

-40°C Chest Biomedical Freezer



MD-40W368



Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1°C.



Super & Even Cooling

120mins Rapid Cooling(25°C→-25°C) & ≤3 Uniformity.



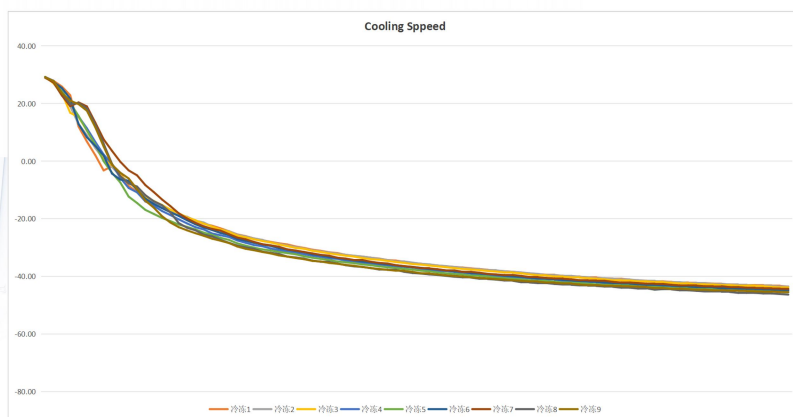
Eco-Cool Refrigerant

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

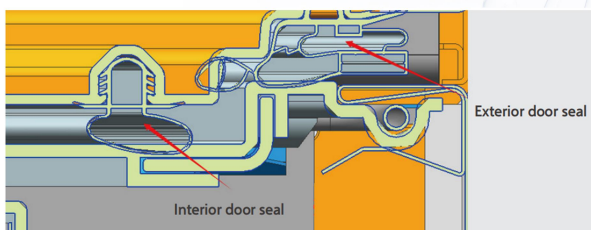
LCD Temperature Control Systems



Cooling Speed(Ambient 25°C)

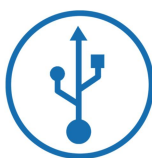


Three-dimensional seal

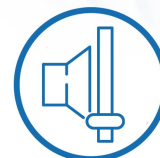


Safety Lock

Lockable door with key



USB Interface



Low Noise

46dB(A) 115~V/60Hz
48dB(A) 220~240~V/50Hz



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	-20 C ~-40 C
Default Set Point	-40 C
Power	115~V/60Hz 220-240~V/50Hz
Current	2.5A
Power Cord Length	1.7m
Certification	/
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 + micro channel condenser
Evaporator Type	Shelf type 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	Yes
Download	Yes, via USB
Temperature Log	Yes, download via USB

Performance Characteristics (normal operating conditions)	
Uniformity (°C)	≤3 C
Energy consumption (kWh/day)	2.1 2.7
Noise emission (dB)	46 48
Pull-down time to -40°C (min)	120

Typical Temperature Map

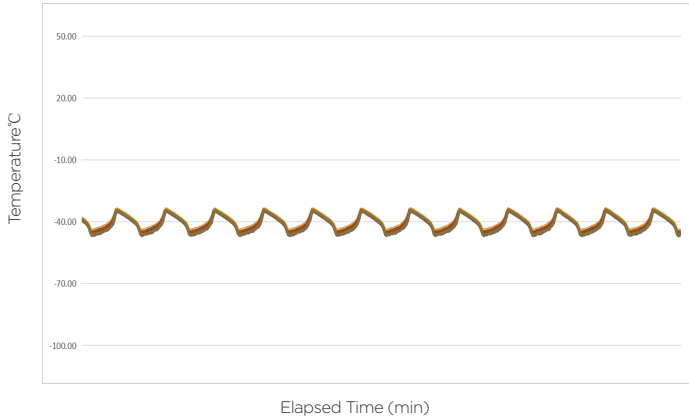
Fre	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-39.41	-39.54	-39.59	-40.55	-40.96	-40.63	-40.09	-41.48	-40.86
Max	-33.50	-33.60	-33.60	-34.20	-34.60	-34.60	-34.00	-34.80	-34.10
Min	-44.10	-44.30	-44.40	-45.60	-46.10	-45.50	-45.00	-46.90	-46.30

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Midea Biomedical reserves right to interpret the data.

Dimensions and Construction	
Interior (w*d*h)	870*550*648 & 230*550*428 mm
Exterior (w*d*h)	1255*745*853 mm
Wheels	4 Swivel Casters
Net Weight	54 kg 55 kg
Gross Weight	61 kg 62 kg

All performance data from 368L biomedical freezer, 25°C ambient, -40°C

Uniformity



Cooling Speed

