



Midea

Biomedical



DualGuard ULT Freezer

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-86L718



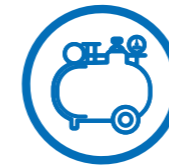
MD-86L718T

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



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.



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



MD-86L718

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.

3 Ingenious Handle Design

Ingenious handle design helps you easy to open and close door easier. Lockable handle safe-guards 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-proof, freeze-free.

7 Filter Design

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

Midea Advanced Technologies

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.



DualGuard Cooling system

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



VIP PLUS Design

D-Shape Evaporator

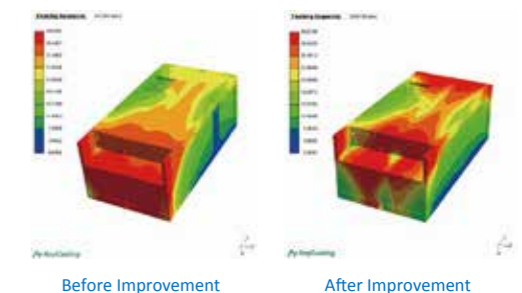


Patented D-shape evaporating tube allow the bigger heating exchange area. The heating exchange rate increase up to 15%. More space contact, faster pull down.



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

Integrated Microprocessor Controller



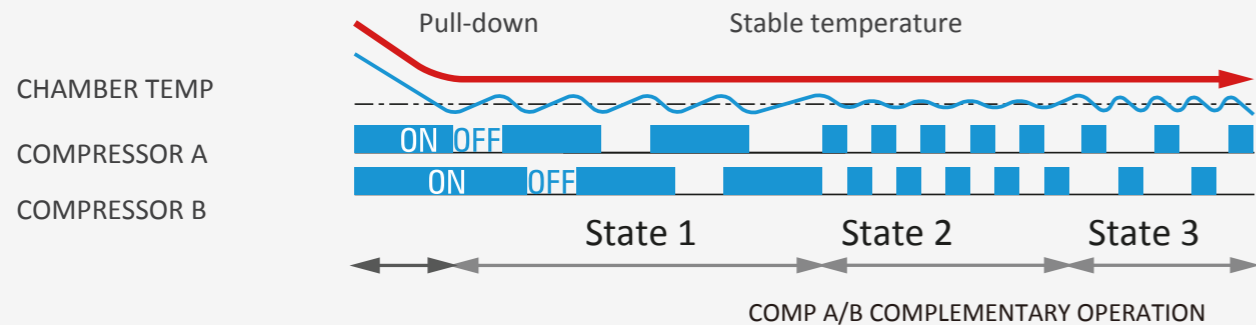
1. Better insulation, more energy-saving.
2. More reasonable of the foaming layer design, higher space utilization rate.

LBA Forming Technology

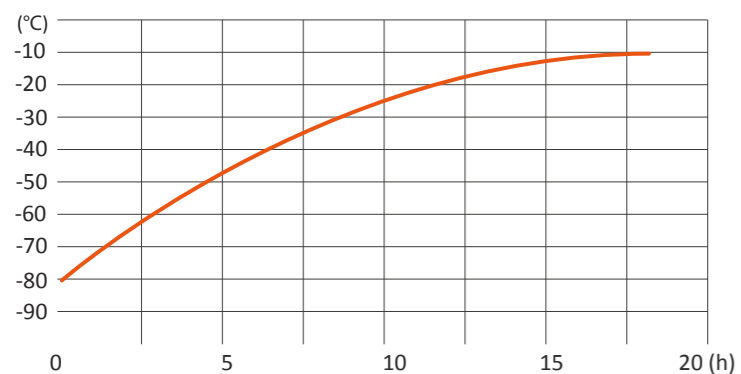
Discover Midea DualGuard ULT Freezer

Discover Midea Active ECO Technology

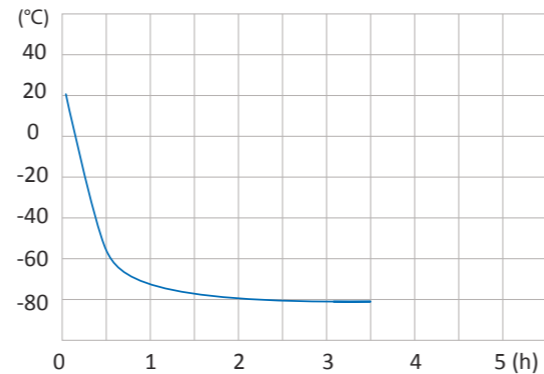
Midea Active ECO Technology is applied to all Midea ULT freezer, which means all the products default to run in ECO mode. Based on ECO technology, the compressors performance based on the loads or temperature change. The control system automatically tunes the speed of the compressors to optimize the operation. So, Midea Active ECO Technology can significantly reduce energy consumption while maintaining good interior temperature uniformity.



Temperature recover curve



Temperature cool down curve



-86°C Ultra-Low Temperature Freezer

Item	Model No.	MD-86L718	MD-86L718T
Product Image	Product Image		
	Cabinet Type	Upright	Upright
Technical Data	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)	718	718
	2ml Cryo Tube Qty	50000	50000
	External Material	High quality coated steel	High quality coated steel
	Inner Material	Stainless steel	Stainless steel
	Control	Controller	Microprocessor
Display		LED	Touch Screen
Temperature Accuracy(°C)		0.1	0.1
Temperature Range		-40~-86°C	-40~-86°C
Product Dimensions(mm)(W x D x H)		1030*995*1980	1030*995*1980
Dimensions	Interior Dimensions(mm)(W x D x H)	740*720*1310	740*720*1310
	Electrical Data	Power Supply	220~240V /50 HZ
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

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