

-25°C Chest Biomedical Freezer



MD-25W368



Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1°C.



Super & Even Cooling

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



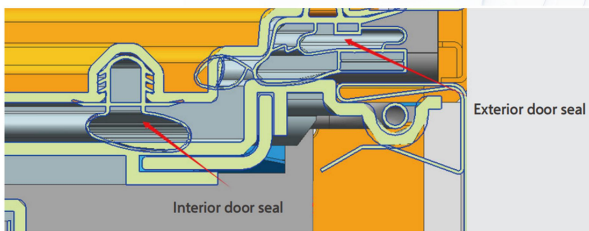
Eco-Cool Refrigerant

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

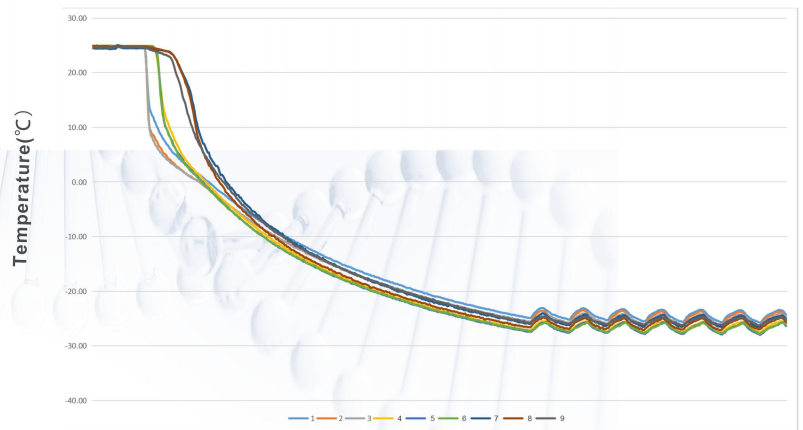
LCD Temperature Control Systems



Three-dimensional seal

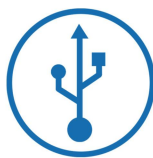


Cooling Speed(Ambient 25°C)

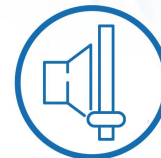


Safety Lock

Lockable door with key



USB Interface



Low Noise 48dB(A)



Multiple Alarms

Audible & Visual Alarms, High/Low Temperature Warnings, Power Failure Alert, Sensor Malfunction Monitoring



Backup Battery

Maintains alarms for 24 hours during power failure

Application, Rating, & Electrical Data

Application	Biomedical chest freezer
Storage Volume (L/Cu.Ft)	368/12.99
Temperature Range	-10°C ~ -25°C
Default Set Point	-25°C
Power	220-240~V/50Hz
Current	1.1A
Power Cord Length	1.7m
Certification	CE
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	Capillary tube
Expansion Device	Built in
Evaporator Type	Shelf evaporator
Defrost Method	Manual defrost
Refrigerant	R290

Controller / Configuration Settings

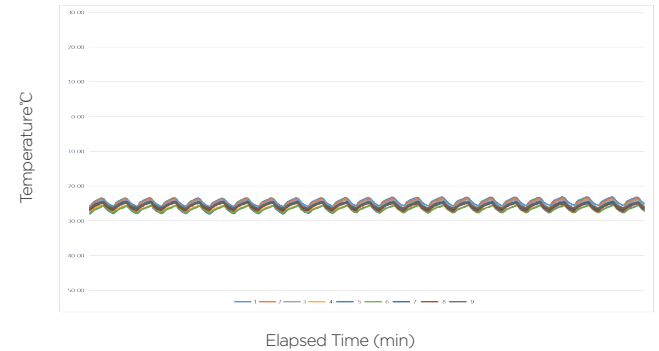
Display screen	LCD
Controller Type	Microprocessor
Security	Lockable door
Control Sensor	NTC
Communication Ports	USB
Power Failure Alarm	Yes
High/Low Alarms	Yes, fully adjustable
Door Ajar Alarm	No
Download	Yes, via USB
Temperature Log	Yes, download via USB

Dimensions and Construction

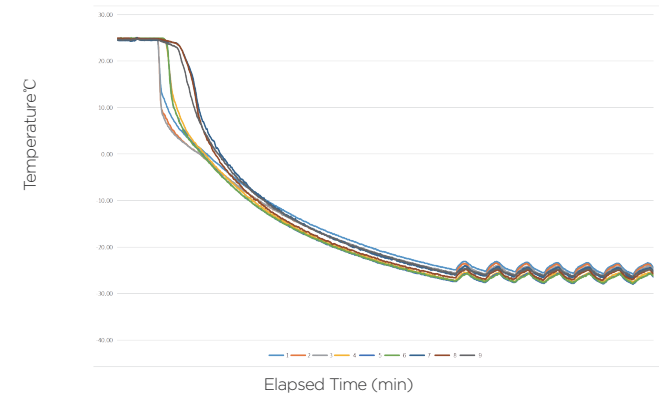
Interior (w*d*h)	870*550*648 mm & 230*550*428 mm
Exterior (w*d*h)	1255*745*853 mm
Wheels	4 Swivel Casters
Net Weight	51 kg
Gross Weight	58 kg

All performance data from 368L biomedical freezer, 25 ambient, -25°C

Uniformity



Cooling Speed



Performance Characteristics (normal operating conditions)

Uniformity (°C)	≤3°C
Energy consumption (kWh/day)	1.8
Noise emission (dB)	48
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

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