



MDF-U731M-PA | FZRMD24

Biomedical Freezer

-30°C Upright Freezer

24.4 cu.ft. | 690 L

Our biomedical freezer provides uniform, reliable and environmentally safe operation. The manual defrost storage solution is designed for long, intermediate and short-term storage at temperatures as low as -30°C. The biomedical freezer can be used in clinical, biotechnology and industrial laboratories.

Refrigeration Design

This biomedical freezer utilizes unique high performance laboratory and clinical grade refrigeration systems to provide dependable cooling by balancing temperature performance and energy management. The reserve refrigeration power, initiated automatically on demand, assures fast temperature recovery following door openings.

Uniform Storage Environment

Uniform temperatures are maintained throughout the storage chamber through unique electrical control of the refrigeration system. This assures product safety regardless of storage location. This freezer is ideal for storage of biologics, enzymes, culture media, vaccines, lab specimens and other temperature sensitive materials.

Manual Defrost Systems

Model MDF-U731M-PA | FZRMD24 includes a cold wall evaporator with a manual defrost system. Coils are placed strategically within the chamber for maximum cooling performance. The chamber storage area is maintained at a constant temperature until a manual defrost is initiated. This stability is ideal for temperature sensitive biological materials, such as enzymes.



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.



Microprocessor Control and Alarm System

This biomedical freezer includes factory preset audible and visual alarms for power failure and door ajar, battery backup and a self-diagnostic messaging system. The softkey six button menu allows for easy management of all freezer functions.



Optional Storage Bins

Optional storage bins and adjustable shelving allow for the optimum arrangement of storage configurations to meet your specific needs. The optional bins (MDFTO75C) come in seven packs of two for a total number of 14 bins.

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Cam latch provides positive door closure.

The key lock and integrated hasp increase security while the cam latch provides positive door closure. The padlock is optional.

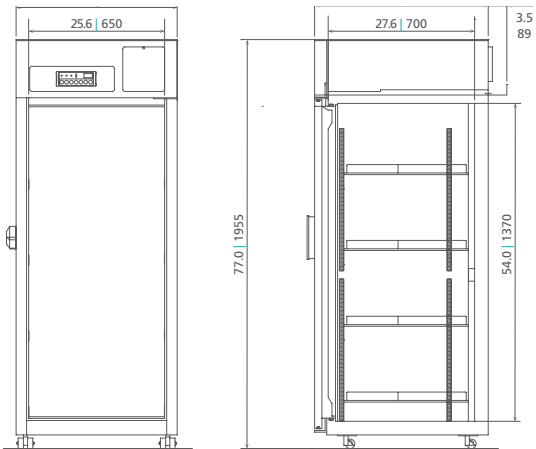
Model MDF-U731M-PA | FZRMD24 shown with optional storage bins.


Maximize Floor Space

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

Dimensions

Unit : inch | mm



Model Number		MDF-U731M-PA FZRMD24
External Dimensions (W x D x H) ¹⁾	inches mm	30.3 x 32.7 x 77.0 770 x 830 x 1955
Internal Dimensions (W x D x H)	inches mm	25.6 x 27.6 x 59.8 650 x 700 x 1520
Volume	cu.ft. liters	24.40 690
Net Weight	lbs kg	335 152
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, password protected, memory
Display		LED
Temperature Sensor		Thermistor
Refrigeration		
Refrigeration System		Single, hermetic, reciprocal compressor
Compressors	W	(1) 400
Refrigerant		SNAP and CARB Approved HFO R-449A
Evaporator Type		Cold Wall
Defrost		Manual
Insulation Material		Rigid polyurethane foamed-in-place
Construction		
Exterior Material		Powder coated steel
Interior Material		Painted steel
Outer Door		1; Solid
Key Lock		Standard
Additional Door Lock		Hasp for pad lock
Shelves		4; Adjustable, wire
Shelf Dimension (W x D)	inches mm	24.6 x 24.4 626 x 620
Max. Load - Total	lbs kg	110 50
Access Port / Position	qty	2; 1 left side, 1 top
Bins	qty	Optional
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
Door Ajar		V-B
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)	40
Options		
Bin Capacity	pack	7 packs of 2, total 14 bins
Bin	part number	MDF075C
Extra Shelf	part number	MDF730SLF
Temperature Recorders		
Circular Type		MTRC954
Chart Paper		C740306REV
Ink Pen	pack of 6	R252
Optional Communication System		
Wireless, Cloud-Based, Automatic Data Management		LabAlert® Monitoring System

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.

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



PHC Corporation of North America

