Ultra Low Temperature Freezer
MDF-86V688
Ultra Low Temperature Freezer are specially designed to store samples products.

Features

- Two-compressor cascade refrigeration system specially designed for cryogenic applications.
- Wide available voltage range: 198V~242V.
- Wide temperature range :10°C~43°Ccan reach -86°C.
- Accurate Temperature control technology to make the temperature maintain -60°C~-86°Cand accuracy 0.1 °C.
- USB port to read temperature and alarm conditions in recent 1 months.
- Removable heat exchanger，almost all of the relevant components of the cooling components could be maintenance and replacement.
- HC refrigeration system, energy saving 50%

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,Power failure,abnormal voltage,Sensor error,Filter screen check,Low battery,Condenser clean,High ambient temperature,Door ajar 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.
- 2 Standard 25mm test hole for easy connecting to temperature monitoring systems.
- 3 adjustable shelves for easy storing.
- Standard USB port,USB port to read temperature and alarm conditions in recent 1 months.
- Visual and audible alarm and all alarm can be through reserved for remote alarm port remote alarm
- Removable condenser front cover convenient for cleaning and maintenance.

Special

- Dual - machine cascade system.
  Removable heat exchanger
  Wide voltage design: 198V~242V available
  Build-in back-up battery: 72 hours power failure alarm
  9 visual and audible alarms

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Parameters

Performance

Temperature Range	-60~-86°C
Ambient Temperature	+10~+32°C
Controller	Microprocessor
Display	Digital Display

Refrigeration System

Compressor/Brand	2/SECOP
Refrigerant	HC
Cooling Type	Direct cooling
Defrost Type	Manual

Electrical Data

Power Supply(V/Hz)	220/50~60; 115/60
Rated Power(W)	808W
Electrical Current(A)	7
Power Consumption	14.7kWh/24h
Power failure backup system	72H

Dimensions

Capacity	688L
Interior Size(W*D*H)	990*607*1140mm
Exterior Size(W*D*H)	1354*1072*1907mm
Package Size(W*D*H)	1445*1070*2128mm
N.t./G.t.(approx)	260/290kg
Loading Qty(20'/40'/40'H)	8/16/16

Alarm

High/Low Temperature	Y
Sensor Error	Y
Power Failure	Y
Door ajar	Y
High Ambient temp.	Y
Condenser clean	Y
Low battery	Y
Filter screen check	Y
Abnormal voltage	Y

Accessories

Caster	4
USB port	Y
Remote alarm port	Y
Inner Door/shelf	2/2
Test hole	2/25MM
chart recorder	Optional
CO2/LN2 back up system	Optional
LN2 back up system	Optional
Cold storage box loading QTY	38400