

A Member of PHC Group

Product Preview



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.

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.

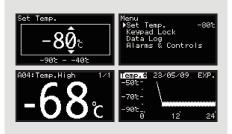
Energy efficient performance

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.



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.



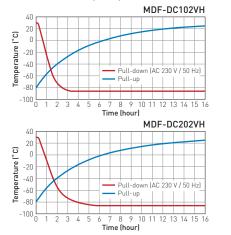
1018 x 688 x 993

865 x 490 x 426

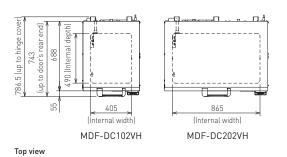
VIP ECO Ultra-Low Temperature Freezer

Performance Data

AT30°C Pull-down & Pull-up Temperature



Dimensions



Unit: mm

1018 558 426 993 926 MDF-DC102VH MDF-DC202VH

778.5 43.5 38.9 Old 161.5 853 920 T 6 Power Cord (Back)

Front view

Side view

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MDF-DC102VH/MDF-DC202VH

miterinat annienbienb (** x B x m)		400 X 470 X 420	000 X 470 X 420
Volume	liters	84	180
Net weight	kg	85	115
Capacity 2)	2" boxes	42	105
Performance			
Cooling performance 3	°C	-86	
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			
Refrigerant		HC refrigerant	
Insulation		Rigid polyurethane foam + Vacuum insulation panel	
Construction		3 1 7	·
Exterior material		Painted Steel	
Interior material		Painted Steel	
Outer door	qty	1	
Outer door lock		Υ	
Inner lid	qty	1 lid (styrene foam)	2 lids (styrene foam)
Compressor		Hermetic type, Output 550 W	
Evaporator		Tube on sheet type	
Condenser		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, M	= Message, R = Remote Alarm)	
Power failure		V-B-M-R	
High temperature		V-B-M-R	
Low temperature		V-B-M-R	
Remote alarm contact		Allowable contact capacity: 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	
ဉ - Circular type		MTR-G85A-PA 7) - Chart paper: RP-G85-PW	
astu		- Ink pen: PG-R-PW	
- Circular type		MTR-85H-PW ^{7]} - Chart paper: RP-85-PW	
ш _е со		· ·	F-38FP-PW
		- Recorder	housing: MDF-S3085-PW
Recorder sensor cover		MTR-0	28-PW
Optional Communication Systems			
Digital interface (RS232C/RS485)		MTR-480-PW ⁴ MTR-L03-PW ⁴	
Ethernet interface (LAN)			

558 x 688 x 993

405 x 490 x 426

mm

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

External dimensions (W x D x H)

Internal dimensions (W x D x H)

- 2] Usable storage capacity of 2" boxes when the original 3 trays installed.
- 3) 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].
- 6) Settable range of the injection start temperature is -70°C to -50°C.
- 7) Requires sensor cover 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.