



Biomedical

-30°C Chest Freezer

138 | 221 | 425 L



Power to counteract frequent door openings Biomedical Chest Freezers offer outstanding reliability and performance, as required in a wide variety of storage- and research applications.

MDF-237-PE

Precise & Uniform Storage

Precise and uniform storage temperatures regardless of ambient conditions through microprocessor temperature control.

Stable Temperature Control

Manual defrost provides stable temperature control and does not exhibit transient temperature.

Ease of Use & Intelligent Security

A comprehensive visual and audible alarm system with remote alarm contacts ensures users are aware of any abnormalities and can take appropriate actions.

MPR-721-PE Temperature Variation 24 hr Temperature Mapping (Unloaded) Refrigerator Set at 5°C



Outstanding reliability and performance

The outstanding reliability and performance provided are ideal in a wide variety of storage and research applications.



Effective storage In the medical field they provide effective storage of life-saving blood supplies and vaccines, as well as samples for diagnosis.



Valuable Sample Storage An ideal storage solution with door lock (key included) for valuable samples.

Biomedical -30°C Chest Freezer



MDF-437-PE

Easy to read digital display

Temperature readings are displayed and controlled in the range of -20oC to -30oC.

Direct Cooling System

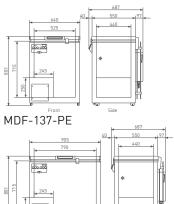
The Biomedical -30oC Chest Freezers feature a direct cooling system for uniform temperature control. Manual defrost ensures a stable environmet with no arge temperature peaks.

Visual LED Alarm Alerts

Audible and flashing LED visual alarms alert users to the unlikely event of either a high or low temperature condition to protect stored products.

Microprocessor Control

Managed and monitored by an integrated microprocessor controller with a comprehensive alarm system and diagnostic functions.



MDF-237-PE

MDF-437-PE

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PHC Europe B.V.

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Model Number		MDF-137-PE	MDF-237-PE	MDF-437-PE
Dimensions				
External Dimensions (W x D x H) ^{1]}	mm	640 x 687 x 881	905 x 687 x 881	1265 x 807 x 902
Internal Dimensions (W x D x H)	mm	525 x 440 x 715	790 x 440 x 715	1140 x 550 x 733
Volume	litres	138	221	425
Capacity	2" boxes	51	111	201
Net weight (approx)	kg	52	60	81
Performance	3			
Cooling performance ²⁾	°C	-30		
Temperature setting range	°C	-18 ~ -35		
Temperature control range ²⁾	°C	-20 ~ -30		
Control				
Controller			Microprocessor	
Display		LED		
Temperature sensor		Thermistor		
Refrigeration				
Cooling method*			Direct	
Compressor	W	150	200	250
Refrigerant		R-134a	R-134a	R-449A
Refrigerant weight	g	160	175	300
Refrigerant GWP	3	1430	1430	1397
Total Refrigerant weight (CO ₂ equivalent)	t	0.229	0.250	0.419
Insulation material			PUF	
Insulation thickness	mm	55	55	60
Construction		55	33	00
Exterior Material			Painted Steel	
Interior Material		Coloured aluminium		
Outer lid	qty	1		
Outer lid lock	49	Y		
Containers / baskets	qty	2	3	4
Max. load per container / basket	kg	L	10	-
Max. load - total	kg	50	80	110
Access port	qty	00	2	110
- position	Чÿ	Z Right / bottom left		
- diameter	Ømm	17		
Casters		4 (2 levelling feet)		
Alarms	qty	(R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm)		
Power Failure		(K = Kentole Alarni	V-B-R	Atarini
High Temperature		V-B-R		
Low Temperature		V-B-R		
			V-D-R	
Electrical and Noise Level	V		230V 50Hz cingle shoot	
Power Supply Noise Level ³	dB [A]	35	230V 50Hz single phase	42
	uD [A]	<u>ა</u> უ	41	42
Options				MDF-43B2-PW,
Storage systems		MDF-13B2-PW, set of two baskets MDF-13B3-PW, set of three baskets		set of two baskets, MDF-43B3-PW, set of three baskets
Temperature recorders				
- Circular type		MTR-G85C-PE		
- Chart paper		RP-G85-PW		
- Ink pen		PG-R-PW		
- Recorder housing		MDF-S740-PW		set of three baskets
- Continuous strip type		MTR-4015LH-PE		
- Chart paper		RP-40-PW		

Appearance and specifications are subject to change without notice.

Exterior dimensions of main cabinet only, excluding handle and other external projections - See dimensions drawings on website for full details 2) Air temperature measured at freezer centre, ambient temperature +35°C, no load 3) Nominal value - Background noise 2008
* Complies with Art. 11, Annex III of F-Gas Regulation (EU) No 517/2014. Contains fluorinated greenhouse gases.