

Ultra-Low Temperature Freezer

MDF-U500VX



Dual Cooling System

-86°C 519 liters/18.3 cu.ft.

Intelligent ECO mode operation

Safe and secure large-capacity Ultra-Low Freezer with new Dual Cooling System

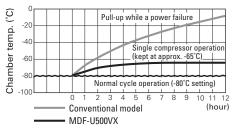
- Newly developed Dual Cooling System for ultimate sample protection
- Intelligent ECO mode operation provides more energy savings
- Inner doors removable for cleaning and defrosting
- Enhanced security
- Improved accessibility with vacuum release port
- Quiet operation
- Can hold up to 352 boxes (2-inch) or 224 boxes (3-inch).
- User-friendly filterless design



Features

Secure storage with **New Dual Cooling System**

The Dual Cooling System is newly designed to securely store valuable biological samples. It consists of two individual compressors to provide a reliable -86°C ultra-low temperature environment. Should unexpected failure occur in one cooling circuit, the other will maintain -65°C range.



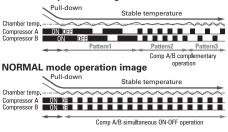
High efficiency insulation using V.I.P. technology

Panasonic's patented V.I.P. technology has resulted in a revolutionary vacuum insulation cabinet construction that reduces wall thickness by approximately one half and achieves up to 30% more storage capacity than conventionally insulated freezers, without increasing its footprint.

Intelligent ECO mode operation

"ECO mode," an industry first operation, achieves approx. 15% (230V/50Hz) energy savings than conventional models. The two compressors, A and B, are independently controlled to optimise operation efficiently to minimise energy consumption by monitoring load status on the freezer.

ECO mode operation image



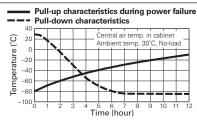
Graphic Control Panel

Central LCD display control panel enhances operability and visibility. Data log function retains operation data for a preset period and the data can directly be transmitted to a PC via MTR-480-PW interface.

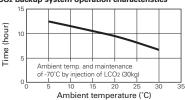
User-friendly design

- Various alarms including high/low temperatures, door ajar, power failure alarm and part replacement notification keep samples safe even in an emergency.
- A vacuum release port allows smooth door opening when the door seal is tightened by negative pressure generated from temperature difference between chamber and ambient environment.
- Filterless construction eliminates bothersome filter cleaning.
- New rugged, one-handed outer door latch allows a padlock to be attached.

Performance Data



CO₂ backup system operation characteristics



Specifications			MDF-U500VX
Temperature range			-65°C to -86°C (in 1°C increments)
Maximum cooling performance			-86°C (Ambient temperature 30°C)
Exterior dimensions (W x D x H)			770 x 870 x 1990 (mm) / 30.3 x 34.3 x 78.3 (inch)
Interior dimensions (W x D x H)			630 x 600 x 1380 (mm) / 24.8 x 23.6 x 54.3 (inch)
Effective capacity			519 liters (18.3 cu.ft.)
Net weight			Approx. 320 kg (705 lbs.)
Shelves			3 pcs, stainless steel tray
Access port			17mm diameter, 3 locations (back, bottom left/right corner)
Compressor			2 compressors, hermetic 1100 W
Refrigerant			HFC
Alarms and safety			High/low temperature, Door ajar, Power failure, Remote alarm contact, Part replacement nortification, Fan lock alarm, Refrigeration circuit abnormal alarm
Remote alarm contact			Allowable contact capacity: DC 30V, 2A
Accessories			1 scraper/Vacuum release port cleaning gear, 1 set of keys
Voltage specification by destination			Model No.
Representative destination	Europe	230V, 50Hz (CE)	MDF-U500VX-PE
	Korea	220V, 60Hz	MDF-U500VX-PK
	Thailand	220V, 50Hz	MDF-U500VX-PB

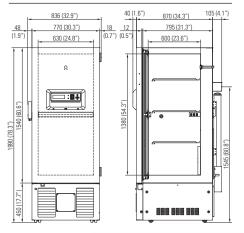
*Cooling performance is indicated by the temperature reached at the center of the freezer (at ambient temperature of 30°C with no load).

In order to use the freezer at a stable temperature for a long time, it is recommended that the temperature be set to at least 5°C higher than the indicated lowest temperature. In addition, depending on the usage conditions, it may not be possible to reach the indicated lowest temperature

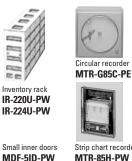
Caution: Panasonic guarantees the product under certain warranty conditions. Panasonic in no way shall be responsible for any loss of content or damage to content. Appearance and specifications are subject to change without notice.

Dimensions





Options







LCO2 backup system CVK-IIR2-PW

Recorder mounting bracket

MDF-S3085-PW (for MTR-85H-PW)

Data acquisition system MTR-5000-PW

Drawers

MDF-50R-PW

Interface board MTR-L03-PW or MTR-480-PW



Panasonic Healthcare Co., Ltd., Biomedical Business Unit is certified for:

Quality management system: ISO9001 Medical devices quality management system: ISO13485





Panasonic Healthcare Co., Ltd., Biomedical Business Unit is certified for:

Environmental management system: ISO14001

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