Panasonic

MDF-**U53VA**-PA

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VIP® Series

-86ºC Ultra-low Freezers

Proven reliability

VIP® Series Freezers have an operational success rate **greater than 99%,** making them the most reliable ultra-low freezers in the industry to store priceless biological and scientific samples.

New Cascade Cooling System

New design drastically increases the efficiency of the entire system, making it more sustainable.

Optimum Performance

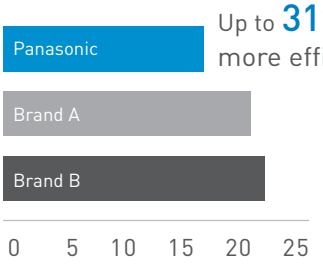
Increased reserve cooling capacity improves temperature recovery after door openings.

Cooling System	VIP® Plus	Optimum Footprint

18.3 cu. ft.

Energy Savings

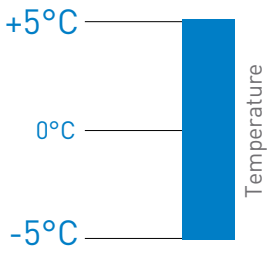
Panasonic cascade refrigeration system and the new improvements in the heat exchanger design drastically **increase the efficiency** of the entire system. The end result is less energy consumption, while improving the overall efficiency and reliability of the freezer.



Up to **31%** more efficient

Uniformity

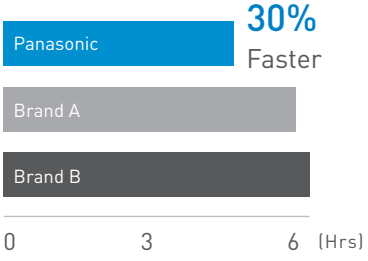
The combination of patented VIP® PLUS vacuum insulation panel with Panasonic designed compressors specific to ultra-low applications, result in **superior uniformity (+/-5°C),** that surpasses the strictest protocols, no matter where your samples are stored within the unit.



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

Performance

Panasonic VIP® Series freezers represent the industry's most advanced combination of cabinet design, electronics, refrigeration, and critical components for **enhanced security, better performance, product safety, and cost effective operation.**



30% Faster

Pull down speed from room temp to - 80°C.

Life Science

Discovery powered by precision™

VIP® Series -86°C

Ultra-Low Freezer: MDF-U53VA-PA

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 optimum product safety.

- **Panasonic Heat Exchanger Design Increases Energy Efficiency**

  Increasing the efficiency of the heat exchanger by incorporating more surface area contact at critical points in the refrigeration system, improves the overall efficiency and reduces the compressor running time. This along with other improvements to heat exchange in the refrigeration system, translates to a substantial increase in energy efficiency.

- **Patented VIP® PLUS Vacuum Insulation Panel**

  The combination of multiple high-performance vacuum panels with high-density foam insulation achieves thin-wall profile for maximum interior volume in a compact footprint. Increase in the R-factor improves temperature recovery after door openings.

- **Inner Doors Improve Uniformity**

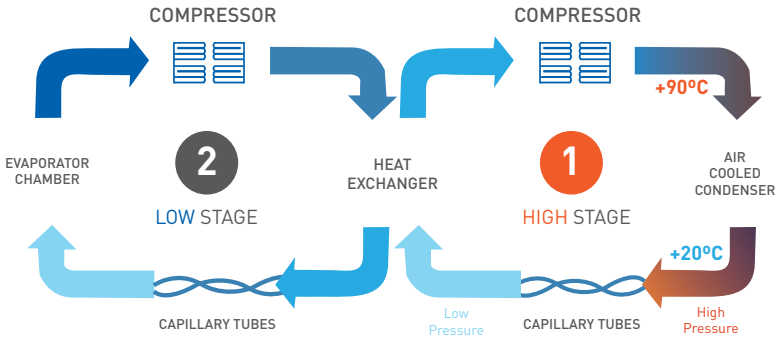
  Easy-In/Easy-Out Panasonic "Eagle Beak" inner door latches feature ergonomic design to seal firmly against the cabinet with one hand. High-strength, sealing, insulated inner doors help minimize change in interior temperatures during routine door openings.

- **Microprocessor Controls**

  Comprehensive setpoint, alarm, monitoring, and diagnostic functions supervised by Panasonic-built microprocessor controller with digital display of all critical functions.

Energy Efficient Heat Exchanger

- Maximized surface area for heat exchange
- Optimum heat transfer between the high and low stage
- Reduced stress on compressor
- Increased efficiency of the refrigeration system
- Result: Greater Energy Savings & Improved System Reliability



MODEL	MDF-**U53VA**-PA		
EXTERIOR DIMENSIONS (W X F-B X H)	30.3" x 34.4" x 78.3" (770 x 870 x 1990 mm)	ELECTRICAL, 60HZ	115V, AC, 20amp
INTERIOR DIMENSIONS (W X F-B X H)	24.8" x 23.6" x 54.3" (630 x 600 x 1380 mm)	STORAGE	2"/ 51 mm boxes: 352 3"/76 mm boxes: 224
VOLUME	18.3 cu.ft. (519 liters)	STORAGE (RACKS) FOR 2" FIBERBOARD BOXES	8 (each rack is 4 boxes high x 4 boxes deep)
AREA FOOTPRINT (NOMINAL)	7.24 sq.ft. (0.68 m^2)	STORAGE (RACKS) FOR 3" FIBERBOARD BOXES	8 (each rack is 4 boxes high x 4 boxes deep)
NET WEIGHT (EMPTY)	660lbs. (299 kg.)	SOUND LEVEL	49dB
INSULATED INNER DOOR	Steel-framed, high impact plastic with foam-in place insulation	SHELVES	Stainless steel, 3 Shelves
INNER DOOR CONFIGURATION	2 (4 optional)	ACCESS PORT	17mm diameter, 3 locations (back, bottom left/right corners)

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