

Ultra-Low Temperature Freezer MDF-C2156VAN

Temperature (Ambient temperature 30°C)

-150°c

Effective capacity

231 liters / 8.2cu.ft.

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

Ideally suited for cryogenic and long-term storage in laboratories

- V.I.P. PLUS technology maximises storage capacity.
- Comfortable operation via LCD control panel 1. Chamber temperature recorded for up to 1 month
 - 2. Warning messages displayed in LCD panel
 - 3. Records history of door opening/closing (more than 2 minutes)
- Safe operation with Status Alert continuous condition monitoring
- Equipped with LN₂ backup system as standard
- Can hold up to 14,000 tubes (2ml)



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Features

Evolutionary Design

- Panasonic V.I.P. PLUS Evolution Series -150°C ultra-low temperature freezers use patented revolutionary vacuum insulation cabinet construction that reduces the wall thickness from 175mm to 135mm (6.9" to 5.3") and achieves up to 25% more storage capacity than a conventionally insulated freezer without increasing the footprint.
- The newly developed refrigeration system and the freezer structure offer a quiet experimental environment.
- Achieves 50% higher energy conser-vation than previous model. (For model rated 220V, 50Hz)

Reliability

- Status Alert monitors ambient and system conditions continuously and notifies of any abnormalities before a problem happens.
- Equipped with LN₂ backup system as standard to prepare for any contingency.

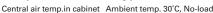
Ideal replacement for LN₂ storage

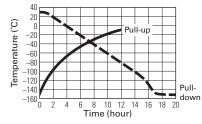
Compared to liquid nitrogen systems, Panasonic MDF-C2156VAN offers the following advantages:

- Lower running cost
- Easy maintenance
- No occurrence of contamination

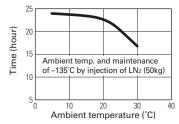
Performance Data

Pull-down characteristics Pull-up characteristics during power failure





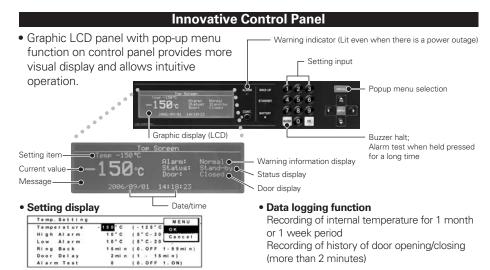
LN2 back up system operation characteristics





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Access control

To prevent unauthorized access to freezer settings, the key lock can only be cancelled by inputting the password.

Specifications Model No. MDF-C2156VAN **Temperature range** -125°C to -150°C (1°C increments) Maximum cooling performance -150°C (Ambient Temp. 30°C) 1730 x 765 x 1010 (mm) / 68.1 x 30.1 x 39.8 (inch) Exterior dimensions (W x D x H) Interior dimensions (W x D x H) 760 x 495 x 615 (mm) / 29.9 x 19.5 x 24.2 (inch) Net weight Approx. 318kg (701 lbs.) **Effective capacity** 231 L (8.2 cu.ft.) Access port 40 mm diameter, 1 location Hermetic type, Output: 1100W (high stage side), Compressor 1100W (low stage side) Refrigerant HFC High/Low temperature, Power failure, Filter check, Self diagnosis, Alarm Door check, Part replacement notification Remote alarm contact Allowable contact capacity, DC 30V, 2A Accessories 1 set of keys, 1 scraper, Connecting tube for LN₂ backup system Voltage specification by destination lepresentative

0(-175°C)

destination	Europe	230V, 50Hz (CE)	MDF-C2156VAN-PE
	Korea	220V, 60Hz	MDF-C2156VAN-PK
	Thailand	220V, 50Hz	MDF-C2156VAN-PB

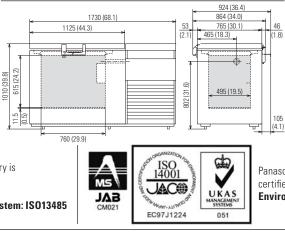
Unit:mm (inch)

1.8

*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

2006/07/0

PC 1D



Recorder mounting bracket (for MTR-155H-PW) MDF-S30150-PW

Inventory rack IR-210C-PW Max capacity: 14p Ink pen DF-38FP-PW Chart paper RP-155

Panasonic DAQ (data acquisition) System MTR-5000-PW

Ethernet (LAN) Interface MTR-L03-PW RS232C/ RS485 Interface MTR-480-PW

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Environmental management system: ISO14001

