

CFC-Free Ultra-Low Temperature Freezer

- Advanced refrigeration system
- Quiet operation
- Enhanced security

MDF-U5386S

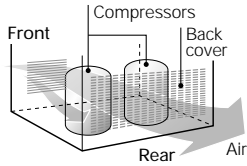


MDF-U5386S

Features

EVOLUTIONARY DESIGN

- The newly developed refrigeration system and the freezer structure offer a quiet experimental environment.
- Achieves 10% higher energy conservation than previous model. (For model rated 220V, 50Hz)
- 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 to the freezer and contributing to excellent durability.
- Two independent and insulated inner doors prevent cold air leakage.



ACCESSIBILITY

- A new 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

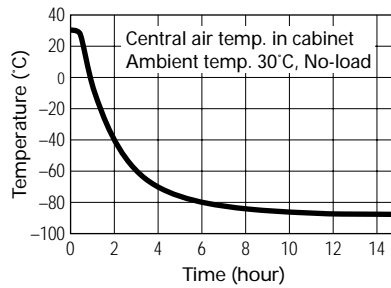
- Alarm lamp and buzzer offer secure warning of power failure or abnormal temperature increase.
- High and low temperature warning provides an audible and visual alarm when the temperature deviates more than $\pm 5^{\circ}\text{C}$ to $\pm 20^{\circ}\text{C}$ (adjustable) from the set point.
- Alarm 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.
- New rugged, one-handed outer door latch has a hole to allow a padlock to securely protect valuable samples.



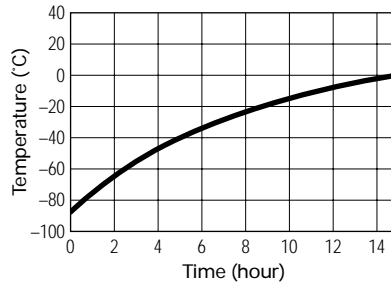
- Control panel with digital display for easy operation.

Performance Data

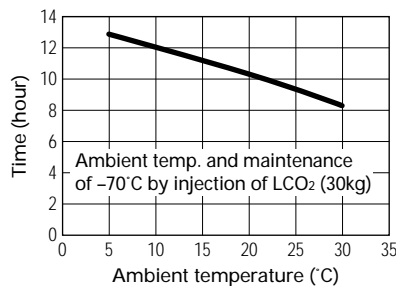
Pull-down characteristics



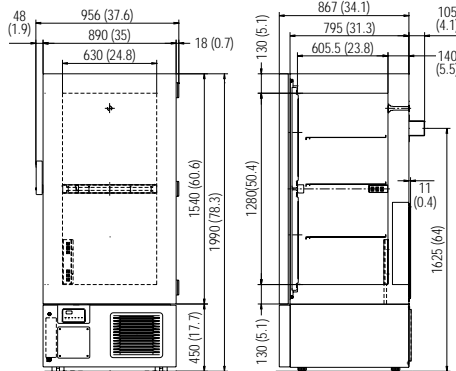
Pull-up characteristics during power failure



CO₂ backup system operation characteristics



Dimensions [Unit: mm (inch)]



Specifications

Model	MDF-U5386S
Temperature range	-50°C to -86°C (1°C increment)
Maximum cooling performance	-86°C (Ambient temp. 30°C)
Exterior dimensions (W x D x H)	890 x 875 x 1990mm (35.0" x 34.4" x 78.3")
Interior dimensions (W x D x H)	630 x 600 x 1280mm (24.8" x 23.6" x 50.4")
Net weight	Approx. 305kg (672 lbs.)
Effective capacity	483 L (17.1 cu.ft.)
Shelf	Stainless steel, Adjustable, 3 shelves, W608 x D533mm, Max. load: 50kg (110 lbs.)/shelf
Access port	17mm diameter, 3 locations (back, bottom left/right corner)
Compressor	Hermetic type, Output: 1100 W (high stage side), 1100 W (low stage side)
Refrigerant	HFC refrigerant
Alarm	High/low temperature, Power failure, Filter check, Battery check
Remote alarm contact	Allowable contact capacity: DC 30V, 2A
Accessories	1 set of keys, 1 scraper

*Appearance and specifications are subject to change without notice.

*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.

Options



Inventory rack
IR-220U
Rack Capacity: 16



Circular recorder
MTR-G85
MTR-85H
Recorder mounting bracket
MDF-S3085
(for MTR-85H)



LCO₂ backup system
CVK-UB2

SANYO DAQ (Data Acquisition) system
MTR-480/MTR-2000

ISO 9001 & 14001 certified

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URL <http://www.sanyo.co.jp/cmj/biomedical>

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