



VIP ULT Freezer MDF-U33V

Temperature (Ambient temperature 30°C)

-86°C

Effective capacity

333litres

V.I.P. PLUS (Vacuum Insulation Panel)

Ultra slim, space saving Ultra-Low **Temperature Freezer with Improved** energy consumption

- •V.I.P. PLUS technology maximises storage capacity
- •Safe operation with status alert continuous condition monitoring
- •The inner doors are removable for cleaning and defrosting
- •Enhanced security
- •Improved accessibility
- •Quiet operation
- •Improved energy consumption
- •Can hold up to 216 pcs of 2-inch boxes or 144 pcs of 3-inch boxes

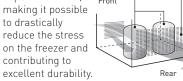


Life Science Innovator **Since 1966**

PHC Corporation, Biomedical Division

DESIGN

- PHCbi V.I.P. PLUS -86°C ultra-low temperature freezers use vacuum insulation cabinet construction that reduces the wall thickness from 14 cm to 9 cm and achieves up to 30 % more storage capacity than a conventionally insulated freezer without increasing the footprint.
- The newly developed refrigeration system and the freezer structure offer a quiet experimental environment.
- The newly developed back cover combined with new aerodynamically designed and placed components in the refrigeration compartment provide Compressors superior air flow, Back making it possible cove to drastically reduce the stress



 Two independent and insulated inner doors with gaskets prevent cold air leakage

RELIABILITY

• Status alert (condition monitor) monitors ambient and system conditions continuously and notifies of any abnormalities before a problem happens.

ACCESSIBILITY

• A beak style inner door latch tightly closes the inner door against the freezer frame. It also helps make opening

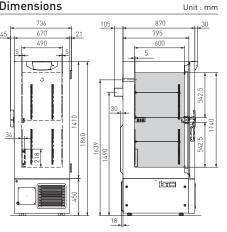


Air

and closing the door smoother.

• The condenser filter is situated at the bottom right side of the front panel to make filter removal and cleaning easier.

Dimensions



SAFETY

- Alarm lamp and buzzer offer secure warning of power failure or abnormal temperature increase.
- High and low temperature warning provides an audible and visual alarm when the temperature deviates more than ±5°C to ±20°C (adjustable) from the set point.
- Alarm ring-back function ensures that buzzer will resume operation, should alarm conditions continue after it is silenced.
- Microprocessor-controlled filter-clog check function protects the refrigeration circuit.
- The rugged, one-handed outer door latch has a hole to allow a padlock to securely protect valuable samples.







Model Number		MDF-U33V-PK	MDF-U33V-PB	MDF-U33V-PE
External dimensions (W x D x H)*1	mm	670 x 870 x 1860		
Internal dimensions (W x D x H)		490 x 600 x 1140		
	mm litres	333		
Effective capacity				
Net weight	kg	Approx. 255		
Performance	0.0		50 · 0/ (: 480 · ·	
Temperature range	°C	-50 to -86 (in 1°C increments)		
Maximum cooling performance	°C	-86 (Ambient temperature 30°C)		
Storage capacity		2" box: 216 pcs. / 3" box: 144 pcs.		
Construction	, ,			
Shelves	qty	Stainless steel, 3		
Access port		17mm diameter, 3 locations (back, bottom left/right corner)		
Compressor		Hermetic type 450 W (high stage side), Hermetic type 750 W (low stage side)		
Refrigerant		HFC		
Alarms		High / low temperature, Power failure, Filter check, Self diagnostics, Door check, Remote alarm contact, Part replacement notification		
Remote alarm contact		Allowable contact capacity: DC 30 V, 2 A		
Accessories		1 set of keys, 1 scraper		
Electrical and Noise Level		MDF-U33V-PK	MDF-U33V-PB	MDF-U33V-PE
Power supply	V	220	220	230/240
Frequency	Hz	60	50	50
Noise level*2	dB [A]	49		
Quality Management System				
Certification		IS013485	IS013485	IS09001

*Cooling performance is indicated by the temperature reached at the center of the freezer (at ambient temperature of 30°C with no load). In order to use the freezer at a stable temperature for a long time, it is recommended that the temperature be set to at least 5°C higher than the indicated lowest temperature.

In addition, depending on the usage conditions, it may not be possible to reach the indicated lowest temperature.

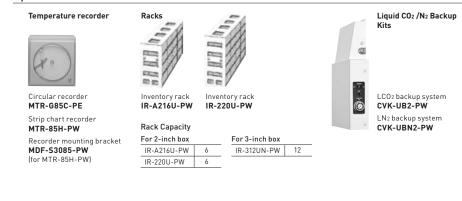
Caution: PHC Corporation guarantees the product under certain warranty conditions. PHC Corporation is in no way shall be responsible for any loss of content or damage to content. The battery for power failure alarm is an article for consumption. It is recommended that the battery will be replaced about every 3 years

 Appearance and specifications are subject to change without notice.
*1 External dimensions of main cabinet only - see dimension drawings showing handles and other external projections. *2 Nominal value - Background noise 20 dB[A].

Options

ΠÜΛ

SUD





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The management of the design, development, production and distribution of the above.

Freezers, Refrigerators, Incubators,

for Medical use

and Drying and Sterilising Equipment



PHC Corporation Biomedical Division is certified for Environmental management system: IS014001



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