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MDF-MU339HL-PA | 76383-294

Natural Refrigerants and Inverter Technology

Naturally occurring hydrocarbon [HC] refrigerants have minimal effect on the environment and are compliant with environmental legislation for climate control. Combined with inverter technology, these refrigerants also provide more efficient cooling without compromising cooling performance, ambient tolerance and recovery speeds following door openings.

Biomedical ECO Freezer, -30°C

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13.0 cu.ft. | 369 L

The PHCbi brand -30°C Biomedical ECO Freezer provides a stable and reliable environment for storing of enzymes, vaccines, pharmaceutical products and other biomedical materials with uniform temperatures. The practical size saves space in the laboratory. An occasional manual defrost, if required, eliminates minor temperature fluctuations during operation. Configurable temperature ranges from -20°C to -30°C.

Safe Sample Storage

Protection and safety features include heavy duty, door-mount sealing gasket to eliminate cold air loss. High and low temperature deviation alarms warn of temperature setpoint violations and door ajar events. A standard door latch lock adds security, and an optional padlock can be installed to expand the envelope of protection.

ENERGY STAR® Qualified

Power consumption at rated storage temperatures confirms significant energy saving performance of the Biomedical ECO natural refrigerant platform. Power data published herein is based on internal results of production freezer testing prior to submittal for independent third-party evaluation similar to that now applied to other ENERGY STAR Certified PHCbi freezers in the same class.



Energy Efficient Performance

Natural refrigerant, a high performance inverter compressor and integrated electronics controls combine to manage overall performance, protect stored product and lower operating costs by up to 28% compared to conventional models. Performance is rated at 115V, AC, ambient temperature 30°C, with a wide tolerance for high ambient temperatures.



Microprocessor Controller and Alarms

The microprocessor-based temperature control system with LED display maintains accurate setpoint temperature to within 1°C over a range of -20°C to -30°C. Audible and flashing visual alarm lights supplement the setpoint deviation system to warn of parameter violations, or loss of power.





Smart Cabinet Design

Space-saving design allows more installation options in crowded laboratories or warm hallways. The cabinet includes 5 adjustable wire shelves. Optional open top bins can be added to hold common 2" or 3" freezer boxes, as well as miscellaneous goods. High density CFC-free and low GWP foamedin-place insulation creates a temperature resistant wall structure. Painted steel interior surfaces simplify cleaning.

PHC Corporation of North America

VWR, part of Avantor is an authorized distributor for PHC Corporation of North America.

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when not in use.

Stored Product Protection

The single door Biomedical ECO freezer creates stable temperature storage in a space-saving

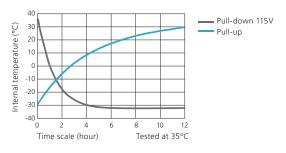
cabinet.

Manual Defrost Condensate Removal Occasional manual defrosting maintains the most efficient freezer performance. An integrated condensate drain hose permits easy removal of water and stows out of the way Model Number

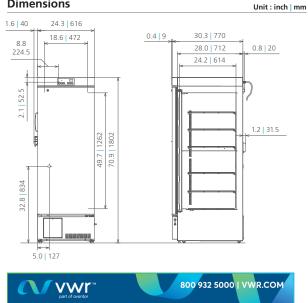
Model MDF-MU339HL-PA | 76383-294 shown with optional storage bins.

Temperature Uniformity

Stored product creates a thermal mass that enhances interior temperature uniformity. Multiple interior cold wall surfaces remove heat quickly and efficiently while maintaining uniformity.



Dimensions



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Model Number		MDF-MU339HL-PA 76383-294
Exterior Dimensions (W x D x H) 1)	inches mm	24.3 x 30.3 x 70.9 616 x 770 x 1802
Interior Dimensions (W x D x H)	inches mm	18.6 x 24.2 x 49.7 472 x 614 x 1262
Volume	cu. ft. liters	13.0 369
Net Weight	lbs kg	269 122
Capacity (2" boxes) Bin Freezer	qty	36 216
Capacity (3" boxes) Bin Freezer	qty	24 144
Bin Capacity	qty	6
Performance	49	
		2
Warranty 2)	°C	2 years parts / labor, 3 years compressor parts
Cooling Performance 3)	°C	-30
Temperature Setting Range		-18 to -35 in 1°C increments
Temperature Control Range 3)	°C	-20 to -30 in 1°C increments
Control		
Controller		Microprocessor, touchpad data entry, password protected
Display		LED
Temperature Sensor		Thermistor
Refrigeration		
Refrigeration System		Cold wall
Compressor	W	(1) 250 (inverter type)
Refrigerant		CFC-free R-290
Defrost		Manual
Insulation Material		Rigid polyurethane, foamed-in-place, low GWP
Insulation Thickness	inches mm	2.8 70
Construction	incres min	2.0 70
Exterior and Interior Material		Painted steel
Door	qty	1
Outer Door - Key Lock	qty	1
Additional Door Lock	qty	Door latch with hasp for padlock
Wire Shelves, Vinyl Coated	qty	6 (5 adjustable)
Shelf Dimension (W x D)	inches mm	17.6 x 20.1 447 x 510
Max. Load per Shelf	lbs kg	66.1 30
Max. Load – Total Freezer	lbs kg	396.6 180
Access Port	qty	(1) Standard
Access Port Position		Back wall, left hand corner (facing unit)
Access Port Diameter	inches mm	1.1 30
Casters	qty	4
Leveling Feet		2 (on front of base)
Alarms (V=Visual, B=Buzzer, R=Remo	ote Alarm)	
Power Failure		V-B-R
High Temperature		V-B-R
Low Temperature		V-B-R
Electrical and Noise Level		
Power Supply		115V, 60Hz, 1Ø, NEMA 5-15P, requires NEMA 5-15R receptacle
	U	
Noise Level 4)	dB(A)	42
Options		
Storage Bin 5)	Sold in sets of 2	MDF-03SC-PW 76415-466
Temperature Recorders		
Circular Type	6", 7 Day Circular	MTRC954 97014-882
Chart Paper	52 charts per box	C740306REV
Ink Pen	pack of 6	R252
Optional Communication System		
Wireless, Cloud-Based,		LabAlert® Monitoring System

¹⁾ External dimensions of main cabinet only. Excluding the door handle and other external projections

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⁾ Optional Bin, interior base dimensions 16.45" (418 mm) W x 21.65" (550 mm) F to B, height 6.2" (157.5 mm) H

Specifications are subject to change without notice.

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