

# MDF-86V838E

## -86°C Ultra Low Temperature Freezer

### PROMED AUTO-CASCADE SYSTEM SERIE

-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, epidemic prevention service, and research institutes, laboratories in electronic and chemical plants and biological engineering institutes.



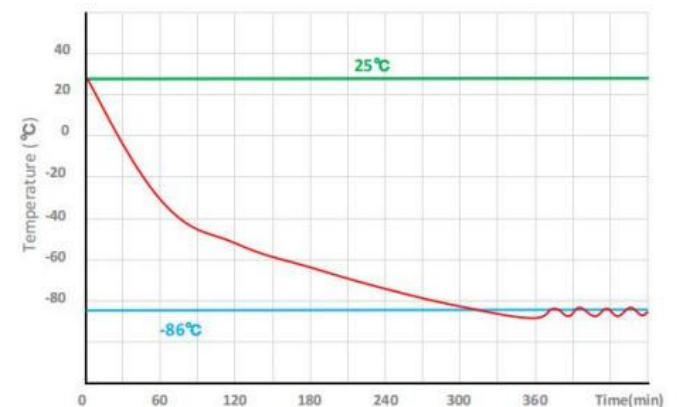
#### Super-cooling technology

The powerful cooling system drives the unique mixed refrigeration system for fast cooling down. This system is stable, energy saving and easy maintenance

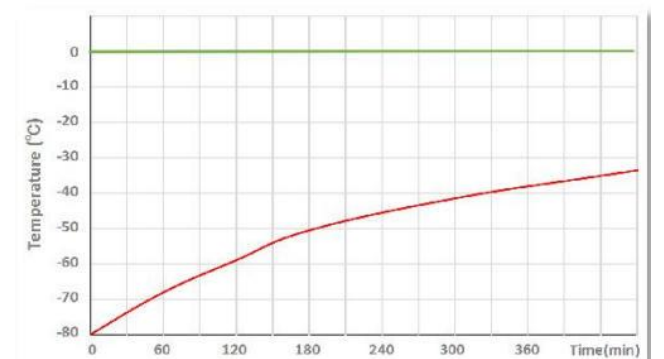


#### Advanced thermal insulation

The 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 down test at ambient temp



Pull up test at ambient temp. 25°C

### Features



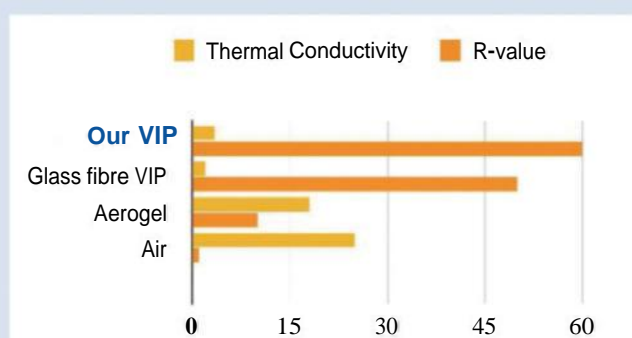
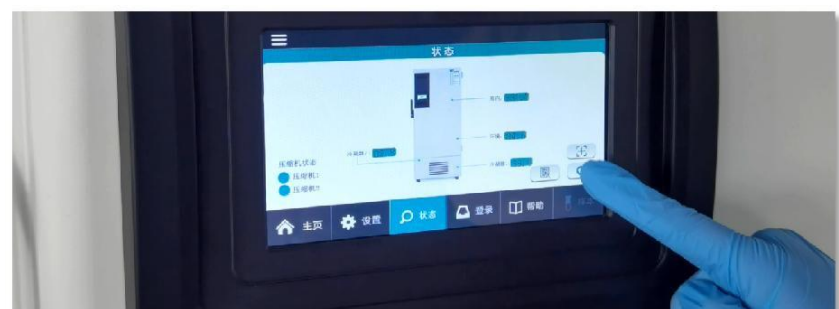
#### 7" LCD touch screen

Easy operation and observation



#### Smart Operating System

Authorities, alarms, curve & events



#### Advanced insulation tech

Fumed Silicon V.I.P & PURF



#### Multi-layer sealing design

Foamed inner doors with silicon gaskets



#### Eco-friendly

CFC-free refrigerant & insulation

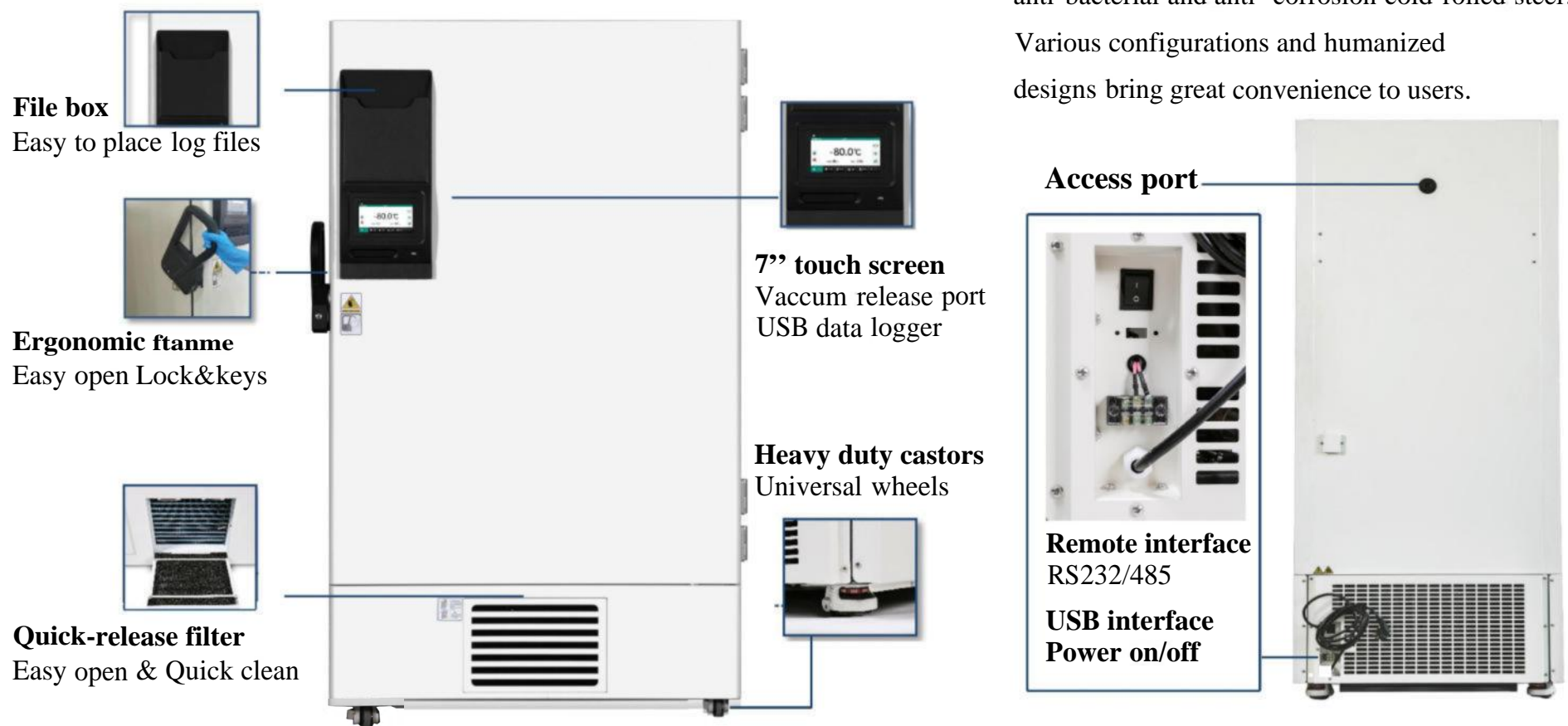


#### Energy saving

More efficient cooling system



The 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.





## Specifications

Basic	
Cooling method	Direct Cooling
Defrost	Manual
Temperature range	-40C~-86°C
Ambient temperature	10~32°C
Display	LED digital
Access port QTY/Dia.	1/25mm
USB Intereface	Yes/1
Remote alarm Access	RS232/485
Outside material	Color sprayed steel
Inside material	SUS304
Castor	Universal

Refrigeration System	
Refrigerant	R4001(mixed gas)
Temp. controller	Microprocessor
System	Auto-cascade
Sensor	PTC
Compressor brand/QTY	SECOP/2
Capacity(L/cu.ft)	838/29.59
Insulation	PURF+VIP
Inner door material/QTY	Foamed SUS304/2
Racks	24(5X5)
Boxes (2 Inches)	600
Samples(2ml)	60000

Alarms	
High/low temperature	Y
Power failure	Y
Abnormal voltage	Y
Sensor error	Y
Door ajar	Y
Filter screen check	Y
Thermostat failure	Y
Low battery	Y
Condenser clean	Y
High ambient temperature	Y
Power failure backup (alarm)	72h

Electrical Data	
Voltage frequency(V/Hz)	220V 50HZ/60HZ
Power(W)	1700W
Current(A)	10.75A
Power consumption	19.98KWH/24H
Noise(db)	55

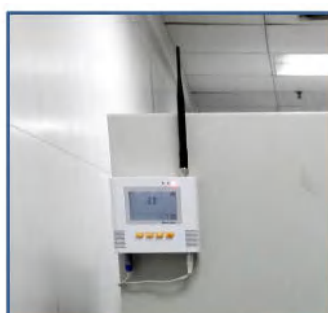
Dimensions	
Package size(W*D*H)(mm)	1270*1100*2185
Exterior size(W*D*H)(mm)	1160*1172*1994.5
Interior size(W*D*H)(mm)	894*718*1310
Shipping CBM	3.05
N.w/G.w(kg)	391/424

Accessories	
Chart recorder	Optional
Data logger	Optional
C02 back up system	Optional
LN2 back up system	Optional
Gloves	Optional

## ACCESSORIES



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



Data logger



Chart recorder



Racks & Boxes



Gloves