

MDF-86V588

-86 °C Ultra Low Temperature Freezer



588 liters
400,000
samples



METHER CASCADE SYSTEM ULT SERIES

-86°C ULT freezer is specially designed and manufactured for long term storage of various biological products, including viruses, germs, erythrocytes, leucocyte and cutis. Applications can be found in blood banks, hospitals, edipemic prevention service, and research institutes, laboratories in electronic and chemical plants and biological engineering institutes.

METHER CASCADE SYSTEM



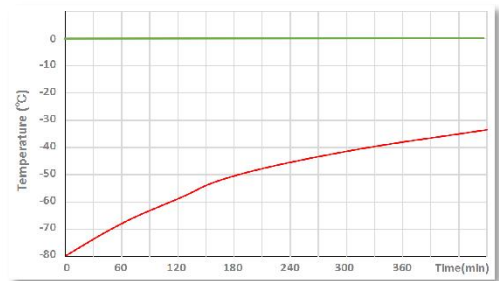
Super-stable Cooling System

As the most mature ultra-low temperature refrigeration technology in the world, the cascade refrigeration technology has the characteristics of stable performance, easy maintenance and long

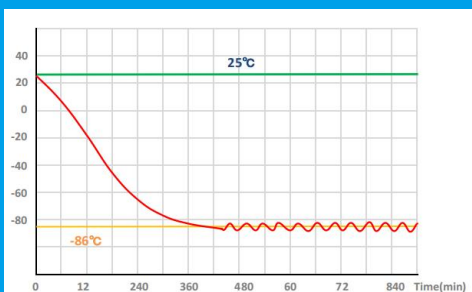


Advanced thermal insulation

Mether ULTs are designed with the latest generation of VIP technology to achieve thermal conductivity of 0.005 W(m.K). That makes ULTs more efficient in Insulation and less heat loss, so as to achieve the purpose of energy saving as well as space-saving.



Pull up test at ambient temp. 25°C



Pull down test at ambient temp. 25°C



Fast cooling performance

Cascade Cooling System uses 2-stage refrigeration cycles coupled with each other via heat exchanger to improve the refrigeration effect.

CONSTRUCTION

EXTERNAL STRUCTURE



File box

Easy to place log files



Ergonomic handle

Easy open
Lock&keys
Padlock hole



Quick-release filter

Easy open & Quick clean



7" touch screen

All information display

Air pressure balance valve



USB interface

White board



Heavy duty castors

Universal wheels



METHER ULT freezers are made of color spayed anti-bacterial and anti-corrosion cold-rolled steel. Various configurations and humanized designs bring great convenience to users.

Access port



Remote interface

RS232/485

Power on/off



FEATURES



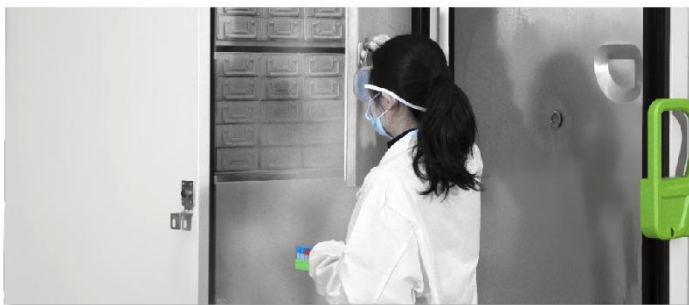
7" LCD touch screen

Easy operation and observation



Smart Operating System

Authorities, alarms, curve & events



Multi-layer sealing design

Better sealing, better insulation



International certifications

ISO9001, ISO13485 & CE verified



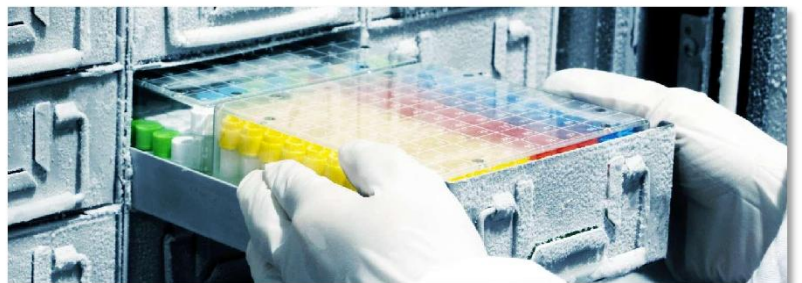
Eco-friendly

CFC-free refrigerant & insulation



Energy saving

More efficient cooling system



CONSTRUCTION



Adjustable shelves



PTC100 probe



Pressure-regulated inner door handle

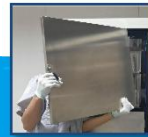


INTERNAL STRUCTURE

ALL
SUS 304
inside



Multi-layer silicone sealing gaskets
Low temperature resistance



Detachable inner doors



SPECIFICATIONS

Basic		Refrigeration System		Alarms	
Cooling method	Direct Cooling	Refrigerant	HC (R290&R170)	High/low temperature	Y
Defrost	Manual	Temp. controller	Microprocessor	Power failure	Y
Temperature range	-40℃~-86℃	System	Cascade system	Abnormal voltage	Y
Ambient temperature	10~32℃	Sensor	PTC 100	Sensor error	Y
Display	7" LCD touch screen	Compressor brand/QTY	SECOP/2	Door ajar	Y
Access port QTY/Dia.	1/25mm	Capacity(L/cu.ft)	588/20.76	Filter screen check	Y
USB Access	Y	Insulation	PURF+VIP	Thermostat failure	Y
Remote alarm Access	RS232/485	Inner door material/QTY	Foamed SUS304/2	Low battery	Y
Outside material	Color sprayed steel	Racks	16(5X5)	Condenser clean	Y
Inside material	SUS304	Boxes (2 Inches)	400	High ambient temperature	Y
Castor	Universal	Samples(2ml)	400000	Door ajar	Y
				Power failure backup (alarm)	72h
Electrical Data		Dimensions		Accessories	
Voltage frequency(V/Hz)	220V 50Hz/60Hz	Package size(W*D*H)(mm)	891*1155*1994.5	Chart recorder	Optional
Power(W)	815W	Exterior size(W*D*H)(mm)	606*738*1310	Data logger	Optional
Current(A)	8.33A	Interior size(W*D*H)(mm)	970*1138*2185	CO2 back up system	Optional
Power consumption	14.95Wh/24h	Shipping CBM	2.42	LN2 back up system	Optional
Noise(db)	53	N.W/G.W(kg)	307/368	Gloves	Optional

ACCESSORIES



LN₂/CO₂ backup system



Data logger



Chart recorder



Racks & Boxes



Gloves