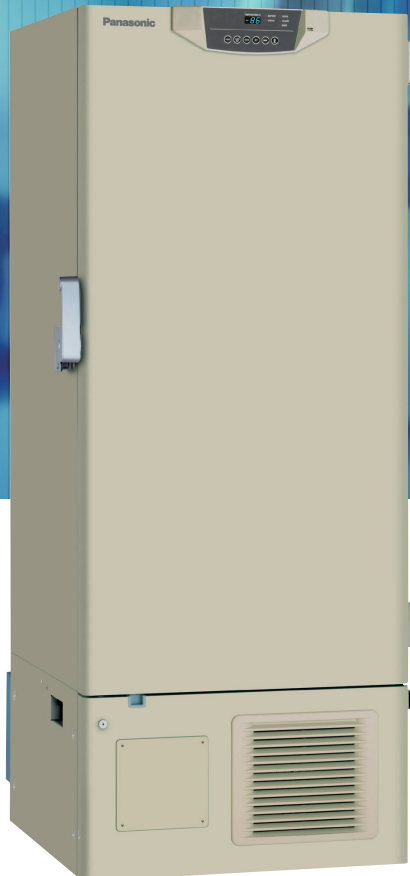


Preservation  
sub-zero



MDF-U55V

**VIP**  
series  
Vacuum Insulation Panel

## 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
- Inner doors removable for cleaning and defrosting
- Enhanced security with new rugged outer door latch
- Improved accessibility
- Quiet operation
- Can hold up to 352 pcs 2-inch boxes or 224 pcs 3-inch boxes
- Class IIa Medical Device



# MDF-U55V

## Features

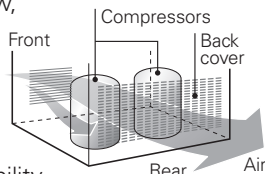
### EVOLUTIONARY DESIGN

- 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 2.8") 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. 30%\* 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.



### 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.
- 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.



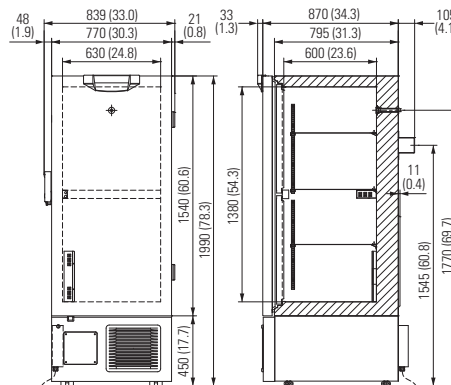
### Specifications

	MDF-U55V
<b>Temperature range</b>	-50°C to -86°C (in 1°C increments)
<b>Maximum cooling performance</b>	-86°C (Ambient temperature 30°C)
<b>Exterior dimensions (W x D x H)</b>	770 x 870 x 1990 (mm) / 30.3 x 34.3 x 78.3 (inch)
<b>Interior dimensions (W x D x H)</b>	630 x 600 x 1380 (mm) / 24.8 x 23.6 x 54.3 (inch)
<b>Net weight</b>	Approx. 288kg (635 lbs.)
<b>Effective capacity</b>	519 liters (18.3 cu.ft.)
<b>Shelves</b>	Stainless steel, 3 shelves
<b>Access port</b>	17mm diameter, 3 locations (back, bottom left/right corners)
<b>Compressor</b>	Rotary type 450 W (high stage side), Hermetic type 750 W (low stage side)
<b>Refrigerant</b>	HFC
<b>Alarms</b>	High/low temperature, Power failure, Filter check, Self diagnostics, Door check, Part replacement notification
<b>Remote alarm contact</b>	Allowable contact capacity: DC 30V, 2A
<b>Accessories</b>	1 set of keys, 1 scraper
<b>Voltage specification by destination</b>	Model No.
<b>Representative destination</b>	Europe 230V, 50Hz (CE) MDF-U55V-PE

\*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**



Circular recorder  
**MTR-G85C-PE**



3 drawers (for lower chamber)  
**MDF-50R-PW**  
**MDF-51D-PW**

Strip chart recorder  
**MTR-85H-PW**

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



LCO2 backup system  
**CVK-UB2-PW**  
LN2 backup system  
**CVK-UBN2-PW**

Data acquisition system **MTR-5000-PW**  
Interface board **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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