-25℃ Biomedical Freezer

Midea Biomedical

MD-25L308

Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1℃.

Super & Even Cooling

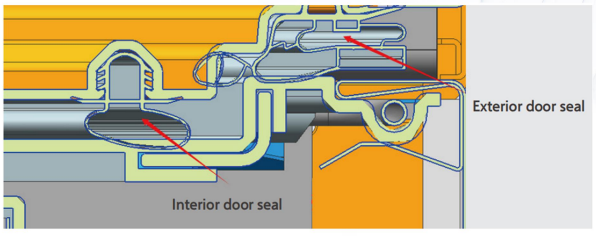
Rapid Cooling(25°C→-25°C):90mins(115~V/60Hz) | 150mins(220-240~V/50Hz)| 90mins(220-240~V/60Hz) & ≤3.5 Uniformity.

Eco-Cool Refrigerant

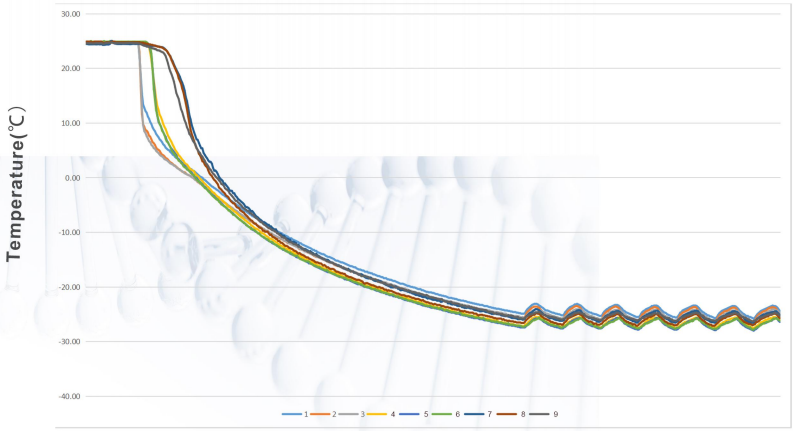
R290 (natural hydrocarbon, low-GWP) refrigerant ensures zero ozone depletion and lower climate impact .

LCD Temperature Control Systems

Three-dimensional seal



Cooling Speed(Ambient 25℃)



Safety Lock

Lockable door with key

USB Interface

RS-485(Optional)

Low Noise

60dB(A) 115~V/60Hz
46dB(A) 220-240~V/50Hz
48dB(A) 220-240~V/60Hz

Multiple Alarms

Audible & Visual Alarms, Remote Alerts, High/Low Temperature Warnings, Door Ajar Detection, Power Failure Alert, Ambient Temperature Deviation, and Sensor Malfunction Monitoring

Backup Battery

Maintains alarms for 20 hours during power failure

Wheels

4 Swivel Casters + 2 Leveling Feet

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Technical Data Sheet
High-Performance, Biomedical Freezer
Model: MD-25L308

Application, Rating, & Electrical Data

Application	Biomedical freezer
Storage Volume (L/Cu.Ft)	308/10.88
Temperature Range	-10℃~-25℃
Default Set Point	-25℃
Power	115~V/60Hz | 220-240~V/50Hz| 220-240~V/60Hz
Current	3A | 1.18A | 1.3A
Power Cord Length	1.7m
Certification	CE/UL/FDA
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, fixed frequency
Condenser Type	Built in/Built in + micro channel condenser
Expansion Device	Capillary tube
Evaporator Type	Shelf evaporator
Defrost Method	Manual defrost
Refrigerant	R290

Controller / Configuration Settings

Display screen	LCD
Controller Type	Microprocessor
Security	Lockable door, protected settings
Control Sensor	NTC
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 | (℃)	≤3.5℃
Energy consumption | (kWh/day)	1.2 | 1.2 | 1.2
Noise emission | dB(A)	60 | 46 | 48
Pull-down time to -25°C | (min)	90 | 150 | 90

Typical Temperature Map

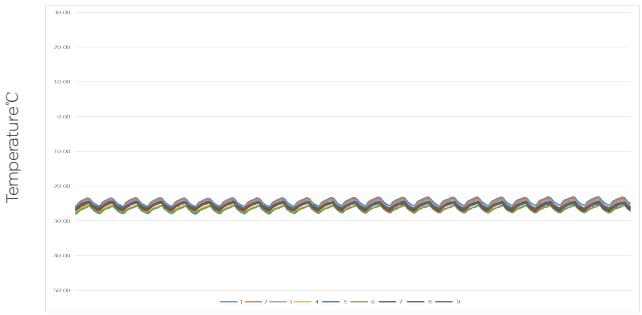
Fre	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-24.59	-24.89	-25.51	-26.29	-26.62	-25.87	-26.12	-26.65	-24.78
Max	-22.30	-22.52	-22.85	-23.63	-23.68	-23.43	-23.63	-24.11	-23.84
Min	-26.50	-26.69	-27.47	-27.94	-28.25	-27.61	-28.33	-28.50	-27.23

Dimensions and Construction

Interior (w*d*h)	540*450*1277 mm
Exterior (w*d*h)	700*690*1920 mm
Access Port	Two test ports, one fitted with a pressure relief valve, cannot be used as test ports. (25 mm diameter)
Shelves	7 | 18 kg max capacity
Wheels	4 Swivel Casters + 2 Leveling Feet
Net Weight	102 kg | 100 kg | 102 kg
Gross Weight	114 kg | 112 kg | 114 kg

All performance data from 308L biomedical freezer, 25 ambient, -25°C

Uniformity



Cooling Speed