

Preservation
sub-zero



MDF-U74V

VIP
Vacuum Insulation Panel series

Energy Saving

-86°C
728 liters/25.7 cu.ft.

Patented V.I.P.
(Vacuum Insulation Panel)

Extra-large capacity, space saving Ultra-Low Freezer with improved energy consumption

- V.I.P. technology maximises storage capacity
- New refrigeration system enables more energy efficient operation
- Safe operation with Status Alert continuous condition monitoring
- Inner doors removable for cleaning and defrosting
- Enhanced security with new rugged outer door latch
- Improved accessibility
- Quiet operation
- Can hold up to 528 pcs 2-inch boxes or 336 pcs 3-inch boxes
- Class IIa Medical Device



MDF-U74V

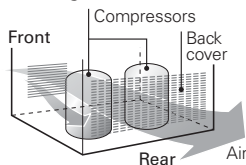
Features

EVOLUTIONARY DESIGN

- Panasonic V.I.P. Series -86°C ultra-low temperature freezers use patented revolutionary vacuum insulation cabinet construction that reduces the wall thickness from 14cm to 7cm (5.5" to 2.7") and achieves up to 30% more storage capacity than conventionally insulated freezers, without increasing its footprint.
- The newly developed refrigeration circuit regulates high stage compressor ON-OFF cycles, resulting in a reduction in energy consumption of approx. 14%* compared to the previous model.

*The data is a measured example (AT 23°C, 230V 50Hz, no load). Actual power consumption will vary depending on set and ambient conditions, loading and local voltage.

- The rear ventilation cover combines with the aerodynamically designed and positioned components in the refrigeration compartment to provide superior air flow, drastically reducing the load on the freezer and contributing to improved durability.



- Two independent and insulated inner doors with gaskets prevent cold air leakage.

RELIABILITY

- Status Alert (Condition monitor) monitors ambient and system conditions continuously and notifies of any abnormalities before a problem happens.

ACCESSIBILITY

- A beak style inner door latch tightly closes the inner door against the freezer frame. It also helps make opening and closing the door smoother.
- The condenser filter is situated at the bottom right side of the front panel to make filter removal and cleaning easier.



The MDF-U74V is certified as a Class IIa Medical Device (93/42/EEC and 2007/47/EC) for medical purposes of storing cells, organs, DNA and/or frozen plasma. (For EU countries only)



Panasonic Healthcare Co., Ltd., Gunma Factory is certified for:
Quality management system: ISO9001
Medical devices quality management system: ISO13485



Panasonic Healthcare Co., Ltd., Gunma Factory is certified for:
Environmental management system: ISO14001

SAFETY

- Alarm lamp and buzzer offer secure warning of power failure or abnormal temperature increase.
- High and low temperature warning provides an audible and visual alarm when the temperature deviates more than $\pm 5^{\circ}\text{C}$ to $\pm 20^{\circ}\text{C}$ (adjustable) from the set point.
- Alarm ring-back function ensures the buzzer will resume operation, should alarm conditions continue after it is silenced.
- Microprocessor-controlled blocked filter alarm protects the refrigeration circuit.
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- The rugged, one-handed outer door latch allows a padlock to be used to securely protect valuable samples.
- Control panel with digital display for easy operation.
- A battery and fan motor replacement notification is provided.



Specifications

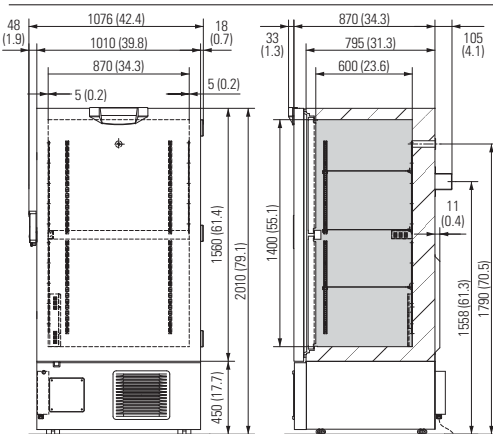
Model No.	MDF-U74V
Temperature range	-50°C to -86°C (1°C increments)
Maximum cooling performance	-86°C (Ambient temperature 30°C)
Exterior dimensions (W x D x H)	1010 x 870 x 2010 (mm) / 39.8 x 34.3 x 79.1 (inch)
Interior dimensions (W x D x H)	870 x 600 x 1400 (mm) / 34.3 x 23.6 x 55.1 (inch)
Net weight	Approx. 346kg (763 lbs.)
Effective capacity	728 L (25.7 cu.ft.)
Shelves	Stainless steel, 3 shelves
Access port	17mm diameter, 3 locations (back, bottom left/right corner)
Compressor	Hermetic: 1100 W (high stage side), 1100 W (low stage side)
Refrigerant	HFC
Alarms	High/low temperature, Power failure, Filter check, Self diagnostics, Door check, Part replacement notification
Remote alarm contact	Allowable contact capacity: DC 30V, 2A
Accessories	1 set of keys, 1 scraper

Voltage specification by destination

Representative destination	Voltage/Frequency	Model
Europe	230V, 50Hz (CE)	MDF-U74V-PE
Korea	220V, 60Hz	MDF-U74V-PK
Thailand	220V, 50Hz	MDF-U74V-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. The battery for power failure alarm is an article for consumption. It is recommended that the battery will be replaced about every 3 years.
 • Appearance and specifications are subject to change without notice.

Dimensions



Options

- Inventory rack
IR-220U-PW
IR-224U-PW
- Circular recorder
MTR-G85C-PE
- Strip chart recorder
MTR-85H-PW
- Recorder mounting bracket
MDF-S3085-PW
 (for MTR-85H-PW)
- Recorder backup system
CVK-UB2-PW
CVK-UBN2-PW
- Recorder mounting bracket
MDF-71D-PW
- Recorder mounting bracket
MDF-S3085-PW
 (for MTR-85H-PW)
- Panasonic DAQ (data acquisition) System
MTR-5000-PW
- Ethernet (LAN) Interface
MTR-L03-PW (Except for EU countries)
- RS232C/RS485 Interface
MTR-480-PW
- LC02 backup system
- LN2 backup system

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