

MDF-86V838E

-86°C Ultra Low Temperature Freezer

TRUFROST®
Biomedical



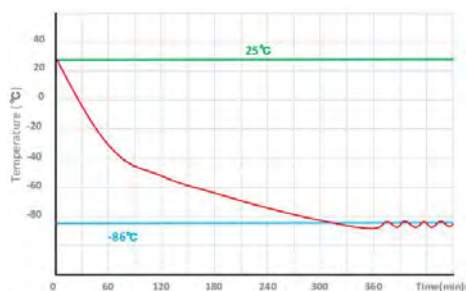
838 liters
60,000
samples



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

AUTO-CASCADE SYSTEM



Pull down test at ambient temp.



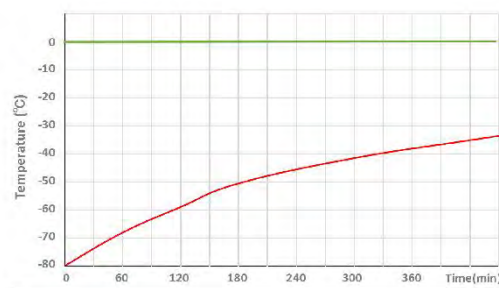
Advanced thermal insulation

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.



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



Pull up test at ambient temp. 25°C



MDF-86V588E

MDF-86V728E

MDF-86V838E

MDF-86V408E

MDF-86V340E

MDF-86V188E

MDF-86V58

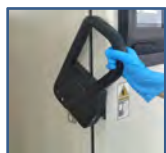
58 -838 liters
2,400-60,000
samples

EXTERNAL STRUCTURE



File box

Easy to place log files



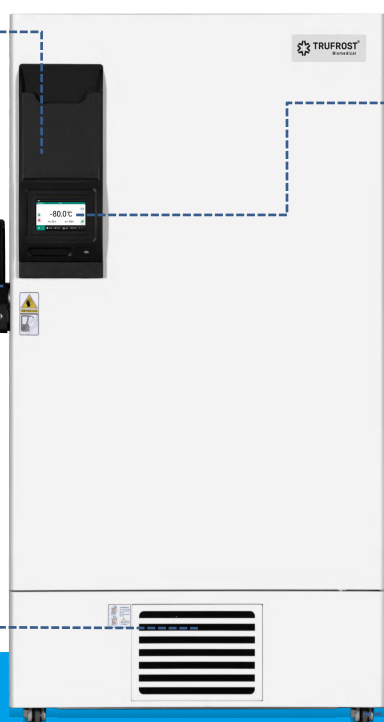
Ergonomic handle

Easy open
Lock&keys
Padlock hole



Quick-release filter

Easy open & Quick clean



7" touch screen

Vacuum release port
USB data logger

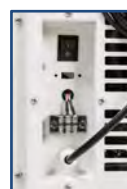


Heavy duty castors

Universal wheels

The ULT freezers are made of color sprayed anti-bacterial and anti-corrosion cold-rolled steel. Various configurations and humanized designs bring great convenience to users.

Access port



Remote interface

RS232/485

USB interface

Power on/off



FEATURERS



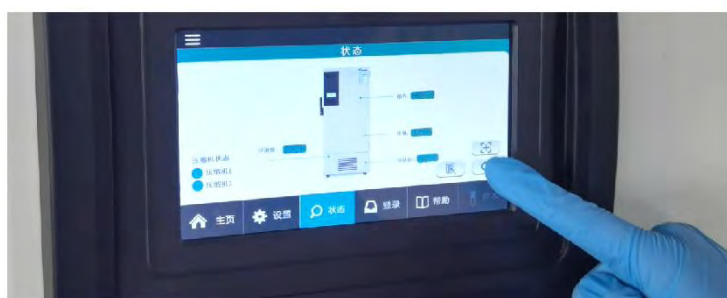
7" LCD touch screen

Easy operation and observation

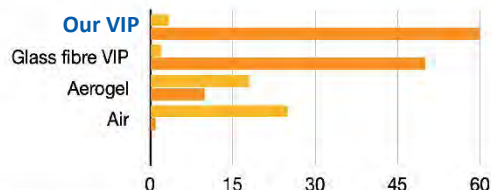


Smart Operating System

Authorities, alarms, curve & events



■ Thermal Conductivity ■ R-value



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



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	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°C	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) Optional	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	14.00KWh/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

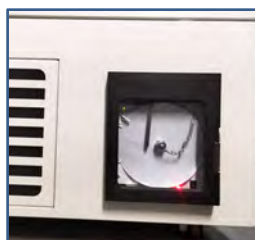


Chart recorder



Racks & Boxes



Gloves

Trufrost Cooling Pvt. Ltd.

1214 & 1215, Tower B, Emaar Digital Greens, Golf Course Extn.
Road, Sector 61, Gurugram – 122011, Haryana, India

www.trufrostbiomedical.com