



-86°C Ultra-low Temperature Freezer



845 L

Panasonic's MDF-DU900V -86°C Upright Freezer provides maximum sample storage capacity within an optimum footprint combined with industry leading cooling performance and reliability for an ideal long-term preservation solution.

Maximum Sample Storage

The use of space saving VIP PLUS panels within the freezer cabinet allows a capacity of up to 616 2" boxes inside a footprint of just 1m² for maximum storage. The freezer's conventional depth allows for easy installation.

Reliable Panasonic Technologies

The compressors that are specifically designed for ultra-low temperature applications are employed in the proven Panasonic cascade refrigeration system ensuring the highest levels of performance and reliability.

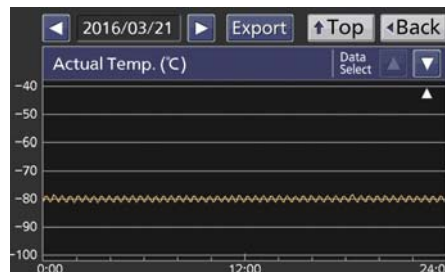
Enhanced Use & Intelligent Security

The new EZlatch makes access to stored samples even easier. A colour LCD touch panel allows full user control, even with gloved hands, while the USB port makes transferring logged data to a PC simple and convenient.



High Capacity Sample Storage

Ideal for high volume and long term sample storage in biobanks and biorepositories.



Dependable Preservation

Quality of design and manufacture ensures trusted and reliable storage that maintains the integrity of precious samples.



Easy Data Monitoring

Important information such as freezer temperature, door opening times and alarm history is logged for monitoring in GLP applications.

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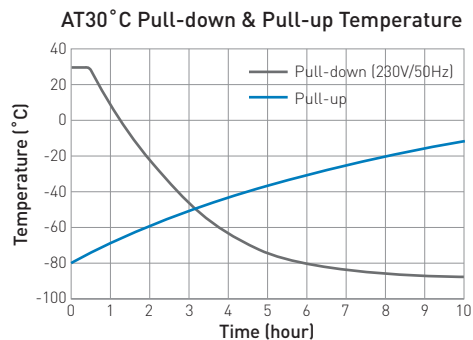
Application Specific Design

Refrigeration components are carefully selected and matched for optimum and efficient operation under demanding laboratory environments. This improves temperature recovery after door openings and sample placement, while ensuring lower internal temperatures for increased durability.

Microprocessor Control with Touch Screen Display

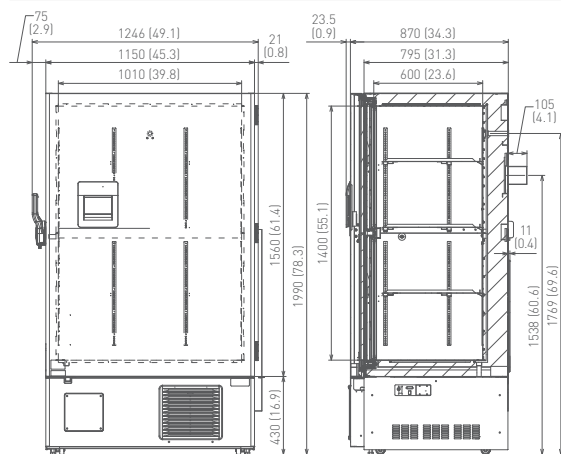
Managed and monitored by an integrated microprocessor controller with a comprehensive alarm system and self-diagnostic functions. Freezer temperature and important status information are clearly displayed and logged, with the possibility to export the data to USB.

Performance Data



Dimensions

Unit : mm (inch)



Model Number	MDF-DU900V-PB	MDF-DU900V-PE	
External dimensions (W x D x H) ¹⁾	mm	1150 x 870 x 1990	
Internal dimensions (W x D x H)	mm	1010 x 600 x 1400	
Volume	litres	845	
Net weight	kg	372	
Capacity	2" boxes	616	
Performance			
Cooling performance ²⁾	°C	-86	
Temperature setting range	°C	-50 to -90	
Temperature control range ²⁾	°C	-50 to -86	
Control			
Controller		Microprocessor, non-volatile memory	
Display		LCD Touch Screen	
Temperature sensor		Pt-1000	
Refrigeration			
Refrigeration system		Cascade	
Compressors	W	2 x 1100	
Refrigerant		HFC	
Insulation material		PUF / VIP PLUS	
Insulation thickness	mm	70	
Construction			
Exterior material		Painted Steel	
Interior material		Painted Steel	
Outer door	qty	1	
Outer door lock		Y	
Inner doors	qty	2 pieces (insulated)	
Shelves	qty	3 (stainless steel)	
Max. load - per shelf	kg	50	
Max. load - total	kg	150	
Vacuum release port		Y	
Access port	qty	2	
Access port position		Back, Bottom	
Access port diameter	∅ mm	17	
Casters	qty	4 (2 leveling feet)	
Alarms (V = Visual Alarm, B = Buzzer Alarm, R = Remote Alarm)			
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	V	220	230 / 240
Frequency	Hz	50	50
Noise level ³⁾	dB (A)	52	
Options			
Small inner door kit	set of 2	MDF-91D-PW (max 2) ⁴⁾	
Liquid CO ₂ back-up		MDF-UB6B-PW	
Inventory rack		IR-224U-PW, IR-220U-PW	
Temperature recorders	- Circular type	MTR-G85C-PE ⁵⁾ - Chart paper: RP-G85-PW - Ink pen: PG-R-PW	
	- Continuous strip type	MTR-85H-PW ⁵⁾ - Chart paper: RP-85-PW - Ink pen: DF-38FP-PW - Recorder housing: MDF-S3085-PW	
	Optional Communication Systems		
	Digital interface (RS232C/RS485) ⁶⁾	MTR-480-PW	
Ethernet interface (LAN) ⁶⁾	MTR-L03-PW		

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other external projections.

²⁾ Air temperature measured at freezer centre, ambient temperature +30 °C, no load.

³⁾ Nominal value - Background noise 20dB(A).

⁴⁾ Installation of small inner door kit may effect usable storage capacity.

⁵⁾ Requires sensor cover MTR-DU700SF-PW.

⁶⁾ Only for MTR-5000 (data acquisition system) users.

Caution: Panasonic guarantees the product under certain warranty conditions. Panasonic in no way shall be responsible for any loss of content or damage to content.

Preservation, Culturing, Drying, and Sterilization Equipment.



The management of the design, development, production, sales support, and servicing of the above.

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Panasonic Healthcare Co., Ltd. Biomedical Division, the producer of Ultra-Low Temperature Freezers, is certified by TÜV SÜD for the product quality management system.



Panasonic Healthcare Co., Ltd. Biomedical Division is certified for:

Environmental management system: ISO14001

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