



MCD-25L506



Precise Temp. Control

Microcomputer Temperature Control System, temperature accuracy 0.1°C.



Security System

Multi-alarm system with lockable door



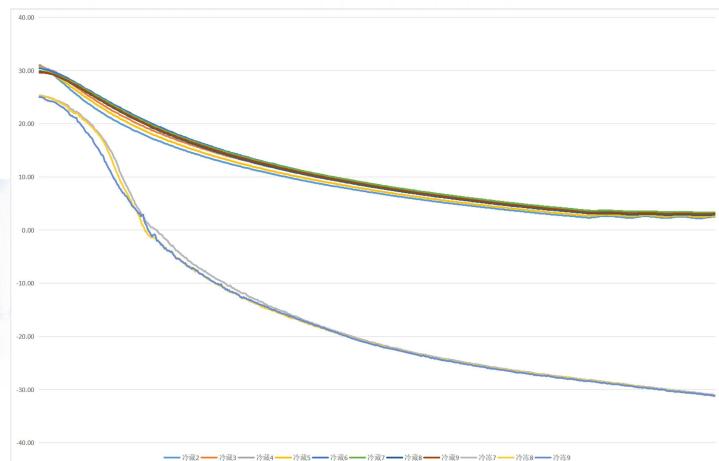
Eco-Cool Refrigerant

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

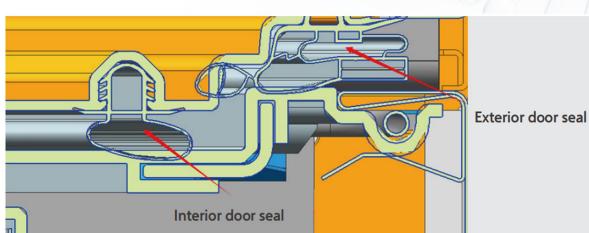
Dual independent cooling system



Cooling Speed(Ambient 25°C)



Three-dimensional seal



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 battery alarm and sensor fault monitoring.



Backup Battery

Maintains alarms for 16 hours during power failure



Wheels

4 Swivel Casters + 2 Leveling Feet

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°C~8°C Freezer:-10°C~25°C |
| Default Set Point | Fridge:5°C Freezer:-25°C |
| Power | 115~V/60Hz 220-240~V/50Hz 220-240~V/60Hz |
| Current | 4A 2A 3A |
| 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°C~32°C |

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 (°C) | Fridge:±1.5°C Freezer:≤3°C |
| Temperature fluctuation (°C) | Fridge:≤2°C |
| Energy consumption (kWh/day) | 1.4 |
| Noise emission dB(A) | 58 50 48 |
| Pull-down time to -25°C (min) | 120 180 120 |

Typical Temperature Map

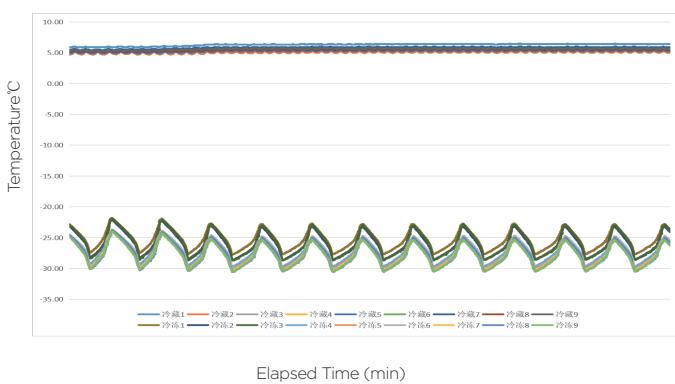
| Ref | test 1 | test 2 | test 3 | test 4 | test 5 | test 6 | test 7 | test 8 | test 9 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Avg | 6.28 | 5.07 | 5.58 | 5.55 | 5.25 | 5.60 | 5.80 | 5.41 | 5.59 |
| Max | 6.50 | 5.30 | 5.80 | 5.70 | 5.50 | 5.80 | 6.00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

Dimensions and Construction

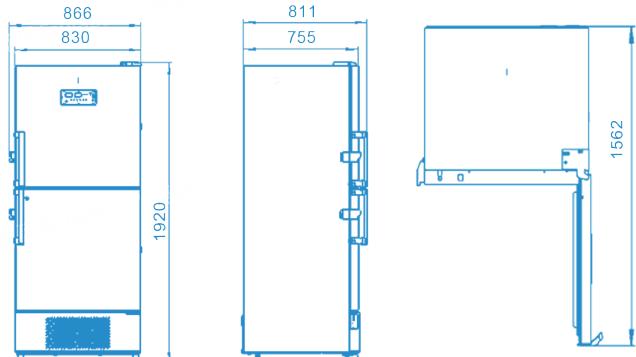
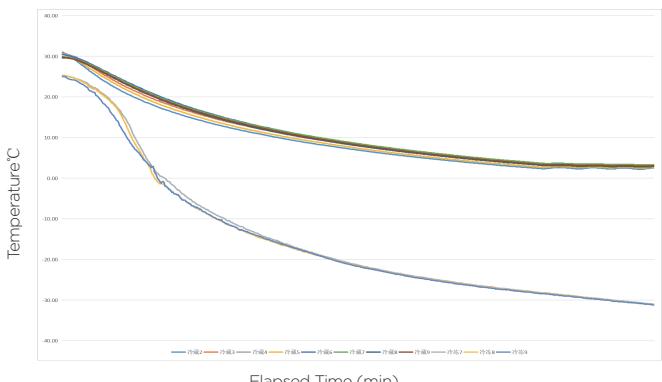
| | |
|------------------|--|
| Interior (w*d*h) | Fridge:680*596*630 Freezer:680*620*650 mm |
| Exterior (w*d*h) | 866*811*1920 mm |
| Access Port | 2 Access Port- for external monitoring probe(s) (25 mm diameter) |
| shelf | Fridge:3 Freezer:6 drawers 18 kg max capacity |
| Wheels | 4 Swivel Casters + 2 Leveling Feet |
| Net Weight | 141 kg |
| Gross Weight | 163 kg |

All performance data from 506L combined refrigerator and freezer

Uniformity



Cooling Speed



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