

# Pharmaceutical Refrigerator with Freezer

**MPR-214F**  
(R) 6.2 CU. FT.  
(F) 1.4 CU. FT.

**MPR-414F**  
(R) 12.0 CU. FT.  
(F) 2.9 CU. FT.



VALIDATED STORAGE OF REAGENTS,  
PHARMACEUTICALS AND BIOLOGICAL SAMPLES

- Ideal biologic storage environment for precise control and superior temperature and uniformity
- Microprocessor controller and interior forced air circulation
- Safe and secured storage behind a keyed locking door
- Integrated alarm functions, remote alarm contacts, and monitoring

FEATURE	BENEFIT
Microprocessor Controls	The Microprocessor control system provides accurate temperature control
Air Circulation	Fan-forced air circulation system (refrigerator) offers fast recovery of temperature and better uniformity.
Cycle Defrost System	Unique cycle defrost system in the refrigerator prevents temperature rise by shorter defrost cycles activated after each compressor cycle.
Alarms	Various safety systems such as high/low temperature audible and visual alarms, remote alarm, door ajar alarm and keyed door locks.

## TECHNOLOGY

- Dual Temperature Zone ■ Superior Cooling Performance ■ Triple (414F) & Double (214F) Pane Windows
- Alarm and Safety Devices ■ Quiet Operation

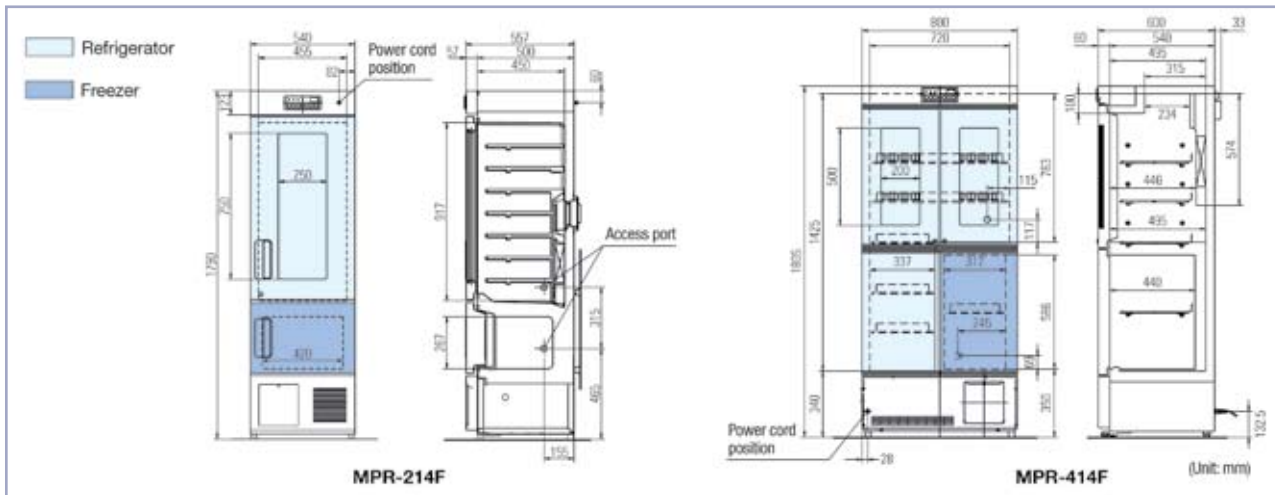
With the growing emphasis on proper storage of laboratory and pharmacy materials, SANYO MPR Series pharmacy refrigerators with freezer combine high performance refrigeration, control and alarm/monitoring systems with energy efficient, cost-effective cabinet design. One unit with dual temperature zone needs only minimal installation space. The four door design reduces air loss during door openings. The triple or double-pane windows with heat reflection film reduces the condensation. To provide easier validation services calibration adjustment through the control panel is available. The MPR Series combo units have two separate specially designed compressors and offers quiet operation.

Sanyo designs equipment for specific applications while ideally meeting the standards of the Food and Drug Administration (FDA), American Association of Blood Banks (AABB), Joint Commission on Accreditation of Healthcare Organizations (JCAHO), International Committee of Harmonization (ICH), and United States Department of Agriculture (USDA).

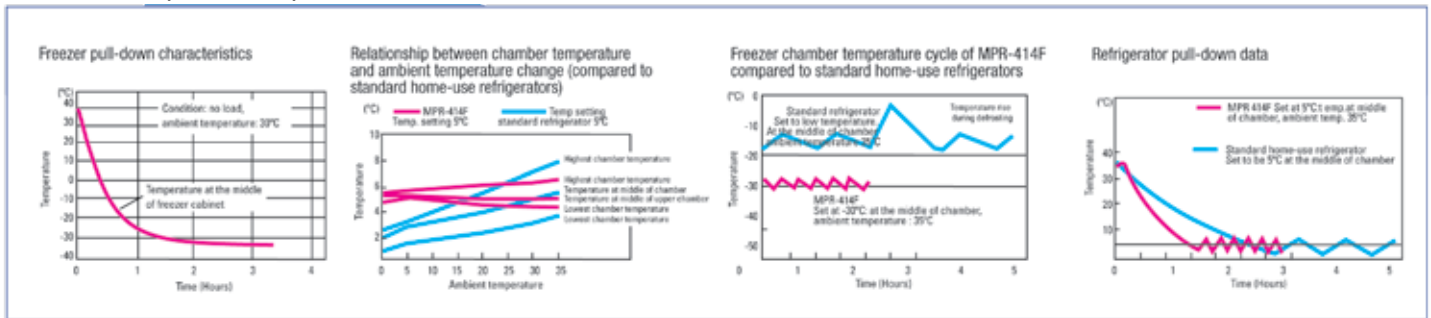
Name	MPR-214F		MPR-414F	
Model	Refrigerator	Freezer	Refrigerator	Freezer
External dimensions WxDxH	21.2x21.9x70.4(inch) 540x557x1790(mm)		31.5x23.6x71.0(inch) 800x600x1805(mm)	
Effective capacity	6.2 cu.ft. (176 liters)		12.0 cu.ft. (340 liters)	
Weight	176 lbs. (80 kg)		277 lbs. (126 kg)	
Exterior	Polyester resin finish baked on zinc galvanized steel			
Interior	Styrol resin	Colored aluminum plate	Stainless steel	Colored aluminum plate
Insulation	CFC-free rigid polyurethane foamed in place			
Temperature Range	2 to 14°C Ambient temp.: 30°C		-20 to 14°C Ambient temp.: 30°C	
Temperature Control	Microprocessor			
Cooling method	Fan-Forced air circulation	Direct Cooling (manual defrost)	Fan-Forced air circulation	Direct Cooling (manual defrost)
Compressor	60W	60W	160W	160W
Refrigerant	R-134C (HFC)		R-134A (HFC)	
Shelves	3 (44 lbs./shelf)	1 (22 lbs./shelf)	large: 2 (55 lbs./shelf) small: 3 (33 lbs./shelf)	1 (33 lbs./shelf)
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-C955), Drawers for the bottom left compartment (MPR-41R): MPR-414F only.			

These models are not explosion-proof/safe. DO NOT preserve chemicals that are highly volatile or corrosive.

## Dimensions



## Performance (MPR-414F)



p r e s e r v a t i o n