Combined Refrigerator & Freezer

Midea Biomedical

MCD-25L350

Precise Temp. Control
Microcomputer Temperature Control System, temperature accuracy 0.1℃.
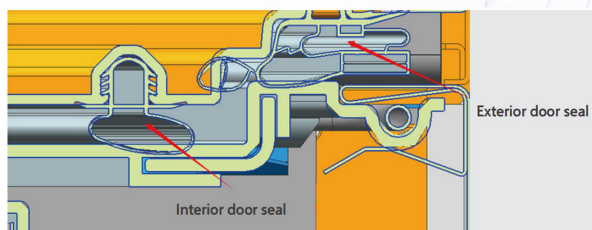
Security System
Multi-alarm system with lockable door

Eco-Cool Refrigerant
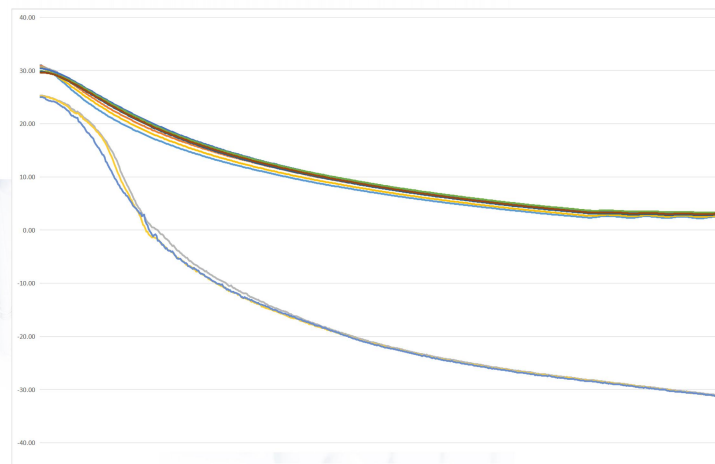R600a (natural hydrocarbon, low-GWP) refrigerant ensures zero ozone depletion and lower climate impact .

ECO Friendly

■ **Dual independent cooling system**

Refrigeration temperature (°C) Freezing temperature (°C)
8.5.0   3.25.0   Alarm Door   USB

Set/Mute Temperature + Temperature - Print Lighting

■ **Three-dimensional seal**
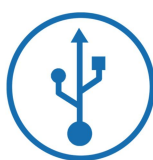
Exterior door seal

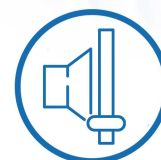Interior door seal

■ **Cooling Speed(Ambient 25℃)**

Safety Lock
Lockable door with key

USB Interface
RS-485(Optional)

Low Noise
45dB(A)

Multiple Alarms
Audible and visual alarms, remote alerts, high/low temperature warnings, door closure detection, power failure alerts, ambient temperature alarm,record fault alarm, record is not start alarm,low battary alarm and sensor fault monitoring.

Backup Battery
Maintains alarms for 16 hours during power failure

Wheels
4 Swivel Casters + 2 Leveling Feet

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Technical Data Sheet
High-Performance, Combined Refrigerator and Freezer
Model: MCD-25L350

Application, Rating, & Electrical Data

Application	Combined refrigerator and freezer
Storage Volume (L/Cu.Ft)	Fridge:206/7.27	Freezer:144/5.08
Temperature Range	Fridge:2℃~8℃	Freezer:-10℃~-25℃
Default Set Point	Fridge:5℃	Freezer:-25℃
Power	115~V/60Hz	220-240~V/50Hz| 220-240~V/60Hz
Current	1.8A
Power Cord Length	1.7m
Certification	CE/UL/NSF456/FDA list
Door type	Solid door
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	10°C~32°C

Refrigeration

Refrigeration System	Fridge:Forced air cooling	Freezer:Direct cooling
Compressor	Hermetic, fixed frequency
Condenser Type	Built in
Expansion Device	Capillary tube
Evaporator Type	Fridge: built in	Freezer: shelf evaporator
Defrost Method	Fridge: auto	Freezer: manual defrost
Refrigerant	R600a

Controller / Configuration Settings

Display screen	LED
Controller Type	Microprocessor
Security	Lockable door, password 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,top room and bottom room
Download	Yes, via USB, PDF
Temperature Log	Yes, download via USB
Battery Back-up	Yes, 16 hr display and alarm back-up	Rechargeable 12V, lead acid

Performance Characteristics (normal operating conditions)

Uniformity	(℃)	Fridge:±1.5℃	Freezer:≤3℃
Temperature fluctuation	(℃)	Fridge:≤2℃
Energy consumption	(kWh/day)	1.5	1.2	1.3
Noise emission	dB(A)	45
Pull-down time to -25°C	(min)	180

Dimensions and Construction

Interior (w*d*h)	Fridge:600*505*690 |Freezer:540*480*560 mm
Exterior (w*d*h)	695*655*1920 mm
Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
shelf	Fridge:3	Freezer:3 drawers	18 kg max capacity
Wheels	4 Swivel Casters + 2 Leveling Feet
Net Weight	103kg	106kg	106 kg
Gross Weight	113kg	118kg 118 kg

All performance data from 350L combined refrigerator and freezer

Uniformity

Elapsed Time (min)

Cooling Speed

Elapsed Time (min)

Typical Temperature Map

Ref	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	6.28	5.07	5.58	5.55	5.25	5.60	5.80	5.41	5.59
Max	6.50	5.30	5.80	5.70	5.50	5.80	6.00	5.60	5.80
Min	5.90	4.70	5.20	5.20	4.90	5.30	5.40	5.10	5.10

Fre	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-25.28	-25.99	-25.91	-27.17	-27.46	-27.51	-27.60	-27.73	-27.90
Max	-21.80	-22.10	-21.90	-23.70	-23.80	-23.70	-23.80	-23.80	-24.00
Min	-27.80	-28.70	-28.70	-29.80	-30.20	-30.40	-30.40	-30.60	-30.60