

MDF-U54V



Energy Saving

30% less energy consumption than the previous model

-86°C

519 liters/18.3 cu.ft.

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

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

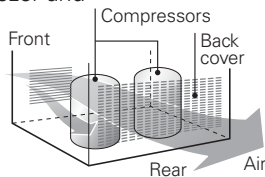
- V.I.P. technology maximises storage capacity
- New refrigeration system enables more energy efficient operation
- Safe operation with Status Alert continuous condition monitoring
- The inner doors removable for cleaning and defrosting
- Enhanced security with new rugged outer door latch
- Improved accessibility
- Quiet operation
- Improved energy consumption
- Can hold up to 352 pcs of 2-inch boxes or 224 pcs of 3-inch boxes

MDF-U54V

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 refrigerating circuit regulates high stage compressor ON-OFF cycles, resulting in improved energy efficiency by approx. 10%* more than previous models, for quieter environment.
- *Based on data measured using the JIS-determined method.
- 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.



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 filter-clog check function protects the refrigeration circuit.
- 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.



Specifications

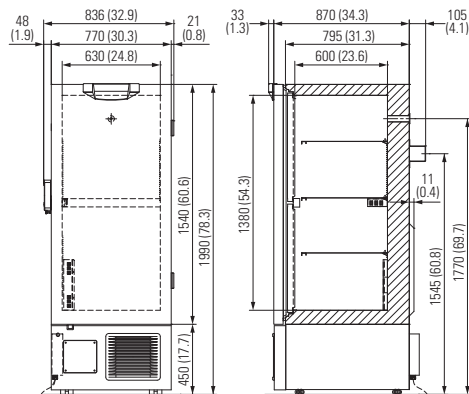
Model No.	220V, 50Hz	MDF-U54V-PB
	220V, 60Hz	MDF-U54V-PK
Temperature range	-50°C to -86°C (1°C increments)	
Maximum cooling performance	-86°C (Ambient temperature 30°C)	
Exterior dimensions (W x D x H)	770 x 870 x 1990 (mm) / 30.3 x 34.3 x 78.3 (inch)	
Interior dimensions (W x D x H)	630 x 600 x 1380 (mm) / 24.8 x 23.6 x 54.3 (inch)	
Net weight	Approx. 296kg (653 lbs.)	
Effective capacity	519 liters (18.3 cu.ft.)	
Shelves	Stainless steel, 3 shelves	
Access port	17mm diameter, 3 locations (back, bottom left/right corners)	
Compressor	Hermetic type, Output: 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	

*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

Unit: mm (inch)



Options



Inventory rack
IR-220U-PW
IR-224U-PW



3 drawers (for lower chamber)
MDF-50R-PW



Strip chart recorder
MTR-85H-PW



Circular recorder
MTR-G85C-PE

Recorder mounting bracket
MDF-S3085-PW
(for MTR-85H-PW)



LC02 backup system
CVK-UB2-PW
LN2 backup system
CVK-UBN2-PW

Data acquisition system **MTR-5000-PW**
Interface board **MTR-L03-PW / MTR-480-PW**



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



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Environmental management system: ISO14001

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