-40℃ Biomedical Freezer

Midea Biomedical

Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1℃.



MD-40L106

Super & Even Cooling

90Mins Rapid Cooling(25°C→-40°C)&≤3 Uniformity.

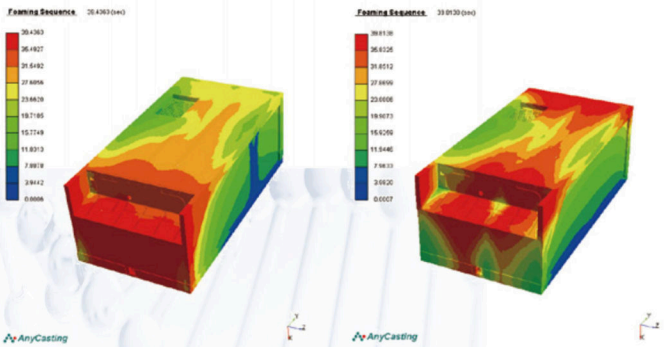
Eco-Cool Refrigerant

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

LCD Temperature Control Systems



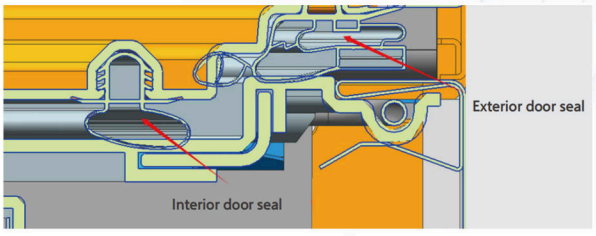
ECO Forming Technology



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
51dB(A) 220-240~V/50Hz
51dB(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-40L106

Application, Rating, & Electrical Data

Application	Biomedical freezer
Storage Volume (L/Cu.Ft)	106/3.74
Temperature Range	-20℃~-40℃
Default Set Point	-40℃
Power	115～V/60Hz | 220-240～V/50Hz | 220-240～V/60Hz
Current	2.5A | 2.2A | 2.2A
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

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)	2
Noise emission | (dB)	50 | 51 | 51
Pull-down time to -40°C | (min)	90

Typical Temperature Map

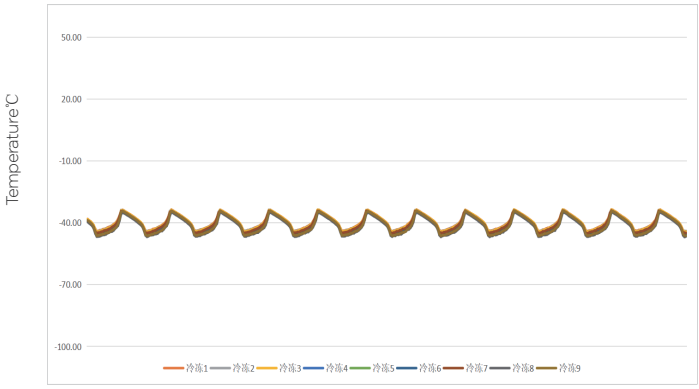
Fre	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-39.41	-39.54	-39.59	-40.55	-40.96	-40.63	-40.09	-41.48	-40.86
Max	-33.50	-33.60	-33.60	-34.20	-34.60	-34.60	-34.00	-34.80	-34.10
Min	-44.10	-44.30	-44.40	-45.60	-46.10	-45.50	-45.00	-46.90	-46.30

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 kg
Gross Weight	48 kg

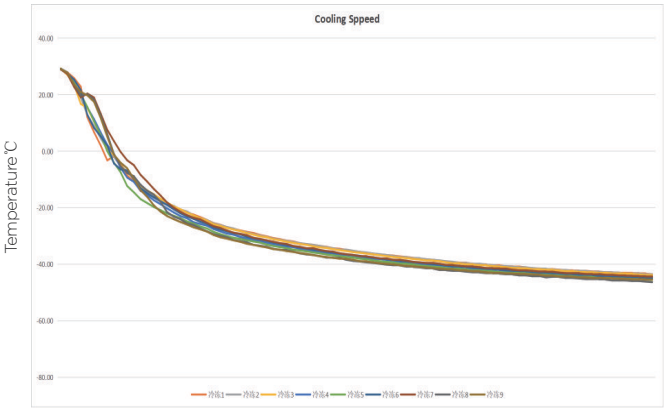
All performance data from 106L biomedical freezer, 25 ambient, -40°C

Uniformity

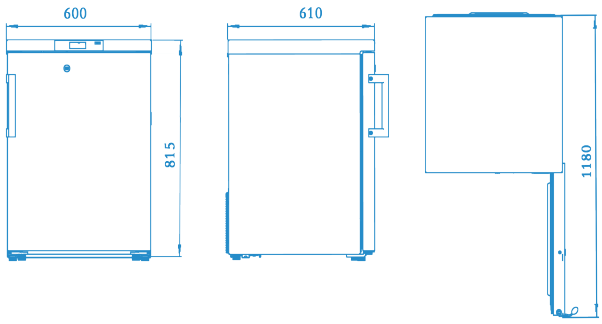


Elapsed Time (min)

Cooling Speed



Elapsed Time (min)



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