version of the Master Science Floor Freeze Dryer comes in four configurations: standard chamber, standard with 8-port manifold, stoppering chamber, and stoppering with manifold.

Benchtop units can run out of condenser capacity for larger batches. The Master Science Floor Freeze Dryer helps with:

Key Benefits

Two condenser options
Choose a -60°C or -80°C condenser to suit your samples.

More capacity
9.5 L condenser and 4 kg/24 h ice capacity.

Mobile
Floor-standing unit on castors.

Clear records
Touch panel curves and USB export.

For smaller sample loads, see our benchtop freeze dryer.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSLYO60V-1SSWISS, MSLYO60V-1PSWISS, MSLYO60V-1TSWISS, MSLYO60V-1PTSWISS, MSLYO80V-1SSWISS, MSLYO80V-1PSWISS, MSLYO80V-1TSWISS, MSLYO80V-1PTSWISS
SKU	MSLYO60V-1SSWISS, MSLYO60V-1PSWISS, MSLYO60V-1TSWISS, MSLYO60V-1PTSWISS, MSLYO80V-1SSWISS, MSLYO80V-1PSWISS, MSLYO80V-1TSWISS, MSLYO80V-1PTSWISS
Brand	Master Science
Models	MSLYO60V-1S/1P/1T/1PTSWISS (-60°C), MSLYO80V-1S/1P/1T/1PTSWISS (-80°C)
SKU	MSLYO60V-1SSWISS, MSLYO60V-1PSWISS, MSLYO60V-1TSWISS, MSLYO60V-1PTSWISS, MSLYO80V-1SSWISS, MSLYO80V-1PSWISS, MSLYO80V-1TSWISS, MSLYO80V-1PTSWISS
Configurations	S: standard chamber; P: standard + 8-port manifold; T: stoppering chamber; PT: stoppering + 8-port manifold
Freeze Drying Area	S/P: 0.12 to 0.18 m²; T/PT: 0.09 m²
Trays	S/P: 4 layers standard, up to 6 optional; T/PT: 3; Ø200 × 20 mm
Condenser Temperature	-60°C or -80°C
Condenser Capacity	**9.5 L, Ø217 × 250 mm**
Vacuum (no load)	≤ 5 Pa
Ice Condenser Capacity	**4 kg / 24 h**
Loading Capacity	**300 ml per shelf; total 1200-1800 ml (S/P) / 900 ml (T/PT)**
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	0.95 kW (-60°C) / 1.5 kW (-80°C)
Power Supply	AC 220 V, 50 Hz

DIMENSIONS & WEIGHT	
External Dimensions	480 × 610 × 905 mm (main unit)
Not enough cooling depth	An optional -80°C condenser version is available.

PROBLEMS THE MASTER SCIENCE FLOOR FREEZE DRYER SOLVES	
Condenser overload	A 9.5 L condenser and 4 kg/24 h capacity handle larger loads.
Stoppering vials under vacuum	Stoppering chamber models seal vials in place.
Moving equipment	Castors make relocation easy.

Applications

The Master Science Floor Freeze Dryer is used for
Freeze-drying biomedical laboratory samples Vaccines, antibiotics and blood products Hormones and biological tissue enzymes Pharmaceutical, chemical and food research Pilot testing before production

Control

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

Refrigeration and Vacuum

- Cascade refrigeration, high cooling efficiency
- Condenser -60°C or -80°C
- Vacuum ≤ 5 Pa
- CFC-free refrigerant

Construction

- Stainless steel coil-free condenser for independent pre-freezing
- Stainless steel operation panel
- Transparent drying chamber
- Floor-standing on castors

Standard Accessories Included

- Vacuum pump 2 L/s (8 m³/h)
- Material trays and rack
- PMMA drying chamber cover
- Nitrogen gas filling valve
- Oil mist filter

Optional Accessories

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