

Preservation
above-zero



MPR-414F

Refrigerator Temperature

+2°C to +14°C

Freezer Temperature

-20°C to -30°C

Effective Capacity

Refrigerator:

Freezer:

176L/6.2cu.ft. **39L/1.4cu.ft.** (MPR-215F)

340L/12.0cu.ft. **82L/2.9cu.ft.** (MPR-414F/FS)

Pharmaceutical Refrigerator features a built-in Freezer

- One unit with dual temperature zone
- Superior cooling performance
- Quiet operation
- Various alarm and safety devices

MPR-414F

Features

Safe Storage

- Microprocessor control system provides accurate temperature.
- Fan-forced air circulation system (refrigerator) offers fast recovery of temperature and better uniformity.
- Unique cycle defrost system prevents temperature rising by shorter defrost cycles which activate after each compressor cycle.
- Various safety systems such as high/low temperature audible and visual alarms, remote alarm, door ajar alarm and keyed door locks.
- MPR-414F has no glass on the door to keep contents unseen.

Usability

- One unit with dual temperature zone needs only minimal installation space.
- Four-door design reduces air loss during door opening and makes efficient use of space in front of unit. (MPR-414F)
- Triple-pane (MPR-414F) or double-pane windows with heat reflection film reduce condensation.
- Zero adjustment through control panel and optional recorder provide easier validation service.

Quiet Operation

- Two specially designed compressors offer quiet operation.

Specifications

Model No.	MPR-414F/414FS	
	Refrigerator	Freezer
External dimensions (W x D x H)	800 x 600 x 1805 (mm)	
	31.5 x 23.6 x 71.1 (inch)	
Internal dimensions (W x D x H)	720 x 495 x 1425 (mm)	317 x 440 x 586 (mm)
	28.3 x 19.5 x 56.1 (inch)	12.5 x 17.3 x 23.1 (inch)
Effective capacity	340L (12.0 cu.ft.)	82L (2.9 cu.ft.)
Net weight (Approx.)	414F: 126kg (278 lbs.)/414FS: 119kg (262 lbs.)	
Exterior	Galvanised steel with baked on finish	
Interior	Stainless steel	Colored aluminum plate
Insulation	Rigid polyurethane foamed in place	
Temperature range	+2°C to +14°C (Ambient temp. : 35°C)	-20°C to -30°C (Ambient temp. : 30°C)
Temperature control	Microprocessor control	
Cooling method	Fan-forced air circulation	Direct cooling
Compressor	160W	160W
Refrigerant	HFC	
Shelves (max. load)	Large: 2 (25kg/shelf) Small: 3 (15kg/shelf)	1 (15kg/shelf)
Access port	ø 30mm (rear)	ø 30mm (rear)
Casters	4 casters with 2 adjustable leveling feet	
Alarm and safety	High/low temperature alarm, Door ajar alarm, Memory back-up during power failure Self diagnostics, Remote alarm contact (DC30V, 2A), Door key lock	
Options	2-pen type circular recorder: MTR-G3504, Mounting kit: MPR-S7-PW Recorder for freezer: MTR-4015LH-PE, Mounting kit: MPR-S30-PW Recorder for refrigerator: MTR-0621LH-PE Drawers for the bottom left compartment: MPR-41R (MPR-414F/FS only) Panasonic DAQ System: MTR-5000-PW, MTR-480-PW/MTR-L03-PW	

Voltage specification by destination

Representative destination	Voltage	Frequency	Model
Europe	230V	50Hz (CE)	MPR-414F-PE/MPR-414FS-PE
Korea	220V	60Hz	MPR-414F-PK/MPR-414FS-PK
Thailand	220V	50Hz	MPR-414F-PB/MPR-414FS-PB
Taiwan	110V/220V	60Hz	MPR-414F-PT/MPR-414FS-PT

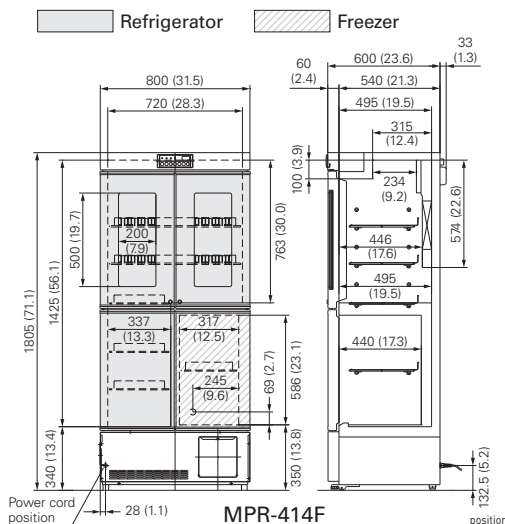
*Cooling performance is indicated by the temperature reached at the center of the freezer (at ambient temperature of 30°C with no load). In order to use the freezer at a stable temperature for a long time, it is recommended that the temperature be set to at least 5°C higher than the indicated lowest 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.

Dimensions

Unit: mm (inch)



Preservation Equipment, Experimental Environment Equipment, Dispensary Equipment, Culturing Equipment and Drying & Sterilising Equipment for General Laboratory use
The management of the design, development, production and servicing of the above.
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PHC Corporation, Biomedical Division is certified for:
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