Combined Refrigerator & Freezer

Midea Biomedical



MCD-40L506

Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1℃.

Security System

Multi-alarm system with lockable door

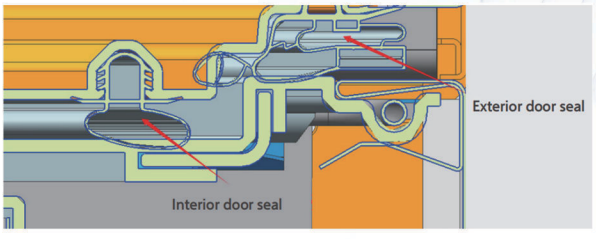
Eco-Cool Refrigerant

R290 R600a (natural hydrocarbon, low-GWP) refrigerant ensures zero ozone depletion and lower climate impact .

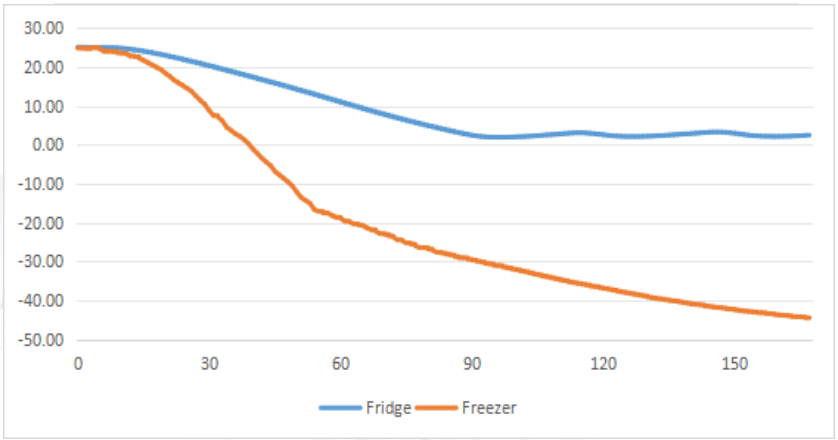
Dual independent cooling system



Three-dimensional seal



Cooling Speed(Ambient 25℃)



Safety Lock

Lockable door with key

USB Interface

RS-485(Optional)

Low Noise

50dB(A) at 220-240~V/50Hz
58dB(A) at 115~V/60Hz
48dB(A) at 220-240~V/60Hz

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-40L506

Application, Rating, & Electrical Data

Application	Combined refrigerator and freezer
Storage Volume （L/Cu.Ft ）	Fridge:247/8.72 | Freezer:259/9.15
Temperature Range	Fridge:2 ℃~8℃ | Freezer:-10 ℃~-40 ℃
Default Set Point	Fridge:5 ℃ | Freezer:-40 ℃
Power	115~V/60Hz | 220-240 ~V/50Hz| 220-240 ~V/60Hz
Current	4A | 3A | 2A
Power Cord Length	1.7m
Certification	CE/UL/FDA list
Door type	Solid door
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	10℃~32℃

Refrigeration

Refrigeration System	Fridge:Forced air cooling | Freezer:Direct cooling
Compressor	Hermetic, fixed frequency
Condenser Type	Built in+Microprocessor
Expansion Device	Capillary tube
Evaporator Type	Fridge: built in | Freezer: shelf evaporator
Defrost Method	Fridge: auto | Freezer: manual defrost
Refrigerant	Fridge: R600a | Freezer: R290

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
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)

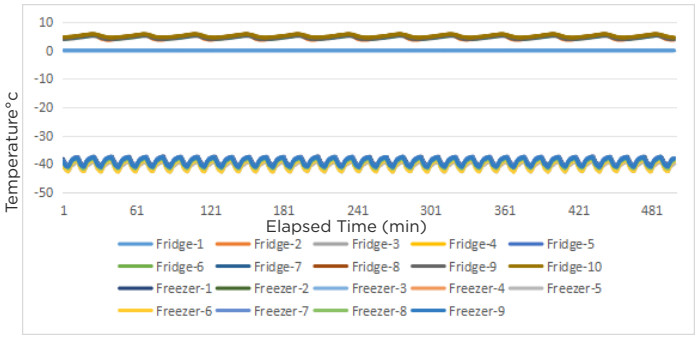
Uniformity | （℃）	Fridge: ±1.5℃ | Freezer: ≤3 ℃
Temperature fluctuation | （℃）	Fridge: ≤2 ℃
Energy consumption | （kWh/day ）	2.4
Noise emission | dB(A)	58 | 50 | 48
Pull-down time to -40℃ | (min)	180

Dimensions and Construction

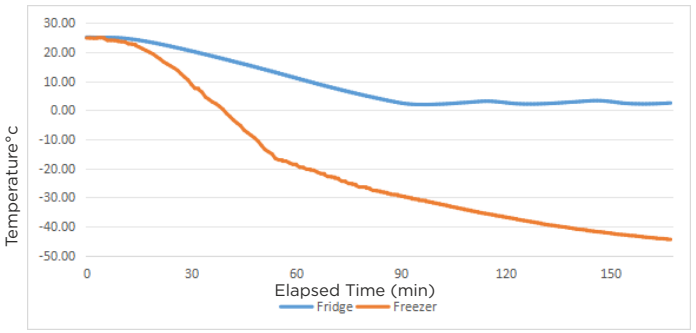
Interior (w*d*h)	Fridge:680*596*630 |Freezer:680*620*650 mm
Exterior (w*d*h)	866*811*1920 mm
Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
shelf	Fridge:3 | Freezer:6 drawers | 18 kg max capacity
Wheels	4 Swivel Casters + 2 Leveling Feet
Net Weight	140 kg
Gross Weight	163 kg

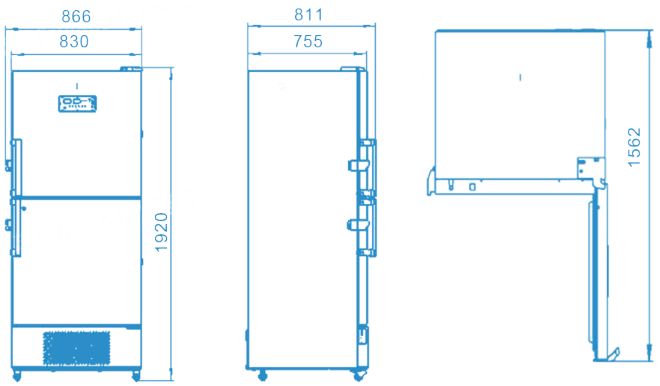
All performance data from 506L combined refrigerator and freezer

Uniformity



Cooling Speed





Typical Temperature Map

Ref	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	5.75	4.83	5.24	5.48	5.15	5.25	5.37	5.33	5.41
Max	5.90	5.30	5.40	5.70	5.40	5.40	5.50	5.50	5.60
Min	5.60	4.30	5.10	5.30	4.90	5.10	5.20	5.10	5.20

Fre	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-38.86	-39.5	-39.61	-40.63	-40.92	-40.64	-38.92	-39.78	-39.23
Max	-37.5	-38	-38.1	-39.2	-39.2	-38.7	-37.3	-38	-37.6
Min	-40.4	-41.1	-41.3	-42.3	-42.8	-42.7	-40.6	-41.5	-40.9

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