

HCFC-Free Ultra-Low Temperature Freezer

MDF-U4186S

Preservation
sub-zero



MDF-U4186S

Temperature

(Ambient temperature 30°C)

-86°C

Effective capacity

382 liters/13.5cu.ft.

192 pcs

2" inventory boxes

Medium capacity Ultra-Low Freezer with robust cooling performance

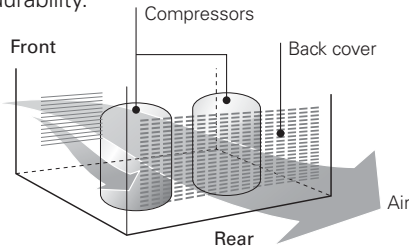
- Safe operation with advanced refrigeration system
- Improved accessibility
- Quiet operation
- Enhanced security
- The inner doors are removable for cleaning and defrosting
- Can hold up to 192 pcs. of 2-inch boxes or 144 pcs. of 3-inch boxes

MDF-U4186S

Features

EVOLUTIONARY DESIGN

- The newly developed refrigeration system and the freezer structure offer a quiet experimental environment.
- 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

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



SAFETY

- The backup battery sounds an alarm in the event of power failure or AC interruption or abnormality.
- Provides both an audible and visual temperature alarm when the temperature goes up more than +10°C/+15°C 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.
- Control panel with digital display for easy operation.



Control panel

Specifications

Model No.	MDF-U4186S	
Temperature range	-20°C to -86°C (1°C increments)	
Maximum cooling performance	-86°C (Ambient temperature 30°C)	
Exterior dimensions (W x D x H)	870 x 780 x 1975 (mm) / 34.2 x 30.7 x 77.8 (inch)	
Interior dimensions (W x D x H)	620 x 515 x 1200 (mm) / 24.4 x 20.3 x 47.2 (inch)	
Net weight	Approx. 281 kg (619 lbs.)	
Effective capacity	382 L (13.5 cu.ft.)	
Shelves	Stainless steel, Adjustable, 3 shelves	
Access port	40 mm diameter, 1 location (left side)	
Compressor	Hermetic: 1100 W (high stage side), 1100 W (low stage side)	
Refrigerant	HFC	
Alarms	High temperature, Power failure, Filter check, Part replacement notification	
Remote alarm contact	Allowable contact capacity: DC 30V, 2A	
Accessories	1 set of keys, 1 scraper	
Voltage specification by destination		
Representative destination	Europe 230V, 50Hz (CE)	MDF-U4186S-PE
	China 220V, 50Hz	MDF-U4186S-SC
	Korea 220V, 60Hz	MDF-U4186S-PK
	Thailand 220V, 50Hz	MDF-U4186S-PB

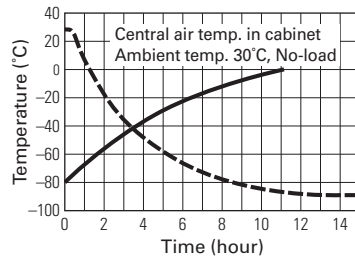
*Cooling performance is indicated by the temperature reached at the center of the freezer (at ambient temperature of 30°C with no load). In order to use the freezer at a stable temperature for a long time, it is recommended that the temperature be set to at least 5°C higher than the indicated lowest temperature. In addition, depending on the usage conditions, it may not be possible to reach the indicated lowest temperature.

Caution: Panasonic guarantees the product under certain warranty conditions. Panasonic in no way shall be responsible for any loss of content or damage to content. The battery for power failure alarm is an article for consumption. It is recommended that the battery will be replaced about every 3 years.

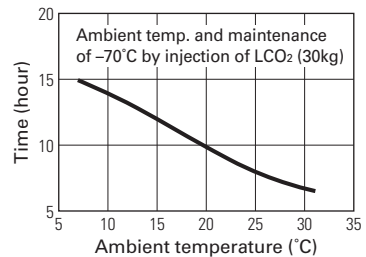
• Appearance and specifications are subject to change without notice.

Performance Data

- Pull-up characteristics during power failure
- - - Pull-down characteristics

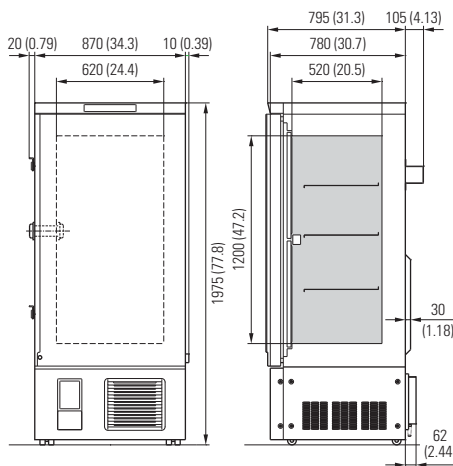


CO₂ backup system operation characteristics

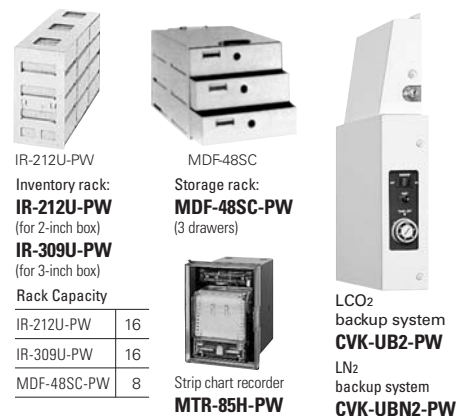


Dimensions

Unit: mm (inch)



Options



Panasonic DAQ (Data Acquisition) system
MTR-5000-PW/MTR-L03-PW or MTR-480-PW



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