



LABORATORY FREEZER

Minus40

LAB1000SMF



LAB1000SMF Laboratory Freezer

The LAB1000SMF is a 1000-litre upright laboratory freezer designed for reliable, hygienic, and energy-efficient storage of temperature-sensitive materials. With stainless steel construction, adjustable shelves, advanced cooling performance, and PLC-controlled temperature regulation, it is suitable for medical, research, and public health environments.

Key Features

- * **1000L high-capacity upright design** ideal for hospitals, laboratories, and public health facilities
- * **Stainless steel** build for hygiene, durability, and easy cleaning
- * **Precise 0°C to -20°C temperature control** with rapid cooling
- * **PLC-based digital controller with Bluetooth®** for accurate monitoring, configuration, and data access
- * **Fan-assisted cooling system** ensuring uniform temperature distribution throughout the cabinet
- * **Automatic defrost** with ambient-optimised cycles for consistent, maintenance-friendly operation
- * **Dual self-closing, lockable solid doors** enhancing security, cold retention, and energy efficiency
- * **Built-in voltage protection and full alarm suite** (temperature, condenser, door) for reliable performance
- * **OPTIONAL ADD-ON: Controller backup battery** to ensure controller remains active during power outages



1000L
Capacity



0°C to -20°C
Range



220V AC
50Hz



Voltage
Protection



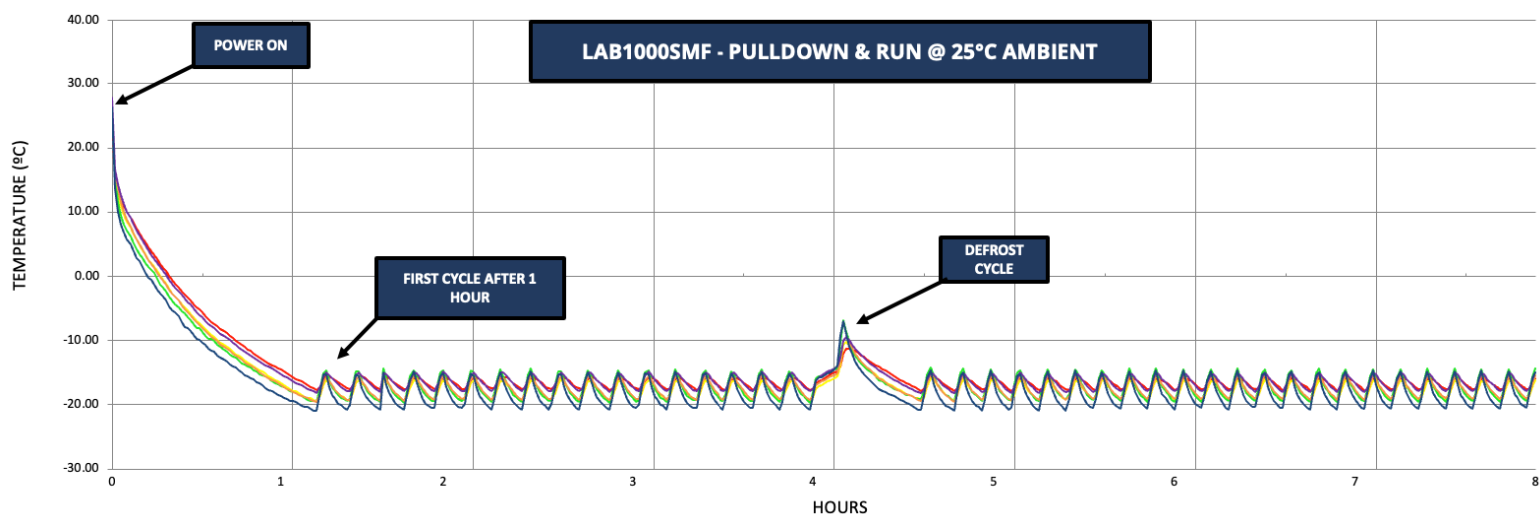
Stainless
Steel



A/V
Alarms

Performance Data Graph

The LAB1000SMF maintains temperature in ambient conditions of 25°C.



Minus40 (Pty) Ltd

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*Precision Cooling For
Critical Healthcare
Environments*

LABORATORY FREEZER

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Construction

External material	Stainless steel
Internal material	Stainless steel
Insulation	CFC-free high-density foam insulation 50mm thickness
Shelves	6 x adjustable shelves 4 x fixed sliding drawers
Door type	Solid, self-closing, hinged door
Door lock	2 x lockable doors
Lighting	Internal LED lighting
Light switch	Auto light switch
Probe hole	Comes with a pre-fitted independent temperature monitoring probe hole
Feet / base of unit	Rectangular base with durable castor wheels (2 x swivel with brakes; 2 x swivel)

Refrigeration

Compressor(s)	1 compressor
Cooling method	Fan-assisted cooling
Defrost mode	Automatic defrost
Refrigerant	R290

Model

Model name	LAB1000SMF Laboratory Freezer
Cabinet type	Upright
Capacity	1000L

Performance

Temperature range	0°C to -20°C
Max ambient temperature	25°C
Controller(s)	1 digital controller with LED display and Bluetooth® OPTIONAL ADD-ON: backup battery during power outages

Dimensions

External dimensions (H x W x D) mm	2015 x 1220 x 700
Internal dimensions (H x W x D) mm	1543 x 1120 x 600
Weight	174kg

Electrical

Voltage	220V AC / 50Hz
Rated power supply	3.8A
Electrical protection	Built-in voltage protector
Energy rating	B

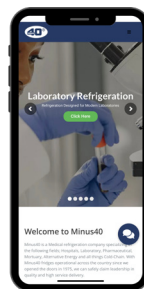
Alarms

Temperature alarm	Audible and visual alarm for temperatures outside of range
Other alarms	Audible and visual alarms for dirty condenser and open door

Minus40 Service Level Agreements

As with all Minus40 products, the LAB1000SMF comes with our trusted service warranty, ensuring long-term reliability. For enhanced performance and extended lifespan, consider our annual service agreement, designed to keep your medical refrigeration systems in top condition. Make sure to discuss this with one of our sales representatives!

Scan To View Our Online Instructional Videos



SAHPRA
South African
Health Products
Regulatory Authority



MEDICAL DEVICES
QUALITY MANAGEMENT
ISO 13485:2016 CERTIFIED

*The parameters and performance specified in this brochure may be changed without prior notice, due to product upgrading.

**There may be differences between the product images shown in this brochure and the actual products received.

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