



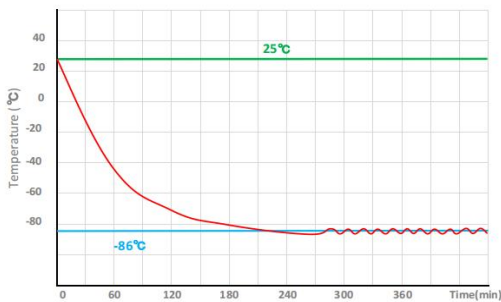
188 liters  
10,800 samples



### METHER AUTO-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 AUTO-CASCADE SYSTEM



Pull down test at ambient temp.



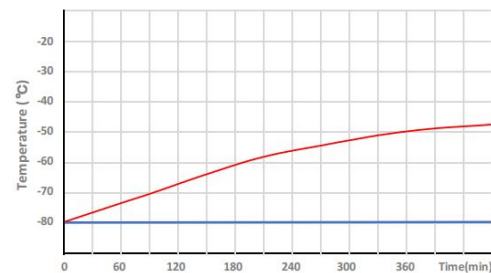
### Super-cooling technology

Auto-ascade cooling system is designed with a powerful compressor which drives the unique mixed refrigerant for fast cabinet cooling down. The system is simple in construction, energy saving and easy maintenance.



### Advanced thermal insulation

Advanced insulation materials and interior design of multiple independent spaces make ULTs more efficient in Insulation and less heat loss, so as to achieve the purpose of better thermal insulation performance and energy saving.



Pull up test at ambient temp. 25°C



MDF-86V588E

MDF-86V728E

MDF-86V838E

MDF-86V408E

MDF-86V340E

MDF-86V188E

MDF-86V58

METHER  
58 -838 liters  
2,400-60,000 samples  
for options

# EXTERNAL STRUCTURE



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.

**Large LED display**  
Full-function control panel

**Ergonomic handle**  
Easy open  
Padlock hole

**Quick-release filter**  
Easy open & Quick clean

**Proven hinges**

**Heavy duty castors**  
Universal wheels

**Access port**

**Remote interface**  
RS232/485

**USB interface**  
Power on/off

# FEATURES



**Large LED display**  
Full-function control panel



**10 types of Alarms**  
Audible and visual alarms

LED display

Operation status

Operation buttons

Audible alarm

Indicators



**Multi-layer sealing design**  
Better sealing, better insulation



**International certifications**  
ISO9001, ISO13485 & CE verified



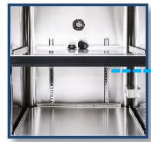
**Eco-friendly**  
CFC-free refrigerant & insulation



**Energy saving**  
More efficient cooling system



# INTERNAL STRUCTURE



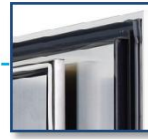
Adjustable shelves



PTC sensor



Pressure-regulated inner door handle



Multi-layer silicone sealing gaskets  
Low temperature resistance



SUS 304 inner door filled with PURF  
Detachable design

ALL  
SUS 304  
inside



# SPECIFICATIONS

Basic		Refrigeration System		Alarms	
Cooling method	Direct Cooling	Refrigerant	R4001(mixed gas)	High/low temperature	Y
Defrost	Manual	Temp. controller	Microprocessor	Power failure	Y
Temperature range	-40℃~-86℃	System	Auto-cascade	Abnormal voltage	Y
Ambient temperature	10~32℃	Sensor	PTC 100	Sensor error	Y
Display	LED digital	Compressor brand/QTY	CUBIGEL/1	Door ajar	Y
Access port QTY/Dia.	1/25mm	Capacity(L/cu.ft)	188/6.63	Filter screen check	Y
USB Interface	Yes/1	Insulation	PURF	Thermostat failure	Y
Remote alarm Access	Y	Inner door material/QTY	Foamed SUS304/3	Low battery	Y
RS485 Access	Y	Racks	9(4x3)	Condenser clean	Y
Outside material	Color sprayed steel	Boxes (2 Inches)	108	High ambient temperature	Y
Inside material	SUS304			Power failure backup (alarm)	72h
Electrical Data		Dimensions		Accessories	
Voltage frequency(V/Hz)	220V/50Hz	Package size(W*D*H)(mm)	915*928*1818	Chart recorder	/
Power(W)	660W	Exterior size(W*D*H)(mm)	830*810*1607.5	Data logger	Optional
Current(A)	3.14A	Interior size(W*D*H)(mm)	465*465*830	CO2 back up system	Optional
Power consumption	11.17Wh/24h	Shipping CBM	1.46	LN2 back up system	Optional
Noise(db)	52	N.W/G.W(kg)	194.5/220	Gloves	Optional

# ACCESSORIES



LN<sub>2</sub>/CO<sub>2</sub> backup system



Data logger



Chart recorder



Racks & Boxes



Gloves