

Ultra-Low Temperature Freezer MDF-C8V1

Space Saving Personal Size

-80°C 84liters/3.0cu.ft.

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

Personal size, space saving Ultra-Low Temperature Freezer with Improved energy consumption

- •V.I.P. PLUS technology maximises storage capacity
- •Space-saving design enables effective use of laboratory space
- •Filterless structure makes cleaning unnecessary
- •Alarms to protect valuable samples
- Low noise design
- •Achieves energy savings of approx. 40 %* *Internal comparison



Life Science Innovator Since 1966

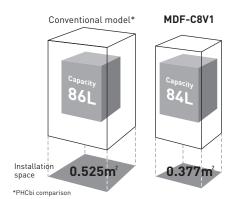
PHC Corporation, Biomedical Division

MDF-C8V1

Features

Insulation system: V.I.P. PLUS

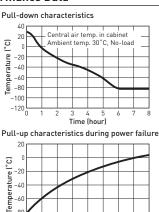
PHCbi's advanced insulation system V.I.P. PLUS enables reducing the thickness of insulation to approximately one half compared to conventional systems. Small freezers such as MDF-C8V1 takes full advantage of this feature. Use of V.I.P. PLUS insulation material on the front, left, and right sides enables a smaller installation space with the highest-class storage capacity ratio.



New cooling circuit enables filterless structure

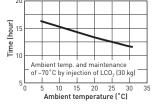
A new cooling circuit makes the inconvenient customer maintenance procedure of filter cleaning unnecessary.

Performance Data



-60 -81 -100 Time (hour)

CO₂ backup system operation characteristics 20



Newly developed

single-compressor system

Use of a newly developed single-compressor system achieves an approximately 40 % reduction in power consumption and enables low-noise operation.

	Rated power consumption
MDF-C8V1	330 W/280 W
Conventional model*	550 W/600 W

*Internal comparison (115 V, 60 Hz/230 V, 50 Hz)

Specifications	
	Model No.
115 V, 60 Hz	MDF-C8V1-PA
220 V, 60 Hz	MDF-C8V1-PK MDF-C8V1-PR
220 V/230 V/240 V, 50 Hz (CE)	MDF-C8V1-PE
Temperature range	-60°C to -80°C (in 1°C increments)
Maximum cooling performance	-80°C (Ambient temperature 30°C)
External dimensions (W x D x H)*1	550 x 685 x 945 (mm) / 21.6 x 27.0 x 37.2 (inch)
Internal dimensions (W x D x H)	405 x 490 x 425 (mm) / 15.9 x 19.3 x 16.7 (inch)
Effective capacity	84 liters (3.0 cu.ft.)
Net weight	Approx. 70 kg (154 lbs.)
Storage capacity	2" box: 42 pcs. (IR-207C x 6 racks)
Outer door/Inner door	Outer Lid: 1piece, Inner Lid: 1piece (PS + PE foam)
Insulation	V.I.P. PLUS + Rigid polyurethane foam (HC)
Cooling system	New mixed refrigerant cooling system
Compressor	Hermetic type, Output: 450 W (MDF-C8V1-PK, MDF-C8V1-PR only)
Refrigerant	HFC
Evaporator	Tube on sheet type
Alarm system	High / Low temp. alarm (±5°C to ±20°C) • Power failure alarm Remote alarm contact: DC 30 V, 2 A

*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.

Recorder mounting

MDF-S3085-PW

(for MTR-85H-PW)

bracket

Dimensions

Options

Circular recorder

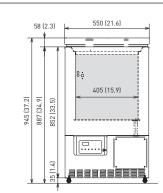
MTR-G85A-PA

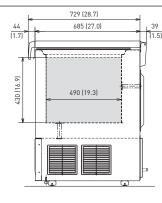
MTR-G85C-PE

Temperature recorders

Strip chart recorder

MTR-85H-PW





LCO₂ Back-up system CVK-UB4-PW

Unit:mm (inch)

Back-up system MDF-UBK-PW

PHC Corporation, Biomedical Environmental management



Preservation (freezers, refrigerators) and Culturing (incubators) Equipment

The management of the design, development, production, sales support, and servicing of the above.

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Inventory rack

IR-207C-PW

IR-305C-PW

Sensor cover

MTR-C8-PW



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