

# MDF-86V838D

# -86 °C Ultra Low Temperature Freezer



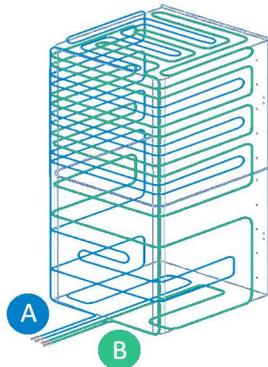
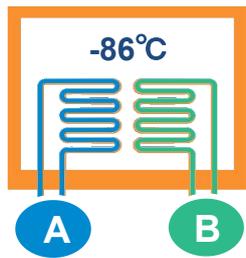
**DUAL SYSTEM**



### METHER DUAL 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.

## METHER DUAL SYSTEM

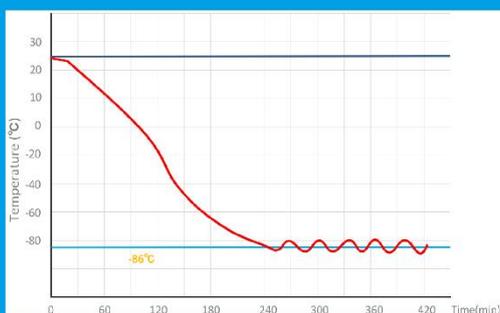
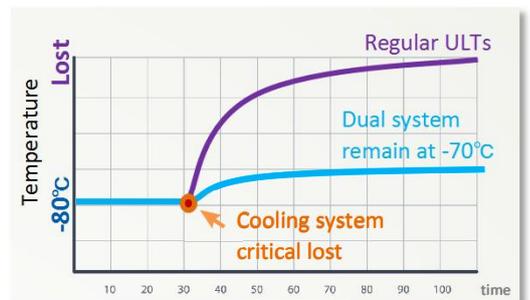


### ❄️ 2 Independent Cooling System

Dual cooling system is designed with 2 independent cooling systems which provides extra insurance for bio-samples. Dual cooling system maximizes optimal reliability, longevity

### ✓ Extreme Safety

Should one system unexpectedly fail, the other will maintain a temperature in the -70°C range ensuring that the sensitive samples not put at risk separately.



Pull down test at ambient temp. 25°C

### ⬇️ Ultimate cooling performance

Under normal working conditions, the 2 independent systems start in sequence at intervals. Then 2 systems work together to get a rapid pull-down performance.

# CONSTRUCTION

## EXTERNAL STRUCTURE



METHER 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 board



### Heavy duty castors

Universal wheels

### Access port



### Remote interface

RS232/485

### Power on/off



# FEATURES



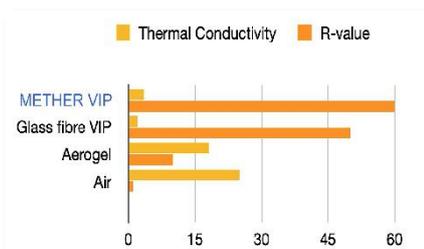
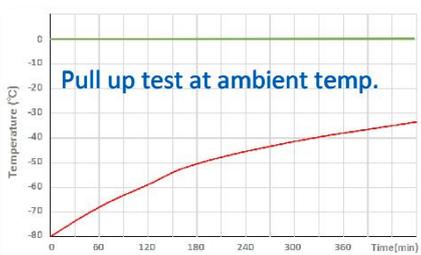
## 7" LCD touch screen

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



# CONSTRUCTION



Adjustable shelves



PTC100 probe



Pressure-regulated inner door handle

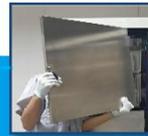


## INTERNAL STRUCTURE

ALL SUS 304 inside



Multi-layer silicone sealing gaskets  
Low temperature resistance



Detachable inner doors



# 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	Dual system	Abnormal voltage	Y
Ambient temperature	10~32°C	Sensor	PTC100	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)	838/29.59	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	24(5X5)	Condenser clean	Y
Inside material	SUS304	Boxes (2 Inches)	600	High ambient temperature	Y
Castor	Universal	Samples(2ml)	60000	Door ajar	Y
				Power failure backup (alarm)	72h

Electrical Data		Dimensions		Accessories	
Voltage frequency(V/Hz)	220V 50Hz	Package size(W*D*H)(mm)	1262×1098×2185	Chart recorder	Optional
Power(W)	1700W	Exterior size(W*D*H)(mm)	1179×1135×1994.5	Data logger	Optional
Current(A)	10.75A	Interior size(W*D*H)(mm)	894*718*1310	CO2 back up system	Optional
Power consumption	19.98Wh/24h	Shipping CBM	3.12	LN2 back up system	Optional
Noise(db)	55	N.W/G.W(kg)	391/424	Gloves	Optional

# ACCESSORIES



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



Data logger



Chart recorder



Racks & Boxes



Gloves