

Preservation

above-zero

Pharmaceutical Refrigerators

Spacious capacity meets versatile requirements of pharmaceutical refrigeration, from small-variety packages to large-variety packages.



MPR-1014R

MPR-514

Stable and reliable environment control — the exacting storage or research requirements

2°C to 14°C

(Ambient temperature -5°C to 35°C)

Several factors are important to assure the quality of pharmaceuticals, samples and reagents. These are storage temperature, expiry date, exposure to ultraviolet light and humidity. Of these the most important is storage temperature. If the temperature is too high, chemical changes can occur which affect the quality of the materials. If the temperature is too low, there is a risk of structural changes brought about by freezing. Narrow and uniform temperature control without regard to ambient conditions is very important. Don't compromise your results!



MPR-1014R

Equipped with sliding racks.
Effective capacity: 1,029 / (36.3 cu. ft.)

Features of the MPR-514(R) and MPR-1014(R) User-friendly design: easy-viewing, easy-opening, and energy-saving

Uniform storage unaffected by ambient temperature

Microprocessor controlled

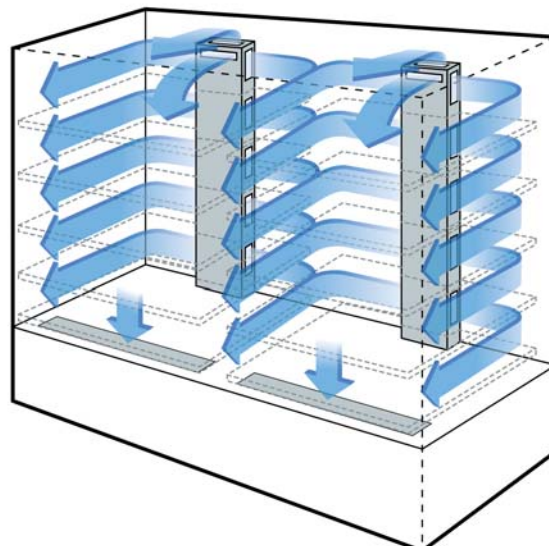
An electronic sensor accurately monitors chamber temperature and feeds the information to the microprocessor for precise control at preset temperature. Fans ensure gentle air circulation to provide uniform top to bottom temperature control after frequent door openings. Panasonic's easily calibrated, reliable and stable controls make validation easier.

Remarkable cooling efficiency

A highly efficient hermetic compressor, specially designed and developed by Panasonic, is utilized to provide powerful and rapid cooling to maintain proper temperature level.

Plenums

Panasonic's plenum design features uniform cold air flow distribution throughout the chamber to ensure temperature uniformity— essential for validated storage requirements.



key to high-precision performance for

2°C to 14°C

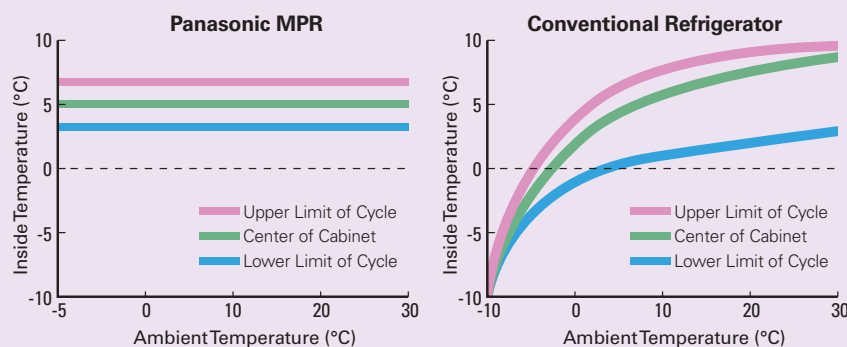
(Ambient temperature -5°C to 35°C)



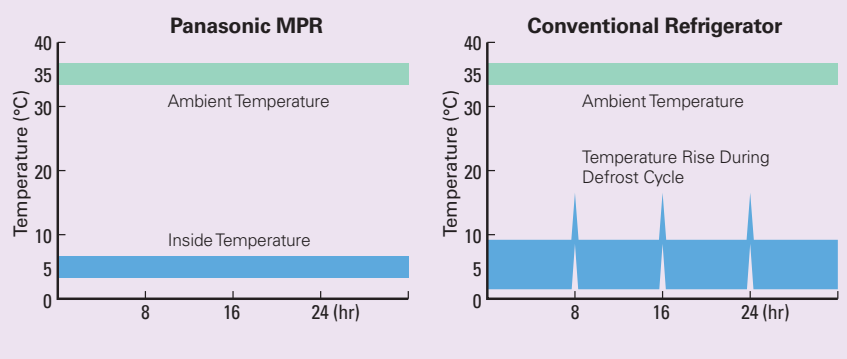
MPR-514R

Effective capacity: 486 / (17.2 cu. ft.)

Uniform Storage Temperature—Ambient Temperature



Uniform Storage Temperature—Cycle Defrost



Ergonomic design

The ergonomic design of the MPR series refrigerators provides a clear view of stored items through the large framed windows. The slim profile allows for easy-reach retrieval of your products. Users can choose from two types to suit their needs; one with all wire shelves or one with sliding racks on one side.



Double-sensor temperature management

The double-sensor control system with alarm-exclusive sensor added to the temperature control sensor always monitors the precise chamber temperature.

Safety is a Panasonic standard

Even the best designed refrigerator must be prepared for the unexpected.

● Cabinet construction

View Window design with protective film to prevent shattered glass from scattering onto the floor. Also features key locked doors.

● Control safety devices

Audible and flashing LED visual alarms alert you to the unlikely event of either a high or low temperature condition. An over-shooting prevention circuit automatically switches off the fan motor or heater, if the inside temperature rises abnormally.

● Comprehensive alarms

In addition to Low/High temperature alarms and door ajar alarm, power failure alarm can be installed as an option. Remote alarm terminal is also provided as standard.



Control Panel

Worry-free cycle defrosting system

With Panasonic's cycle defrost system, defrosting is performed automatically during compressor "off" cycles, and by sensing frost levels. This way defrosting is performed only when required, further protecting the contents against unnecessary temperature rise. The defrosting heater also acts as an emergency heat source to prevent samples from freezing.

HFC refrigerant & HCFC-free insulation

Panasonic biomedical equipment is designed for low environmental impact. The MPR-514 and 1014 series use HFC refrigerant and the foamed-in-place insulation is HCFC free.

Data Acquisition System (optional)

The Panasonic original DAQ (data acquisition) system enables remote monitoring of pharmaceutical refrigerators.

Specifications

Model No.	MPR-514/514R	MPR-1014/1014R
Temperature range	2°C to 14°C (Ambient temperature -5°C to 35°C)	
External dimensions (W x D x H)	900 x 600 x 1790 (mm) / 35.4 x 23.6 x 70.5 (inch)	1800 x 600 x 1790 (mm) / 70.9 x 23.6 x 70.5 (inch)
Interior dimensions (W x D x H)	800 x 465 x 1300 (mm) / 31.5 x 18.3 x 51.2 (inch)	1700 x 465 x 1300 (mm) / 66.9 x 18.3 x 51.2 (inch)
Effective capacity	489 liters (17.3 cu.ft.) MPR-514 486 liters (17.2 cu.ft.) MPR-514R	1033 liters (36.4 cu.ft.) MPR-1014 1029 liters (36.3 cu.ft.) MPR-1014R
Exterior cabinet	Galvanised steel with baked on finish	
Interior cabinet	Stainless steel	
Outer door	2 sliding doors, Double layer glass with heat reflection film	
Cabinet insulation	Rigid polyurethane foamed-in-place (HCFC free)	
Outer door lock	1	
Shelves & Sliding racks	5 polyester-coated wire shelves Load: 50kg per shelf (MPR-514)	10 polyester-coated wire shelves Load: 50kg per shelf (MPR-1014)
	5 polyester-coated wire shelves Load: 20kg per shelf 5 polyester-coated sliding racks Load: 20kg per rack (MPR-514R)	5 polyester-coated wire shelves Load: 50kg per shelf 10 polyester-coated sliding racks Load: 20kg per rack (MPR-1014R)
Cooling method	Forced cool air circulation	
Evaporator	Fin and tube	
Condenser	Wire and tube, Tube on sheet	Fin and tube
Compressor	Hermetic type, output: 200W	Hermetic type, output: 250W
Refrigerant	R-134a (HFC)	R-404A (HFC)
Fan motor	for cooling	For cooling: output 3W x 1
	for condensing	—
Defrosting	Forced type, fully automatic	
Defrost heater	73.8W x 2	141W
Net weight	141kg (300lbs) MPR-514 / 147kg (313lbs) MPR-514R	246kg (542lbs) MPR-1014 / 258kg (569lbs) MPR-1014R

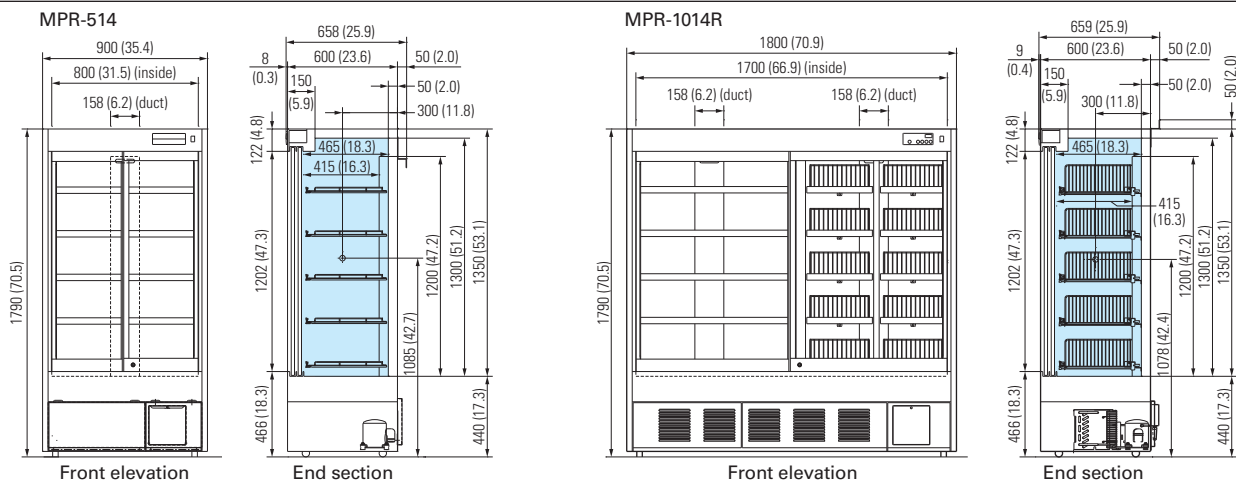
Voltage specification by destination

Representative destination	Voltage	Frequency	MPR-514/514R-PE	MPR-1014/1014R-PE
Europe	230V	50Hz (CE)	MPR-514-PE/514R-PE	MPR-1014-PE/1014R-PE
Korea	220V	60Hz	MPR-514-PK/514R-PK	MPR-1014-PK/1014R-PK
Thailand	220V	50Hz	MPR-514-PB/514R-PB	MPR-1014-PB/1014R-PB
Taiwan	110V/220V	60Hz	MPR-514-PT/514R-PT	MPR-1014-PT/1014R-PT

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

Dimensions

Unit: mm (inch)



Options

Automatic Temperature Recorders

	MTR-G04 (Circular Type)	MTR-0621LH-PE (Strip Chart Type)
Recording Paper	RP-G04-PW	RP-06-PW
Recorder Mounting Kit	MPR-S7-PW	MPR-S30-PW

External mounting Power Failure Alarm

MPR-48B-PW

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

DISTRIBUTED BY: