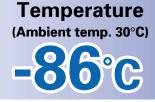


Ultra-Low Temperature V.I.P.[™] Freezer





MDF-U33V



Effective capacity 333L/11.8cu.ft.

Patented V.I.P.[™] (Vacuum Insulation Panel)

Ultra slim, space saving Ultra-Low Freezer with Improved energy consumption

- V.I.P.™ technology maximises storage capacity
- Safe operation with Status Alert continuous condition monitoring
- The inner doors are removable for cleaning and defrosting
- Enhanced security
- Improved accessibility
- Quiet operation
- Improved energy consumption
- Can hold up to 216 pcs of 2in boxes or 144 pcs of 3in boxes



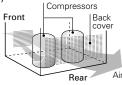
MDF-U33V

MDF-U33V

Features

EVOLUTIONARY DESIGN

- SANYO V.I.P.™ Evolution Series -86°C ultra-low temperature freezers use patented revolutionary vacuum insulation cabinet construction that reduces the wall thickness from 14cm to 7cm (5.5" to 2.7") and achieves up to 30% more storage capacity than a conventionally insulated freezer without increasing the footprint.
- The newly developed refrigeration system and the freezer structure offer a quiet experimental environment.
- Achieves 12% higher energy conservation than previous model. (115V, 60Hz)
- The newly developed back cover combined with new aerodynamically designed and placed components in the refrigeration compartment provide superior air flow, making it possible to drastically reduce the stress on the freezer and contributing to excellent durability.



• Two independent and insulated inner doors with gaskets prevent cold air leakage.

RELIABILITY

 Status Alert (Condition monitor) Monitors ambient and system conditions continuously and notifies of any abnormalities before a problem happens.

ACCESSIBILIT\

 A beak style inner door latch tightly closes the inner door against the freezer

frame. It also helps make opening and closing the door smoother.

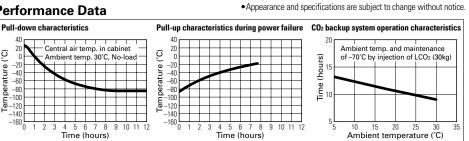
• The condenser filter is situated at the bottom right side of the front panel to make filter removal and cleaning easier.

SAFETY

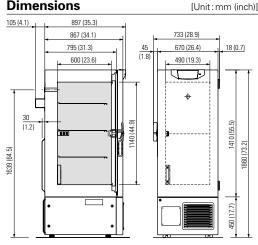
- Alarm lamp and buzzer offer secure warning of power failure or abnormal temperature increase.
- High and low temperature warning provides an audible and visual alarm when the temperature deviates more than ±5°C to ±20°C (adjustable) from the set point.
- Alarm ring-back function ensures that buzzer will resume operation, should alarm conditions continue after it is silenced
- Microprocessor-controlled filter-clog check function protects the refrigeration circuit.
- The rugged, one-handed outer door latch has a hole to allow a padlock to securely protect valuable samples.
- Control panel with digital display for easy operation.



Performance Data



Dimensions



10 m Inventory rack IR-216U

Circular recorder

(Data Acquisition) system

MTR-480/MTR-2000

MTR-G85

SANYO DAO

Options

Specifications

Temperature range

Maximum cooling

Exterior dimensions

Interior dimensions

Effective capacity

performance

 $(W \times D \times H)$

 $(W \times D \times H)$

Net weight

Access port

Compressor

Refrigerant

Accessories

damage to content.

the indicated lowest temperature.

to reach the indicated lowest temperature.

Alarm

Shelves

Model

MDF-U33V

(Ambient temp. 30°C)

670 x 867 x 1860mm

(26.4" x 34.1" x 73.2")

490 x 600 x 1140mm

(19.3" x 23.6" x 44.9")

333 L (11.8 cu.ft.)

stage side)

notification

DC 30V, 2A

HFC

Remote alarm contact Allowable contact capacity:

*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

In addition, depending on the usage conditions, it may not be possible

Caution: SANYO quarantees the product under certain warranty condi-

tions. SANYO in no way shall be responsible for any loss of content or

Approx. 255kg (562 lbs.)

Stainless steel, 3 shelves

17mm diameter, 3 locations

(back, bottom left/right corner)

Hermetic type, Output: 450 W

(high stage side), 750 W (low

High/low temperature, Power

diagnostics. Door check. Remote

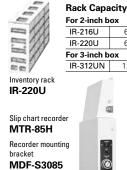
alarm contact, Part replacement

failure, Filter check, Self

1 set of keys, 1 scraper

–86°C

–50°C to –86°C (1°C increments)



(for MTR-85H)



6

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LCO2 backup system CVK-UB2 I N2 hackup system CVK-UBN2

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



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