UL · CE · ISO9001 · ISO13485 · ISO14001 · ISO45001

728 liters 50,400 samples

Universities · CDCs · Pharmaceutical · Deep sea fishery · Animal husbandry · Research institutions Laboratories · HOSPITAL · Hospitals · Military industry · Vaccine storage · Biological engineering

## CASCADE SYSTEM ULT SERIES

-86ºC 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
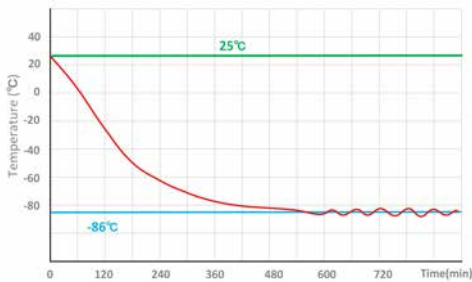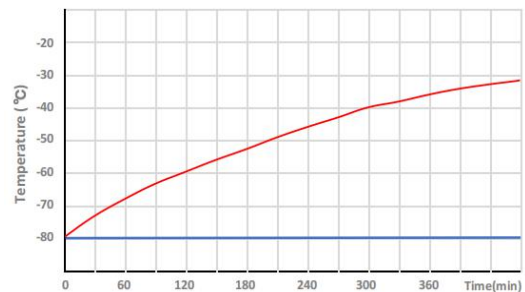

Pull down test at ambient temp. 25℃

Advanced thermal insulation

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.

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 service life.

Pull up test at ambient temp. 25℃

MDF-86V838 · MDF-86V728 · MDF-86V588 · MDF-86V408 · MDF-86V338

338 -838 liters 19,200-60,000 samples for options

EXTERNAL STRUCTURE

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.

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 borad

Heavy duty castors
Universal wheels

Access port

Remote interface
RS232/485

Power on/off

FEATURERS

7" LCD touch screen
Easy operation and observation

Smart Operating System
Authorities, alarms, curve & events

Multi-layer sealing design
Better sealing, better insulation

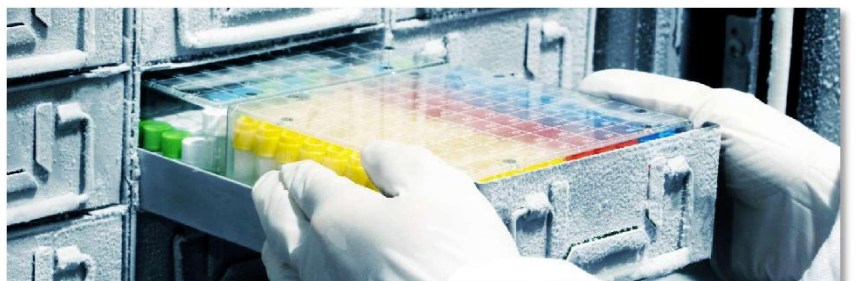**International certifications**
UL, ISO9001, ISO13485 & CE verified

Eco-friendly
CFC-free refrigerant & insulation

Energy saving
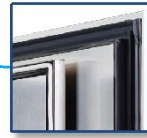More efficient cooling system
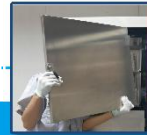
INTERNAL STRUCTURE

Adjustable shelves

PTC sensor

Pressure-regulated inner door handle

Multi-layer silicone sealing gaskets
Low temperature resistance

ALL SUS 304 inside

SUS 304 inner door filled with PURF
Detachable design

SPECIFICATIONS

Basic		Refrigeration System		Alarms	
Cooling type	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	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)	728/25.70	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	18(5x4)+6(6x4)	Condenser clean	Y
Inside material	SUS304	Boxes (2 Inches)	504	High ambient temperature	Y
Castor	Universal	Samples(2ml)	50,400	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)	1320*970*2185	Chart recorder	Optional
Power(W)	935W	Exterior size(W*D*H)(mm)	1248*975*1994.5	Data logger	Optional
Current(A)	8.48A	Interior size(W*D*H)(mm)	963*558*1350	CO2 back up system	Optional
Power consumption	15.99kWh/24h	Shipping CBM	2.8	LN2 back up system	Optional
Noise(db)	53	N.W/G.W(kg)	360/401.5	Gloves	Optional

ACCESSORIES

LN₂/CO₂ backup system

Data logger

Chart recorder

Racks & Boxes

Gloves