

VIP Dual Cool Series -86°C Ultra-Low Freezers

MDF-U700VX-PE



Certified as a Class IIa Medical Device

Discovery powered by precision

-86°C Ultra-Low Freezers MDF-U700VX-PE



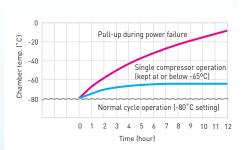
The Dual Cooling system is newly designed to provide the highest level of security for valuable biological samples.

Secure storage with new Dual Cooling system

The Dual Cooling System is newly designed to securely store valuable biological samples. Two independent refrigeration systems provide a reliable -86°C ultra-low temperature environment. Should unexpected failure occur in one cooling circuit, the other will maintain the freezer in the -70°C range.

High efficiency insulation using V.I.P. technology

Panasonic's patented V.I.P. technology has resulted in a revolutionary vacuum insulation cabinet construction that reduces wall thickness by approximately one

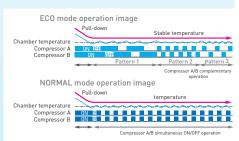


half and achieves up to 30% more storage capacity than conventionally insulated freezers, without increasing its footprint.

Intelligent ECO mode operation

"ECO mode," an industry first operation, achieves approx. 15% energy savings than conventional models. The two compressors,

A and B, are independently controlled to optimise operation efficiently to minimise energy consumption by monitoring load status on the freezer.



Graphic control panel

A central LCD display panel allows for ultimate operability. Temperature performance graphs can be visualized on screen and a data log function allows information to be transmitted to a PC via the interface module.

User-friendly design

- Various alarms including high/low temperatures, door ajar, power failure alarm and part replacement notification help to keep samples safe even in an emergency.
- A vacuum release port allows smooth door opening even when the door seal is tightened by negative pressure generated by the temperature difference between chamber and ambient environment.
- Filterless construction eliminates bothersome filter cleaning.
- Rugged, one-handed outer door latch allows a padlock to be attached.



MDF-U700VX is certified as a Class IIa Medical Device (93/42/EEC and 2007/47/EC) for medical purposes of storing cells, DNA and/or frozen plasma (For EU countries only)

VIP Dual Cool Series		
Characteristics PUF = Rigid polyurethane foamed insulation V = Visual alarm B = Buzzer alarm R = Remote alarm		
MODEL		MDF-U700VX-PE
Dimensions		
External dimensions (W x D x H)	mm	1010 x 870 x 2010
Internal dimensions (W x D x H)	mm	870 x 600 x 1400
Effective capacity	litres	728
Net weight (approx)	kg	383
Performance		
Cooling performance 1)	°C	-86
Temperature setting range	°C	-50 ~ -90
Temperature control range ^{1]}	°C	-50 ~ -86
Control		
Controller		Microprocessor Non-volatile memory
Vacuum release port		Yes
Display		LCD
Temperature sensor		Pt-1000
Refrigeration		
Refrigeration system		Independent Dual-Cooling
Low-stage compressor	W	2 x 1100
Low-stage refrigerant		HFC Mixed
Insulation material		PUF / VIP Plus
Insulation thickness	mm	70
Alarms		V 5 5
Power failure		V-B-R
High temperature		V-B-R
Low temperature		V-B-R
Filter		Filterless design V-B
Door open Construction		V-D
Exterior material		Painted steel
Interior material		Painted steel
Inner door	qty	2 (Insulated)
Outer door lock	7-7	Y
Shelves (adjustable)	qty	3
Max. load - per shelf	kg	50
Max. load - total	kg	150
Access port	qty	3
- position		Back/Bottom x 2
- diameter	Ømm	17
Casters	qty	4 (2 leveling feet)
Electrical and Noise Level		
Power supply	-ID	230V 50Hz Single phase
Noise level 2)	dB	53
Options Development		0/4/ 1100 011
Liquid CO ₂ Back-up		CVK-UB2-PW
Liquid N ₂ Back-up		CVK-UBN2-PW
Temperature recorders - Circular type (-100°C to +40°C)		MTR-G85C-PE
- Chart paper		RP-G85-PW
- Ink pen		PG-R-PW
- Continuous strip type		MTR-85H-PW
(-100°C to +50°C)		WIIN-03H-PW
- Chart paper		RP-85-PW
- Ink pen		DF-38FP-PW
- Recorder housing		MDF-S3085-PW
RS485 interface module		MTR-480-PW
Drawers	qty	-
Small inner door kit	set of 2	MDF-5ID-PW (Max 2)
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VIP Dual Cool Series

notes: 1) Air temperature measured at freezer centre, ambient temperature +30°C, no load

^{2]} Nominal Valu

for more information:

Appearance and specification are subject to change without notice