

Think GAIA  
For Life and the Earth

**SANYO**

-80°C Ultra-Low Temperature  
V.I.P.™ Freezer

MDF-C8V1



MDF-C8V1

*VIP*  
Vacuum Insulation Panel series

Temperature  
(Ambient temp. 30°C)

**-80°C**

Effective capacity

**84 Liter / 3.0 cu.ft.**

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

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

- New V.I.P. PLUS™ 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

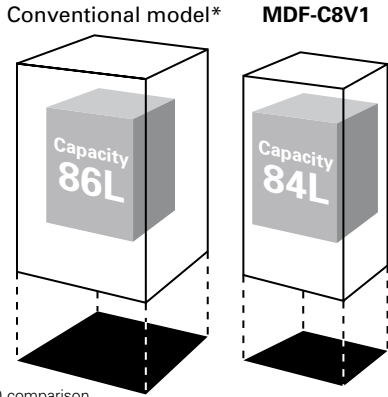
# MDF-C8V1

## Features

### More advanced insulation system: V.I.P. PLUS™

SANYO's more 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.



\*SANYO 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

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

## Specifications

Model	MDF-C8V1
Temperature range	-60 to -80°C (1°C increments)
Maximum cooling performance	-80°C (Ambient temp. 30°C)
Exterior dimensions (W x D x H)	550 x 685 x 945 mm (21.6" x 27.0" x 37.2")
Interior dimensions (W x D x H)	405 x 490 x 425 mm (15.9" x 19.3" x 16.7")
Effective capacity	84 Liter (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: 400W
Refrigerant	HFC
Evaporator	Tube on sheet type
Alarm system	<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>

\*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:

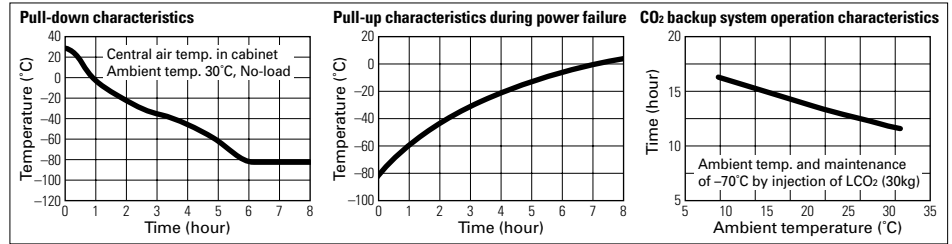
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• Appearance and specifications are subject to change without notice.

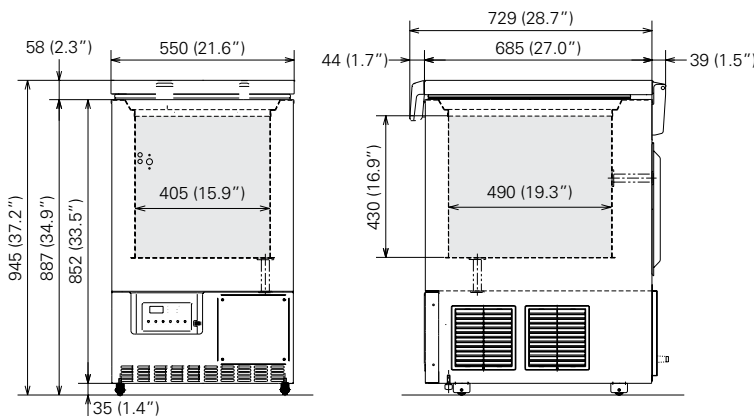
### New cooling circuit enables filterless structure

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

## Performance Data



## Dimensions



[Unit: mm (inch)]

## Options

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



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

### Temperature recorders



Circular recorder  
**MTR-G85**

Sensor cover  
**MTR-C8**

Inventory rack  
**IR-207C**



Strip chart recorder  
**MTR-85H**

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

SANYO Electric Co., Ltd., Biomedical Division, Gunma is certified for:

**Quality management system: ISO9001 / Medical devices quality management system: ISO13485 / Environmental management system: ISO14001**

RoHS (European Restriction of Hazardous Substances directives) compliant

Distributed by:

# SANYO

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