-40°C Upright Freezer 528 L, Dual Chamber Low Temperature Lab Freezer, -20 to -40°C

Model **MSLF40-530SWISS** | Brand **Master Science**









The Master Science -40°C Upright Freezer provides 528 L of storage at -20 to -40°C for biological samples, reagents and other materials that need deep-cold conditions. One refrigeration unit controls the upper and lower chambers independently, and each chamber has its own inner door to limit cold loss when the outer door opens.

KEY HIGHLIGHTS

- Two zones in one cabinet
- Stable temperature
- Clear sample organisation
- Protects your samples

AT A GLANCE

-20 to -40°C (at ambient 10-32°C)
TEMPERATURE RANGE

528 L (18.64 cu.ft)
CAPACITY

452 W
POWER CONSUMPTION

Inner doors on each chamber hold the cold in.
TEMPERATURE SWINGS WHEN THE DOOR OPENS

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

support@themsci.com
www.themsci.com

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Overview

A microprocessor controller with an LED digital display sets temperature in 0.1-1°C steps, while multiple alarms, a USB port, a remote alarm port and lockable casters support safe daily use.

For storage at -25°C, see our -25°C Biomedical Freezer, 358 L as a companion to the -40°C Upright Freezer.

Key Benefits

Two zones in one cabinet
Upper and lower chambers are controlled independently from one refrigeration unit.

Stable temperature
Independent inner doors reduce cold loss and keep conditions steady.

Clear sample organisation
4 shelves and 18 drawers make it easy to sort and find samples.

Protects your samples
Audible and visual alarms warn of temperature, sensor and power problems.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSLF40-530SWISS
SKU	MSLF40-530SWISS
Capacity	**528 L (18.64 cu.ft)**
Temperature Range	**-20 to -40°C (at ambient 10-32°C)**
Sensor	NTC
Controller	Microprocessor
Refrigerant	R290 (CFC-free)
Defrost	Manual
Compressors	2
Alarms	High/low temperature, high ambient temperature, sensor error
Interior / Exterior Material	Powder-coated steel
Test Holes	2 x 25 mm
Shelves / Drawers	4 shelves, 18 drawers
Noise	55 dB

DIMENSIONS & WEIGHT

Internal Dimensions (W x D x H)	651 x 631.5 x 635 mm x 2 chambers
External Dimensions (W x D x H)	900 x 818 x 1875 mm
Net / Gross Weight	192 / 212 kg
Package Dimensions (W x D x H)	980 x 930 x 2020 mm

DISPLAY & DATA

Display	Digital display
USB Port / Casters / Remote Alarm Port	Standard

POWER

Power Failure Alarm Backup	8 h
Power Supply	AC 110/220 V ±10%, 50/60 Hz
Power Consumption	452 W

HOW IT HELPS WITH COLD STORAGE CHALLENGES

Temperature swings when the door opens	Inner doors on each chamber hold the cold in.
Unnoticed freezer failures	Multiple alarms with sound and light, plus a remote alarm port, alert staff quickly.
Damage after power cuts	A start-delay function protects the compressors when power returns.
Disorganised storage	Shelves and 18 drawers keep samples sorted.

The -40°C Upright Freezer is suitable for

- **Hospital and clinical laboratories**
- **Research institutes and universities**
- **Pharmaceutical and biotech laboratories**
- **Storage of reagents and biological samples at -20 to -40°C**

Control

- Microprocessor control, adjustable from -40 to -20°C
- LED digital display with 0.1-1°C setting increments
- Start-delay function protects the unit when power returns after an outage
- Wide voltage tolerance, 187-242 V AC

Refrigeration and Insulation

- Optimised refrigeration layout for cooling effect and temperature uniformity
- CFC-free R290 refrigerant
- High-density CFC-free urethane foam insulation
- Permanently lubricated cooling fan

Safety and Convenience

- Alarms for high/low temperature, sensor error, power failure, controller fault and door ajar
- Audible buzzer and flashing light alarm
- Built-in door lock
- USB port and remote alarm port
- Lockable casters
- Corrosion-resistant interior

Standard Accessories Included

- 4 shelves
- 18 drawers
- USB port
- Casters
- Remote alarm port

Optional Accessories

- USB data logger / temperature recorder