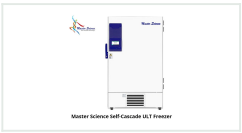
-86°C ULT Freezer - Self-Cascade Ultra Low Freezer - 58 to 838 L - Wide Voltage

Model **MSULF86-60ESWISS, MSULF86-190ESWISS, MSULF86-340ESWISS, MSULF86-410ESWISS, MSULF86-590ESWISS, MSULF86-730ESWISS, MSULF86-840ESWISS** | Brand **Master Science**







The Master Science Self-Cascade ULT Freezer keeps samples between -40 and -86 °C using a self-cascade refrigeration system with HC refrigerant. It is available in seven sizes, from a compact 58 L unit to an 838 L upright cabinet, to fit both small labs and biobanks.

KEY HIGHLIGHTS

- Sizes from benchtop to biobank
- Tolerates poor power
- Energy saving
- Fewer surprises
- Organised storage

AT A GLANCE

-40 to -86 °C (ambient 10 to 32 °C)
TEMPERATURE RANGE

187 to 242 V
OPERATING VOLTAGE RANGE

58 / 188 / 340 / 408 / 588 / 728 / 838 L
CAPACITY

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

The freezer runs on supply voltages from 187 to 242 V, which suits sites with unstable power, and works in rooms from 10 to 32 °C.

> For a dual-compressor cascade model, see the Master Science -86°C ultra low temperature freezer.

Key Benefits

Sizes from benchtop to biobank
the Master Science Self-Cascade ULT Freezer runs from 58 to 838 L.

Tolerates poor power
operates from 187 to 242 V.

Energy saving
VIP panels, special door seal and HC refrigerant.

Fewer surprises
multiple alarms with remote contacts and 72 h backup.

Organised storage
insulated inner doors and adjustable shelves.

Technical Specifications

GENERAL

General	Specifications of the Master Science Self-Cascade ULT Freezer range (60E to 840E):
Brand	Master Science
Model Number	MSULF86-60ESWISS, MSULF86-190ESWISS, MSULF86-340ESWISS, MSULF86-410ESWISS, MSULF86-590ESWISS, MSULF86-730ESWISS, MSULF86-840ESWISS
SKU	MSULF86-60ESWISS, MSULF86-190ESWISS, MSULF86-340ESWISS, MSULF86-410ESWISS, MSULF86-590ESWISS, MSULF86-730ESWISS, MSULF86-840ESWISS
Brand	Master Science
Model Numbers	MSULF86-60ESWISS, MSULF86-190ESWISS, MSULF86-340ESWISS, MSULF86-410ESWISS, MSULF86-590ESWISS, MSULF86-730ESWISS, MSULF86-840ESWISS
SKU	MSULF86-60ESWISS, MSULF86-190ESWISS, MSULF86-340ESWISS, MSULF86-410ESWISS, MSULF86-590ESWISS, MSULF86-730ESWISS, MSULF86-840ESWISS
Capacity	**58 / 188 / 340 / 408 / 588 / 728 / 838 L**
Temperature Range	**-40 to -86 °C (ambient 10 to 32 °C)**
Sensor	PT100
Controller	Microprocessor; digital display (60E), LCD (other models)
Refrigeration	Self-cascade, HC refrigerant
Compressor	SECOP × 1 (60E, 340E, 410E); CUBIGEL × 1 (190E); SECOP × 2 (590E, 730E, 840E)
Insulation	VIP vacuum insulation panels
Defrost	Manual
Alarms	High/low temperature, high ambient, sensor error, abnormal voltage, low battery, power failure (72 h backup), door ajar
Materials	304 stainless steel interior and inner doors; powder-coated steel exterior
Shelves	1 / 2 / 3 / 3 / 3 / 3 / 3
Test Ports	2 × Ø25 mm
Rack Capacity	**36 to 600 two-inch boxes (3600 to 60000 × 2 mL tubes)**
Noise	50 to 55 dB

POWER

Operating Voltage Range	**187 to 242 V**
Power Supply	AC 110 or 220 V ±10 %, 50/60 Hz
Power Consumption	442 / 660 / 810 / 890 / 1500 / 1400 / 1700 W

DIMENSIONS & WEIGHT

Internal Dimensions (W × D × H)	330 × 453 × 410 / 465 × 465 × 830 / 488 × 607 × 1140 / 606 × 575 × 1180 / 606 × 738 × 1310 / 963 × 571 × 1350 / 894 × 718 × 1310 mm
Net Weight	115 / 207 / 268 / 268 / 283 / 316 / 332 kg

HOW THE MASTER SCIENCE SELF-CASCADE ULT FREEZER HELPS	
Voltage fluctuations	wide 187 to 242 V operating range.
No space for a large freezer	58 L and 188 L models.
Frost inside the cabinet	inner door compartments.
Missed alarms	audible, visual and remote alarm outputs.

Applications

The Master Science Self-Cascade ULT Freezer is used to store: Plasma and biological samples Vaccines and biological products Reagents and chemical reagents Microbial strains Samples in labs with unstable power supply

Refrigeration

- Self-cascade system
- HC refrigerant
- SECOP or CUBIGEL compressors

Control and Safety

- Microprocessor with settable alarms
- Clean-filter and sensor alerts
- USB data port on upright models

Cabinet

- VIP insulation
- Insulated inner doors
- Castors and 2 test ports

Optional Accessories

- Temperature data logger
- Freezer racks and storage boxes
- LN2 backup system