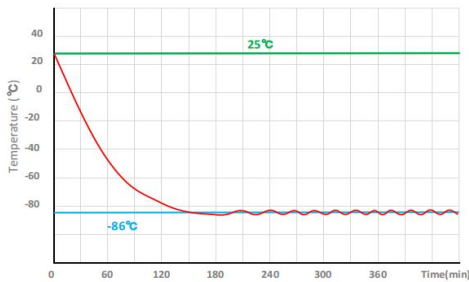




### METHER AUTO-CASCADE SYSTEM ULT SERIES-Undercounter Type

-86°C Mini 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

### METHER AUTO-CASCADE SYSTEM

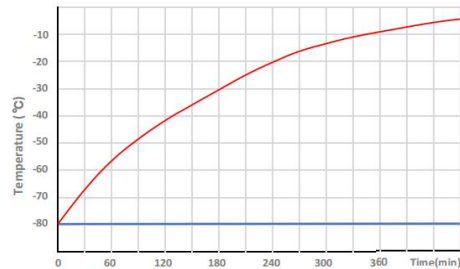


Pull down test at ambient temp.



### 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.



Pull up test at ambient temp. 25°C



### Advanced thermal insulation

The insulation 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.

58 - 838 liters  
2,400-60,000 samples



MDF-86V588E

MDF-86V728E

MDF-86V838E

MDF-86V408E

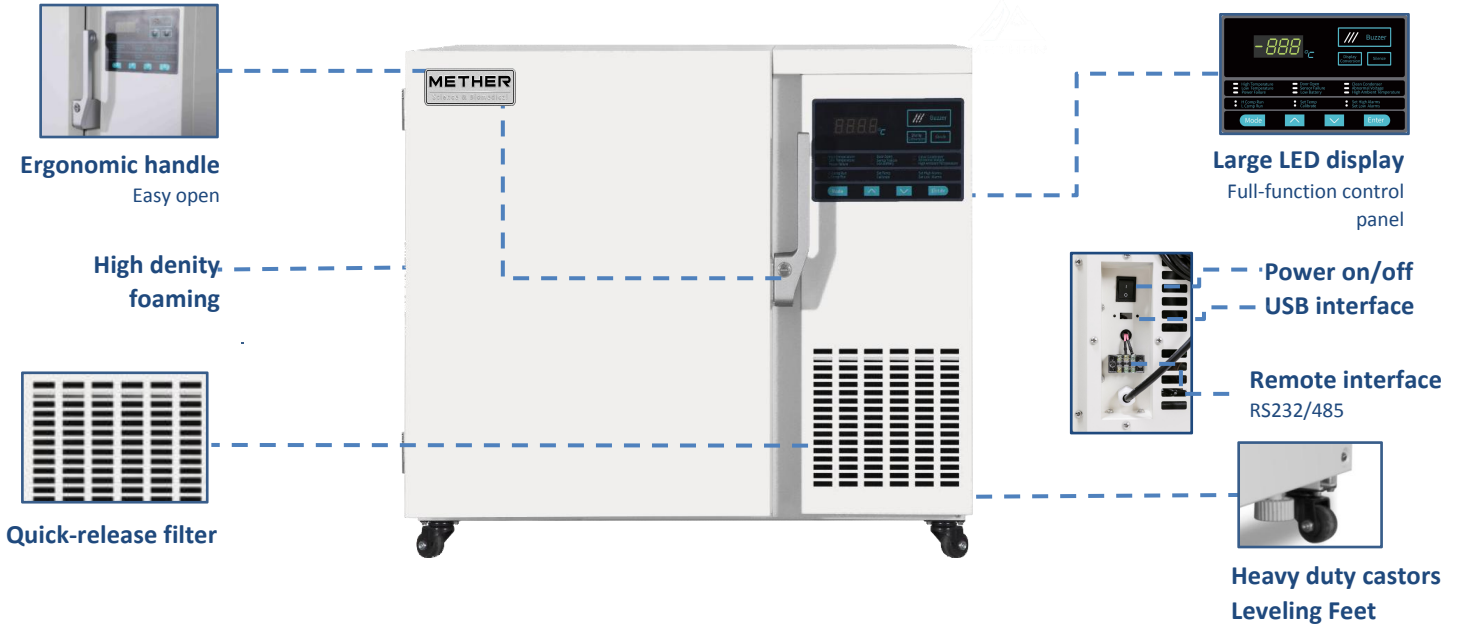
MDF-86V340E

MDF-86V188E

MDF-86V58

MDF-86V58U

# EXTERNAL STRUCTURE



Under -counter ULT freezers are made of color spayed & anti-corrosion cold-rolled steel outside, SUS403 inside for better performance. Various configurations and humanized designs bring great convenience to users.

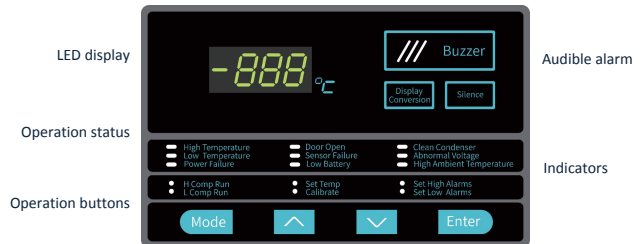
# FEATURES



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



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



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



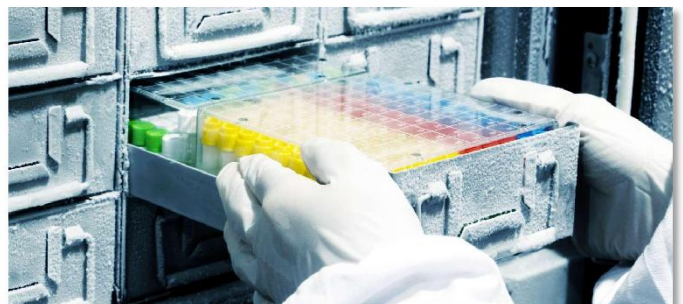
**International certifications**  
ISO9001, ISO13485 & CE verified



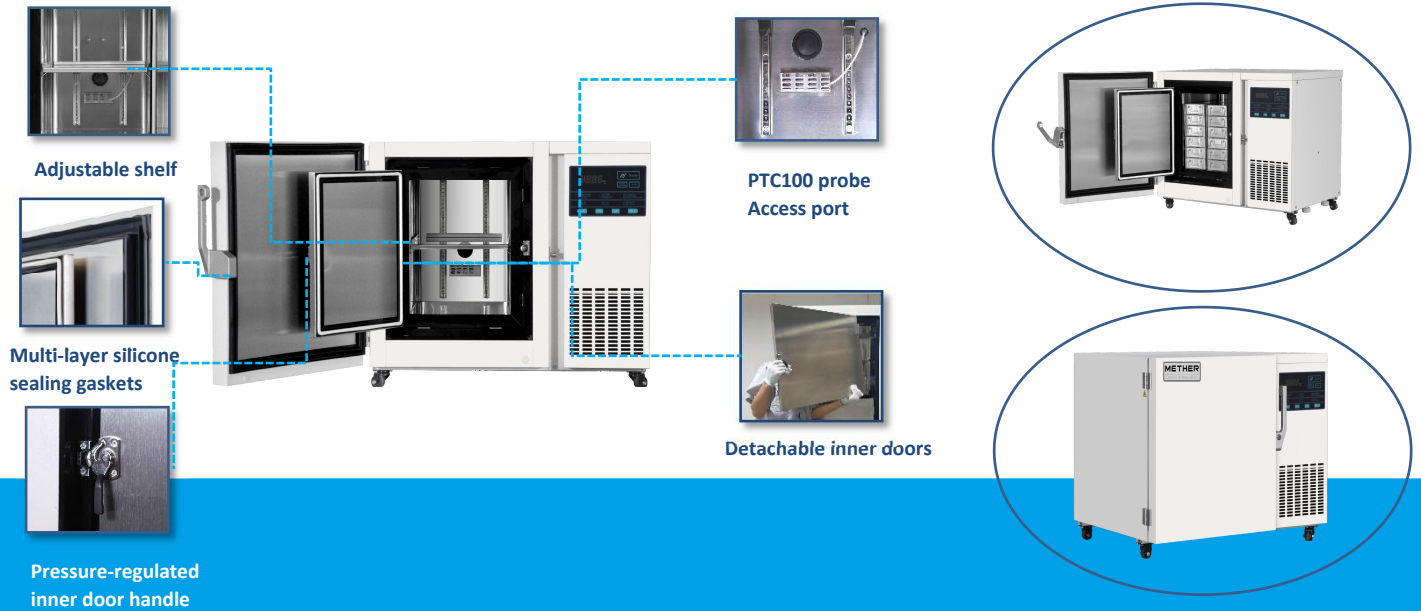
**Eco-friendly**  
CFC-free refrigerant & insulation



**Energy saving**  
More efficient cooling system



# INTERNAL STRUCTURE



# 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	SECOP/1	Door ajar	Y
Access port QTY/Dia.	1/25mm	Capacity(L/cu.ft)	58/2.0	Filter screen check	Y
USB Intereface	Yes/1	Insulation	PURF	Thermostat failure	Y
Remote alarm Access	Y	Inner door material/QTY	Foamed SUS304/1	Low battery	Y
RS485 Access	Y	Racks	2(6x2)	Condenser clean	Y
Outside material	Color sprayed steel	Boxes (2 Inches)	24	High ambient temperature	Y
Inside material	SUS304	Samples(2ml)	2,400	Door ajar	Y
Castor	Universal			Power failure backup (alarm)	72h
Electrical Data		Dimensions		Accessories	
Voltage frequency(V/Hz)	220V 50Hz/60Hz	Package size(W*D*H)(mm)	966*818*932	Chart recorder	Optional
Power(W)	336W	Exterior size(W*D*H)(mm)	904*798*748	Data logger	Optional
Current(A)	3A	Interior size(W*D*H)(mm)	330*453*410	CO2 back up system	Optional
Power consumption	5.3 Wh/24h	Shipping CBM	0.73	LN2 back up system	Optional
Noise(db)	50	N.W/G.W(kg)	94/128	Gloves	Optional

# ACCESSORIES



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



Data logger



Chart recorder



Racks & Boxes



Gloves