

-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.



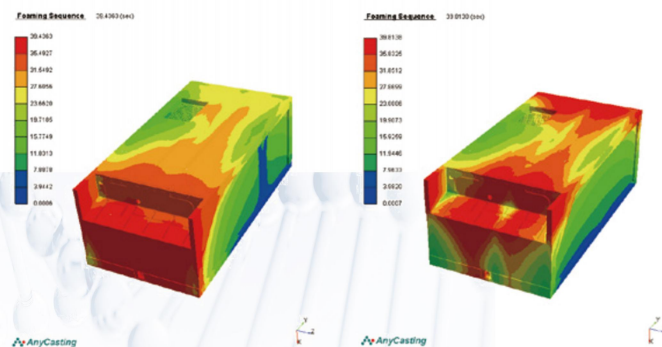
Eco-Cool Refrigerant

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

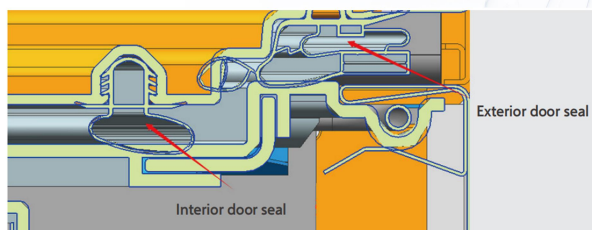
LCD Temperature Control Systems



CFC Free Forming Technology



Three-dimensional seal



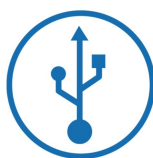
Before Improvement

After Improvement



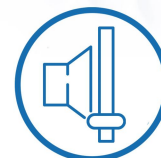
Safety Lock

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

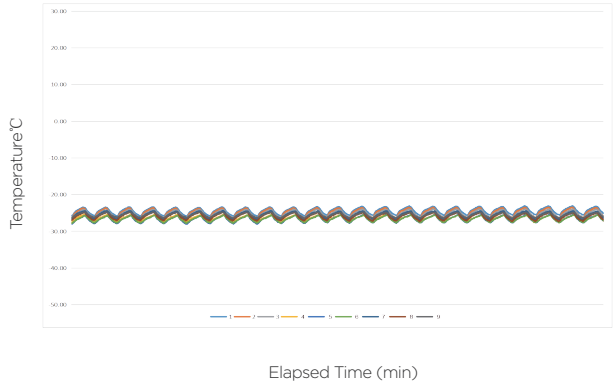
Typical Temperature Map

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

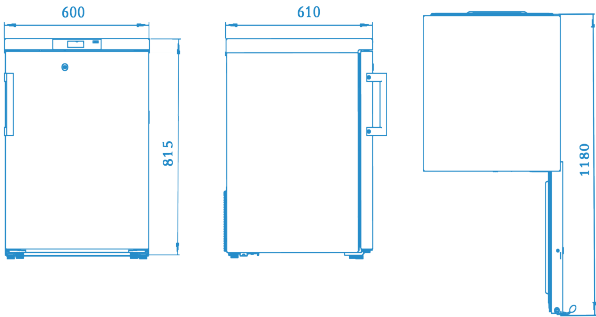
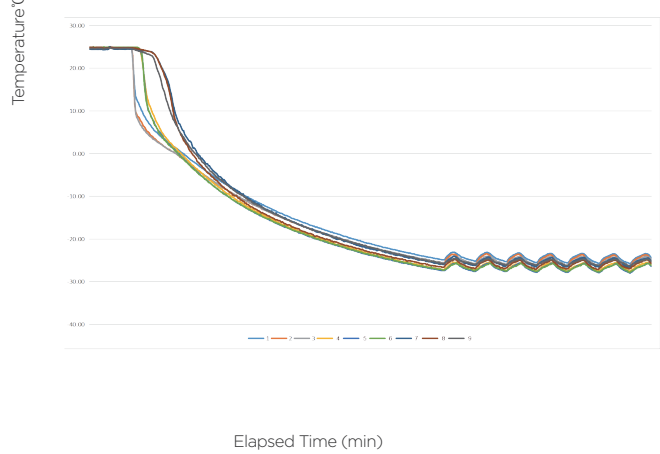
Dimensions and Construction	
Interior (w*d*h)	455*460*595 mm
Exterior (w*d*h)	600*610*815 mm
Access Port	1 Access Port- for external monitoring probe(s) (25 mm diameter)
Shelves/Drawers	Std:3 (Evaporator Wire Shelf) Opt:Dip-Coated Drawer
Wheels	N (4 leveling feet)
Net Weight	43 39 40 kg
Gross Weight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

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

Uniformity



Cooling Speed



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