

Preservation
sub-zero



MDF-C8V1

VIP
Vacuum Insulation Panel series

Space Saving
Personal Size

-80°C
84liters/3.0cu.ft.

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

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

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

*Panasonic comparison

MDF-C8V1

Features

Patented insulation system: V.I.P.

Panasonic's advanced insulation system V.I.P. 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. insulation material on the front, left, and right sides enables a smaller installation space with the highest-class storage capacity ratio.

Newly developed single-compressor system

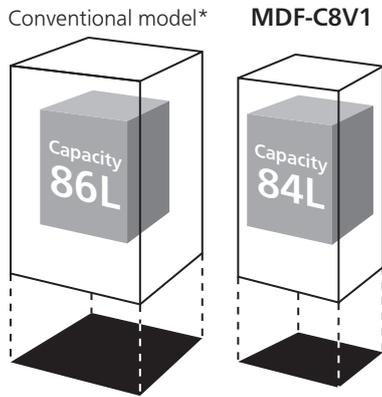
Use of a newly developed single-compressor system achieves an approximately 40% reduction in power consumption and enables low-noise operation.

	Rated power consumption
MDF-C8V1	340W/330W
Conventional model*	550W/600W

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

Specifications

	Model No.
110V, 60Hz	MDF-C8V1-PT
115V, 60Hz	MDF-C8V1-PA
220V, 60Hz	MDF-C8V1-PK
220V/230V/240V, 50Hz (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. 67 kg (148 lbs.)
Storage capacity	2" box: 42pcs. (IR-207C x 6 racks)
Outer door/Inner door	Outer Lid: 1piece, Inner Lid: 1piece (PS + PE foam)
Insulation	New VIP + Rigid polyurethane foam (HC)
Cooling system	New mixed refrigerant cooling system
Compressor	Rotary type, Output: 400 W
Refrigerant	HFC
Evaporator	Tube on sheet type
Alarm system	• High/Low temp. alarm (±5°C to ±20°C) • Power failure alarm • Remote alarm contact: DC30V, 2A



*Panasonic comparison

Installation space **0.525m²** **0.377m²**

New cooling circuit enables filterless structure

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

*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.

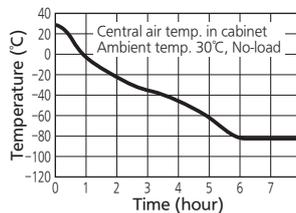
Caution: Panasonic guarantees the product under certain warranty conditions. Panasonic in no way shall be responsible for any loss of content or damage to content. The battery for power failure alarm is an article for consumption. It is recommended that the battery will be replaced about every 3 years.

*Appearance and specifications are subject to change without notice.

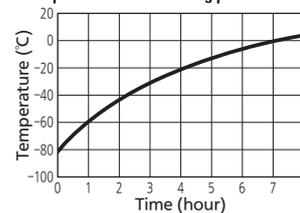
*1 External dimensions of main cabinet only - see dimension drawings showing handles and other external projections.

Performance Data

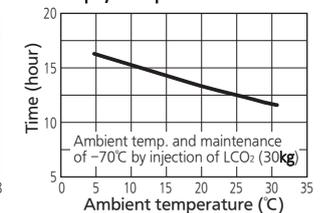
Pull-down characteristics



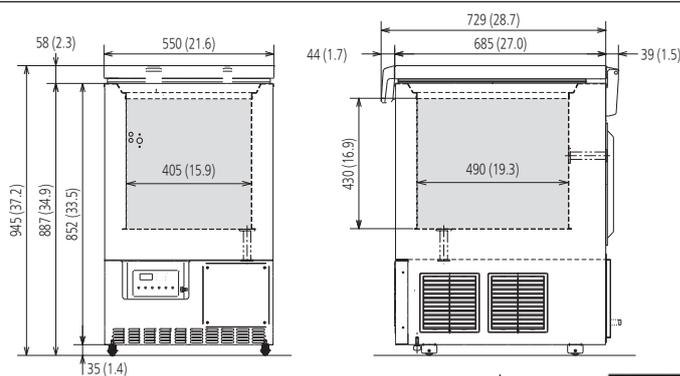
Pull-up characteristics during power failure



CO₂ backup system operation characteristics



Dimensions



Options

LCO₂ Back-up system



CVK-UB4-PW
Back-up system mounting kit
MDF-UBK-PW

Temperature recorders



Circular recorder MTR-G85C-PW
Strip chart recorder MTR-85H-PW
Sensor cover MTR-C8-PW
Recorder mounting bracket MDF-S3085-PW (for MTR-85H-PW)

Inventory rack
IR-207C-PW
IR-305C-PW



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