

-25°C Biomedical Freezer



MD-25L106



Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1°C.



Super & Even Cooling

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



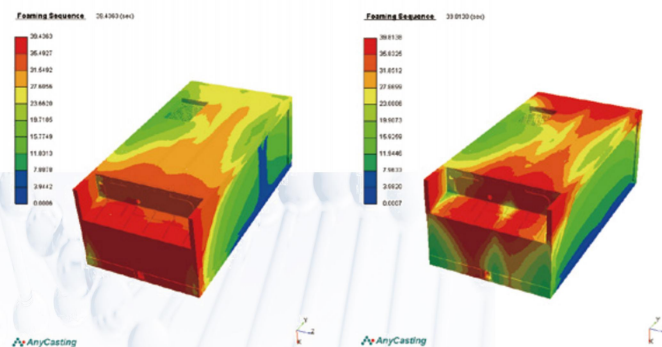
Eco-Cool Refrigerant

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

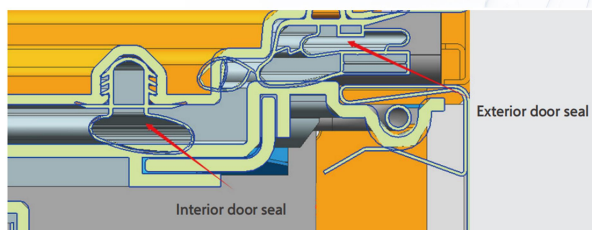
LCD Temperature Control Systems



CFC Free Forming Technology



Three-dimensional seal



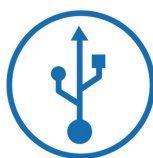
Before Improvement

After Improvement



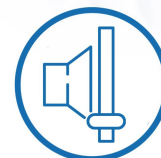
Safety Lock

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

Application, Rating, & Electrical Data	
Application	Biomedical freezer
Storage Volume (L/Cu.Ft)	106/3.74
Temperature Range	-10 C ~-25 C
Default Set Point	-25 C
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 (°C)	≤3 C
Energy consumption (kWh/day)	1
Noise emission (dB)	50 43 40
Pull-down time to -25°C (min)	90

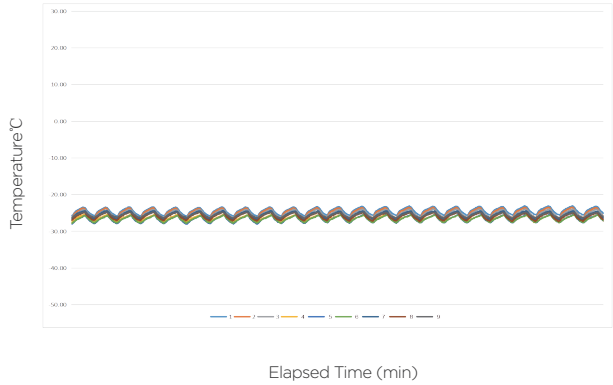
Typical Temperature Map

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

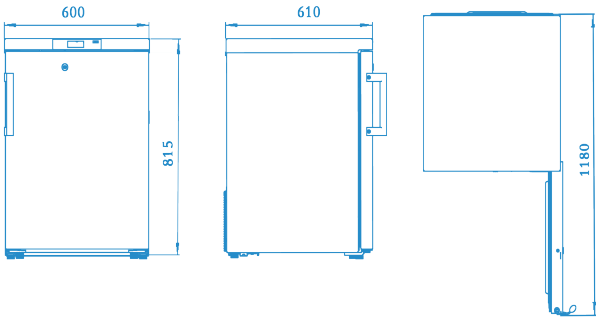
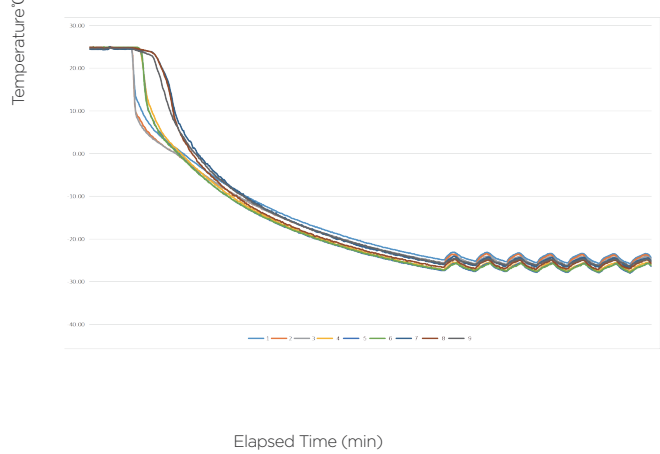
Dimensions and Construction	
Interior (w*d*h)	455*460*595 mm
Exterior (w*d*h)	600*610*815 mm
Access Port	1 Access Port- for external monitoring probe(s) (25 mm diameter)
Shelves/Drawers	Std:3 (Evaporator Wire Shelf) Opt:Dip-Coated Drawer
Wheels	N (4 leveling feet)
Net Weight	43 39 40 kg
Gross Weight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

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

Uniformity



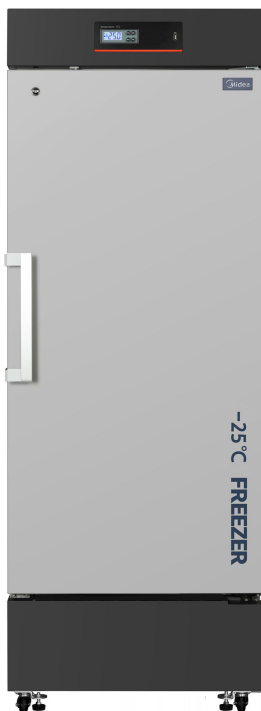
Cooling Speed



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-25°C Biomedical Freezer



MD-25L308



Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1°C.



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.



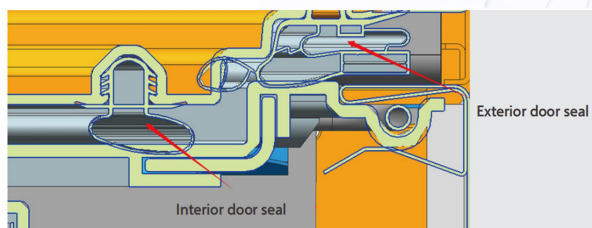
Eco-Cool Refrigerant

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

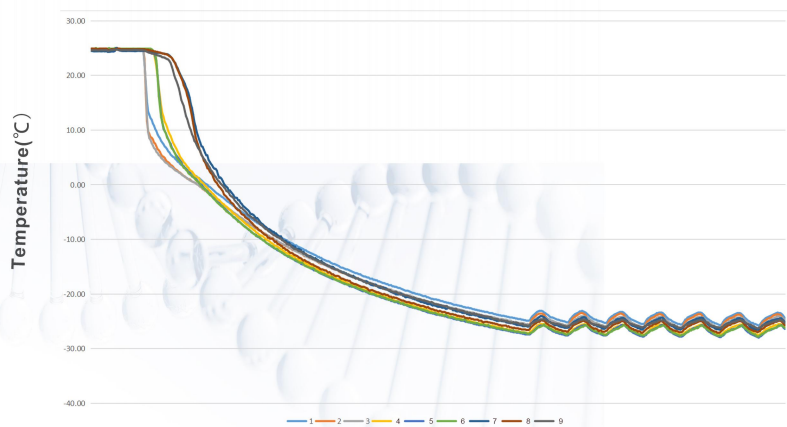
LCD Temperature Control Systems



Three-dimensional seal

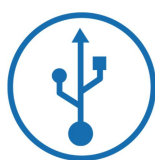


Cooling Speed(Ambient 25°C)



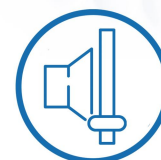
Safety Lock

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

Application, Rating, & Electrical Data

Application	Biomedical freezer
Storage Volume (L/Cu.Ft)	308/10.88
Temperature Range	-10°C ~ -25°C
Default Set Point	-25°C
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 (°C)	≤3.5°C
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
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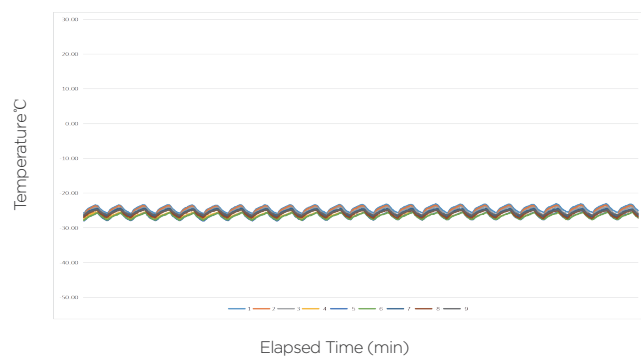
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Dimensions and Construction

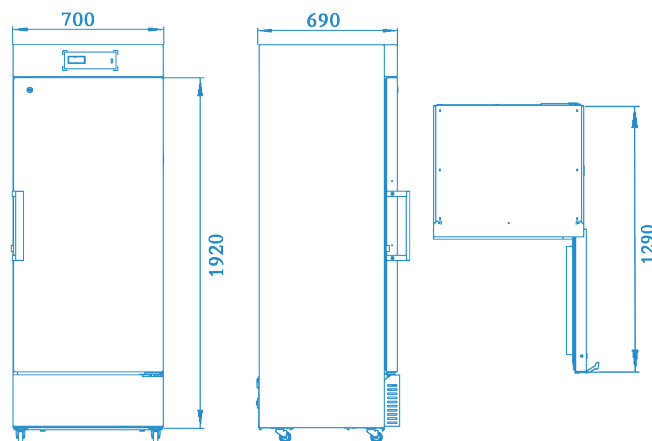
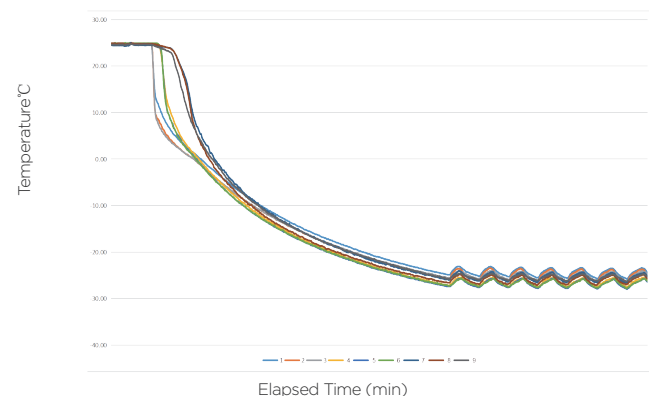
Interior (w*d*h)	540*450*1277 mm
Exterior (w*d*h)	700*690*1920 mm
Access Port	Two test ports, one fitted with a pressure relief valve, cannot be used as test ports. (25 mm diameter)
Shelves	7 18 kg max capacity
Wheels	4 Swivel Casters + 2 Leveling Feet
Net Weight	102 kg 100 kg 102 kg
Gross Weight	114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

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

Uniformity



Cooling Speed



-25°C Biomedical Freezer



MD-25L518



Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1°C.



Super & Even Cooling

Rapid Cooling(25°C→-25°C):120mins(115~V/60Hz) | 180mins(220-240~V/50Hz)| 120mins(220-240~V/60Hz) & ≤3 Uniformity.



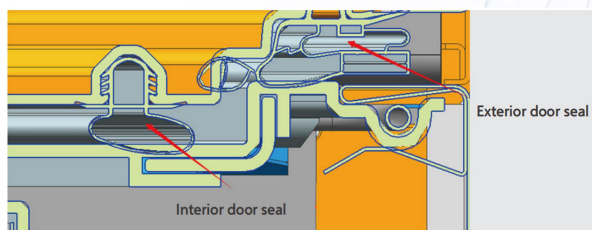
Eco-Cool Refrigerant

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

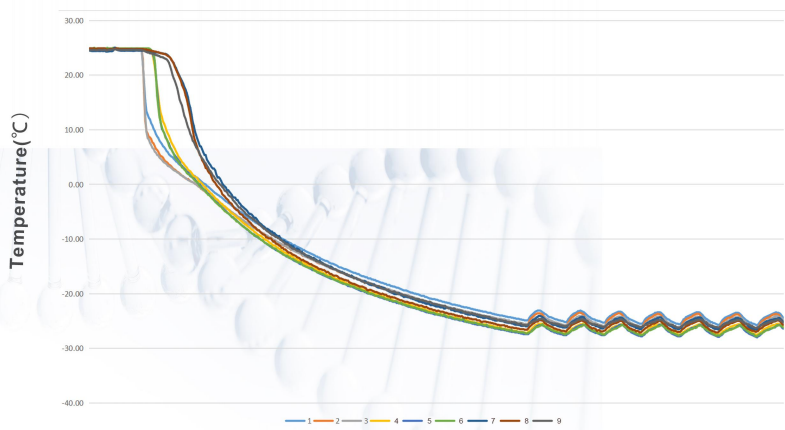
Two independent cooling system



Three-dimensional seal

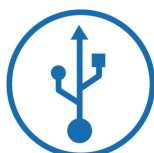


Cooling Speed(Ambient 25°C)



Safety Lock

Lockable door with key



USB Interface

RS-485(Optional)



Low Noise

65dB(A) 115~V/60Hz
58dB(A) 220-240~V/50Hz
54dB(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, Low Battery Warning, and Communication Fault Monitoring



Backup Battery

Maintains alarms for 16 hours during power failure



Wheels

4 Swivel Casters + 2 Leveling Feet

Application, Rating, & Electrical Data	
Application	Biomedical freezer
Storage Volume (L/Cu.Ft)	518/18.29
Temperature Range	-10 C ~-25 C
Default Set Point	-25 C
Power	115~V/60Hz 220-240~V/50Hz 220-240~V/60Hz
Current	5.1A 5A 4A
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	Two independent cooling system
Compressor	Hermetic, fixed frequency
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	NTC
Communication Ports	USB, Remote alarm contacts
Power Failure Alarm	Yes,each freezer chamber can be set separately
High/Low Alarms	Yes, fully adjustable
Door Ajar Alarm	Yes,each freezer chamber has Individual Alarm
Download	Yes, via USB, PDF
Temperature Log	Yes, download via USB

Performance Characteristics (normal operating conditions)	
Uniformity (°C)	≤3 C
Energy consumption (kWh/day)	2.1
Noise emission (dB)	65 54 58
Pull-down time to -25°C (min)	120 180 120

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)	Up:680*620*650 mm Down: 680*620*650 mm
Exterior (w*d*h)	866*811*1920 mm
Access Port	1 access port for each freezer chamber (25 mm diameter)
Drawers	Up: 6 Down: 6
Wheels	4 Swivel Casters + 2 Leveling Feet
Net Weight	149kg
Gross Weight	170 kg

All performance data from 518L freezer, 25 ambient, -25°C

