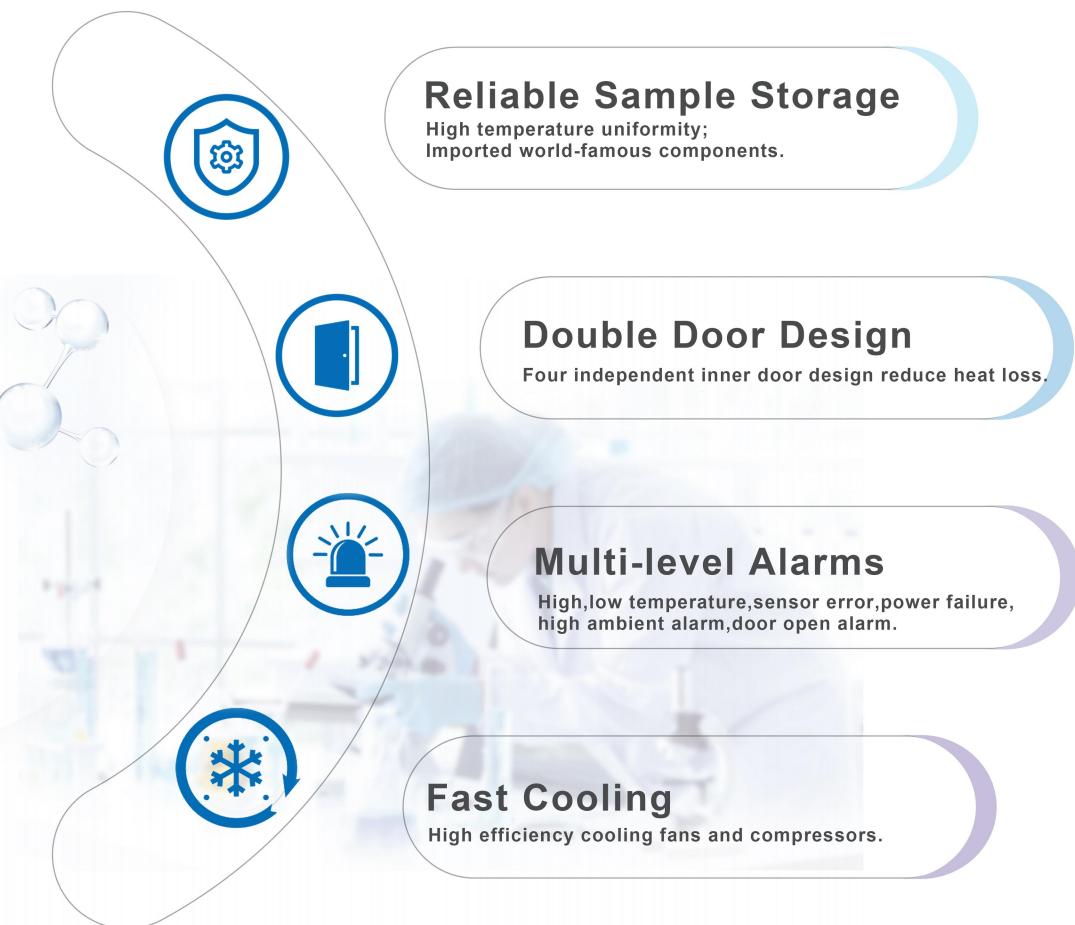




MD-86L568



## ■ Structure Features

### 1 Multi-layer Sealing Structure

Multi-layers gaskets provide a tight seal between the inner doors and outer door, reducing heat exchange and retaining the inner temperature better when there is power failure.

### 2 VIP PLUS Design

Provides up to 30% more storage capacity than a conventionally insulated freezer, without increasing the footprint. A glass fibre core provides advanced thermal properties.

### 3 USB Port

Enables users to download historical temperature data for compliance/auditing purposes.

### 4 LED Display

Alarm functions include high, low temperature, sensor error, power failure, high ambient alarm, door open alarm etc.



### 5 Lever Handle Design

Ingenious handle design helps you to open and close door easier. Lockable handle safeguards your precious samples. Padlock can also be added for extra sample safety.

### 6 Relief Ports

It allows users to re-open the main door quickly when entering ,rust-proof, freeze-free.

### 7 Narrow Door Design

The freezer can pass through an 750mm wide door when the door is open.

### Application, Rating, & Electrical Data

Application	ULT freezer
Storage Volume (L/Cu.Ft)	568/20.06
Temperature Range	-40°C to -86°C
Default Set Point	-81°C
Power	115-V/60Hz   220-240-V/50Hz   220-240-V /60Hz
Current	14.5A   12A   10.6A
Power Cord Length	1.7m
Certification	CE/UL
Door type	Solid door
Application Environment	Non-corrosive, non-flammable, non-explosive
Ambient Operating Temperature	10°C~32°C

### Refrigeration

Refrigeration System	Dual cooling
Compressor	Hermetic, fixed speed
Condenser Type	Air cooling
Expansion Device	Capillary tube
Evaporator Type	Built-in
Defrost Method	Manual defrosting
Refrigerant	Mix refrigerant

### Controller / Configuration Settings

Display screen	LED
Controller Type	Microprocessor
Security	Lockable door, password protected settings
Control Sensor	PT1000, stainless steel
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, 44 hr display and alarm back-up   Rechargeable 12V, lead acid

### Performance Characteristics (normal operating conditions)

Uniformity   (°C)	±5.0
Recovery to -75°C after 1 min door opening   (min)	20   27   27
Temperature fluctuation   (°C)	<12.7   ≤2.6   ≤2.6(Copper Mass Simulators)
Energy consumption   (kWh/day)	9   12.5   11.8
Noise emission   (dB)	54
Heat rejection   (BTU/hr)	5652
Pull-down time to -81°C   (min)	126   174   132

### Typical Temperature Map

	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8	test 9
Avg	-81.75	-81.14	-82.37	-81.92	-82.44	-81.28	-80.97	-81.98	-80.96
Max	-78.10	-77.70	-80.20	-79.90	-80.20	-79.60	-79.40	-80.80	-78.63
Min	-84.70	-84.10	-84.40	-83.70	-84.40	-82.90	-82.60	-83.20	-83.16

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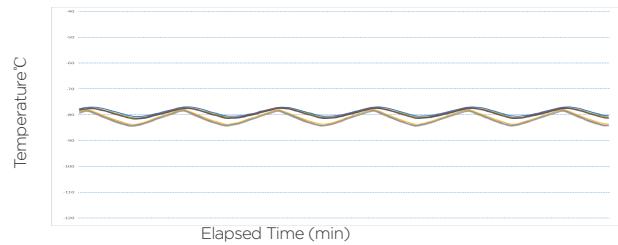


### Dimensions and Construction

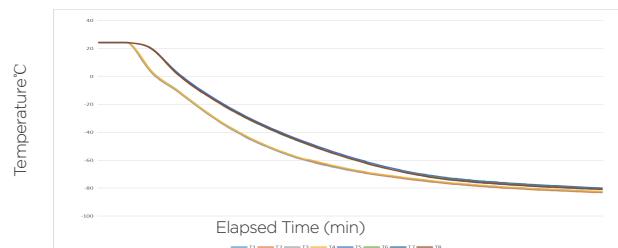
Interior (w*d*h)	595*720*1310 mm
Exterior (w*d*h)	885*995*1980 mm
Access Port	2 Access Port- for external monitoring probe(s) (25 mm diameter)
shelf	3   49 kg max capacity
Wheels	4 Swivel Casters + 2 Leveling Feet
Net Weight	283 kg   286 kg   283 kg
Gross Weight	339 kg   342 kg   339 kg

All performance data from 568L ULT freezer, 25 ambient, -81°C

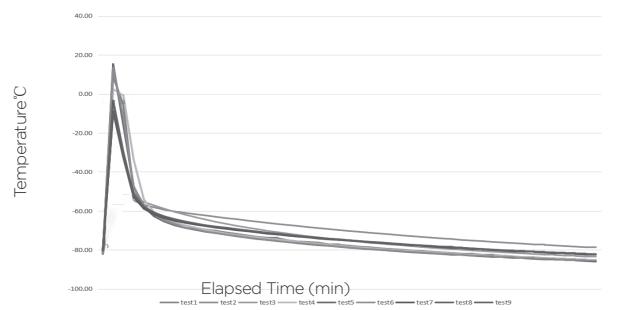
### Uniformity



### Cooling Speed



### DOR 1 minute



### Temperature recover curve

