838 liters
60,000
samples

AUTO-CASCADE SYSTEM SERIES

-86℃ 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.

AUTO-CASCADE SYSTEM
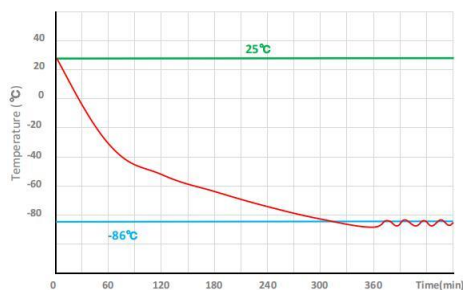
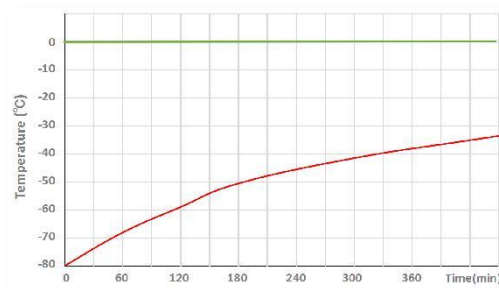Pull down test at ambient temp.

❄ 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 up test at ambient temp. 25℃

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

MDF-86V588E   MDF-86V728E   MDF-86V838E   MDF-86V408E   MDF-86V340E   MDF-86V188E   MDF-86V58

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
Vacuum release port
USB data logger
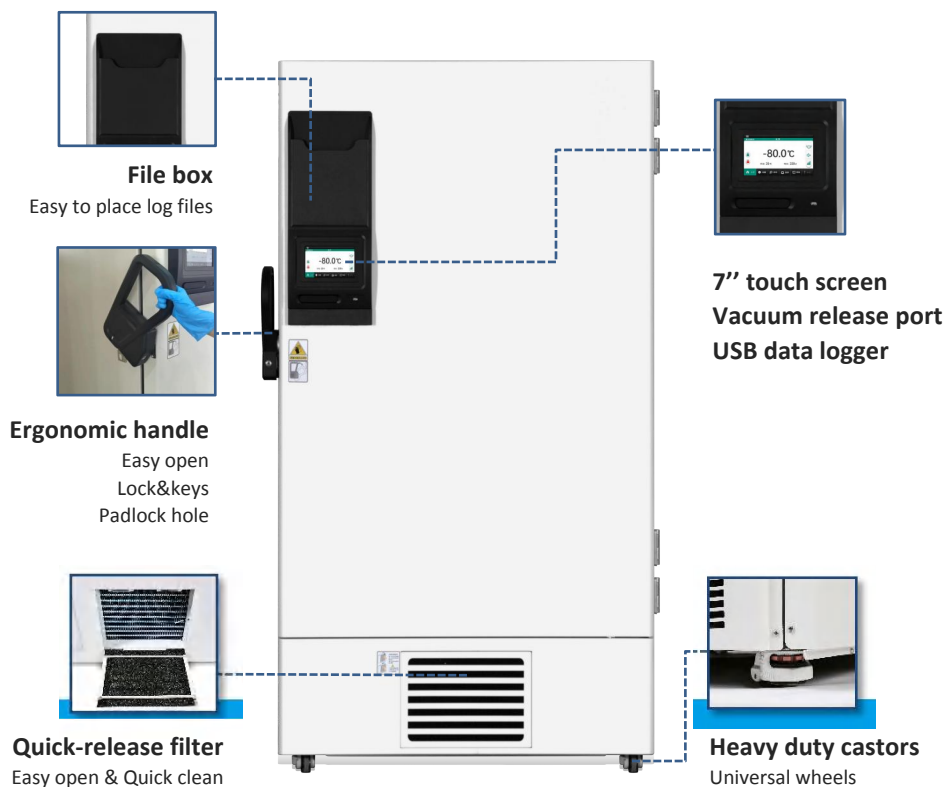
The ULT freezers are made of color spayed anti-bacterial and anti-corrosion cold-rolled steel. Various configurations and humanized designs bring great convenience to users.
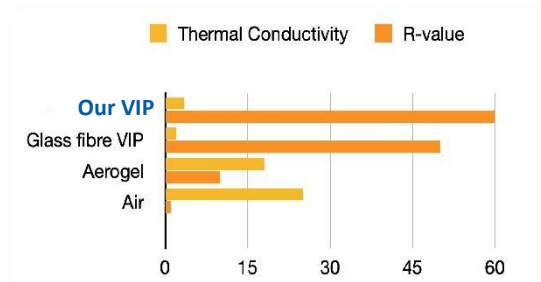
Heavy duty castors
Universal wheels

Access port

Remote interface
RS232/485

USB interface
Power on/off
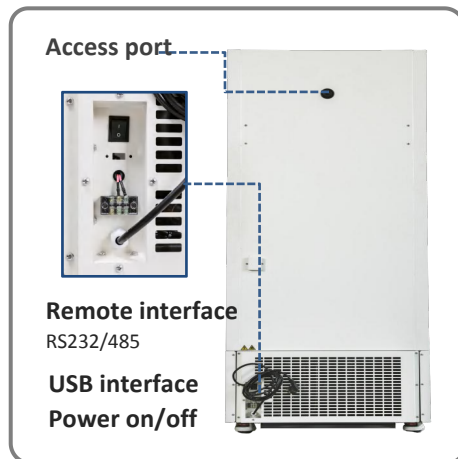
FEATURERS

7" LCD touch screen
Easy operation and observation

Smart Operating System
Authorities, alarms, curve & events

Thermal Conductivity | R-value
Our VIP
Glass fibre VIP
Aerogel
Air
0 15 30 45 60

Advanced insulation tech
Fumed Silicon V.I.P & PURF

Multi-layer sealing
Foamed inner doors with silicon

Eco-friendly
CFC-free refrigerant & insulation

Energy saving
More efficient cooling system

INTERNAL STRUCTURE

Adjustable shelves

PTC sensor

Pressure-regulated inner door handle

ALL SUS 304 inside

Multi-layer silicone sealing gaskets
Low temperature resistance

SUS 304 inner door filled with PURF
Detachable design
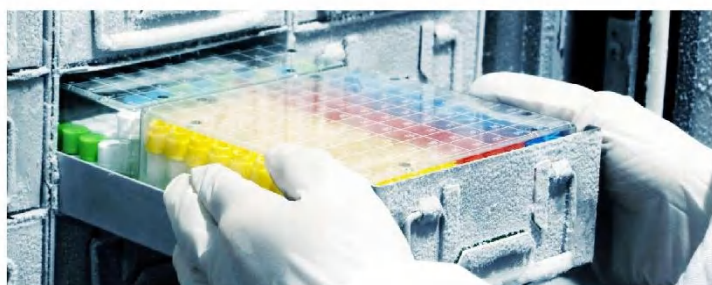
SPECIFICATIONS

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°C～-86°C	System	Auto-cascade	Abnormal voltage	Y
Ambient temperature	10~32℃	Sensor	PTC	Sensor error	Y
Display	LED digital	Compressor brand/QTY	SECOP/2	Door ajar	Y
Access port QTY/Dia.	1/25mm	Capacity(L/cu.ft)	838/29.59	Filter screen check	Y
USB Intereface	Yes/1	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	24(5X5)	Condenser clean	Y
Inside material	SUS304	Boxes (2 Inches)	600	High ambient temperature	Y
Castor	Universal	Samples(2ml)	60000	Power failure backup (alarm)	72h

Electrical Data		Dimensions		Accessories	
Voltage frequency(V/Hz)	220V 50Hz/60Hz	Package size(W*D*H)(mm)	1270*1100*2185	Chart recorder	Optional
Power(W)	1700W	Exterior size(W*D*H)(mm)	1160*1172*1994.5	Data logger	Optional
Current(A)	10.75A	Interior size(W*D*H)(mm)	894*718*1310	CO2 back up system	Optional
Power consumption	19.98KWh/24h	Shipping CBM	3.05	LN2 back up system	Optional
Noise(db)	55	N.W/G.W(kg)	391/424	Gloves	Optional

ACCESSORIES

LN2/CO2 backup system

Data logger

Chart recorder

Racks & Boxes

Gloves