

Preservation
above-zero

Temperature range

+2°C to 14°C

**Compact and
large capacity**

**New cycle defrosting
system**

Pharmaceutical Refrigerators for
reliable storage of
pharmaceuticals, samples and
reagents

- Precise temperature control
- Superior cooling performance
- Forced air circulation
- Double-glazing glass door
- Slim, and space saving design
- Useful alarm functions



MPR-S163



MPR-S313

MPR-S163/MPR-S313 Series

Features

Improved Energy Saving

Panasonic's new cycle defrosting system achieved 15%* energy saving compared to conventional models. This system observes the defrosting condition after every cycle, and prevents temperature rises that are caused by defrosting.

*The data is a measured example (set temp. 5°C, AT 23°C, 230V 50Hz, no load). Actual power consumption will vary depending on the set and ambient conditions, loading and local voltage.

User Friendly Design

1. New Control Panel

- Newly designed for improved operability, visibility, and calibration
- Digital setup for easy and secure operation
- Temperature alarm settings made on the control panel



2. LED Interior Light

- The LED interior light automatically turns on/off in conjunction with the door opening/closing. It can also be controlled from the control panel.



3. Double-Paned Glass with Heat-Reflective Film

- The refrigerator doors constructed of double-paned glass with heat-reflective film, allow easy loading and unloading of samples while preventing ultraviolet rays, which may damage stored items, from entering the unit. Panasonic's unique heat-reflective film blocks the passage of radiant heat rays through the glass panels and keeps the inside temperature from being adversely affected by excessive amounts of heat.

Effective Temperature Control

1. Microprocessor Temperature Control

- A thermistor sensor monitors temperature inside the chamber, and microprocessor temperature control ensures that the set temperature is maintained. Even if the door is opened and closed frequently, the circulation fan ensures rapid temperature adjustment to provide a highly reliable, stable preservation environment that is not affected by ambient temperature.

2. Fan-Forced Air Circulation

- The temperature stays even throughout the inside of the refrigerator with the fan-forced air circulation system. No matter how the load is distributed, every corner of the unit is immediately cooled with no noticeable variation in temperature apparent inside the cabinet.

Enhanced Alarm and Safety Functions

1. Door Open Alarm

- When the door is opened, the Door Open indicator lamp lights automatically. After approx. 2 minutes, a buzzer alarm will sound if the door has not been closed (settable from 0 to 15 minutes). If the door remains open even after the buzzer is stopped, the buzzer rings again after 30 minutes (settable from 0 to 60 minutes in increments of 10 minutes).

2. Abnormal Temperature Alarm

- If the inside temperature changes $\pm 2^{\circ}\text{C}$ to $\pm 14^{\circ}\text{C}$ from the set temperature, the digital temperature display flashes, and a buzzer sounds an alarm after 15 minutes (settable from 0 to 15 minutes).

Specifications

	Model No.	
110V/115V, 60Hz	—	MPR-S313-PA
220V, 60Hz	MPR-S163-PT MPR-S163-PK MPR-S163-PR	—
220V, 50HZ/60Hz	—	MPR-S313-PT MPR-S313-PK MPR-S313-PR
230V/240V, 50Hz (CE)	—	MPR-S313-PE
220V/230V/240V, 50Hz (CE)	MPR-S163-PE	—
External dimensions (W x D x H)*1	800 x 465 x 1090 (mm) 31.5 x 18.3 x 42.9 (inch)	800 x 465 x 1800 (mm) 31.5 x 18.3 x 70.9 (inch)
Internal dimensions (W x D x H)	720 x 300 x 725 (mm) 28.3 x 11.8 x 28.5 (inch)	720 x 350 x 1435 (mm) 28.3 x 13.8 x 56.5 (inch)
Effective capacity	158 liters (5.6 cu.ft.)	340 liters (12.0 cu.ft.)
Net weight	71 kg (156 lbs.)	100 kg (220 lbs.)
External cabinet	Galvanised steel with baked-on finish	
Internal cabinet	Stainless steel	
Insulation	Polyurethane foam	
Doors	Sliding glass doors, double-glazing glass with heat-reflective film	
Shelves	Hard steel wire	
Access port	30mm ϕ on back wall	
Lighting / Casters	LED/2 casters	
Compressor	Hermetic type, 90 W	Hermetic type, 160 W
Refrigerant	HFC	
Evaporator	Fin & Tube, Forced-air circulation	
Condenser	Wire & Tube	
Defrosting	Cyclical defrosting & evaporator temp. detection system	
Defrosting heaters	87 W	101 W
Temperature control	2°C to 14°C	
Temperature display	Digital (1°C increments)	
High/Low temperature alarm system	$\pm 2^{\circ}\text{C}$ to $\pm 14^{\circ}\text{C}$ from temperature setting value	
Door ajar alarm	Buzzer / door ajar lamp	
Options	Temperature recorder: MTR-0621LH-PE/PA (recorder fixing: MPR-S30-PW) MTR-G04C-PE/G04A-PA (recorder fixing: MPR-S7-PW) Battery mounting box: MPR-48B1-PW Interface board: MTR-480-PW, MTR-L03-PW DAQ system: MTR-5000-PW	

Caution: Panasonic guarantees the product under certain warranty conditions.

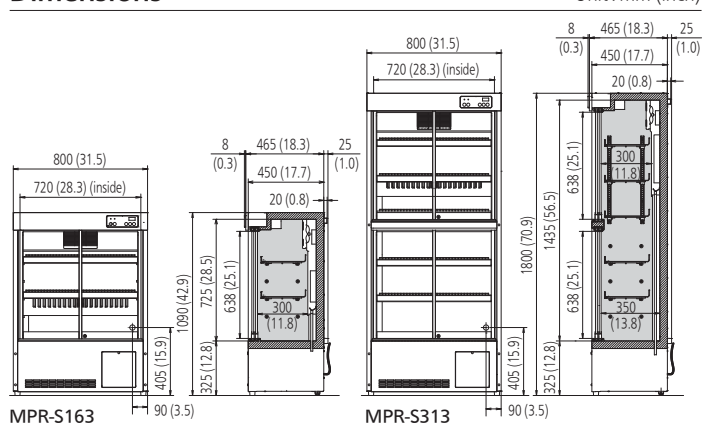
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- Appearance and specifications are subject to change without notice.
- Water condensation may sometimes appear on the glass doors, but this is normal and not a malfunction.

*1 External dimensions of main cabinet only - see dimension drawings showing handles and other external projections.

Dimensions

Unit: mm (inch)



Preservation, Culturing, Drying, and Sterilization Equipments



The management of the design, development, production, sales support, and servicing of the above.

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Panasonic Healthcare Co., Ltd. Biomedical Division, the producer of Pharmaceutical Refrigerators, is certified by TÜV SÜD for the product quality management system.



Panasonic Healthcare Co., Ltd., Biomedical Division is certified for:

Environmental management system: ISO14001

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