



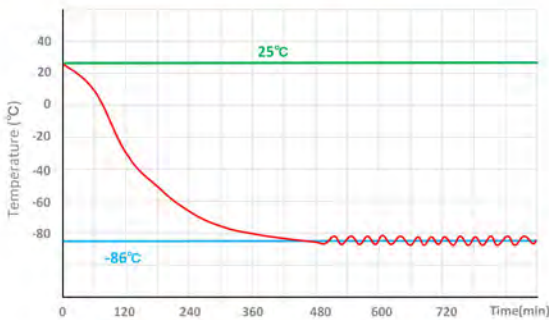
408 liters  
40,000 samples



### 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.

### CASCADE



Pull down test at ambient temp. 25°C



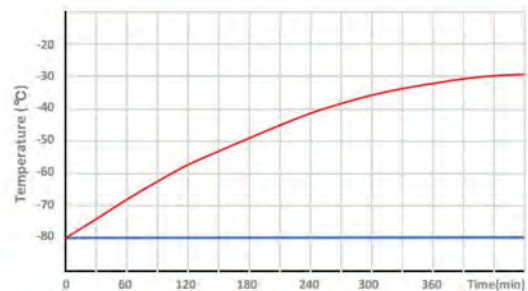
### Advanced thermal insulation

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.



### 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°C



MDF-86V838



MDF-86V728



MDF-86V588



MDF-86V408

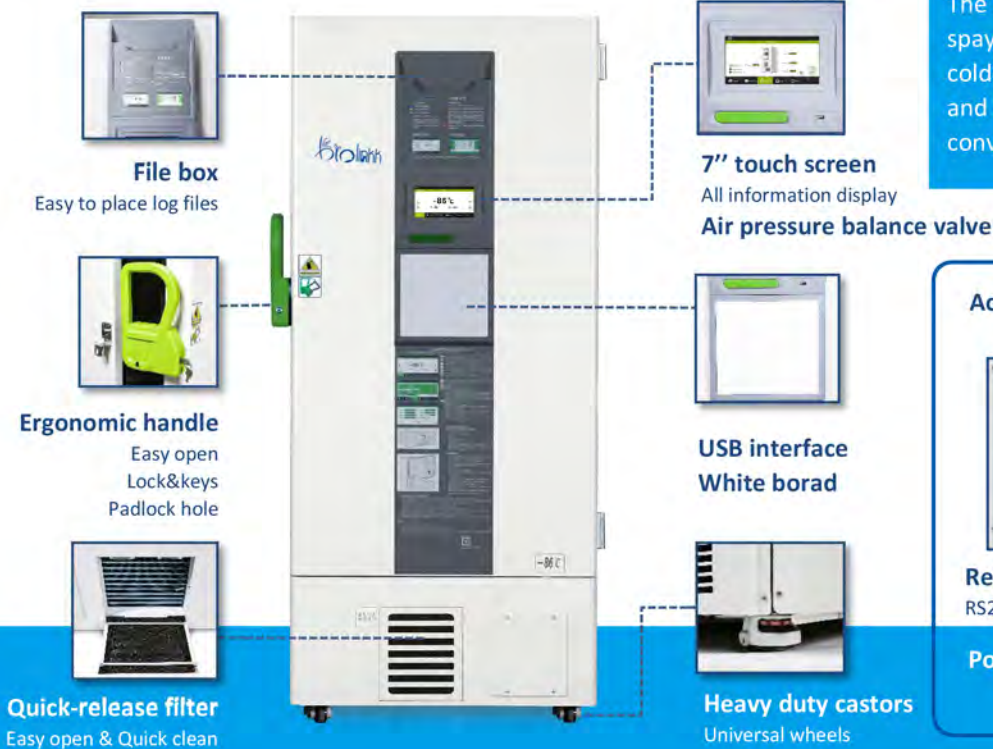


MDF-86V338

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



## EXTERNAL STRUCTURE



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.



## 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



SUS 304 inner door filled with PURF  
Detachable design

**ALL SUS 304 Inside**




# SPECIFICATIONS

Basic		Refrigeration System		Alarms	
Cooling method	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)	408/14.40	Filter screen check	Y
USB Access	Y	Insulation	PURF	Thermostat failure	Y
Remote alarm Access	RS232/485	Inner door material/QTY	Foamed SUS304/2	Low battery	Y
Outside material	Color sprayed steel	Racks	8*(5X4)+8*(4X4)	Condenser clean	Y
Inside material	SUS304	Boxes (2 Inches)	288	High ambient temperature	Y
Castor	Universal	Samples(2ml)	28,800	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)	954*955*2094	Chart recorder	Optional
Power(W)	845W	Exterior size(W*D*H)(mm)	891*992*1945.5	Data logger	Optional
Current(A)	8.43A	Interior size(W*D*H)(mm)	606*575*1180	CO2 back up system	Optional
Power consumption	16.21Wh/24h	Shipping CBM	1.93	LN2 back up system	Optional
Noise(db)	50	N.W/G.W(kg)	292/317	Gloves	Optional

# ACCESSORIES



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



Data logger



Chart recorder



Racks & Boxes



Gloves