

**Panasonic**

Set a *New Standard.*

# Vaccine Preservation Solutions

Refrigerators and Freezers for ideal vaccine storage



# Panasonic Vaccine Storage

Panasonic offers a selection of Biomedical Refrigerators and Freezers that include significant design and performance properties. These units are more suitable for pharmacy and biomedical use than conventional household refrigerators.

## Vaccine Storage

Variation in temperature can drastically affect the effectiveness of vaccines. At the same time, failure to follow proper storage and monitoring practices will result in non-compliance to regulatory standards set by governing agencies. MPR Series refrigeration is designed for specific applications while meeting the standards of the Food and Drug Administration (FDA), American Association of Blood Banks (AABB), the International Committee for Harmonization (ICH) and the Centers for Disease Control and Prevention (CDC).

## Features



### Advanced Temperature Controls

Digital temperature sensors inside the refrigerator and controllers are built specifically to maintain a set temperature within the 2°C to 8°C temperature range.



### Precise Uniformity

The fan-forced air circulation allows for precise temperature uniformity, while the evaporator operates at 2°C. This prevents vaccines from freezing.



### Temperature Stability

Efficient temperature recovery properties and minimal temperature fluctuations are maintained around setpoint.



### Alarms and Monitoring

Alarms and temperature monitoring provide quick notification - both local and remote - of adverse operating conditions.

Panasonic designs equipment for specific applications while meeting the standards of the American Association of Blood Banks (AABB), International Committee for Harmonization (ICH), United States Department of Agriculture (USDA) and Centers for Disease Control and Prevention (CDC).

## MPR Series vs Domestic Refrigerator

Product Characteristics	MPR Series	Domestic Refrigerator
CFC-Free, reliable temperature control not affected by ambient temperature	Yes	No
Digital display of chamber temperature	Yes	No
Precise temperature setting of chamber with microprocessor control	Yes	No
Digital variable temperature control of Refrigerator (2°C to 14°C)	Yes	No
Variable temperature control of Freezer (-20°C to -30°C)	Yes	Max/Mid/Min
Uniform temperature at all shelf levels	Yes	No
Separate operation of Refrigerator and Freezer	Yes	No
Window for viewing	Yes	No
Optimized space dedicated to storage	Yes	No
Access port	Yes	Some Models Yes
Temperature recorder (optional)	Yes	No
Door ajar triggers indicator light and audible alarm (optional)	Yes	Some Models Yes
Irregular temperature triggers alarm (optional)	Yes	No
Remote alarm terminal	Yes	No
Set temperature deviation	Yes	No
Self diagnostic function	Yes	No
Unique cycle defrost / automatic defrost system	Yes	No
Condensate evaporator	Yes	Yes

MPR-215F-PA

MPR-715F-PA



## Comparison of Panasonic Products with Respect to the CDC Regulatory Recommendations - November 2012

All Refrigerators / Freezers Must:	MPR-514/1014	MPR-215F/414F/715F	SR-L6111W	MDF-U731/M	SF-L6111W
All refrigerators must maintain required vaccine storage temperatures (2°C - 8°C) year round, preferably set at 5°C.	✓	✓	✓	N/A	N/A
All freezers must maintain vaccine storage temperatures (-15°C or below) year round.	N/A	N/A	N/A	✓	✓
Have automatic defrost and are free of any frost, ice, or water.	✓	✓*	✓	MDF-U731 - Auto MDF-U731M - Manual	Manual
Manual defrosters for freezers are acceptable only if the office has an alternate place to store vaccines when defrosting the freezer.					
Combination units must have separate temperature controls (thermostats) for the refrigerator and freezer.	-	✓	-	N/A	N/A
Have doors that seal tightly and close properly.	✓	✓	✓	✓	✓
Have a working thermometer placed centrally in the unit. Thermometers must be certified in accordance with National Institute of Standards and Technology (NIST) or the American Society for Testing and Materials (ASTM) standards.	Min/Max Temperature MM-125	Min/Max Temperature MM-125	Recorder with probe in glycol MM-120	Recorder with probe in glycol MM-120	Recorder with probe in glycol MM-120

\*Refrigerator only.

### Proper Equipment Is Essential

**Pharmacy grade or purpose-built refrigerators and/or freezers** are specifically engineered to have even temperatures throughout. Purpose-built or pharmacy grade refrigerators can be compact in size, thus making them ideal for small offices."

- National Center for Immunization and Respiratory Diseases

### What Size Do You Need?

Doses / Year	Suggested Unit
Very high volume providers (10,000 doses / year)	Large capacity pharmaceutical grade unit: 36 cu. ft. MPR-1014 and MPR-1411, plus standard stand-alone freezer
High volume providers (2,000 - 10,000 doses / year)	Large capacity pharmaceutical grade unit: 17 cu. ft. MPR-721, plus standard stand-alone freezer or undercounter freezer
Medium volume providers (500 - 2,000 doses / year)	Medical grade refrigerator / freezer combination unit MPR-414F or MPR-715F, or stand-alone 17 cu. ft. MPR-514 refrigerator plus undercounter freezer
Low volume providers (less than 500 doses / year)	Medical grade refrigerator / freezer combination unit MPR-215F, or undercounter refrigerator and / or freezer



## Low-Volume Undercounter Refrigerators and Freezers

Convenient, compact undercounter refrigerators and freezers are the perfect solution for low-volume storage.

Under-Counter Refrigerators and Freezers							
Model Number	Product	Volume (cu.ft.)	Exterior Dimensions (w x f-b x h)	Temperature	Display	Lock	Voltage, Power Connection
SR-L6111W-PA	Refrigerator	6.1 173 L	23.6" x 26.2" x 34.6"* 600 x 660 x 879 mm	1°C to 14°C Microprocessor	yes	yes	115V, NEMA 5-15
SR-L4110W-PA	Refrigerator	4.9 139 L	21.4" x 22.8" x 33.8" 544 x 579 x 859 mm	4°C	no	no	15V, NEMA 5-15
SR-L4110WSEC-PA	Refrigerator	4.9 139 L	21.4" x 22.8" x 33.8" 544 x 579 x 859 mm	4°C	no	yes	15V, NEMA 5-15
SF-L6111W-PA	Freezer	5.4 153 L	23.6" x 26.2" x 34.6"* 600 x 660 x 879 mm	-15°C to -20°C Microprocessor	yes	yes	15V, NEMA 5-15
HF-5017W-PA	Freezer	5.0 142 L	21.4" x 25.4" x 33.6" 544 x 645 x 853 mm	-20°C	no	no	115V, NEMA 5-15
HF-5017WSEC-PA	Freezer	5.0 142 L	21.4" x 25.4" x 33.4" 544 x 645 x 848 mm	-20°C	no	yes	115V, NEMA 5-15

Convenient compact refrigeration in a laboratory environment. \*Cabinet depth measures 24" f-b without display and 26.2" f-b with display  
Models SR-L4110WSEC-PA and HF-5017WSEC-PA offer additional hasp locks to accommodate a padlock.

## Refrigeration Plus Freezer Combo

Panasonic Refrigerator / Freezer combination units provide superior uniformity for stable, precise temperature control and the monitoring of your vaccines, reagents and other biologicals.

Biomedical Refrigerator with Freezer Combination						
Model Number	Refrigerator Volume (cu.ft.)	Freezer Volume (cu.ft.)	Exterior Dimensions (w x f-b x h)	Temperature Range (forced air)	Temperature Range (cold air)	Voltage, Power Connection
MPR-215F-PA	6.2 176 L	1.4 40 L	21.3" x 21.9" x 70.5" 540 x 557 x 1790 mm	2°C to 14°C	-20°C to -30°C	115V NEMA 5-15
MPR-414F-PA	12.0 340 L	2.9 82 L	31.5" x 23.6" x 71.1" 800 x 600 x 1805 mm	2°C to 14°C	-20°C to -30°C	115V NEMA 5-15
MPR-715F*	14.7 415 L	6.2 176 L	35.4" x 28.1" x 75.2" 900 x 715 x 1910 mm	2°C to 14°C	-20°C to -30°C	115V NEMA 5-15

\*Certain models will maintain SANYO logo until further notice.

## High-Volume Sliding Doors Refrigerators

Panasonic's MPR series pharmaceutical refrigerators offer a complete and integrated solution for the strict and exact storage temperatures needed for pharmaceuticals, medicines and temperature-sensitive biologicals. The slim design and optional sliding shelves allow for an ergonomic easy-reach retrieval of your product.

Pharmaceutical Refrigerators						
Model Number	Volume (cu.ft.)	Exterior Dimensions (w x f-b x h)	Door	Wire Shelves	Voltage, Power Connection	
KMRS34A1 (formerly MDF-311D(H)-PA)	12.0 340 L	31.4" x 17.7" x 70.8" 798 x 450 x 1796 mm	dual, sliding glass	adjustable	115V NEMA 5-15	
MPR-514-PA	17.3 489 L	35.4" x 23.6" x 70.5" 900 x 600 x 1790 mm	dual, sliding glass	adjustable	115V NEMA 5-15	
MPR-514R-PA	17.2 486 L	35.4" x 23.6" x 70.5" 900 x 600 x 1790 mm	dual, sliding glass	1/2 adjustable, 1/2 roll-out	115V NEMA 5-15	
MPR-1014-PA	36.6 1037 L	70.9" x 23.6" x 70.5" 1778 x 600 x 1790 mm	dual, sliding glass	adjustable	115V NEMA 5-15	
MPR-1014R-PA	36.5 1034 L	70.9" x 23.6" x 70.5" 1778 x 600 x 1790 mm	dual, sliding glass	1/2 adjustable, 1/2 roll-out	115V NEMA 5-15	

Laboratory Refrigerators						
Model Number	Volume (cu.ft.)	Exterior Dimensions (w x f-b x h)	Door (glass)	Shelves (adjustable wire)	Drawers (solid roll-out)	Voltage, Power Connection
MPR-721-PA	24.2 685 L	30.3" x 32.7" x 77.0" 770 x 830 x 1955 mm	single, swinging	4	—	115V NEMA 5-15
MPR-721R-PA	23.7 671 L	30.3" x 32.7" x 77.0" 770 x 830 x 1955 mm	single, swinging	—	5	115V NEMA 5-15
MPR-1411-PA	48.2 1365 L	56.7" x 32.7" x 76.8" 1440 x 830 x 1950 mm	double, swinging	8	—	115V NEMA 5-15
MPR-1411R-PA	48.0 1360 L	56.7" x 32.7" x 76.8" 1440 x 830 x 1950 mm	double, swinging	—	10	115V NEMA 5-15