

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.

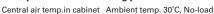
Ideal replacement for LN₂ storage

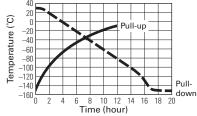
Compared to liquid nitrogen systems, Panasonic MDF-C2156VAN offers the following advantages:

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

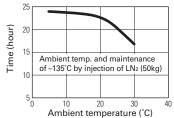
Performance Data

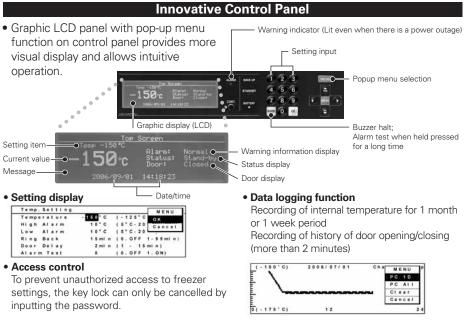
Pull-down characteristics Pull-up characteristics during power failure





LN2 back up system operation characteristics





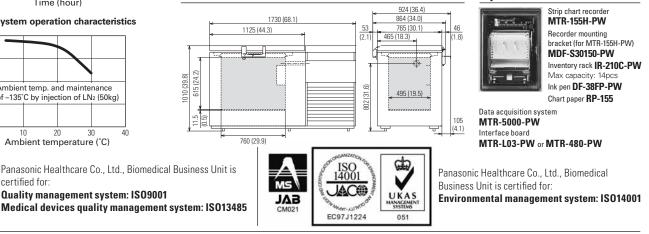
Specifications			MDF-C2156VAN
Temperature range			-125°C to -150°C (in 1°C increments)
Maximum cooling performance			-150°C (Ambient Temperature 30°C)
Exterior dimensions (W x D x H)*1			1730 x 765 x 1010 (mm) / 68.1 x 30.1 x 39.8 (inch)
Interior dimensions (W x D x H)			760 x 495 x 615 (mm) / 29.9 x 19.5 x 24.2 (inch)
Net weight			Approx. 318kg (701 lbs.)
Effective capacity			231 liters (8.2 cu.ft.)
Access port			40mm diameter, 1 location
Compressor			Hermetic type, Output: 1100 W (high stage side), 1100 W (low stage side)
Refrigerant			HFC
Alarm			High/Low temperature, Power failure, Filter check, Self diagnosis, Door check, Part replacement notification
Remote alarm contact			Allowable contact capacity, DC 30V, 2A
Accessories			1 set of keys, 1 scraper, Connecting tube for LN ₂ backup system
Voltage specification by destination			Model No.
Representative destination	Europe	230V, 50Hz (CE)	MDF-C2156VAN-PE
	Korea	220V, 60Hz	MDF-C2156VAN-PK
	Thailand	220V, 50Hz	MDF-C2156VAN-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.
*1 Exterior dimensions of main cabinet only - see dimension drawings showing handles and other external projections.

Dimensions Options Unit:mm (inch)





certified for: Quality management system: ISO9001

Medical devices quality management system: ISO13485





http://panasonic.net/healthcare/biomedical/ Printed in Japan 170-2013-03