



DualGuard ULT Freezer

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Scope of Application

Midea DualGuard ULT freezer can be used for the storage and protection of temperature sensitive samples, vaccines, longitudinal study samples, important medical research samples, valuable pharmaceutical products, clinical trial samples.



MD-86L568

DualGuard ULT Freezer

Safer by Design

Midea DualGuard ULT freezers are designed to offer the highest level of security for high-value samples. Using two independent refrigeration systems, if one system fails, the other can maintain the freezer's temperature uniformly in the -80°C range.



World-famous Components

The compressor and fan are using world-famous brands ,and imported from Germany and America directly. Lifespan increase up to 20%.



Multifunction Alarms

Include high, low temperature, sensor error, power failure, high ambient, door ajar, door open alarm, low battery alarm etc.



Superior Temperature Uniformity

Superior temperature uniformity greatly reduce risk of sample degradation caused by temperature fluctuation.



Fast Cabinet Pull Down

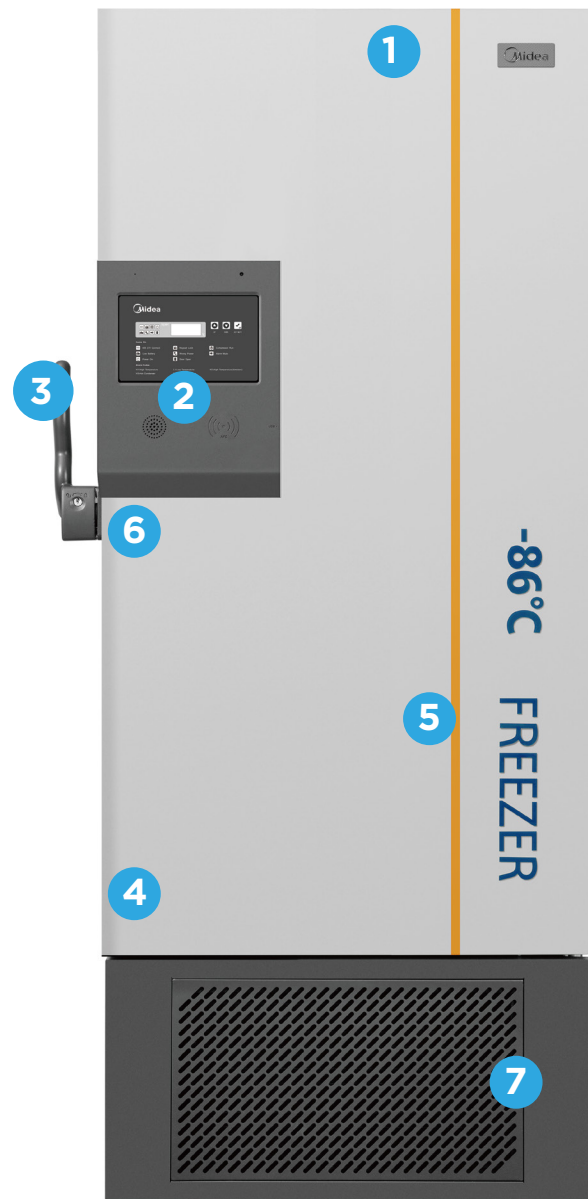
Usually takes an average of three hours to reach -81°C at 25°C ambient. The faster pull down , the safer for the samples.



Patented LBA Forming Technology

Midea patented forming agent can provide the highest density cabinet , the Space utilization increase 10%.

DualGuard ULT Freezer



1 Multi-layer Silicone Sealing Structure

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



2 Multi-level Alarms

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

3 Ingenious Handle Design

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



4 Stainless Steel Cabinet

Abrasive and corrosion resistance,easy clean.

5 VIP PLUS

VIP PLUS vacuum insulation provides up to 30% more storage capacity than a conventionally insulated freezer.

6 Heated Pressure Equalization Port

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

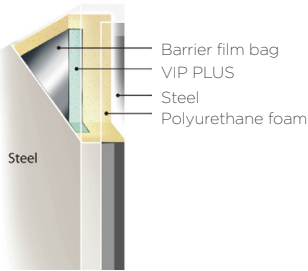
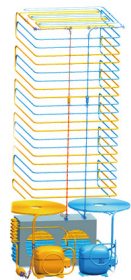
7 Filter Design

Tool-free removable filter design, easy and quick to clean the filter.

Midea Advanced Technologies

DualGuard Cooling system

Midea DualGuard Cooling System offers the high level security storage. Two independent systems, in the case of an unexpected failure of one cooling circuit,the other can maintain the freezer's temperature uniformly in the -80°C range.

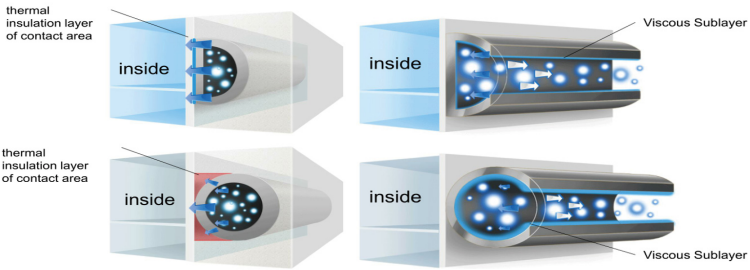


VIP PLUS Design

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

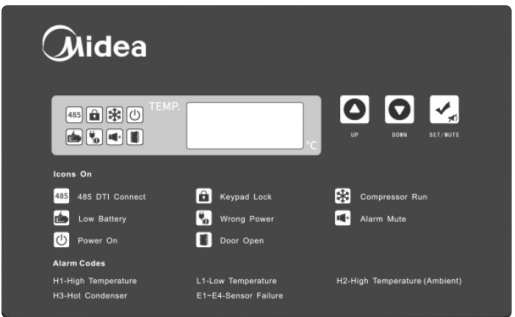
D-Shape Evaporator

Patented D-shape evaporating tube allow the bigger heating exchange area. The heating exchange rate increase up to 15%.More space contact, faster pull down.



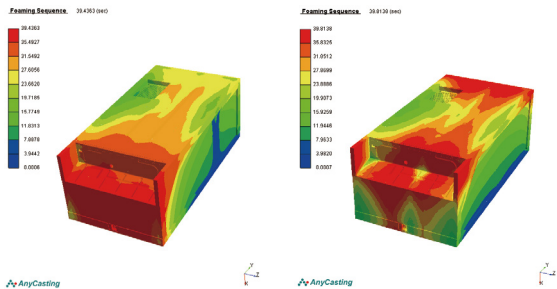
LED Display

The DualGuard ULT Freezers are managed by an integrated microprocessor controller with LED screen to provide optimal user experience. The built in USB port allows logged data to be easily transferred to a PC.



LBA Forming Technology

- 1.Better insulation, more energy-saving.
- 2.More reasonable of the foaming layer design, higher space utilization rate.

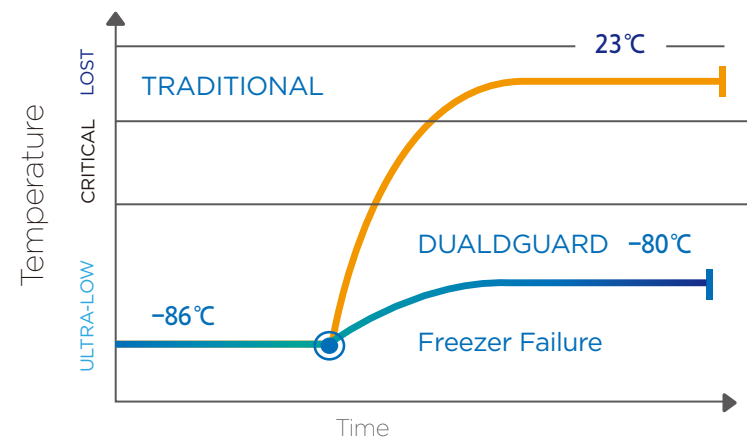


Before Improvement

After Improvement

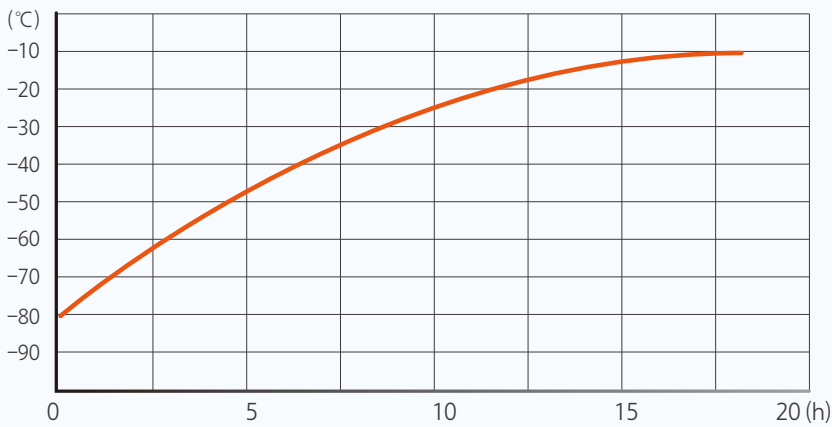
Discover Midea DualGuard ULT Freezer

Discover the DualGuard -86℃ Refrigeration System

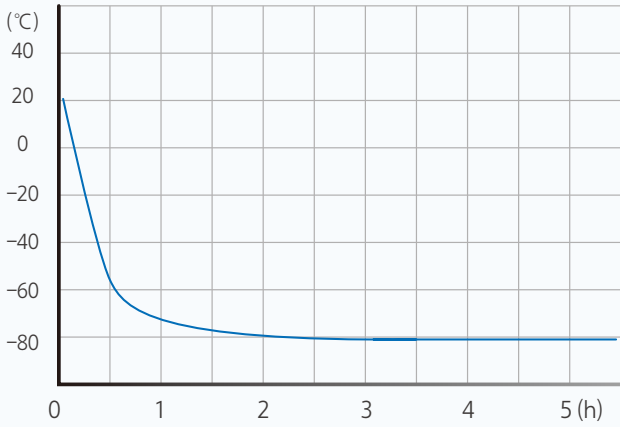


Comparison between Midea DualGuard system and traditional ULT freezer. Single compressor can remain the temperature -80C stably.

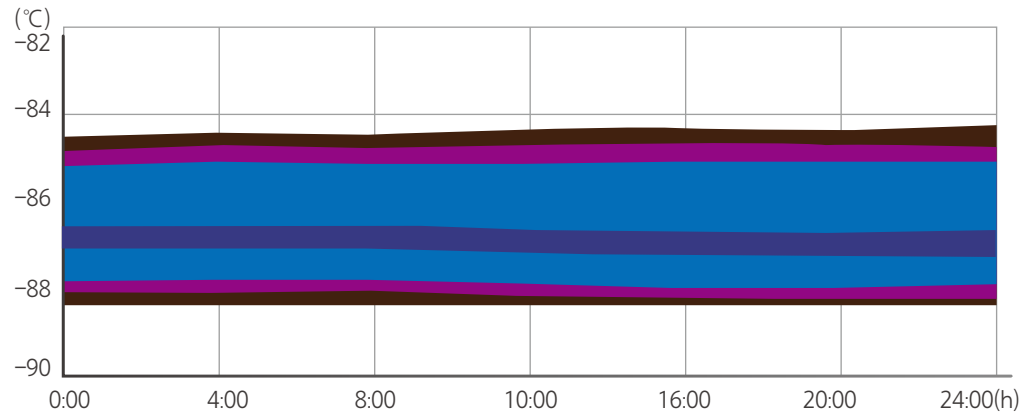
Temperature recover curve



Temperature cool down curve



Temperature uniformity



-86℃ ultra low temperature freezer

Item	Model No.	MD-86L568	MD-86L568T
Product Image	Product Image		
Technical Data	Cabinet Type	Upright	Upright
	Climate Class	N	N
	Cooling Type	Direct cooling	Direct cooling
	Defrost	Manual	Manual
	Cooling System	Twin Cooling	Twin Cooling
	Refrigerant	Mixed refrigerant	Mixed refrigerant
	Total Storage Volume(L)	568	568
	2ml Cryo Tube Qty	40000	40000
	External Material	High quality coated steel	High quality coated steel
	Inner Material	Stainless steel	Stainless steel
Control	Controller	Microprocessor	Microprocessor
	Display	LED	Touch Screen
	Temperature Accuracy(℃)	0.1	0.1
	Temperature Range	-40 ~ -86℃	-40 ~ -86℃
Dimensions	Product Dimensions(mm)(wxdxh)	885*995*1980	885*995*1980
	Interior Dimensions(mm)(wxdxh)	595*720*1310	595*720*1310
Electrical Data	Power Supply	110V-240V/50,60Hz	110-240V /50,60HZ
Functions	High Temperature Alarm	Y	Y
	Low Temperature Alarm	Y	Y
	Door Ajar	Y	Y
	Power Failure Alarm	Y	Y
	High condenser temperature alarm	Y	Y
	High ambient Temperature Alarm	Y	Y
	Low Battery	Y	Y
	Sensor Failure alarm	Y	Y
	USB Interface	Y	Y
	Door Heating	Y	Y
	Porthole	Y	Y
	Universal Wheel	Y	Y
	Caster	Y	Y