Single Door Blood Bank Refrigerator 108 L, 4°C ±1°C, 66 Blood Bags, Heated Glass Door

Model **MSBR4-110SWISS** | Brand **Master Science**





The Master Science Single Door Blood Bank Refrigerator is a professional cabinet for storing blood as well as medicines and biological products in blood banks, hospitals and disease control centres. It holds 4°C ±1°C and has room for 66 blood bags of 450 mL in a 108 L, 304 stainless steel chamber.

KEY HIGHLIGHTS

- Tight blood storage temperature
- Records on paper
- Alarms that keep working
- Less cold loss

AT A GLANCE

4 ±1°C (ambient 10-32°C)
TEMPERATURE RANGE

108 L (3.81 cu.ft)
CAPACITY

The built-in thermal printer keeps a paper record.
MISSING TEMPERATURE RECORDS

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

support@themsci.com
www.themsci.com

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Overview

Microprocessor-controlled forced-air cooling with electrical heat compensation keeps the cabinet stable, and separate digital readouts show the upper and lower sections to 0.1°C. A heated, foamed glass outer door and two acrylic inner doors limit temperature loss during access.

> For medicines at 2-8°C, see our Single Door Pharmacy Refrigerator, 316 L, alongside the Single Door Blood Bank Refrigerator.

Key Benefits

Tight blood storage temperature
4 ±1°C with forced-air cooling and heat compensation.

Records on paper
Built-in thermal printer for temperature records.

Alarms that keep working
Backup battery runs the display and alarms for up to 72 hours without mains power.

Less cold loss
Acrylic inner doors reduce temperature change when the outer door is opened.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSBR4-110SWISS
SKU	MSBR4-110SWISS
Capacity	**108 L (3.81 cu.ft)**
Blood Bags (450 mL)	66
Temperature Range	**4 ±1°C (ambient 10-32°C)**
Cooling	Forced-air cooling
Defrost	Auto
Refrigerant	R134a (CFC-free)
Compressor	1
Sensor	NTC
Controller	Microprocessor
Shelves	2
Noise	49.6 dB(A)
Interior Material	304 stainless steel
Exterior Material	Cold-rolled steel with anti-bacterial powder coating
Insulation	PURF
Alarms	High/low temperature, power off, controller malfunction, backup battery malfunction
Outer Door	1, heated foamed glass door
Inner Doors	2
Test Hole	1 x 25 mm

DISPLAY & DATA

Display	Digital display
Thermal Printer / Casters / LED Light	Standard

POWER

Power Consumption	1.95 kWh/24 h
Power Supply	220 V, 50 Hz, 175 W, 1 A
Power Failure Alarm Backup	72 h

DIMENSIONS & WEIGHT

Exterior Size (W x D x H)	540 x 630 x 1030 mm
Interior Size (W x D x H)	432 x 462 x 478 mm
Net / Gross Weight	74 / 95 kg
Package Size (W x D x H)	700 x 585 x 1200 mm

RISKS IN BLOOD STORAGE THAT THIS UNIT ADDRESSES	
Blood units outside 4°C	Forced-air cooling with heat compensation holds 4 ±1°C.
Power cuts go unnoticed	Battery-backed alarms run for up to 72 hours.
Missing temperature records	The built-in thermal printer keeps a paper record.
Unauthorised access to blood stock	Safety lock on the door.

The Single Door Blood Bank Refrigerator is used in

- **Blood banks and blood stations**
- **Hospital transfusion services**
- **Disease control centres**
- **Storage of medicines and biological products**

Temperature Control

- Microprocessor-controlled forced-air cooling
- Electrical heat compensation
- Digital readouts for upper and lower sections with 0.1°C resolution
- Auto defrost
- Integrated sensors for display and control

Safety

- Audible buzzer and flashing light alarms
- Alarms for high/low temperature, power failure, abnormal voltage, door ajar and backup battery
- Backup battery for up to 72 hours of display and alarm operation
- Safety lock against unauthorised access

Storage and Design

- 304 stainless steel chamber
- Heated foamed glass outer door
- Two acrylic inner doors
- Storage layout for sorting different blood products
- Thermal printer, LED light and casters

Standard Accessories Included

- 2 shelves
- Thermal printer
- Casters
- LED interior light

Optional Accessories

- Temperature data logger