

HCFC-Free Ultra-Low  
Temperature Freezer

MDF-U3386S



MDF-U3386S

Temperature  
(Ambient temp. 30°C)

**-86°C**

Effective capacity

**333L/11.8cu.ft.**

**Personal & in-lab**

**Personal size Ultra-Low Freezer  
with Robust cooling performance**

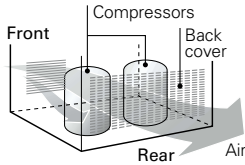
- Safe operation with advanced refrigeration system
- Improved accessibility
- Quiet operation
- Enhanced security
- The inner doors are removable for cleaning and defrosting
- Can hold up to 216 pcs of 2in boxes or 144 pcs of 3in boxes

# MDF-U3386S

## Features

### EVOLUTIONARY DESIGN

- The newly developed refrigeration system and the freezer structure offer a quiet experimental environment.
- Achieves 22% higher energy conservation than previous model. (230V, 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.



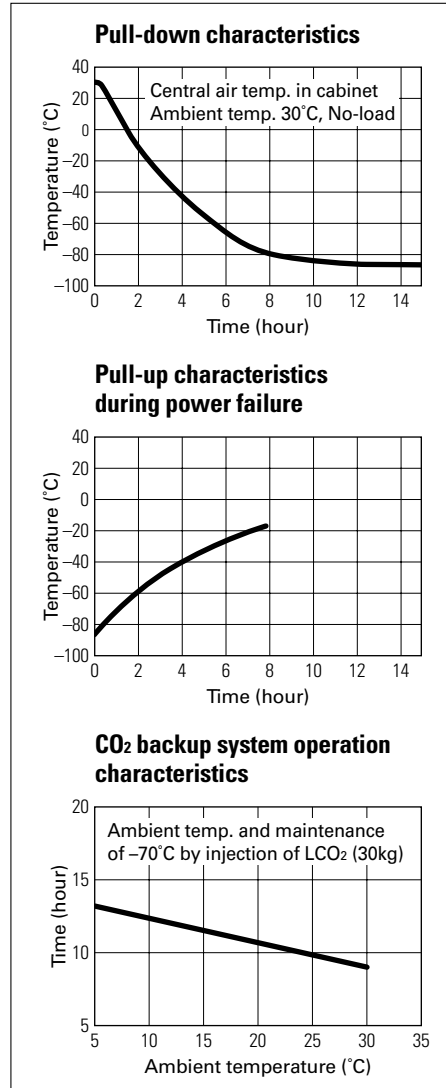
### ACCESSIBILITY

- 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.

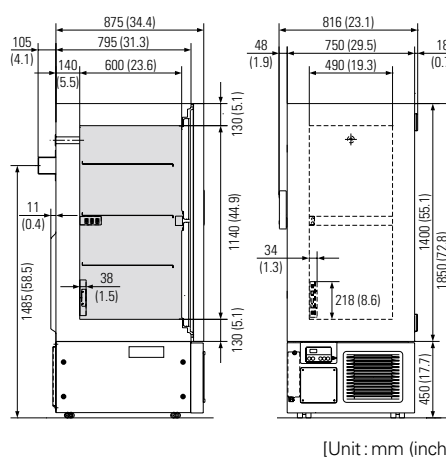
### SAFETY

- 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



## Dimensions



## Specifications

Model	MDF-U3386S
Temperature range	$-50^{\circ}\text{C}$ to $-86^{\circ}\text{C}$ ( $1^{\circ}\text{C}$ increment)
Maximum cooling performance	$-86^{\circ}\text{C}$ (Ambient temp. $30^{\circ}\text{C}$ )
Exterior dimensions (W x D x H)	750 x 875 x 1850mm (29.5" x 34.4" x 72.8")
Interior dimensions (W x D x H)	490 x 600 x 1140mm (19.3" x 23.6" x 44.9")
Net weight	Approx. 255 kg (562 lbs.)
Effective capacity	333 L (11.8 cu.ft.)
Shelf	Stainless steel, Adjustable, 3 shelves, Max. load: 50kg (110 lbs.)/shelf
Access port	17mm diameter, 3 locations (back, bottom left/right corner)
Compressor	Hermetic type, Output: 450W (high stage side), 750W (low stage side)
Refrigerant	HFC refrigerant
Alarm	High/low temperature, Power failure, Filter check, Battery check, Part replacement notification
Remote alarm contact	Allowable contact capacity: DC 30V, 2A
Accessories	1 set of keys, 1 scraper

\*Cooling performance is indicated by the temperature reached at the center of the freezer (at ambient temperature of  $30^{\circ}\text{C}$  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  $5^{\circ}\text{C}$  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:

SANYO guarantees the product under certain warranty conditions. SANYO in no way shall be responsible for any loss of content or damage to content.

- Appearance and specifications are subject to change without notice.

## Options

Inventory rack		Rack Capacity
	IR-216U	6
	IR-220U	6
Inventory rack		For 3-inch box
	IR-312UN	12

	Circular recorder	MTR-G85
	Strip chart recorder	MTR-85H
	Recorder mounting bracket	MDF-S3085 (for MTR-85H)
	SANYO DAQ (data acquisition) System	MTR-5000/ Ethernet (LAN) Interface MTR-L03 or RS232C/RS485 Interface MTR-480
	LCO <sub>2</sub> backup system	CVK-UB2

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