



VIP ECO Ultra-Low Temperature Freezer

-86°C to -40°C



84 L / 180 L

PHC introduces a newly developed VIP ECO series of compact, ultra-low temperature (-86°C) freezers, ideal for personal use. The series makes use of a CFC-free natural refrigerant, reducing environmental impact and delivering an optimum tool for personal operation.

Natural refrigerants

Naturally occurring hydrocarbon (HC) refrigerants have minimal effect on the environment and are compliant with environmental legislation for climate control. These refrigerants also provide more efficient cooling without compromising cooling performance, ambient tolerance, and recovery speeds following door openings.

Organic EL control panel includes USB port

A new control panel with organic EL display is now positioned close to the door latch instead of the lower section as was conventionally done till now. This significantly improves visibility for the user and makes operation simple and intuitive.

A logging function is included, allowing users to save temperature/ alarm history data and transfer data using the USB port. USB port



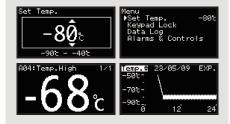
Energy efficient performance

Natural refrigerants, compressor and integrated electronics combine to lower operating costs compared to existing models by up to 6%*. Freezer operation is managed by effectively balancing temperature performance and energy management.



Organic EL offers multiple display options

The control panel with organic EL display allows the user to conduct various operations, displaying transitions, controlled temperature maximum/ minimum points as well as error messages.



Compact, personal-use type installs anywhere

The external width of MDF-DC102VH is 558 mm, and the MDF-DC202VH width is 1,018 mm. The compact configurations of each model offer installation flexibility whether room corner or right alongside a desk, making them ideal for dedicated use by individuals and small groups.

Door latch and magnet packing combined

Door operation is through magnet packing. This feature in combination with the door latch, ensures the door is firmly closed and prevents cold air leakage.

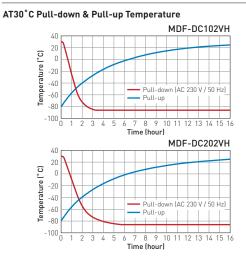


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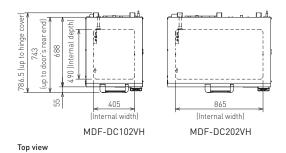
Performance Data

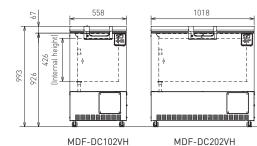




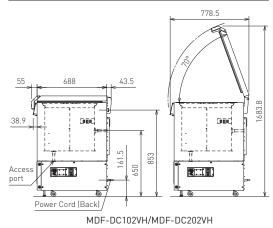
Unit : mm

Model Number





Front view



Side view

External dimensions (W x D x H) 1)	mm	558 x 688 x 993	1018 x 688 x 993	
Internal dimensions (W x D x H)	mm	405 x 490 x 426	865 x 490 x 426	
Volume	liters	84	180	
Net weight	kg	85	115	
Capacity ²	2″boxes	42	105	
Performance				
Cooling performance ³⁾	°C		36	
Temperature setting range	°C	-90 to -40		
Temperature control range 3	°C	-86 to -40		
Control				
Controller		Microcomputer control system		
Display		Organic EL display		
Temperature sensor		Platinum resistance (Pt 1,000 Ω)		
Refrigeration		r tatilari resist		
Refrigerant		HC ref	rigerant	
Insulation			+ Vacuum insulation panel	
Construction		Rigid potydretnane roam.	vacuari insutation panet	
Exterior material		Painta	d Steel	
nterior material		Painted Steel Painted Steel		
Outer door	qty	Painted Steel		
Outer door lock	49	Y		
nner lid	atv			
Compressor	qty	1 lid (styrene foam)	2 lids (styrene foam)	
Evaporator	-	Hermetic type, Output 550 W		
Condenser	-	Tube on sheet type		
		Wire and tube		
Access port	qty	2		
Access port position		back x1, bottom x1		
Access port diameter	Ømm	17		
Casters	qty	4 (2 leveling feet)		
Alarms (V = Visual Alarm, B = Buz	zer Alarm, I			
Power failure	_	V-B-M-R		
High temperature		V-B-M-R		
Low temperature		V-B-M-R		
Remote alarm contact		Allowable contact ca	pacity: DC 30 V, 2 A ^{4]}	
Electrical and Noise Level				
Power supply	V	115		
Frequency	Hz	60		
Noise level ⁵⁾	dB (A)	52		
Options				
Back-up cooling kit		MDF-UB8I-PW ⁶		
Inventory rack		IR-207C-PW, IR-305C-PW		
မ - Circular type		MTR-G85A-PA ^{7]} - Chart paper: RP-G85-PW		
atu		- Ink pen: PG-R-PW		
- Circular type		MTR-85H-PW ^{7]} - Chart paper: RP-85-PW		
e e		- Ink pen: DF-38FP-PW		
		- Recorder housing: MDF-S3085-PW		
Recorder sensor cover		MTR-C8-PW		
Optional Communication Systems				
Digital interface (RS232C/RS485)		MTR-480-PW 4]		
Ethernet interface (LAN)		MTR-L03-PW 41		
Exterior dimensions of main cabir excluding handle and other extern Usable storage capacity of 2″ boxe	al projection		ection start temperature is -70° TR-C8-PW.	

MDF-DC102VH-PA

MDF-DC202VH-PA

original 3 trays installed.

a) Air temperature measured at freezer center, ambient temperature 30°C, no load.
4) Standard signal and interface cables with a maximum length of 30 meters are recommended. 5) Nominal value - Background noise 20 dB[A].

over MTR-C8-PW

Appearance and specifications are subject to change without notice.
 Caution: PHC Corporation guarantees this product under certain warranty conditions. However, please note that PHC Corporation shall not be responsible for any loss or damage to the contents of the product.

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