

Preservation  
sub-zero



MDF-U731M

**Temperature**  
(Ambient temperature 30°C)

**-20 to -30°C**

**Effective capacity**

**690 liters/24.4 cu.ft.**

**Direct cooling and  
Manual defrost**

### Large-capacity biomedical freezer with direct cooling and manual defrost

- High freezing power
- Large capacity
- Direct cooling system and manual defrost
- Top-mount cooling unit design for usability
- Adjustable wire shelves
- Alarm and safety devices
- Self-diagnosis function

# MDF-U731M

## Features

### Stable temperature control

The MDF-U731M provides precise and uniform storage temperatures regardless of ambient conditions through microprocessor temperature control.

### Energy-saving operation

The specially designed compressor results in an energy-saving medical freezer with superior cooling and quiet operation.

### Improved security

Standard door lock and independent padlock ensure extra security. (\*padlock not supplied)

### Sturdy cabinet construction with superior insulation

The integral foamed cabinet structure is extra strong and prevents cold air loss.

### Manual defrost

Manual defrost freezers provide stable temperature control and do not exhibit the transient temperature increases that can be associated with auto-defrost type freezers. The MDF-U731M is therefore ideal for storing your important, temperature-sensitive samples.

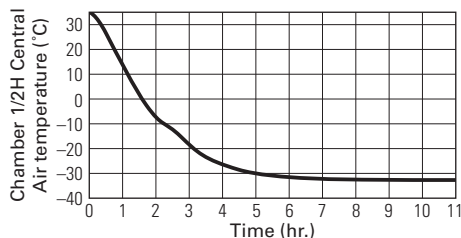
### Movable wire shelves allow free position adjustment

### Control panel

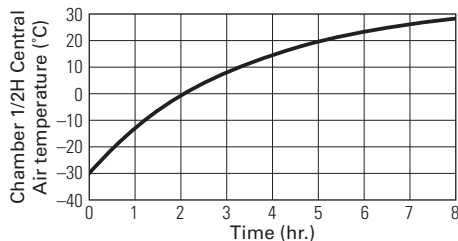


## Performance Data

### Pull-down characteristics



### Pull-up characteristics



Conditions: AT 35°C, no load, measured at center of chamber

## Specifications

Model	MDF-U731M
Temperature range	-20°C to -30°C (1°C increments)
Maximum cooling performance	-30°C (Ambient temperature: 35°C)
External dimensions (W x D x H)	770 x 830 x 1955 (mm) / 30.3 x 32.7 x 77.0 (inch)
Internal dimensions (W x D x H)	650 x 700 x 1520 (mm) / 25.6 x 27.6 x 59.8 (inch)
Effective capacity	690 liters (24.4 cu.ft.)
Net weight (approx.)	152kg (335 lbs.)
Exterior	Galvanised steel with baked-on finish
Interior	Galvanised steel with baked-on finish
Insulation	HFC-free HC rigid polyurethane foamed in-place
Temperature control	Microprocessor control
Compressor	Hermetic type (400 W)
Defrosting system	Manual defrost
Refrigerant	HFC
Shelves (max. load)	4 adjustable wire shelves (50kg/110lbs.)
Access port	∅ 30mm, 2 locations (left and top)
Casters	4 casters with 2 adjustable feet
Alarm and safety	High / Low temperature alarm, Power failure alarm, Door ajar alarm, Compressor temp. alarm, Self-diagnosis function, Remote alarm contact (DC30V, 2A), Memory backup
Accessories	1 scraper, 1 key set, 2 large & 2 small nylon clips (for temperature recorder)

### Voltage specification by destination

Representative destination	Europe 230V, 50Hz (CE)	MDF-U731M-SE

\*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. •Appearance and specifications are subject to change without notice.

## Options



7-day circular recorder  
MTR-G85C-PE



32-day strip chart recorder  
MTR-4015LH-PE

3 sets of shelves  
MDF-T07ST-PW  
2 sets of containers  
MDF-T07SC-PW

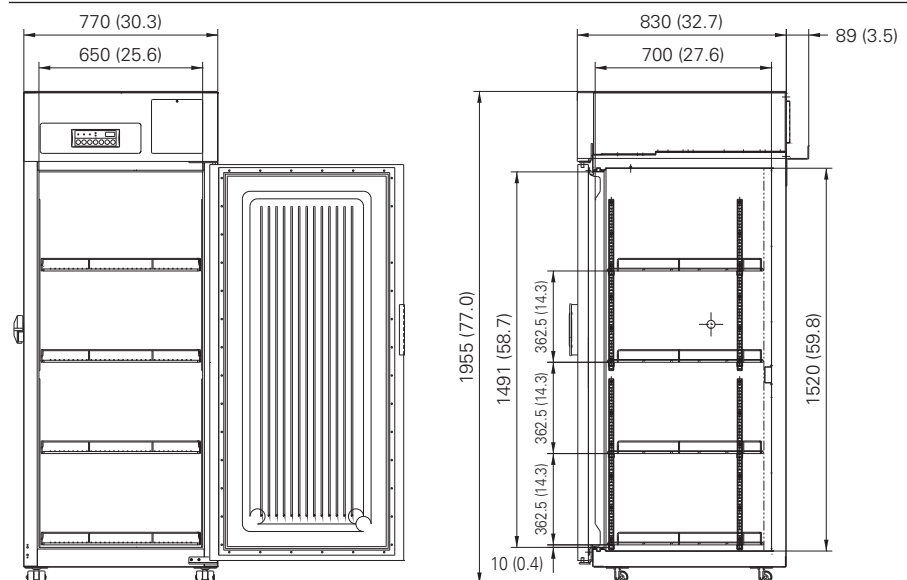


Recorder mounting bracket  
MPR-S7-PW

Recorder mounting bracket  
MPR-S30-PW

## Dimensions

Unit : mm (inch)



We design and manufacture the product in accordance with ISO9001 requirements.

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<http://biomedical.sanyo.com/>

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