Panasonic



MDF-C8V1-PA

VIP[®] Series

-80°C Ultra-Low Temperature Chest Freezer

3.0 cu.ft. | 84 L



Panasonic's VIP Series ultra-low temperature freezers are designed for safe, reliable storage of biologicals. Energy efficiency in VIP Series freezers is achieved through balanced temperature performance and power management. The advanced combination of cabinet design, electronics, refrigeration and critical components are engineered for enhanced security, performance and reliability. VIP Series freezers have demonstrated >99% uptime through excellent performance history.

Reliability You Can Count On

The Panasonic engineered compressor powers the auto-cascade single refrigeration system. The system provides dependable cooling by balancing temperature performance and energy management. Reserve refrigeration power assures exceptional temperature recovery following lid openings. VIP series freezers have demonstrated >99% reliability with excellent performance history.

Maximum Storage, Minimal Footprint

The chest freezer employs a patented VIP insulation composite that maximizes space efficiency and holds up to 42 2" boxes or 30 3" boxes within a 4.07 ft² (0.38 m²) footprint.

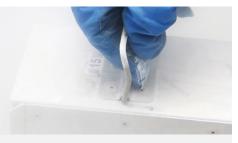
Uniform Preservation

The combination of patented VIP vacuum insulation panels with the Panasonic designed compressor and refrigeration system is specific to ultra-low temperature applications assuring superior uniformity (+/- 5°C) throughout the cabinet to maintain the integrity of the samples.



Microprocessor Controls/Alarms

The integrated microprocessor controller with LED display includes alarms, diagnostic and communication features with monitoring of system and compressor operating conditions.



Optimum Sample Storage

The space saving cabinet design offers a reduced wall thickness for maximum interior volume. Ideal for storage of DNA, RNA and other biological samples.



Extra Protection, Easy Access

Insulated locking lid with multilevel gasket seals firmly against the cabinet to minimize change in interior temperatures during routine openings. The sub lid provides additional protection. The lid handle features an ergonomic design that allows one-handed access.

21.7 × 27.0 × 37.2 | 550 × 685 × 945

15.9 × 19.3 × 16.7 | 405 × 490 × 425

3.0 | 84

VIP -80°C ULT Chest Freezer



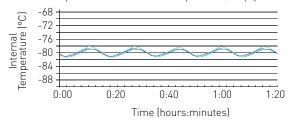
VIP Vacuum **Insulated Panels**

Inside-out engineering starts with a patented VIP insulation composite which results in an efficient, thin-wall cabinet. Insulated inner lid improves temperature uniformity. The chest freezer design minimizes cold air loss during lid openings and extends warm-up times during power outages.

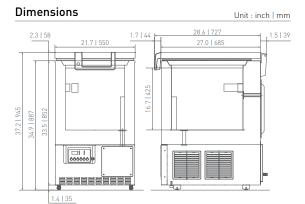
Model MDF-C8V1-PA is shown empty in the image.

MDF-C8V1-PA Temperature Uniformity Data

-80°C setpoint at 20°C ambient temperature, empty freezer



The graph represents nominal air temperature in an empty cabinet, which is indicative of worst case scenario for temperature uniformity. As product is added, the increase in thermal mass provides tighter temperature uniformity and stability



Net Weight lbs. | kg 148 | 67 Capacity (2" boxes) 42 qty Capacity (3" boxes) 30 qty Inventory Racks (2" boxes) 6 qty Inventory Racks (3" boxes) 6 qty Performance Warranty Panasonic Five Year Warranty 2) Cooling Performance 3) °C -80 Temperature Setting Range °C -55 to -85 in 1°C increments Temperature Control Range 3) °C -60 to -80 in 1°C increments Control Controller Microprocessor, touchpad data entry with display lockout LED Display Pt-1000 Temperature Sensor Refrigeration Refrigeration System Single compressor, auto-cascade Compressors W (1) 400 Refrigerant CFC-free mixed refrigerant Insulation Material Rigid polyurethane foam-in-place (PUF) + VIP Exterior & Interior Material Painted steel Lid 1 qty LidLock key Standard Sub Lid qty Insulated with formed-in grip Access Ports 2 qty Access Port Position Middle left back wall and right front chamber floor Access Port Diameter inches | mm 0.6 | 17 4 (2 leveling feet on front base) (V = Visual Alarm, B = Buzzer Alarm, R = Remote Alarm) V-B-R Power Failure V-B-R High Temperature V-R-R Low Temperature Electrical and Noise Level 115V, 1Ø, NEMA 5-15P, Power Supply requires NFMA 5-15R recentacle Frequency 60 dB (A) 47 Noise Level 4) CVK-UB4I Liquid CO₂ Back-up System Temperature Recorder Circular Type 6", 7 day circular MTR C954 Chart Paper 52 charts per box C7100386REV Ink Pen pack of 6 R252 Wireless, cloud-based, automatic data management LabAlert® Monitoring System

inches | mm

inches | mm

cu.ft. | liters

External Dimensions (W \times D \times H) 1

Internal Dimensions (W \times D \times H)

Volume

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¹¹ Exterior dimensions of main cabinet only, excluding handle and other external projections ²¹ Current warranty offered at time of printing and may be subject to change

³⁾ Air temperature measured at freezer center, ambient temperature +30°C, no load ⁴⁾ Nominal value - Background noise 20dB[A]