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 (2 ml)

Temperature
(Ambient temperature 30°C)

-150°C

Effective capacity

231 liters/8.2 cu.ft.

V.I.P. PLUS
(Vacuum Insulation Panel)
Features

- PHCbi V.I.P. PLUS -150°C cryogenic freezers use patented revolutionary vacuum insulation cabinet construction that reduces the wall thickness from 175 mm to 135 mm (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 conservation than previous model. (For model rated 220 V, 50 Hz)

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, PHCbi MDF-C2156VAN offers the following advantages:
- Lower running cost
- Easy maintenance
- No occurrence of contamination

Performance Data

Pull-up characteristics during power failure

- LN2 back up system operation characteristics

- Pull-up characteristics during power failure

LN2 back up system operation characteristics

- Temperature range: -125°C to -150°C (1°C increments)
- Maximum cooling performance: -150°C (Ambient Temperature 30°C)
- External dimensions: W x D x H: 1130 x 765 x 1010 mm / 44.3 x 30.1 x 39.8 inch
- Internal dimensions: 670 x 695 x 615 mm / 26.3 x 27.4 x 24.2 inch
- Recommendations: At least 5°C higher than the indicated lowest temperature.
- Caution: To prevent unauthorized access to freezer settings, the key lock can only be cancelled by inputting the password.

Specifications

- Model No.
  - 220 V, 50 Hz: MDF-C2156VAN-PA
  - 220 V, 60 Hz: MDF-C2156VAN-PK
  - 230 V/240 V, 50 Hz (CE)
- Compression: Hermetic type, Output: 1100 W (high stage side), 1100 W (low stage side)
- Refrigerant: HFC
- Temperature range: -125°C to -150°C (in 1°C increments)
- Net weight: Approx. 318 kg (701 lbs.)
- Effective capacity: 620 liters (21.6 cu.ft.)
- Dimensions: 1730 x 765 x 1010 (mm) / 68.1 x 30.1 x 39.8 (inch)
- Height: 1010 (39.8"
- Depth: 760 (29.9"
- Width: 615 (24.2"

Options

- Interface board
  - For data acquisition system MTR-5000 users only
- Recorder mounting bracket (for MTR-155H-PW)
- Inventory rack (for MTR-155H-PW)
- EP-155
- DF-38FP-PW
- DF-380-PW
- DF-385-PW

DISTRIBUTED BY: