

-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.



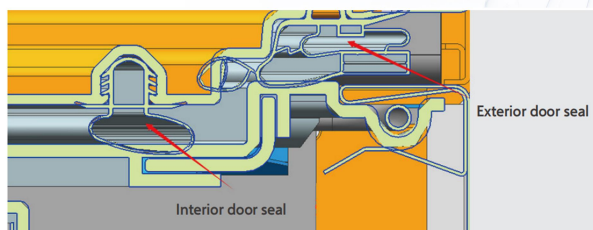
Eco-Cool Refrigerant

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

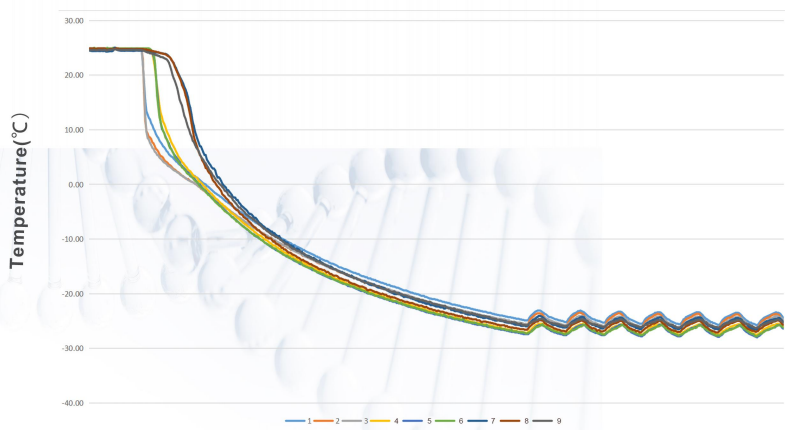
Two independent cooling system



Three-dimensional seal

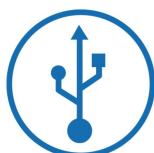


Cooling Speed(Ambient 25°C)



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

