



MDF-U443-PE

Biomedical

-40°C Plasma Freezer

426 L



The ideal freezing environment for the preservation of fresh frozen plasma

The Biomedical -40°C Plasma Freezers are certified as Class lla Medical Device. These freezers provide secure storage of valuable research- and clinical samples.

Effective Temperature Control

Microprocessor controls ensure that the set temperature is maintained regardless of ambient conditions. With a temperature range that can be set anywhere between -15°C to 40°C.

Stable & Uniform Temperature Design

Temperature uniformity throughout the freezer ensures that all samples can be stored in identical conditions. The forced Air Circulation technology quickly restores temperature uniformity following routine door openings.

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.



Uniform Sample Storage

A powerful fan ensures temperature uniformity throughout the freezer cabinet. High freezing power increases temperature uniformity.



Stable Environment

The environment that is unaffected by fluctuations in ambient temperature ensuring stable conditions and a stable environment for storage of plasma and DNA.



Safe & Secure Storage

Multiple safety systems such as high/low temperature audible and visual alarms, remote alarm, door open alarm and keyed door locks.

VIP -40°C Freezers





Custom made drawers upon request

Easy to read digital display

Temperature readings are displayed and controlled in the range of -15°C to 40°C.

Automatic Compressor Cycling

Compressor ON - OFF cycles are regulated automatically in response to cooling demand to minimise compressor running time and to save energy.

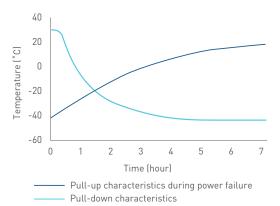
Audible and flashing LED Visual alarms

Audible and flashing LED visual alarms with remote alarm contacts are in place in case of power failure, high or low temperature condition, or during any thermal sensor abnormality.

Interior

The stainless steel interior is easy to clean. Two transparent acrylic inner doors minimises cold air leakage. Shelf location can be freely adjusted to match size of stored items.

Performance data





The MDF-U443-PE is certified as a Class IIa Medical Device (93/42/EEC and 2007/47/EC) for medical purposes of storing at low temperature of plasma and DNA.



PHC Europe B.V.

M I I N I		MDE III	1/0 PE
Model Number		MDF-U4	
External dimensions (W x D x H) ¹¹	mm	800 x 832	
Internal dimensions (W x D x H)	mm	640 x 615	
Volume	litres	426, 300 FFP packs (300 ml)	
Net weight	kg	21	
Capacity	2" boxes	256	
Performance			
Cooling performance 2	°C	-40 ³ j	
Temperature setting range	°C	-15 to -44	
Temperature control range ²	°C	-15 to -40	
Control			
Controller		Microprocessor, non-volatile memory	
Display		LED	
Temperature sensor		Thermistor	
Refrigeration			
Refrigeration system*		Cascade + forced air circulation	
Compressors	W	H:400/L:750	
Cooling circuit		High Stage	Low Stage
Refrigerant		R-513A	R-449A
Refrigerant weight	g	250	145
GWP of refrigerant for each cooling circuit		631	1397
Total Refrigerant weight (CO ₂ equivalent)	t	0.3	60
Insulation material		PUF / VIP PLUS	
Insulation thickness	mm	70	
Construction		·	
Exterior material		Painted Steel	
Interior material		Stainless Steel	
Outer door	qty	1	
Outer door lock	1,	Y	
Innerdoors	qty	2 (acrylic)	
Shelves	qty	5	
Containers/baskets	kg	-	
Max. load - per shelf/container/basket	kg	50	
Max. load - total	kg	200	
Access port	qty	200	
- position	419	Left	
- diameter	Ø mm	40	
	חווש		
Interior fluorecent lamp	a.t.	Y	
Casters	qty	4 (2 leveling feet) note Alarm, V = Visual Alarm, B = Buzzer Alarm)	
Alarms	(R = Rèm		
Power failure		V-B-R	
High temperature		V-B-R	
Low temperature		V-B-R	
Filter		V-B	
Door open		V-B	
Electrical and noise level			
Power supply		230V 50Hz single phase	
Noise level ^{4]}	dB [A]	51	
Options			
Storage systems		Custom made drawer s	systems upon request
Temperature recorders			
Circular type		N.A.	
Continuous strip type		MTR-4015LH-PE MTR-85H-PW	
		(-40°C to +14°C)	(-100°C to +50°C)
61 .		DD / 0 DM/	RP-85-PW
- Chart paper		RP-40-PW	
Chart paperInk penRecorder housing		Included in the recorder MPR-S30-PW	DF-38FP-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 +30°C, no load.

3 Air temperature measured at freezer centre, ambient temperature +35°C, no load.

4 Nominal value - Background noise 20dB[A].

^{*} Complies with Art. 11, Annex III of F-Gas Regulation (EU) No 517/2014. Contains fluorinated greenhouse gases.



Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.