Double Door Blood Bank Refrigerator 658 L and 1008 L, 4°C ±1°C, 360-576 Blood Bags

Model **MSBR4-660SWISS,MSBR4-1000SWISS** | Brand **Master Science**







The Master Science Double Door Blood Bank Refrigerator stores and protects whole blood, blood components and blood products, as well as medicines and biological products, at a uniform 4°C ±1°C. Two sizes are available: 658 L for 360 blood bags of 450 mL, and 1008 L for 576 bags.

KEY HIGHLIGHTS

- High blood bag capacity
- Uniform 4°C storage
- Alarms during outages
- Printed temperature records

AT A GLANCE

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

Holds 360 or 576 bags of 450 mL.
LIMITED CAPACITY FOR BLOOD UNITS

658 L (23.23 cu.ft) / 1008 L (35.59 cu.ft)
CAPACITY

Inner acrylic doors reduce cold loss.
TEMPERATURE DRIFT WHEN DOORS OPEN

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

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Overview

Microprocessor-controlled forced-air cooling with electrical heat compensation and separate upper and lower readouts at 0.1°C resolution keep conditions under control, while two heated foamed glass doors and six acrylic inner doors limit cold loss during access.

For smaller blood stocks, see our Single Door Blood Bank Refrigerator, 108 L, a compact version of the Double Door Blood Bank Refrigerator.

Key Benefits

High blood bag capacity
Up to 576 bags of 450 mL in the 1008 L model.

Uniform 4°C storage
Forced-air cooling with heat compensation keeps 4 ±1°C.

Alarms during outages
Backup battery keeps display and alarms running for up to 72 hours.

Printed temperature records
A thermal printer comes as standard.

Technical Specifications

GENERAL

General	Specifications of the Double Door Blood Bank Refrigerator (658 L / 1008 L):
Brand	Master Science
Model Number	MSBR4-660SWISS,MSBR4-1000SWISS
SKU	MSBR4-660SWISS,MSBR4-1000SWISS
Capacity	**658 L (23.23 cu.ft) / 1008 L (35.59 cu.ft)**
Blood Bags (450 mL)	360 / 576
Temperature Range	**4 ±1°C (ambient 10-32°C)**
Cooling	Forced-air cooling
Defrost	Auto
Refrigerant	R134a
Compressor	1
Sensor	NTC
Controller	Microprocessor
Noise	51.2 / 53.6 dB(A)
Interior Material	304 stainless steel
Exterior Material	Colour-sprayed steel
Insulation	PURF
Alarms	High/low temperature, power off, controller malfunction, backup battery malfunction
Outer Doors	2, heated foamed glass
Inner Doors	6
Test Hole	1 x 25 mm

DISPLAY & DATA

Storage	658 L: 12 shelves; 1008 L: 12 drawers
Display	Digital display
Thermal Printer / Casters / LED Light	Standard

POWER

Power Consumption	6.31 / 8.53 kWh/24 h
Power Supply	220 V, 50 Hz; 364 W / 513 W
Power Failure Alarm Backup	72 h

DIMENSIONS & WEIGHT

Exterior Size (W x D x H)	1220 x 640 x 1885 mm / 1240 x 860 x 1895 mm
Interior Size (W x D x H)	1100 x 454 x 1325 mm / 1100 x 684 x 1325 mm
Net / Gross Weight	202 / 257 kg; 265 / 335 kg

HOW IT SUPPORTS SAFE BLOOD STORAGE	
Limited capacity for blood units	**Holds 360 or 576 bags of 450 mL.**
Temperature drift when doors open	Inner acrylic doors reduce cold loss.
Alarms lost in a power cut	Battery backup keeps alarms active for 72 hours.
Incomplete temperature logs	Built-in thermal printer records data.

The Double Door Blood Bank Refrigerator is used in

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

Temperature Control

- Microprocessor-controlled forced-air cooling
- Electrical heat compensation
- Upper and lower section readouts at 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
- Battery-backed display and alarms for up to 72 hours
- Safety lock against unauthorised access

Storage and Design

- 304 stainless steel chamber
- Two heated foamed glass outer doors
- Six acrylic inner doors
- Layout designed for sorting blood products
- Thermal printer, LED lighting and casters

Standard Accessories Included

- Shelves (658 L) or drawers (1008 L)
- Thermal printer
- Casters
- LED interior light

Optional Accessories

- Chart recorder