



MDF-DU702VH-PE

VIP ECO

Natural Refrigerants -86°C Upright Freezer

729 L



Cost-saving and environmentally friendly sample storage within an optimal footprint

The MDF-DU702VH **VIP ECO** -86°C Upright Freezer provides maximum sample storage capacity within an optimum footprint combined with natural refrigerants to minimise energy consumption, reduce environmental impact and save money.

Efficient Refrigeration

Naturally occurring hydrocarbon (HC) refrigerants provide more efficient cooling due to their high latent heat of evaporation. As well as improved performance this leads to reduced power consumption and energy costs.

Inverter Technology

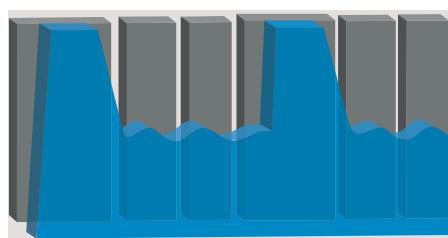
The MDF-DU702VH **VIP ECO** ULT Freezer contains Inverter Compressors that maximise cooling performance under different conditions, and contribute to reducing the energy consumption of the freezer.

Intelligent Interface

The 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.



Environmentally Friendly
Ideal for laboratories looking to reduce their carbon footprint and environmental impact to comply with sustainability policies.



Uniform Sample Storage
Inverter compressors provide optimum stability, while quality of design ensures reliability. Ideal for samples that are sensitive to temperature fluctuations.



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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Inverter Compressors

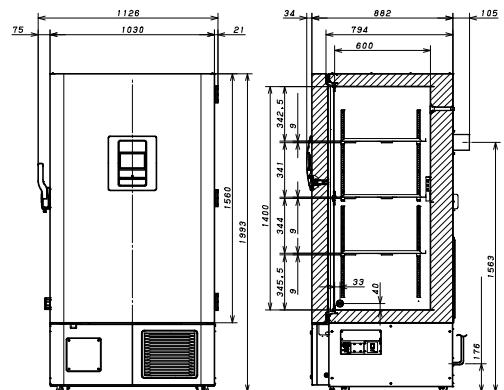
While conventional freezers use single speed compressors which cycle on and off, the MDF-DU702VH **VIP ECO** ULT Freezer contains inverter compressors that can run at different speeds to maximise cooling performance under different conditions. Combined with hydrocarbon refrigerants, these compressors ensure the most efficient energy use and reduced heat output.

Efficient & Flexible Sample Storage

The combination of VIP PLUS vacuum insulation and an enhanced cabinet design with insulated outer door, ensures optimum temperature uniformity, while the reduced wall thickness maximizes storage capacity. Multiple shelf configurations allow a variety of storage options. Organize your samples by transferring your current inventory racks.

Innovative Cabinet Design

The enhanced cabinet design with chamfered edges reduces footprint for use in multi freezer laboratories.



MDF-DU702VH-PE

EEA, Switzerland and Turkey only



For medical use
The MDF-DU702VH-PE is certified as a Class IIa Medical Device (93/42/EEC and 2007/47/EC). Applicable countries: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Ireland, Italy, Liechtenstein, Luxembourg, Malta, the Netherlands, Spain, Switzerland and the United Kingdom only



For laboratory use

Applicable countries: EEA countries, Switzerland and Turkey

Model Number		MDF-DU702VH-PE	
External dimensions (W x D x H) ¹⁾	mm	1030 x 882 x 1993	
Internal dimensions (W x D x H)	mm	870 x 600 x 1400	
Volume	litres	729	
Net weight	kg	278	
Capacity	2" boxes	576	
Performance			
Cooling performance ²⁾	°C	-86	
Temperature setting range	°C	-40 to -90	
Temperature control range ²⁾	°C	-40 to -86	
Control			
Controller		Microprocessor, non-volatile memory	
Display		LCD Touch Screen	
Temperature sensor		Pt-1000	
Refrigeration			
Refrigeration system		Cascade	
Compressors	W	2 x 750	
Refrigerant		HC	
Insulation material		PUF / VIP Plus	
Insulation thickness	mm	80	
Construction			
Exterior material		Painted Steel	
Interior material		Painted Steel	
Outer door	qty	1	
Outer door lock		Y	
Inner doors	qty	2	
Shelves	qty	3	
Max. load - per shelf	kg	50	
Max. load - total ³⁾	kg	515	
Vacuum release port		2 (1 automatic, 1 manual)	
Access port	qty	3	
- position		back x 1, bottom x 2	
- diameter	Ø 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	
Door open		V-B	
Electrical and Noise Level			
Power supply	V	230	
Power consumption ⁴⁾	kWh/24h	7.7	
Frequency	Hz	50	
Noise level ⁵⁾	dB [A]	< 52	
Options			
Small inner door kit	set of 5	MDF-7ID5-PW ⁶⁾	
Small inner door kit	set of 4	MDF-7ID4-PW	
Liquid CO ₂ back-up		MDF-UB7-PW	
Temperature recorders		MTR-G85C-PE ⁷⁾	
- Circular type		MTR-G85C-PE ⁷⁾	
- Chart paper		RP-G85-PW	
- Ink pen		PG-R-PW	
- Continuous strip type		MTR-85H-PW ⁷⁾	
- Chart paper		RP-85-PW	
- Ink pen		DF-38FP-PW	
- Recorder housing		MDF-S3085-PW	

Appearance and specifications are subject to change without notice.

¹⁾ External dimensions of main cabinet only, excluding handle and other external projections - See dimensions drawings for full details.

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

³⁾ Max. load is the total of the load distributed over all shelves [3] and chamber bottom surface. The weight is the maximum load for chamber inside and does not account for maximum load on casters equipped with product.

⁴⁾ Typical data - individual units may vary and power consumption will depend on loading and operating conditions. Freezer set-point -80°C, ambient temperature 23°C, unloaded, 230V 50Hz power supply.

⁵⁾ Nominal value - Background noise 20dB(A).

⁶⁾ Usable storage capacity will be 480 x 2" boxes with installation of MDF-7ID5-PW and additional shelf.

⁷⁾ Requires sensor cover MTR-DU700SF-PW.

PHC Europe

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