

Think GAIA  
For Life and the Earth

**SANYO**

## Pharmaceutical Refrigerator with Freezer

MPR-214F  
MPR-414F/FS

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



MPR-214F



MPR-414F



MPR-414FS

Refrigerator Temperature

**+2°C to +14°C**

(Ambient temp. 35°C)

Freezer Temperature

**-20°C to -30°C**

(Ambient temp. 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 reflection film reduce condensation.
- Zero adjustment through control panel and optional recorder provide easier validation service.

### Quiet Operation

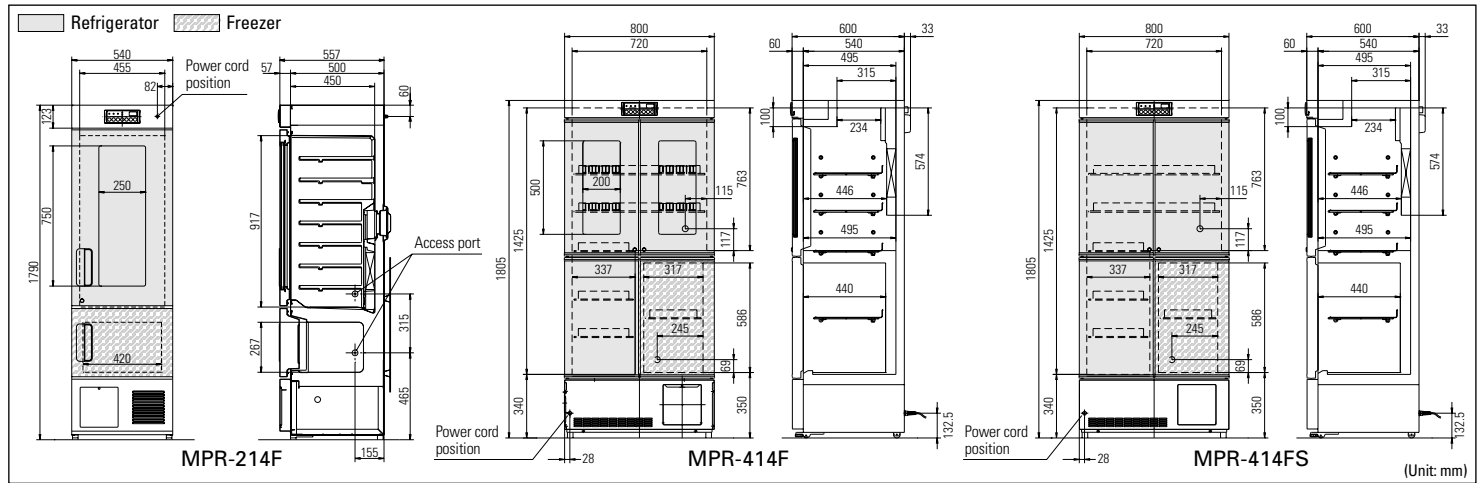
- Two specially designed compressors offer quiet operation.

## Specifications

Model No.	MPR-214F		MPR-414F/414FS	
	Refrigerator	Freezer	Refrigerator	Freezer
<b>External dimensions (W x D x H)</b>	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")	
<b>Effective capacity</b>	176L (6.2 cu.ft.)	39L (1.4 cu.ft.)	340L (12.0 cu.ft.)	82L (2.9 cu.ft.)
<b>Net weight (Approx.)</b>	81kg (179lbs.)		414F: 126kg (278lbs.) / 414FS: 119kg (262lbs.)	
<b>Exterior</b>	Painted steel			
<b>Interior</b>	Styrol resin	Colored aluminum plate	Stainless steel	Colored aluminum plate
<b>Insulation</b>	CFC-free rigid polyurethane foamed in place			
<b>Temperature range</b>	+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)
<b>Temperature control</b>	Microprocessor control			
<b>Cooling method</b>	Fan-forced air circulation	Direct cooling	Fan-forced air circulation	Direct cooling
<b>Compressor</b>	60W	60W	160W	160W
<b>Refrigerant</b>	HFC			
<b>Shelves (Max. load)</b>	3 (20 kg/shelf)	1 (10 kg)	Large: 2 (25 kg/shelf) Small: 3 (15 kg/shelf)	1 (15 kg)
<b>Access port</b>	ø 30mm (left)	ø 30mm (left)	ø 30mm (rear)	ø 30mm (rear)
<b>Casters</b>	4 casters with 2 adjustable leveling feet			
<b>Alarm and safety</b>	High/low temperature alarm, Door ajar alarm, Memory back up during power failure Self diagnostics, Remote alarm contact (DC30V, 2A), Door key lock			
<b>Options</b>	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



Further details regarding our products can be accessed at <http://www.sanyo.co.jp/cmgb/medical>

We design and manufacture products in accordance with ISO9001 & 14001 requirements.  
RoHS (European Restriction of Hazardous Substances directives) compliant

Distributed by:

# SANYO

SANYO Electric Co., Ltd.  
Biomedical Division

©2008 SANYO Printed in Japan 2008.1 MA  
SHR075