



MDF-U76V-PE

VIP

-85°C Upright Freezer

728 L



PHCbi's MDF-U76V **VIP** -85°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.

Optimum Sample Storage

The use of patented space saving VIP PLUS panels within the freezer cabinet provides a reduced wall thickness for maximum interior volume. This results in a capacity of up to 576 2" boxes.

Reliable PHCbi Technologies

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

Ease of Use & Intelligent Security

Comprehensive setpoint, alarm, monitoring and diagnostic functions supervised by PHCbi-built microprocessor controller with digital display of all functions.



Uniform Sample Storage

The uniform and stable temperatures provided are ideal for storage of DNA, RNA and other important biological samples.



Dependable Preservation

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



Self-Diagnostic Monitoring

Status Alert constantly monitors ambient and system conditions and notifies the user of any abnormalities, allowing preventative action.

VIP -85°C Upright Freezer



Application Specific Design

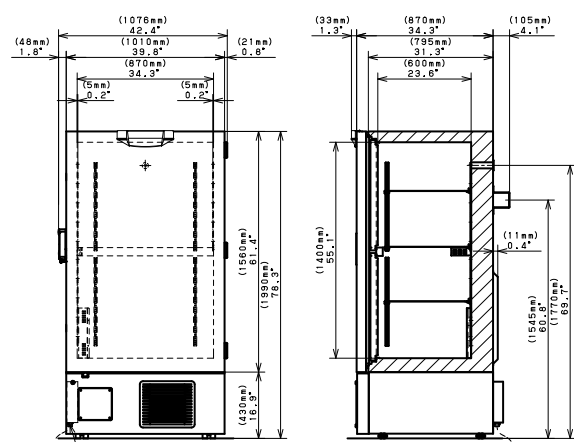
Refrigeration components are carefully selected and matched for optimum operation under demanding laboratory environments. This improves temperature recovery after door openings and sample placement, while ensuring lower internal temperatures for increased durability.

High Storage Capacity

PHCbi VIP ULT freezers provide up to 30% more storage capacity than a conventionally insulated freezer without increasing the footprint. The MDF-U76V features VIP PLUS vacuum panels for increased energy efficiency and cooling performance.

Microprocessor Control

Managed and monitored by an integrated microprocessor controller with a comprehensive alarm system and diagnostic functions.



Model Number		MDF-U76V-PE
External Dimensions (W x D x H) ¹⁾	mm	1010 x 870 x 1990
Internal Dimensions (W x D x H)	mm	870 x 600 x 1400
Volume	litres	728
Net Weight	kg	360
Capacity		
- Aluminium Racks	2" boxes	528
- Stainless steel Racks	2" boxes	576
Performance		
Cooling performance ²⁾	°C	-85
Temperature setting range	°C	-50 to -90
Temperature control range ²⁾	°C	-50 to -85
Control		
Controller		Microprocessor, non-volatile memory
Display		LED
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
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	Ø mm	17
Castors	qty	4 (2 leveling 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
Filter		V-B
Door open		V-B
Electrical and Noise Level		
Power Supply	V	230
Frequency	Hz	50
Noise Level ³⁾	dB [A]	49
Options		
Small Inner Door Kit	set of 2	MDF-7ID-PW (max 2) ⁴⁾
Liquid CO ₂ back-up		CVK-UB2-PW
Temperature recorders		
- Circular type		MTR-G85-PE ⁵⁾
- Chart paper		RP-G85-PW
- Ink pen		PG-R-PW
- Continuous strip type		MTR-85H-PW
- Chart paper		RP-85-PW
- Ink pen		DF-38FP-PW
- Recorder housing		MDF-S3085-PE
Optional communication systems		
Ethernet interface (LAN)		MTR-L03-PW

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 +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.

PHCbi

PHC Europe B.V.



Wolflabs

Wolf Laboratories Limited

www.wolflabs.co.uk

Tel: 01759 301142

Fax: 01759 301143

sales@wolflabs.co.uk



Use the above details to contact us if this literature doesn't answer all your questions.

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.

