



MDF-DU702VH-PA | VFZR26-ULT-220

VIP°ECO

MDF-DU702VH-PA, 220V | VFZR26-ULT-220 MDF-DU702VHA-PA, 115V | **VFZR26-ULT-115**

ENERGY STAR® Certified Natural Refrigerant -86°C Freezer 25.7 cu.ft. | 729 L









Ideal for new or replacement installations requiring a 115V or 220V connection, the VIP ECO 25.7 cu.ft. (729 L) upright ultra-low temperature freezer delivers the lowest daily energy usage.1) Performance, reliability and energy efficiency combine to secure your most valuable biological samples.

Performance

The robust refrigeration system provides dependable cooling and temperature performance through specialty engineered heat transfer components and time-tested natural refrigerants. Reserve refrigeration power assures exceptionally fast temperature recovery following door openings. Performance and reliability are never compromised when it comes to storing your valued products.

and Reliability



Natural Refrigerants

Natural refrigerants minimize environmental impact without jeopardizing ultra-low temperature freezer performance.

Energy Efficient,1) **Balanced Power**

Smart compressors, natural refrigerants and integrated electronics combine to lower your facility's operating costs.

- 0.29 kWh/cu.ft. Daily **Energy Consumption**
- 8.20 kWh/day, Steady State at -80°C
- 5.91 kWh/day, Steady State at -70°C

Temperature Uniformity

- ±2.01°C at -80°C
- ±1.86°C at -70°C

Security Control and Monitoring

An eye level, door mounted color LCD touchscreen allows full user control while the USB port makes transferring logged data to a PC convenient. All performance attributes are displayed and an internal temperature log is expressed in graphic form over time.



EZlatch

EZlatch is the centerpiece of a holistic access and frost mitigation system. Simplified one-handed operation maintains the integrity of the door seal to assure energy efficiency.



Ease of Use

Vector is an authorized distributor for PHC Corporation

of North America.

A full function display panel includes audible and visual warnings, unit diagnostics, temperature and door opening history.

¹⁾ Based on independent third-party testing at time of publication. ENERGY STAR test results for submitted products can be compared for performance across the competitive market. For results see the ENERGY STAR website www.energystar.gov/productfinder/product/ certified-lab-grade-refrigeration/details/2303094. See Certification Number 4788723268.





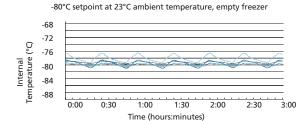
VIP ECO -86°C ULT Upright Freezer



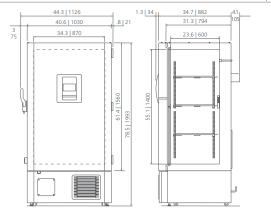
Efficient Sample Storage

The upright cabinet design employs patented VIP Plus insulated panels that offer space efficiency. This allows the freezer cabinet to maximize storage space, holding up to 576, 2" boxes within a 9.78 sq.ft. (0.91 m²) footprint.

Temperature Uniformity Data:



Dimensions Unit: inch | mm



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Model Number		MDF-DU702VH-PA VFZR26-ULT-220	MDF-DU702VHA-PA VFZR26-ULT-115
External Dimensions (W × D × H) 1)	inches mm	40.6 × 36.8 × 78.5	
Internal Dimensions (W × D × H)	inches mm	34.3 × 23.6 × 55.1 870 × 600 × 1400	
Volume	cu.ft. liters	25.7 729	
Net Weight	lbs kg	613 278	
Capacity (2 " boxes)	qty	576	
Capacity (3 " boxes)	qty	384	
Inventory Racks (2 " boxes)	qty	24	
Inventory Racks (3 " boxes)	qty	24	
Performance			
Warranty 2)		5 years parts and labor	
Cooling Performance 3)	°C	-40 to -86	-50 to -86
Temperature Setting Range 3)	°C	-40 to -90 in 1° increments	-50 to -90 in 1° increments
Temperature Control Range 3)	°C	-40 to -90 in 1° increments	-50 to -90 in 1° increments
Control			
Controller		Microprocessor, touchscreen d	lata entry, password protected
Display		LCD color touchscreen	
Temperature Sensor		Pt-1000	
Refrigeration		101	
		6-1-1-1-11	
Refrigeration System	144	Synchronized variable speed cascade system	
Compressors	W	(2) 750, variable speed High-stage R-290 natural refrigerant	
Refrigerant		Low-stage R-170 natural refrigerant	
Insulation Thickness, Material	inches I mm	3.1 I 80, rigid polyurethane foam (PUF)	
Construction		+ VIP Plus vacuum insulated panels	
Exterior Material		Painted electrogalvanized steel	
Interior Material		Powder coated electrogalvanized steel	
Outer Door	qty	1 (key lock with provision for optional pad lock)	
Inner Doors	qty	2 (insulated, ABS, stainless steel frames, positive latches)	
Shelves	qty	3 (adjustable)	
Shelf Dimensions (W × D)	inches mm	33.6 × 21.0 855 × 534	
Max. Load per Shelf	lbs kg	110 50	
Auto Vacuum Relief	qty	1: in door	
Manual Vacuum Relief	qty	1: lower left side	
Access Ports	qty	 upper back wall (back-up system), bottom left (recorder sensor), bottom right (access) 	
Access Port Diameter	inches mm	0.6 17	
Casters	qty	4 (2 leveling feet on front base)	
Alarms	(V	= Visual Alarm, B = Buzzer Alarm, R = Remote Alarm)	
Power Failure		V-B-R	
Temperature (High and Low)		V-B-R	
Sensor Failure		V-B-R	
Door Open		V-B	
Battery Check		V	
Remote Alarm Contacts		DC 30V 2A (normally open, normally closed, common)	
Electrical and Noise Level			
Power Supply		220V, 1Ø, NEMA 6-15P, requires NEMA 6-15R receptacle	115V, 1Ø, NEMA 5-20P, requires NEMA 5-20R receptacle
Noise Level 4)	dB(A)	46	
Options			
Inner Door Kit with 5 Smaller Doors 5)		MDF-71	D5-PW
Inner Door Kit with 4 Smaller Doors 5)		MDF-7ID4-PW	
Liquid CO ₂ Back-Up System		MDF-UB7-PW	
		- Idily	
Temperature Recorder			
Circular Type	6", 7 day circular	MTRC954	
Chart Paper	52 charts per box	C7100386REV	
Ink Pen	pack of 6	R252	
Optional Communication System			

DExterior dimensions of cabinet excluding handle, rear stand-off brackets and other external projections. Consult product web page for doorway entry instructions, less than 36.8": https://doi.org/10.1006/pnage1/201/preservation/ultra.lows/fpages/forfs.du/202/phag

- www.phthd.com/us/biomedical/preservation/ultra-low-freezers/mdf-du702vhpa
 ²⁾ Current warranty offered at time of printing and may be subject to change; US and Canada only
- ³⁾ Air temperature measured at freezer center, ambient temperature +30°C, no load
- 4) Nominal value, background noise 20 dB(A)
- 5) Installation of small inner door kit may affect usable storage capacity

Specifications are subject to change without notice.

Performance data herein is based on independent testing at time of publication.

