

Pharmaceutical Refrigerator with Freezer

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

MPR-214F MPR-414F/FS



MPR-214F



MPR-414F



MPR-414FS

Refrigerator
+2 to +14°C

Freezer
-20 to -30°C



MPR-214F/414F/414FS

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-414FS has no glass on the door to keep contents invisible.

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/FS)
- Triple-pane (MPR-414F) or double-pane (MPR-214F) windows with heat refraction film reduce condensation.
- Zero adjustment through control panel and optional recorder provide easier validation service.

Quiet Operation

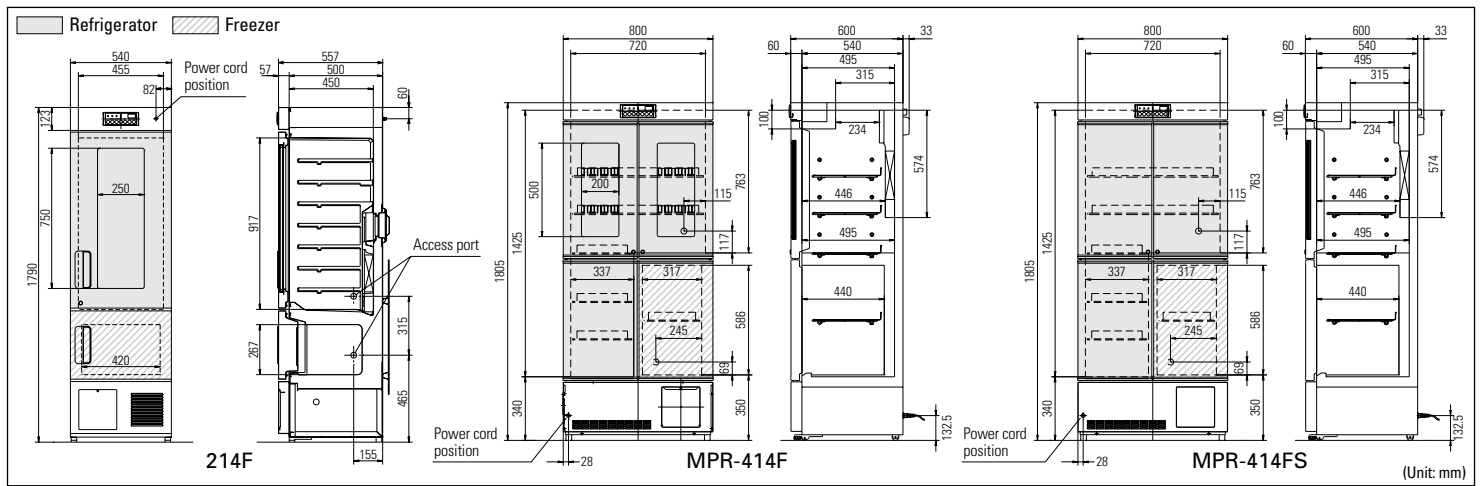
- Two specially designed compressors offer quiet operation.

Specifications

Model No.	MPR-214F		MPR-414F/414FS	
	Refrigerator	Freezer	Refrigerator	Freezer
External dimensions (W x D x H)	540 x 557 x 1,790 (mm) (21.2" x 21.9" x 70.5")		800 x 600 x 1,805 (mm) (31.5" x 23.6" x 71.1")	
Effective capacity	176L (6.2 cu.ft.)	39L (1.4 cu.ft.)	340L (12.0 cu.ft.)	82L (2.9 cu.ft.)
Net weight (Approx.)	80kg (176lbs.)		414F: 126kg (278lbs.) / 414FS: 119kg (262lbs.)	
Exterior	Polyester resin finish baked on zinc galvanized steel (PCM)			
Interior	Styrol resin	Colored aluminum plate	Stainless steel	Colored aluminum plate
Insulation	CFC-free 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)	+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	Fan-forced air circulation	Direct cooling
Compressor	60W	60W	160W	160W
Refrigerant	R-134a (HFC)		R-134a (HFC)	R-407D (HFC)
Shelves (Max. load)	3 (20 kg/shelf)	1 (10 kg)	Large: 2 (25 kg/shelf) Small: 3 (15 kg/shelf)	1 (15 kg)
Access port	ø 30mm (left)	ø 30mm (left)	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) Drawers for the bottom left compartment (MPR-41R): MPR-414F/FS only SANYO DAQ System (MTR-480 & MTR-2000)			

*Appearance and specifications are subject to change without notice.

Dimensions



Applicable scope:
Design/Development, Manufacturing and Servicing of Preservation equipments, Culturing equipments, Drying & Sterilizing equipments, Experiment & Environmental equipments, Preparation equipments of medicine and Environmental testing equipments.



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