-25℃ Biomedical Freezer

Midea Biomedical

Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1℃.



MD-25L106

Super & Even Cooling

90Mins Rapid Cooling(25°C→-25°C)&≤3 Uniformity.

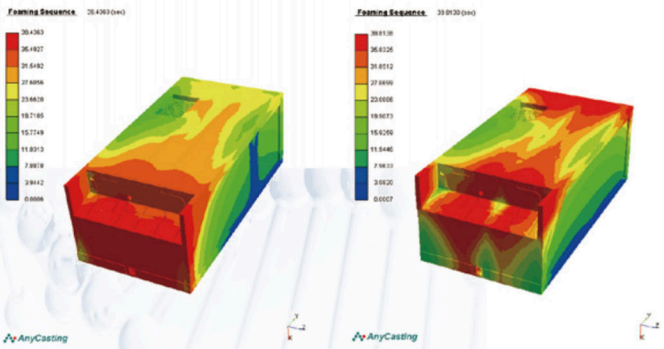
Eco-Cool Refrigerant

R600a/R290 (natural hydrocarbon, low-GWP) refrigerant ensures zero ozone depletion and lower climate impact .

LCD Temperature Control Systems



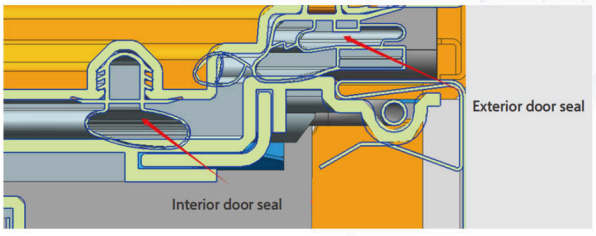
CFC Free Forming Technology



Before Improvement

After Improvement

Three-dimensional seal



Safety Lock

Lockable door with key

USB Interface

RS-485(Optional)

Low Noise

50dB(A) 115~V/60Hz
43dB(A) 220-240~V/50Hz
40dB(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

Midea Biomedical

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Technical Data Sheet
High-Performance, Biomedical Freezer
Model: MD-25L106

Application, Rating, & Electrical Data

Application	Biomedical freezer
Storage Volume (L/Cu.Ft)	106/3.74
Temperature Range	-10℃~-25℃
Default Set Point	-25℃
Power	115~V/60Hz | 220-240~V/50Hz|220-240~V/60Hz
Current	2.5A | 0.7A | 0.7A
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
Expansion Device	Capillary tube
Evaporator Type	Shelf type evaporator
Defrost Method	Manual defrost
Refrigerant	R290 | R600a |R600a

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℃
Energy consumption | (kWh/day)	1
Noise emission | (dB)	50 | 43 | 40
Pull-down time to -25°C | (min)	90

Typical Temperature Map

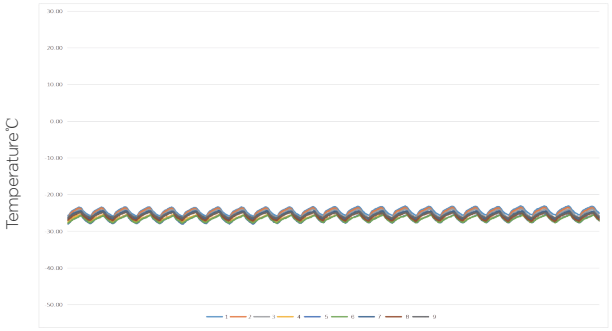
Fre	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-24.59	-24.89	-25.51	-26.29	-26.62	-25.87	-26.12	-26.65	-24.78
Max	-22.30	-22.52	-22.85	-23.63	-23.68	-23.43	-23.63	-24.11	-23.84
Min	-26.50	-26.69	-27.47	-27.94	-28.25	-27.61	-28.33	-28.50	-27.23

Dimensions and Construction

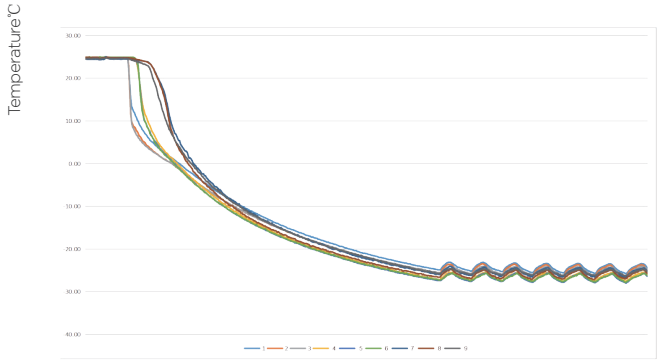
Interior (w*d*h)	455*460*595 mm
Exterior (w*d*h)	600*610*815 mm
Access Port	1 Access Port- for external monitoring probe(s) (25 mm diameter)
Shelves/Drawers	Std:3 (Evaporator Wire Shelf) Opt:Dip-Coated Drawer
Wheels	N (4 leveling feet)
Net Weight	43 | 39 | 40 kg
Gross Weight	48 | 44 | 45 kg

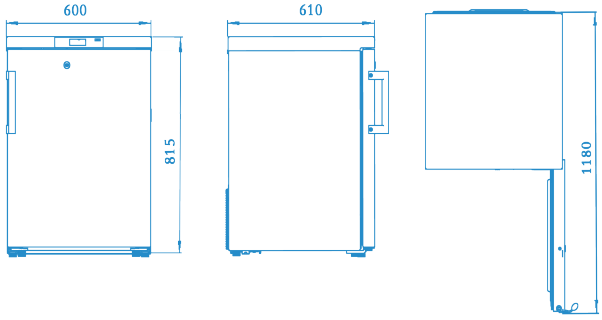
All performance data from 106L biomedical freezer, 25 ambient, -25°C

Uniformity



Cooling Speed





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