

Biomedical

-30°C Chest Freezer

425 L



MDF-437-PE

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.

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.



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.

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Easy to read digital display

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

Direct Cooling System

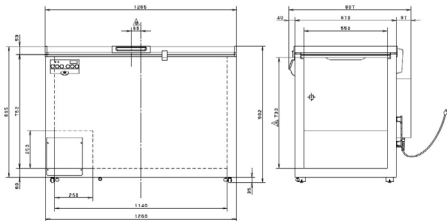
The Biomedical -30oC Chest Freezers feature a direct cooling system for uniform temperature control. Manual defrost ensures a stable environment with no large temperature peaks.

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-437-PE

Model Number		MDF-437-PE
Dimensions		
External Dimensions (W x D x H) ¹⁾	mm	1265 x 807 x 902
Internal Dimensions (W x D x H)	mm	1140 x 550 x 733
Volume	litres	425
Capacity	2" boxes	201
Net weight (approx)	kg	81
Performance		
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	250
Refrigerant		R-449A
Refrigerant weight	g	300
Refrigerant GWP		1397
Total Refrigerant weight (CO equivalent)	t	0.419
Insulation material		PUF
Insulation thickness	mm	60
Construction		
Exterior Material		Painted Steel
Interior Material		Coloured aluminium
Outer lid	qty	1
Outer lid lock		Y
Containers / baskets	qty	4
Max. load per container / basket	kg	10
Max. load - total	kg	110
Access port	qty	2
- position		Right / bottom left
- diameter	Ø mm	17
Casters	qty	4 (2 levelling feet)
Alarms		[R = Remote Alarm, V = Visual Alarm, B = Buzzer Alarm]
Power Failure		V-B-R
High Temperature		V-B-R
Low Temperature		V-B-R
Electrical and Noise Level		
Power Supply	V	230V 50Hz single phase
Noise Level ³⁾	dB [A]	42
Options		
Storage systems		MDF-43B2-PW, 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
- Continuous strip type		MTR-4015LH-PE
- Chart paper		RP-40-PW
- Recorder housing		MDF-S3040-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
2) Air temperature measured at freezer centre, ambient temperature +35°C, no load
3) Nominal value - Background noise 20dB
* Contains fluorinated greenhouse gases.