



MDF-U731M-PE

Precise & Uniform Storage

A microprocessor controller ensures precise and uniform storage temperatures regardless of ambient conditions. Manual defrost provides stable temperature control without transient temperature increases.

Extensive Storage Options

Adjustable shelving accommodates a range of different storage options for a wide number of applications. Optional plastic containers and extra shelves are ideal for storing a variety of different types of samples while inventory racking systems can be used for storage of cryoboxes.



A comprehensive visual and audible alarm system with remote alarm contacts ensures users are aware of any abnormalities and can take appropriate actions. A keyed door lock with provision for an optional padlock ensures sample security.

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Temperature Sensitive Samples

Optimum uniformity and stability are ideal for storage of samples that are highly sensitive to temperature fluctuations.



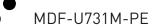
A Flexible Solution

The flexible storage possibilities and adjustable temperature range can accomodate both current and future storage needs of growing laboratories.



Valuable Sample Storage

An ideal storage solution for valuable samples such as those in the pharmaceutical, biotechnology and medical research fields.



Biomedical

Crucial Temperature Solutions

Stable -30°C environment with extensive storage possibilities The MDF-U731M is a large-capacity, biomedical freezer, with a direct cooling system and manual defrost. This freezer is

designed with optimised features for laboratory-grade freezing of enzymes, vaccines, and other biologics.

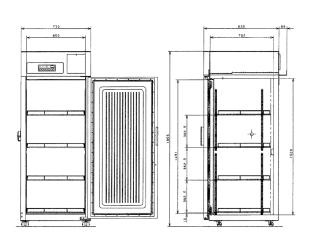
690 L

BIOMEDICAL -30°C Freezer



Uniform & Stable Temperature Control

The large capacity MDF-U731M-PE features direct cooling with a full cold wall design. The evaporator pipes are strategically designed to surround the cabinet in a way that prevents warm or cold spots and therefore ensures superior uniformity throughout the freezer. As well as providing optimum uniformity, the cold wall technology also ensures maximum protection by providing a rapid temperature recovery after door opening.



Model Number		MDF-U731M-PE	
External dimensions (W x D x H) ¹⁾	mm	770 x 830 x 1955	
Internal dimensions (W x D x H)	mm	650 x 700 x 1520	
Volume	litres	690	
Net weight	kg	152	
Capacity	2" boxes	384	
Performance	2 BOXES	004	
Cooling performance ²⁾	°C	-30	
Temperature setting range	°C	-18 to -35	
Temperature control range ²	°C	-20 to -30	
Control	U	2010 30	
Controller		Microprocessor, non-volatile memory	
Display		LED	
Temperature sensor		Thermistor	
Refrigeration		mermistor	
		Direct	
Refrigeration system*	W	400	
Compressors	VV	R-404A	
Refrigerant			
Refrigerant weight	g	260	
GWP of refrigerant for each cooling circuit		3922	
Total Refrigerant weight (CO ₂ equivalent)	t	1.020	
Insulation material		PUF	
Insulation thickness	mm	60	
Construction	1		
Exterior material		Painted Steel	
Interior material		Painted Steel	
Outer door	qty	1	
Outer door lock		Y	
Inner doors	qty	-	
Shelves	qty	4	
Max. load - per shelf	kg	50	
Max. load - total	kg	200	
Access port	qty	1	
- position		Left	
- diameter	Ømm	30	
Casters	qty	4 (2 leveling feet)	
Alarms	(R = Rem	note Alarm, V = Visual Alarm, B = Buzzer Alarm)	
Power failure		V-B-R	
High temperature		V-B-R	
Low temperature		V-B-R	
Door open		V-B	
Electrical and noise level			
Power supply	V	230	
Frequency	Hz	50	
Noise level ³⁾	dB [A]	42	
Options			
Storage containers		MDF-T07SC-PW (set of 2)	
Additional shelves		MDF-T07ST-PW (set of 3)	
Temperature recorders			
- Circular type		MTR-G85C-PE	
- Chart paper		RP-G85-PW	
- Ink pen		PG-R-PW	
- Continuous strip type		MTR-4015LH-PE	
- Chart paper		RP-40-PW	
- Ink pen			
- Recorder housing		MPR-S30-PW	
Appearance and specifications are subject to change without notice.			

1) Exterior dimensions of main cabinet only, excluding handle and other external projections - See dimensions drawings on website for full details " Air temperature measured at freezer centre, ambient temperature +30°C, no load ^a Nominal value - Background noise 20dB * Complies with Art. 11, Annex III of F-Gas Regulation (EU) No 517/2014. Contains fluorinated greenhouse gases.

PHC Europe B.V.

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