



MDF-C8V1



**Space Saving  
Personal Size**

**-80°C**  
**84 liters/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%\*

\*SANYO comparison

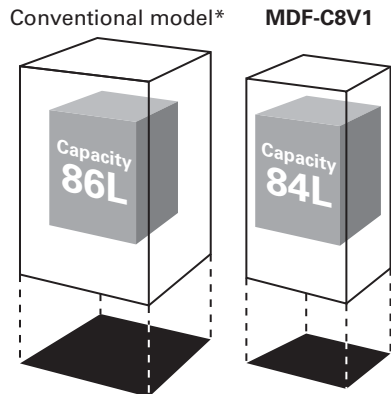
# MDF-C8V1

## 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.



\*Panasonic comparison

Installation space **0.525m<sup>2</sup>** **0.377m<sup>2</sup>**

### 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.	MDF-C8V1
<b>Temperature range</b>	-60 to -80°C (1°C increments)
<b>Maximum cooling performance</b>	-80°C (Ambient temp. 30°C)
<b>Exterior dimensions (W x D x H)</b>	550 x 685 x 945 (mm) / 21.6 x 27.0 x 37.2 (inch)
<b>Interior dimensions (W x D x H)</b>	405 x 490 x 425 (mm) / 15.9 x 19.3 x 16.7 (inch)
<b>Effective capacity</b>	84 Liter (3.0 cu.ft.)
<b>Net weight</b>	Approx. 67 kg (148 lbs.)
<b>Storage capacity</b>	2" box: 42pcs. (IR-207C x 6 racks)
<b>Outer door/Inner door</b>	Outer Lid: 1piece, Inner Lid: 1piece (PS + PE foam)
<b>Insulation</b>	New VIP + Rigid polyurethane foam (HC)
<b>Cooling system</b>	New mixed refrigerant cooling system
<b>Compressor</b>	Rotary type, Output: 400W
<b>Refrigerant</b>	HFC
<b>Evaporator</b>	Tube on sheet type
<b>Alarm system</b>	<ul style="list-style-type: none"> <li>• High/Low temp. alarm (±5°C to ±20°C)</li> <li>• Power failure alarm</li> <li>• Remote alarm contact: DC30V, 2A</li> </ul>

### Voltage specification by destination

Representative destination	Voltage	Model
Europe	230V, 50Hz (CE)	MDF-C8V1-PE
Korea	220V, 60Hz	MDF-C8V1-PK
Thailand	220V, 50Hz	MDF-C8V1-PB
Taiwan	110V/220V, 60Hz	MDF-C8V1-PT

\*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.

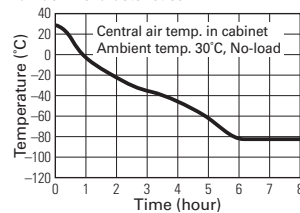
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 • Appearance and specifications are subject to change without notice.

### New cooling circuit enables filterless structure

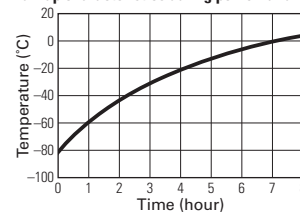
A new cooling circuit makes the inconvenient customer maintenance procedure of filter cleaning unnecessary.

## Performance Data

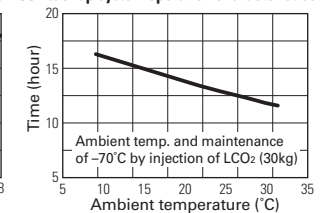
### Pull-down characteristics



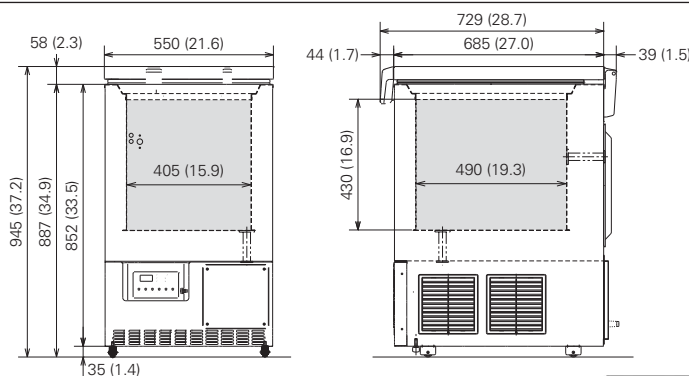
### Pull-up characteristics during power failure



### CO<sub>2</sub> backup system operation characteristics



## Dimensions



Unit: mm (inch)

## Options

### LCO<sub>2</sub> Back-up system



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

### Temperature recorders



**MTR-G85C-PE**  
Circular recorder

**MTR-C8-PW**  
Sensor cover

**IR-207C-PW**  
Inventory rack

**IR-305C-PW**  
Inventory rack



**MTR-85H-PW**  
Strip chart recorder

**MDF-S3085-PW**  
Recorder mounting kit (for MTR-85H-PW)



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**Quality management system: ISO9001**

**Medical devices quality management system: ISO13485**



Panasonic Healthcare Co., Ltd., Gunma Factory is certified for:

**Environmental management system: ISO14001**

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