

## Ultra Low Temperature Freezer

### MDF-86V188E

Ultra Low Temperature Freezer are specially designed to store samples products.

#### Features

- Wide temperature range :10°C~32°Cambient temperature can reach -86°C.
- Accurate Temperature control technology to make the temperature maintain -40°C~-86°Cand accuracy 0.1 °C.
- Independent research and development of mixed refrigerant can make device save energy 50%.
- Better uniformity, uniformity is increased 30%.
- The single level optimization of auto cascade refrigeration system design, less refrigeration component for easy maintenance.
- 304 stainless steel inner chamber for friendly using and easy cleaning.

#### Safety

- Build-in back-up battery to display temperature and to operate audible and visual alarm system for up to 72 hours without AC power.
- Visual and audible alarm system:High/low temperature,Sensor error, Thermostat failure alarm
- Power failure protection: turn on delay of the cooling system when power failure,restart delay protection.
- Keyboard lock, password protection to avoid set parameter randomly.
- Special noise reduction design.

#### Humanized design

- 4 casters with stopper for easy moving and fixation.
- Standard 25mm test hole for easy connecting to temperature monitoring systems.
- 2 adjustable shelves for easy storing.
- Removable condenser dust gauze convenient for cleaning and maintenance.
- Removable inner door for user to defrost and clean.
- Standard USB port,USB port to read temperature and alarm conditions in recent 1 months.

#### Special

- Patented technology, mixed refrigerant.  
Save energy up to 50%.  
Cold storage box loading QTY:10800  
Build-in back-up battery: 72 hours power failure alarm.  
3 visual and audible alarms.



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## Parameters

### Performance

Temperature Range	-40~-86°C
Ambient Temperature	+10~+32°C
Controller	Microprocessor
Display	Digital Display

### Refrigeration System

Compressor/Brand	1/GUBIGEL
Refrigerant	Mixed
Cooling Type	Direct cooling
Defrost Type	Manual

### Electrical Data

Power Supply(V/Hz)	220/50~60; 115/60
Rated Power(W)	610
Electrical Current(A)	3.3
Power Consumption	8.2 kWh/24h

### Alarm

High/Low Temperature	Y
Sensor Error	Y
Power failure backup system	72H
Thermostat failure	Y

### Dimensions

Capacity	188L
Interior Size(W*D*H)	465*465*830mm
Exterior Size(W*D*H)	830*810*1607.5mm
Package Size(W*D*H)	915*928*1818mm
N.t./G.t.(approx)	145/180kg
Loading Qty(20'/40'/40'H)	12/24/24

### Accessories

Caster	4
Test hole/Diameter	1/25mm
Inner Door/Shelf	3/2
Chart recorder	/
CO2 back up system	Optional
LN2 back up system	Optional

