

VIP® Series

-80°C Ultra-low Freezers



Proven reliability with Industry leading Energy Savings

The unique autocascade design provide industry's best combination for uniformity, reliability and performance, with up to **40%** savings in energy consumption.

Panasonic VIP® Insulation Technology

The MDF-C8V1-PA provides ideal -80°C freezing environment using VIP® PLUS insulation technology. It maximizes storage capacity to store priceless biological and scientific samples.

Optimized Design and Performance

The uniquely designed single-compressor system achieves higher energy efficiency and space saving construction.

Cooling System



VIP® Plus



Optimum Footprint

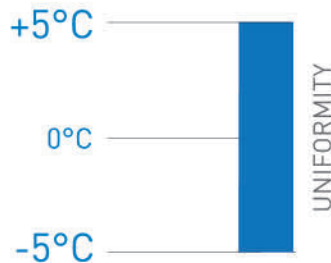


3.0 cu.ft.



Uniformity

The combination of patented VIP® plus vacuum insulation panel with Panasonic designed compressors specific to ultra-low applications, result in **superior uniformity (+/-5°C)**, that surpasses the strictest protocols, no matter where your samples are stored within the unit.

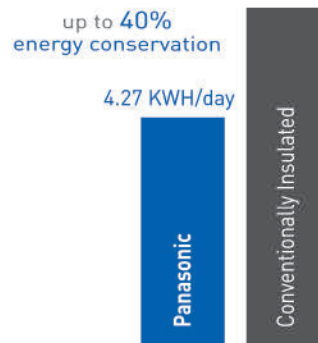


Surpasses the customer preference of +/- 5°C*



Performance

Single-compressor system enables low-noise operation and greater energy efficiency, achieving **40% higher energy conservation** than conventionally insulated models.



- 80°C setpoint in 20°C ambient temperature





VIP® Series -80°C Ultra-Low Freezer – Chest

Leading Performance with Greater Energy Savings

Panasonic VIP® ultra-low freezers represent the industry's most complete combination of refrigeration, control, alarm, monitoring, and accessibility for product safety as low as -80°C.

VIP® PLUS Technology

Panasonic ultra-low freezers provide energy savings, while minimizing carbon footprint without compromising performance. Patented revolutionary vacuum insulation cabinet construction reduces wall thickness. It achieves greater storage capacity, while decreasing the overall footprint.



Green Benefits with VIP® Series:

- Minimizes carbon footprint with less impact on the environment.
- Maximizes lab space with smaller footprint.
- Emits less heat into the laboratory environment,

which minimizes air conditioning costs.

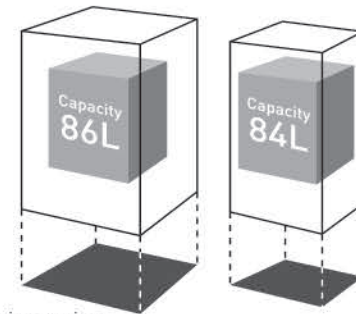
Safety and Alarm Features:

- Alarm lamp and buzzer offer secure warning of power failure or abnormal temperature changes.
- 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.

Innovative Design

- Use of VIP® PLUS insulation material reduces thickness of insulation by approximately one half, enabling exceptional storage capacity to footprint ratio.
- Single-compressor system enables low-noise operation and greater energy efficiency.
- Achieves 40% higher energy conservation than conventionally insulated models.
- New refrigeration circuit without the need for a filter reduces maintenance requirements.

Conventional insulation* MDF-C8V1-PA



*Panasonic comparison

Installation space **5.65** sq.ft. **4.05** sq.ft.

MODEL	MDF-C8V1-PA	
TEMPERATURE	-60°C to -80°C (-1°C increments)	
MAX COOLING PERFORMANCE	-80°C (Ambient Temp 30°C)	
ELECTRICAL, 60 Hz	115V, AC, 20amp	
EXTERIOR DIMENSIONS	21.6" x 27.0" x 37.2" (550 x 685 x 945 mm)	
INTERIOR DIMENSIONS	15.9" x 19.3" x 16.7" (405 x 490 x 425 mm)	
VOLUME	3.0 cu.ft. (84 liters)	
NET WEIGHT	Approx. 148lbs (67kg.)	
STORAGE	2" / 51 mm boxes: 42 3" / 76 mm boxes: 30	
STORAGE (RACKS) FOR 2" FIBERBOARD BOXES	6 (7 boxes deep with locking rod)	
STORAGE (RACKS) FOR 3" FIBERBOARD BOXES	24 (each rack is 4 boxes high x 4 boxes deep)	
ALARMS	High/low temp, Power failure, Filter check, Battery check. Optional LabAlert	
AREA FOOTPRINT (NOMINAL)	4.05 sq.ft.	