Table Top Pharmacy Refrigerator

Midea Biomedical

Compact Design

Space-optimized for confined environments: Ideal for small labs/policy institutes, fits seamlessly under workbenches



MC-5L42

Eco-Efficient Cooling

R600a (HC)refrigerant:Near-zero GWP
Energy consumption: ≤0.65kWh/24h

Precision Temp. Control

Uniformity of ±1°C: Ensures sample integrity throughout the chamber



Multiple Alarm

Multi-tier alerts (audible/visual/remote) with power/sensor/door/high/low temp ./battery monitoring

Std: USB | Opt: RS485

Low E Glass

Opt:Reversible Door

Built-in Handle

Forced-Air Cooling

No Frost

Midea Biomedical

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Technical Data Sheet
High-Performance, Medical-grade Refrigerator
Model: MC-5L42, Pharmacy Refrgerator

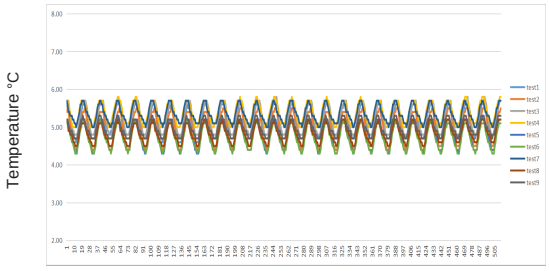
Application, Rating, & Electrical Data	
Application	Pharmacy refrigerator
Storage Volume（L/Cu.ft）	42/1.48
Temperature Range	2°C ~ 8°C
Default Set Point	5°C
Power	115V/60Hz | 220-240～V/50Hz
Current	1.5A | 0.75A
Power Cord Length	1.7m
Certification	CE/UL
Door type	Low-E Glass Door
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	16°C ~ 32°C
Refrigeration	
Refrigeration System	Forced-air/hydrocarbon Refrigerant
Compressor	Hermetic
Condenser Type	Built-in
Expansion Device	Capillary tube
Evaporator Type	Plate Evaporator
Defrost Method	Automatic
Refrigerant	R600a
Controller / Configuration Settings	
Display screen	LED
Controller Type	Microprocessor
Security	Lockable door, password protected settings
Control Sensor	NTC, stainless steel
Communication Ports	USB, Remote alarm contacts
Power Failure Alarm	Yes
High/Low Alarms	Yes, fully adjustable
Door Ajar Alarm	Yes, fully adjustable
Min/Max Temperature	Yes, display and reset
Download	Yes, via USB. PDF
Temperature Log	Yes, download via USB
Temperature Monitoring Ballast	Yes
Battery Back-up	Yes, 16 hr display and alarm back-up | Rechargeable 12V, lead acid

Dimensions	
Interior (w*d*h)	380*300*410 mm
Exterior (w*d*h)	450*459*569.5 mm
Access Port	N
Shelf/Drawer	Shelf*1 +Drawer*1 | 12 kg max capacity/shelf
Leveling Feet	Y
Net Weight	23 kg
Gross Weight	25 kg

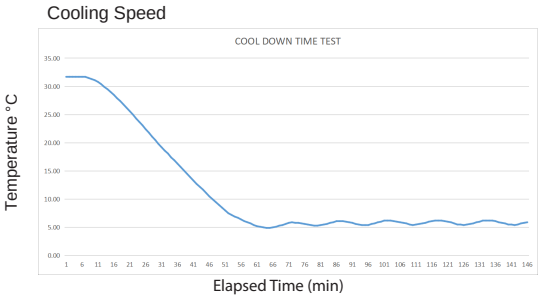
Performance Characteristics (normal operating conditions)	
Uniformity | （°C）	±1.0
Recovery to 8°C after 1 min door opening | （min）	7.5
Temperature fluctuation | （℃）	≦3
Energy consumption | （kWh/day	0.65
Noise emission | （dB）	45
Heat rejection | （BTU/hr）	460
Pull-down time to 6°C | （min）	70

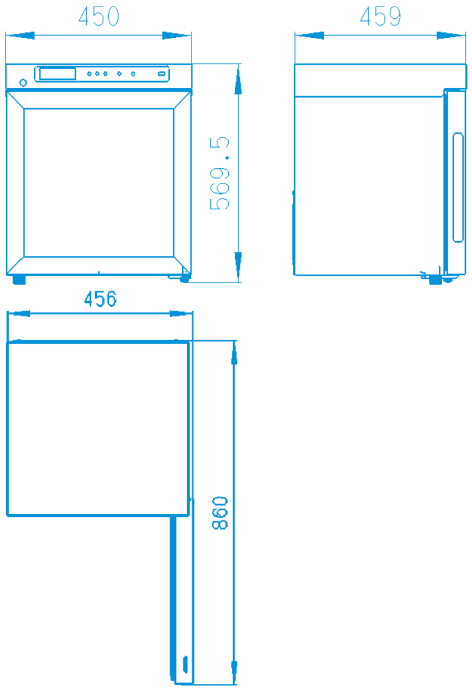
All performance data from 42L refrigerator, 25 ambient, 5.0℃

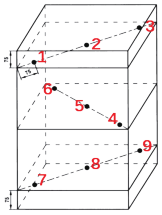
Uniformity



Cooling Speed







Location of test probes

Typical Temperature Map

	test1	test2	test3	test4	test5	test6	test7	test8	test9
Avg	4.88	5.24	5.15	4.13	4.32	4.92	4.71	4.78	5.37
Max	5.30	5.60	5.50	4.80	4.70	5.20	5.00	5.10	5.70
Min	4.40	4.90	4.70	3.50	4.00	4.60	4.40	4.40	5.10

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