



MDF-U334-PA

Biomedical Freezer

-30°C Upright Freezer

9.7 cu.ft. | 274 L

The MDF-U334-PA biomedical freezer is designed for to provide safe storage at temperatures as low as -30°C. This high performance freezer can be used for long, intermediate or short-term preservation in clinical, bio-technology and industrial laboratories.

Refrigeration Design

The freezer's high performance laboratory and clinical grade refrigeration system provides dependable cooling by balancing temperature performance and energy management while reserve refrigeration power assures fast temperature recovery following door openings.

High Quality Construction and Storage Capacity

The upright freezer is constructed with foamed-in-place, cfc-free urethane insulation and easy to clean high quality materials throughout. The freezer interior is separated into five storage sections through four fixed wire shelves and the chamber bottom with storage bins included for easy access.

Manual Defrost System

Manual defrost is initiated easily with the push of a button. The inner chamber temperature offers outstanding uniformity and stability without the temperature spikes associated with an automatic defrost cycle.



Uniform Storage Environment

Uniform temperatures are maintained throughout the storage chamber for assured product safety regardless of storage location. This is ideal for storage of biologics, enzymes, culture media, vaccines, lab specimens and other temperature sensitive materials.



Evaporator Wire Shelf Design

The unique evaporator wire shelf design in the MDF-U334-PA includes built-in freezing coils that provide expanded surface area for exceptional temperature uniformity and recovery. Eliminating the need for a unit cooler evaporator allows for utilization of the entire freezer chamber.



Microprocessor Control and Alarm System

The MDF-U334-PA biomedical freezer includes adjustable audible and visual alarms for high/low temperature deviation and a self-diagnostic messaging system. The softkey six button menu allows for easy management of all freezer functions.

-30°C Upright Freezer

MDF-U334-PA



Model MDF-U334-PA



Cam latch provides positive door closure.

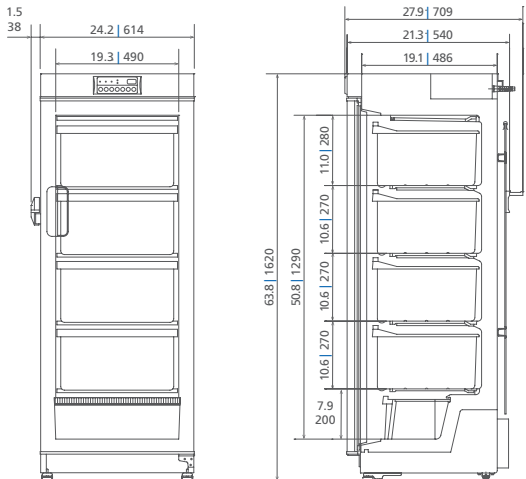
Security provided with key lock and integrated pad lock hasp. Pad lock is optional.


Maximize Floor Space

The upright cabinet design offers maximum storage with minimal floor space required.

Dimensions

Unit : inch | mm



Model Number		MDF-U334-PA
External Dimensions (W x D x H) ¹⁾	inches mm	24.2 x 27.9 x 63.8 614 x 709 x 1620 mm
Internal Dimensions (W x D x H)	inches mm	19.3 x 19.1 x 50.8 490 x 486 x 1290 mm
Volume	cu.ft. liters	9.7 274
Net Weight	lbs kg	178 81
Performance		
Warranty		2 years parts and labor, 3 years compressor parts
Cooling Performance ²⁾	°C	-30
Temperature Setting Range	°C	-18 to -35 in 1°C increments
Temperature Control Range ²⁾	°C	-20 to -30 in 1°C increments
Control		
Controller		Microprocessor, softkey data entry, key lock, memory
Display		LED
Temperature Sensor		Thermistor
Refrigeration		
Refrigeration System		Single, hermetic, rotary type compressor
Compressors	W	(1) 400
Refrigerant		CFC-free R-134a
Evaporator Type		5, with 4 fixed evaporator wire shelves
Defrost		Manual
Insulation Material		Rigid polyurethane foamed-in-place
Construction		
Exterior Material		Powder coated, painted steel
Interior Material		Styrene Resin
Outer Door		1; Solid
Key Lock		Standard
Additional Door Lock		Hasp for pad lock
Shelves		4; Fixed, wire
Shelf Dimension (W x D)	inches mm	18.8 x 13.7 480 x 347
Access Port / Position	qty	1 Left side
Bins	qty	4; Large 1, small
Access Port Diameter	inches mm	1.1 30
Casters	qty	2; Swivel 2; fixed
Leveling Feet	qty	2; Front of base for securing unit in place
Alarms (V = Visual Alarm, B = Buzzer Alarm, R = Remote Alarm)		
Power Failure		V-B-R
High Temperature		V-B-R
Low Temperature		V-B-R
Battery Life		V
Condenser Fan Motor Life		V
Sensor Abnormality		V-B-R
Remote Alarm Contacts / Outputs		Normal open, normal closed, common DC 30V, 2A
Electrical and Noise Level		
Power Supply		115V, 1Ø, NEMA 5-15P; requires NEMA 5-15R receptacle
Noise Level ³⁾	dB(A)	34
Temperature Recorder		
Circular Type	6", 7 day circular	MTRC955 (externally mounted)
Chart Paper	52 charts per box	C740306REV
Ink Pen	pack of 6	R252

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other external projections

²⁾ Air temperature measured at freezer center, ambient temperature +30°C, no load

³⁾ Nominal value – Background noise 20db(A)

Specifications are subject to change without notice.

For latest specification information contact PHC Corporation of North America at info@us.phcd.com. Performance data herein is based on independent testing at time of publication.



PHC Corporation of North America
 1300 Michael Drive, Suite A, Wood Dale, IL 60191
 Toll Free USA (800) 858-8442, Fax (630) 238-0074
www.phcd.com/us/biomedical