



MD-40L850B



Reliable Sample Storage

High temperature uniformity;
Imported world-famous components.



Double Door Design

Four independent inner door design reduce heat loss.



Multi-level Alarms

High, low temperature, sensor error, power failure,
high ambient alarm, door open alarm.



Fast Cooling

High efficiency cooling fans and compressors.

Structure Features

1 Multi-layer Sealing Structure

Multi-layers gaskets provide a tight seal between the inner doors and outer door, reducing heat exchange and retaining the inner temperature better when there is power failure.

2 VIP PLUS Design

Provides up to 30% more storage capacity than a conventionally insulated freezer, without increasing the footprint. A glass fibre core provides advanced thermal properties.

3 USB Port

Enables users to download historical temperature data for compliance/auditing purposes.

4 LED Display

Alarm functions include high, low temperature, sensor error, power failure, high ambient alarm, door open alarm etc.



5 Lever Handle Design

Ingenious handle design helps you to open and close door easier. Lockable handle safeguards your precious samples. Padlock can also be added for extra sample safety.

6 Relief Ports

It allows users to re-open the main door quickly when entering, rust-proof, freeze-free.

7 Narrow Door Design

The freezer can pass through a 750mm wide door when the door is open.

Application, Rating, & Electrical Data	
Application	Biomedical freezer
Storage Volume (L/Cu.Ft)	850/30.01
Temperature Range	-20 C ~-40 C
Default Set Point	-30 C
Power	220~240V~/50Hz/60Hz
Current	3.3A
Power Cord Length	1.7m
Certification	CE
Door type	Solid door
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	10°C-32°C

Refrigeration	
Refrigeration System	Direct cooling
Compressor	Hermetic, Inverter
Condenser Type	Built in + micro channel condenser
Expansion Device	Capillary tube
Evaporator Type	Shelf evaporator
Defrost Method	Manual defrost
Refrigerant	R290

Controller / Configuration Settings	
Display screen	LED
Controller Type	Microprocessor
Security	Lockable door, protected settings
Control Sensor	PT1000
Communication Ports	USB, Remote alarm contacts
Power Failure Alarm	Yes
High/Low Alarms	Yes, fully adjustable
Door Ajar Alarm	Yes
Download	Yes, via USB, PDF
Temperature Log	Yes, download via USB

Performance Characteristics (normal operating conditions)	
Uniformity (°C)	≤3 C
Energy consumption (kWh/day)	3.6
Noise emission (dB)	65
Pull-down time to -40°C (min)	220.8

Typical Temperature Map

Fre	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-39.41	-39.54	-39.59	-40.55	-40.96	-40.63	-40.09	-41.48	-40.86
Max	-33.50	-33.60	-33.60	-34.20	-34.60	-34.60	-34.00	-34.80	-34.10
Min	-44.10	-44.30	-44.40	-45.60	-46.10	-45.50	-45.00	-46.90	-46.30

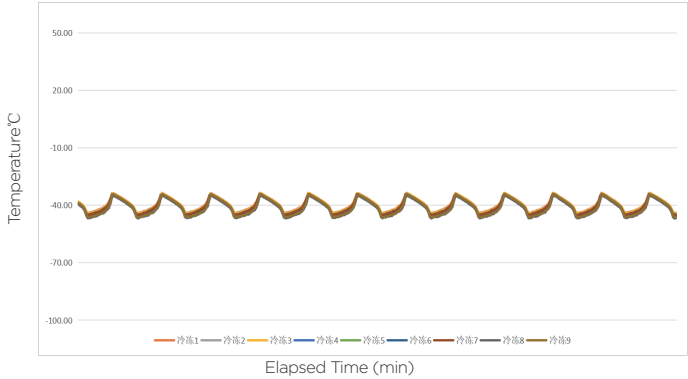
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Dimensions and Construction	
Interior (w*d*h)	885*720*1310 mm
Exterior (w*d*h)	1175*995*1980 mm
Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
Racks (tiers*columns)	5*5(24)
Wheels	4 Swivel Casters + 2 Leveling Feet
Net Weight	239 kg
Gross Weight	308 kg

All performance data from 850L biomedical freezer, 25 ambient, -40°C

Uniformity



Cooling Speed

