# 2-8℃ Vertical Pharmacy Refrigerator

Midea Biomedical



MC-5L316

## Top Cooling System

## Eco-Efficient Cooling

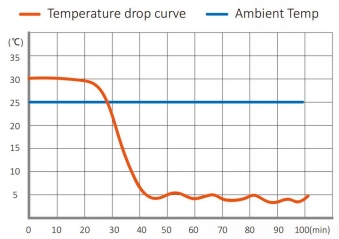
R600a (HC)refrigerant:Near-zero GWP

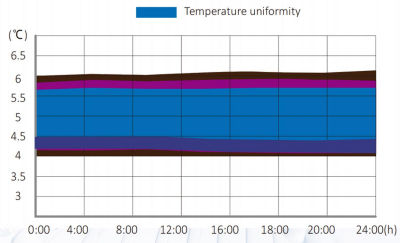
Energy consumption: ≤2.5kWh/24h

## Precision Temp. Control

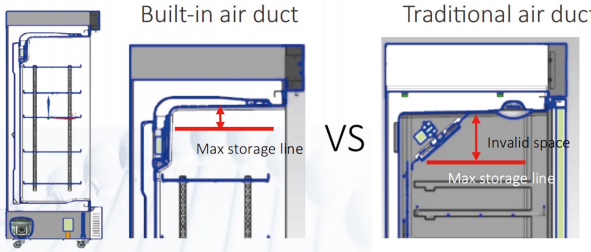
Uniformity of ±1.5°C: Ensures sample integrity throughout the chamber

## Typical Performance Characteristics at 25 ℃ Ambient




## Built-in Air Duct




## Dual Display




## Multiple Alarm

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

## Self-closing Door

## Electrically Heated Glass Door

## Forced-Air Cooling

No Frost

## Built-in Handle

## Std: USB | Opt: RS485

Midea Biomedical

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# Technical Data Sheet
# High-Performance, Medical-grade Refrigerator
# Model: MC-5L316, Pharmacy Refrgerator

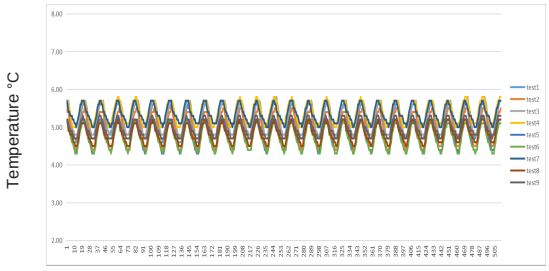
| *Application, Rating, & Electrical Data* | |
|---|---|
| Application | Pharmacy refrigerator |
| Storage Volume（L/Cu.Ft） | 316/11.16 |
| Temperature Range | 2°C to 8°C//35.6℉ to 46.4℉ |
| Default Set Point | +5°C |
| Power Supply | 115～V/60Hz \| 220-240～V/50Hz\| 220-240～V/60Hz |
| Current | 2.5A \| 1.5A \| 1.5A |
| Power Cord Length | 1.7m |
| Certification | CE/UL/ ENERGY STAR/ NSF/ANSI 456 |
| Door type | Electrically Heated Glass Door |
| Application Environment | Non-corrosive, non-flammable, non-explosive |
| Ambient Operating Temperature | +16°C to +32°C |
| ***Refrigeration*** | |
| Refrigeration System | Forced-air/hydrocarbon Refrigerant |
| Compressor | Hermetic |
| Condenser Type | Air-cooled |
| Expansion Device | Cap tube |
| Evaporator Type | Fin and tube |
| 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 and Construction* | |
|---|---|
| Interior (w*d*h)mm | 500*464*1343 mm |
| Exterior (w*d*h) | 595*603*1920 mm |
| Access Port | Access Port- for external monitoring probe(s) (25 mm diameter) |
| Shelves | 5 \| 35 kg max capacity/drawer |
| Wheels | 4, The front two can be stopped |
| Net Weight | 72 kg |
| Gross Weight | 81 kg |

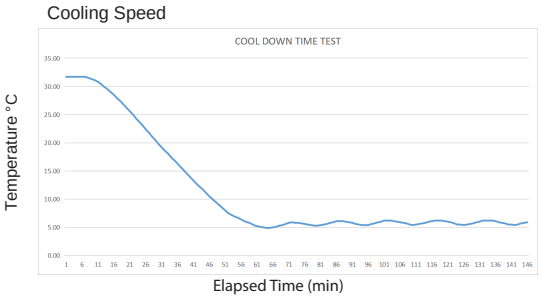
| *Performance Characteristics (normal operating conditions)* | |
|---|---|
| Uniformity \| （°C） | ±1.5 |
| Recovery to 8°C after 1 min door opening \| （min） | 9 |
| Temperature fluctuation \| （℃） | ＜2 |
| Energy consumption \| （kWh/day） | CE/2.5 UL/2.5 |
| Noise emission \| （dB） | CE/52 UL/60 |
| Heat rejection \| （BTU/hr） | 870 |
| Pull-down time to 6°C \| （min） | 60 |

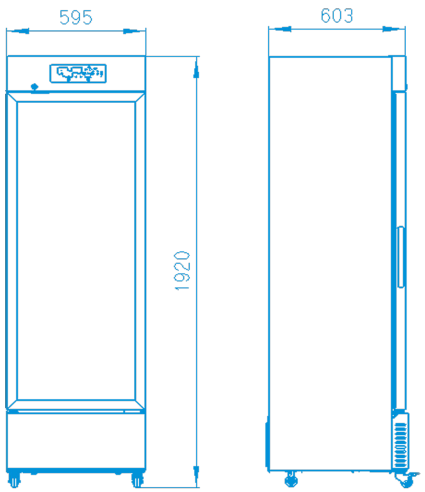
All performance data from 316L refrigerator, 25 ambient, 5.0℃

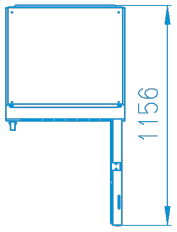
Uniformity

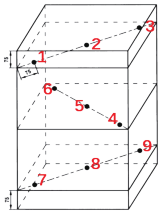



Cooling Speed




*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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ENERGY STAR