Panasonic refrigerators and freezers are engineered from the inside out to create, maintain and restore precise temperatures that are not commonly found with household or commercial cabinets.

DESIGNED FOR VACCINE, PHARMACEUTICAL AND MEDICAL PRODUCT STORAGE.

Panasonic refrigerators and freezers are engineered from the inside out to create, maintain and restore precise temperatures that are not commonly found with household or commercial cabinets.
IT’S THE **QUALITY OF COLD**
that determines the efficacy of the product inside.

Storage temperatures specified on pharmaceutical product inserts are categorized as refrigerated or frozen. While frozen products typically tolerate a broader temperature environment, refrigerated products must be kept from freezing.

The combination of temperature control accuracy, interior temperature uniformity, quick recovery, resistance to high ambient temperature and multiple monitoring processes delivers a quality of cold that characterizes the Panasonic commitment to engineering, storage safety and reliability.

Panasonic pharmacy storage cabinets are designed to meet current CDC pharmacy guidelines and anticipated 2017 standards for vaccine storage.
The CDC estimates that more than $20 million is lost each year - in the Vaccines for Children program alone - on wasted pharmaceuticals stored under insufficient conditions. In addition, it is impossible to visually verify if a vaccine has been frozen during a temperature excursion in cold chain storage. This may render the vaccine useless and may negate the purpose of the immunization itself, leading to a potential exposure to disease. 1,2,3,4

ACCURACY
Temperature accuracy is a critical requirement in the quality of cold. Panasonic refrigerators are factory pre-set at 5°C (41°F).* This assures interior storage temperature is sufficiently above the freezing point of vaccines and other water-based pharmaceuticals that can lose efficacy if frozen. This margin is essential for storage of small-volume doses in microsyringes that can freeze quickly if exposed to 0°C (32°F) for a short time during a door-open recovery period.

UNIFORMITY
The quality of cold starts with interior temperature uniformity from top-to-bottom, front-to-back and side-to-side. Uniformity assures stored product safety regardless of where in the refrigerator it is placed.

RECOVERY
Frequent door openings are common in retail pharmacies, clinics, hospitals, public health institutions and other facilities where vaccines are stored for distribution and administration. Vaccines are sensitive to freezing temperatures. Panasonic refrigerators protect against the possibility of freezing with a combination of precise temperature control and positive airflow balanced within the cabinet and supervised by a microprocessor-based controller.

AMBIENT TOLERANCE
High ambient temperatures are common in all US markets during the summer months, especially when HVAC demand is stressed due to low-voltage or brown-out conditions. Panasonic refrigerators and freezers are designed with high-efficiency insulation, dual pane glass doors to reduce or eliminate condensation, peripheral gaskets to prevent cold air loss and robust refrigeration components selected for broad voltage tolerance.

MONITORING
Microprocessor controllers include secure setpoint management with factory pre-sets, high visibility digital temperature displays, battery backup, local audio/visual deviation alarms and remote alarm contacts. For 24/7/365 independent monitoring, utilize Panasonic’s LabAlert® Monitoring System.

GOVERNING BODIES
More information on standards associated with improving storage and safety of vaccines and other pharmaceutical independent reports is available from these and other agencies.

- U.S. Centers for Disease Control and Prevention (CDC), Atlanta, GA
- Vaccines for Children (VFC), NSF, Atlanta, GA
- National Institute for Standards and Technology (NIST), Gaithersburg, MD
- NSF International, Ann Arbor, MI
- World Health Organization (WHO), Geneva, Switzerland

*The SR-L6111W refrigerator factory pre-set is +4°C.
VACCINE STORAGE RECOMMENDATIONS

If a vaccine freezes, its efficacy may be diminished or destroyed without visible indication to the administering clinician. Thus, vaccines inadvertently frozen in cold chain distribution or local storage may not offer protection to patients.1

In an effort to assure the quality of vaccines at the end of the distribution cold chain, the United States Centers for Disease Control and Prevention (CDC) has published guidelines for best practices in vaccine storage.2 These guidelines, which continue to evolve, are based on studies conducted by the National Institute of Standards and Technology (NIST).3

Established in 2014, these guidelines are designed to isolate and identify the conditions that affect vaccine efficacy and storage integrity, including the following areas of focus:

- Must not be a household or dormitory type of refrigerator. Dormitory-style units should not be used under any circumstances. This type of refrigerator poses a significant risk of freezing a vaccine even when it is used for temporary storage. A NIST report showed that this type of unit demonstrated inconsistent temperature control, regardless of where the vaccine was located in the chamber. Within two weeks of use, median temperature of the refrigerator setpoint had drifted approximately 4°C lower, freezing the vaccines contained inside.4
- Must offer dedicated storage in a stand-alone refrigerator specifically designed to establish and maintain key performance parameters.
- Must maintain accurate, uniform and repeatable storage temperature over a range of 2°C to 8°C (36°F to 46°F). The Panasonic factory setpoint is 5°C (41°F).
- Must protect from freezing temperatures anywhere in the refrigerator. This is critical for storage of small vaccine doses and microsyringes that can freeze quickly.
- Must be monitored by a NIST calibrated thermometer documented with a certificate of calibration.

Panasonic medical grade refrigerators and freezers are also recommended for storage of vaccines and other pharmaceuticals developed for veterinary use. These applications include veterinary offices, zoological and animal preservation reserves, farm cooperatives and large-scale dairy operations where herd management is required and vaccines are stored.

1) A 2012 Centers for Disease Control and Prevention (CDC) report revealed improper storage of some vaccines from the Vaccines for Children (VFC) program serving an estimated 40 million children through a national network.
2) NSF International (NSF) and The U.S. Center for Disease Control and Prevention have assigned industry consultants comprised of leading refrigeration and freezer cabinet manufacturers, including Panasonic, to establish vaccine storage guidelines with an emphasis on establishing criteria for storage refrigerators to protect refrigerated vaccines from freezing. These criteria will require that all vaccines be stored in refrigerators that meet performance standards currently offered by Panasonic.
**Use of non-compliant household or domestic refrigerators for pharmaceutical storage may be unsafe, costly and creates liabilities for any audited dispensing pharmacy clinician at a leading hospital or health agency that cannot assure the efficacy of vaccines associated with federally funded programs or other public health initiatives.**¹²³⁴

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### CDC REGULATORY COMPLIANCE REQUIREMENTS FOR VACCINE STORAGE

Panasonic MPR Series Refrigerators, Combo Refrigerators/Freezers, and Freezers are designed to meet best practice and performance directives established by the CDC.

- NIST certified calibrated temperature control and indicating probes (optional)*
- Accurate temperature control, 2°C to 8°C (36°F to 46°F), Panasonic pre-set at 5°C (41°F)
- Automatic defrost; elimination of ice and water while maintaining product temperature within specification
- Protection from inadvertent freezing in refrigerator chamber
- Independent temperature controls for refrigerator and freezer chambers
- Tight peripheral door seals
- Freezer chambers must maintain uniform -15°C (5°F) throughout

* National Institute of Standards and Technology (NIST) and the American Society for Testing and Materials (ASTM Standard).

---

### Panasonic MPR Series Refrigerators and Freezers vs Domestic/Household Products

<table>
<thead>
<tr>
<th>Performance</th>
<th>Panasonic MPR Series</th>
<th>Domestic/Household</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meets CDC Criteria for Vaccine Safety</td>
<td>Yes</td>
<td>—</td>
</tr>
<tr>
<td>Precise Temperature Setting, Digital Display</td>
<td>Microprocessor Control, 1°C Setpoint Accuracy</td>
<td>—</td>
</tr>
<tr>
<td>Uniform Top-to-Bottom Temperature</td>
<td>Forced Airflow, +/−3°C</td>
<td>—</td>
</tr>
<tr>
<td>Fast Temperature Recovery</td>
<td>Reserve Cooling Power</td>
<td>—</td>
</tr>
<tr>
<td>Ambient Temperature Protection</td>
<td>High Performance Insulation</td>
<td>—</td>
</tr>
<tr>
<td>Protection from Vaccine Freezing</td>
<td>Tight Temperature Uniformity To Protect Stored Product From Freezing</td>
<td>—</td>
</tr>
<tr>
<td>Design Attributes</td>
<td>Specifically for Vaccine/Biological/Pharmaceutical Use</td>
<td>—</td>
</tr>
<tr>
<td>Dual Pane Glass Door</td>
<td>Transparent UV Screening</td>
<td>—</td>
</tr>
<tr>
<td>Integrated Systems Supervision</td>
<td>Microprocessor Monitoring</td>
<td>—</td>
</tr>
<tr>
<td>Deviation Alarms</td>
<td>Temperature, Door Ajar</td>
<td>—</td>
</tr>
<tr>
<td>Remote Alarm Terminal</td>
<td>Standard NO/NC/C − 0 to 5v DC Connection</td>
<td>—</td>
</tr>
<tr>
<td>Self-Diagnostic Functions</td>
<td>Continuous</td>
<td>—</td>
</tr>
<tr>
<td>Access Ports for Independent Probes</td>
<td>Yes</td>
<td>—</td>
</tr>
<tr>
<td>NIST Traceable Temperature Probe</td>
<td>Optional</td>
<td>—</td>
</tr>
<tr>
<td>Automatic Defrost on Demand, Evaporator Sensor Initiated</td>
<td>Maintains Stored Product Temperature</td>
<td>—</td>
</tr>
<tr>
<td>Independently Controlled Freezer Section</td>
<td>On Combo Refrigerator/Freezer Units Only</td>
<td>—</td>
</tr>
</tbody>
</table>
PANASONIC MPR SERIES FEATURES AND SELECTION

STANDARD FEATURES GUIDE
All Panasonic MPR Series Refrigerators, Combination Refrigerators/Freezers, and Freezers come standard with:

- CFC Free urethane insulation
- Microprocessor temperature controller with alarms
- CFC Free refrigerants
- Highly visible LED digital temperature display
- Remote alarm contacts
- Key pad lockout
- Key door lock
- Diagnostics (sensors only on SR-L6111W-PA and SF-L6111W-PA)
- Access ports with plugs
- Leveling feet & casters (leveling feet only on SR-L6111W-PA and SF-L6111W-PA undercounter units)

TEMPERATURE OPERATION AND DEFROST

Refrigerators
- Exceptional uniformity prevents vaccines from freezing
- Unique defrost system keeps refrigerator free from frost build up. Electronically monitored and initiates only when needed

Freezers
- Freezers incorporate either forced air, cold wall or cold evaporator shelves to achieve freezing temperatures
- Freezers have either automatic or manual defrost

SELECTION
Panasonic vaccine/pharmacy refrigerators and biomedical freezers are available in a variety of configurations, including undercounter and upright models with shelves. Pull-out wire baskets or pull-out solid drawers are available on select models.

REFRIGERATORS

SR-L6111W-PA
MPR-5313-PA
MPR-514-PA
MPR-514R-PA
MPR-1014-PA
MPR-1014R-PA
MPR-721-PA
MPR-721R-PA
MPR-1411-PA
MPR-1411R-PA
### PURCHASING GUIDE BY ANNUAL DOSAGE VOLUME

Choosing a pharmacy refrigerator or freezer for retail pharmacies, public health agencies and other administering bodies is based on volume.

<table>
<thead>
<tr>
<th>Annual Doses Administered</th>
<th>Pharmacy Refrigerators</th>
<th>Pharmacy Freezers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Low Volume, less than 500 doses/year</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 5.7 cu.ft. to 12.0 cu.ft. | SR-L6111W-PA Undercounter Refrigerator  
MPR-S313-PA Refrigerator  
MPR-215F-PA Combo Refrigerator/Freezer  
MPR-414F-PA Combo Refrigerator/Freezer | SF-L6111W-PA Undercounter Freezer  
MPR-215F-PA Combo Refrigerator/Freezer  
MPR-414F-PA Combo Refrigerator/Freezer |
| **Moderate Volume, 500 to 2,000 doses/year** | | |
| 12.0 cu.ft. to 17.3 cu.ft. | MPR-S313-PA Refrigerator  
MPR-414F-PA Combo Refrigerator/Freezer  
MPR-715F-PA Combo Refrigerator/Freezer  
MPR-514-PA Refrigerator  
MPR-514R-PA Refrigerator | SF-L6111W-PA Undercounter Freezer  
MPR-215F-PA Combo Refrigerator/Freezer  
MPR-414F-PA Combo Refrigerator/Freezer  
MDF-U334-PA Freezer  
MDF-U5312-PA Freezer  
MDF-U731-PA Freezer  
MDF-U731M-PA Freezer |
| **Large Volume, 2,000 to 10,000 doses/year** | | |
| 12.3 cu.ft. to 48.0 cu.ft. | MPR-721-PA Refrigerator  
MPR-721R-PA Refrigerator  
MPR-1014-PA Refrigerator  
MPR-1014R-PA Refrigerator  
MPR-1411-PA Refrigerator  
MPR-1411R-PA Refrigerator | |
| **Very Large Volume, 10,000+ doses/year** | | |
| 48.0 cu.ft. | MPR-1411-PA Refrigerator  
MPR-1411R-PA Refrigerator | |

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**Combinations**

- **COMBO**
  - MPR-215F-PA
  - MPR-414F-PA
  - MPR-715F-PA

- **FREEZERS**
  - MDF-U334-PA
  - MDF-U5312-PA
  - MDF-U731M-PA

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[Image of Panasonic Refrigerator and Freezer models]
PANASONIC MPR SERIES REFRIGERATORS

Medical Grade Lab Refrigerators - Swing Door Models

Panasonic Lab and Pharmacy Refrigerators include significant design and performance properties for storage of temperature sensitive vaccines and other pharmaceutical materials.

MPR Series Refrigerators

- Swing door models include dual glass viewing window
- Positive internal airflow maintains precise top-to-bottom temperature uniformity to protect stored product in every location within the refrigerator
- Top mount refrigeration system and controls
- Interior light*

* No interior light on Model SR-L6111W-PA

ALL CABINETS MEET ESSENTIAL CRITERIA FOR VACCINE AND PHARMACY USE:

- Accuracy
- Uniformity
- Recovery
- Ambient Tolerance
- Monitoring

Features

<table>
<thead>
<tr>
<th>Undercounter Model</th>
<th>SR-L6111W-PA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Features</strong></td>
<td></td>
</tr>
<tr>
<td>Interior Capacity</td>
<td>5.7 [161]</td>
</tr>
<tr>
<td>Door - CFC Free Insulation</td>
<td>Single</td>
</tr>
<tr>
<td>Blackout Panels to Cover Glass</td>
<td>—</td>
</tr>
<tr>
<td>Full Operating Temperature</td>
<td>+1°C to +14°C</td>
</tr>
<tr>
<td>Vaccine Storage Operating Temperature</td>
<td>+2°C to +8°C</td>
</tr>
<tr>
<td>Factory Pre-Set Temperature</td>
<td>+4°C</td>
</tr>
<tr>
<td>Defrost - Electronically Monitored Evaporator</td>
<td></td>
</tr>
<tr>
<td>Evaporator Operates Above Freezing At All Times</td>
<td></td>
</tr>
<tr>
<td>Highest Ambient Temperature and Maintains Cabinet Temperature</td>
<td>+35°C</td>
</tr>
<tr>
<td>Internal Airflow for Precise Temperature Uniformity</td>
<td></td>
</tr>
<tr>
<td>Air Cooled Refrigeration System, CFC Free Refrigerant</td>
<td></td>
</tr>
<tr>
<td>Cabinet Insulation</td>
<td></td>
</tr>
<tr>
<td>Microprocessor Controller, Adjustability</td>
<td>1°C Increments - Door Mounted</td>
</tr>
<tr>
<td>Digital Temperature Display</td>
<td></td>
</tr>
<tr>
<td>Alarms</td>
<td></td>
</tr>
<tr>
<td>Remote Alarm Contacts</td>
<td></td>
</tr>
<tr>
<td>Remote Alarm Contact Output</td>
<td></td>
</tr>
<tr>
<td>Electronics Diagnostics</td>
<td>Sensors Only</td>
</tr>
<tr>
<td>Controller Security</td>
<td></td>
</tr>
<tr>
<td>Roll Out Solid Drawers</td>
<td>—</td>
</tr>
<tr>
<td>Casters</td>
<td>—</td>
</tr>
<tr>
<td>Adjustable Feet</td>
<td>4 for Leveling</td>
</tr>
<tr>
<td>Door Lock</td>
<td>Key Lock</td>
</tr>
<tr>
<td>Interior Light</td>
<td>—</td>
</tr>
<tr>
<td>Access Port</td>
<td>(1) 1.1” (30 mm) Dia</td>
</tr>
<tr>
<td>Stackable</td>
<td>SRFL61PS</td>
</tr>
<tr>
<td>Interior Material</td>
<td>Formed ABS</td>
</tr>
<tr>
<td>Exterior Material</td>
<td>Resin Bonded Galv Steel</td>
</tr>
<tr>
<td>Electrical 115 V, NEMA 5-15P</td>
<td>Yes</td>
</tr>
<tr>
<td>Interior Dimensions (W × F to B × H)</td>
<td>20.9” × 17.4” × 27.8”</td>
</tr>
<tr>
<td>Exterior Dimensions (W × F to B × H)</td>
<td>23.6” × 25.7” × 34.6” **</td>
</tr>
</tbody>
</table>

** Exterior cabinet depth measures 23.6” (600 mm) without control panel. Add 2.2” (56 mm) for control panel/display.
### Upright, Swing Single Door Models

<table>
<thead>
<tr>
<th>Model</th>
<th>With Dual Pane Glass</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPR-721-PA (w/shelves)</td>
<td>Optional</td>
<td>+2°C to +23°C</td>
</tr>
<tr>
<td>MPR-721R-PA (w/drawers)</td>
<td>Optional</td>
<td>+2°C to +23°C</td>
</tr>
<tr>
<td>MPR-1411-PA (w/shelves)</td>
<td>Optional</td>
<td>+2°C to +23°C</td>
</tr>
<tr>
<td>MPR-1411R-PA (w/drawers)</td>
<td>Optional</td>
<td>+2°C to +23°C</td>
</tr>
</tbody>
</table>

- **Interior Capacity**: 5.7 cu.ft. (161 liter)
- **Door**: CFC Free Insulation
- **Blackout Panels**: Optional
- **Full Operating Temperature**: +1°C to +14°C
- **Vaccine Storage Operating Temperature**: +2°C to +8°C
- **Factory Pre-Set Temperature**: +4°C
- **Defrost**: Electronically Monitored Evaporator
- **Interior Airflow**: For Precise Temperature Uniformity
- **Air Cooled Refrigeration System**: Std
- **Cabinet Insulation**: CFC Free Urethane
- **Microprocessor Controller**: 1°C Increments - Door Mounted
- **Digital Temperature Display**: LED
- **Alarms**: High/Low, Door Ajar, Power Failure
- **Remote Alarm Contacts**: Normally Open, Normally Closed, Common
- **Remote Alarm Contact Output**: 0 to 5 Volts DC
- **Electronics Diagnostics**: Sensors Only
- **Controller Security**: Lockable with Key Pad
- **Shelves**: (3) Adjustable
- **Drawers**: (5) Solid Drawers
- **Casters**: 2 Swivel, 2 Fixed
- **Adjustable Feet**: 4 for Leveling
- **Door Lock**: Key Lock
- **Interior Light**: Yes with Control Panel Switch
- **Access Port**: (1) 1.1” (30 mm) Dia
- **Stackable**: SRFL61PS
- **Interior Material**: Formed ABS
- **Exterior Material**: Zinc Galv Stl-Acrylic Finish
- **Electrical**: 115 V, NEMA 5-15P
- **Interior Dimensions**: 20.9” × 17.4” × 27.8”
- **Exterior Dimensions**: 23.6” × 25.7” × 34.6”

### Upright, Swing Double Door Models

<table>
<thead>
<tr>
<th>Model</th>
<th>With Dual Pane Glass</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPR-721-PA (w/shelves)</td>
<td>Optional</td>
<td>+2°C to +23°C</td>
</tr>
<tr>
<td>MPR-721R-PA (w/drawers)</td>
<td>Optional</td>
<td>+2°C to +23°C</td>
</tr>
<tr>
<td>MPR-1411-PA (w/shelves)</td>
<td>Optional</td>
<td>+2°C to +23°C</td>
</tr>
<tr>
<td>MPR-1411R-PA (w/drawers)</td>
<td>Optional</td>
<td>+2°C to +23°C</td>
</tr>
</tbody>
</table>

- **Interior Capacity**: 24.2 (684) cu.ft. 23.7 (671) cu.ft. 48.2 (1364) cu.ft. 48.0 (1359) cu.ft.
- **Door**: Single
- **With Dual Pane Glass**: With Dual Pane Glass With Dual Pane Glass With Dual Pane Glass
- **Blackout Panels**: Optional Optional Optional Optional
- **Full Operating Temperature**: +2°C to +23°C +2°C to +23°C +2°C to +23°C +2°C to +23°C
- **Vaccine Storage Operating Temperature**: +2°C to +8°C +2°C to +8°C +2°C to +8°C +2°C to +8°C
- **Factory Pre-Set Temperature**: +5°C +5°C +5°C +5°C
- **Defrost**: Initiated Only as Needed
- **Prevents Vaccines from Freezing**: Forced Air
- **Cabinet Insulation**: CFC Free Urethane
- **Microprocessor Controller**: 1°C Increments
- **Digital Temperature Display**: LED
- **Alarms**: High/Low, Door Ajar, Power Failure
- **Remote Alarm Contacts**: Normally Open, Normally Closed, Common
- **Remote Alarm Contact Output**: 0 to 5 Volts DC
- **Electronics Diagnostics**: Sensors Only
- **Controller Security**: Lockable with Key Pad
- **Shelves**: (4) Adjustable
- **Drawers**: (10) Solid Drawers
- **Casters**: 2 Swivel, 2 Fixed
- **Adjustable Feet**: 2 For Securing Unit in Place - Front of Base 2 For Securing Unit in Place - Front of Base 2 For Securing Unit in Place - Front of Base 2 For Securing Unit in Place - Front of Base
- **Door Lock**: Key Lock
- **Interior Light**: Yes with Control Panel Switch
- **Access Port**: (2 Side, 1 Top) 1.1” (30 mm) Dia (2 Side, 1 Top) 1.1” (30 mm) Dia (2 Side, 1 Top) 1.1” (30 mm) Dia (2 Side, 1 Top) 1.1” (30 mm) Dia
- **Stackable**: SRFL61PS
- **Interior Material**: Formed ABS
- **Exterior Material**: Zinc Galv Stl-Acrylic Finish
- **Electrical**: Yes
- **Interior Dimensions**: 25.6” × 28.0” × 59.1”
- **Exterior Dimensions**: 30.3” × 32.7” × 77”

**Notes**:
- **Exterior cabinet depth measures 23.6” (600 mm) without control panel. Add 2.2” (56 mm) for control panel/display.**
PANASONIC MPR SERIES REFRIGERATORS

Medical Grade Pharmacy Refrigerators - Sliding Door Models

Refrigerator operating temperature is pre-set at 5°C (41°F) on all cabinets. Temperature is adjustable in 1°C increments through a control interface. All units come standard with one 1.1” diameter (30 mm) access port for independent external monitoring probes as well as diagnostics.

- Sliding dual pane glass door refrigerators
- Unique slim line, front to back design. These models are ideal where lab and aisle space is limited
- Full view glass to observe stored product for inventory control
- Back wall plenum provides horizontal airflow for maintaining precise top-to-bottom temperature uniformity to protect stored product in every location within the refrigerator
- Horizontal airflow allows maximum shelf loading
- Interior light

PURPOSE DESIGNED REFRIGERATORS FOR VACCINE STORAGE:

- Internal air plenum for superior temperature accuracy and uniformity even when shelves and pull-out wire shelves are fully loaded
- Installation made easy with slim line design for easy access through doorways
- Stainless steel interior – easy to clean and corrosion resistant
- Easy access to inventory with pull-out wire baskets

Features

- Interior Capacity - cu.ft. (liter) 12.0 [340]
- Door, Tinted Dual Pane Glass with Heat Reflective Coating 4 Sliding
- Slim Line Design. Ideal Where Lab and Aisle Space is Limited, Easy Product Accessibility
- Full Operating Temperature
- Vaccine Storage Operating Temperature
- Factory Pre-Set Temperature, Adjustable
- Defrost - Electronically Monitored Evaporator
- Evaporator Operates Above Freezing At All Times
- Highest Ambient Temperature and Maintains Cabinet Temperature
- Airflow for Precise Temperature Uniformity
- Air Cooled Refrigeration System, CFC Free Refrigerant One
- Cabinet Insulation
- Microprocessor Controller, Adjustability
- Digital Temperature Display
- Alarms
- Remote Alarm Contacts Optional
- Remote Alarm Contact Output
- Diagnostics Sensors Only
- Controller Security
- Wire Shelves (5) Adjustable
- Wire Shelves/Pull Out Wire Baskets
- Casters
- Adjustable Feet
- Lockable Door
- Interior Light
- Access Port
- Interior Material
- Exterior Material
- Electrical 115 V, NEMA 5-15P

Interior Dimensions (W × D × H) 28.3” × 12.8” × 56.5” 720 × 350 × 1435 mm

Exterior Dimensions (W × D × H) 31.5” × 18.3” × 70.9” 800 × 465 × 1800 mm
## Upright, Sliding Door Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Interior Capacity - cu.ft. (liter)</th>
<th>Door Type</th>
<th>Operating Temperature - °C</th>
<th>Adjustable Shelves/Baskets</th>
<th>Caster Type</th>
<th>Lockable Door</th>
<th>Interior Light</th>
<th>Access Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPR-514-PA (w/shelves)</td>
<td>12.0 (340)</td>
<td>2 Sliding</td>
<td>+2°C to +14°C</td>
<td>5 Adjustable</td>
<td>2 Swivel, 2 Fixed</td>
<td>Key Lock</td>
<td>Yes</td>
<td>1 Side Wall 1.1&quot; (30 mm) Dia</td>
</tr>
<tr>
<td>MPR-514R-PA (w/shelves &amp; baskets)</td>
<td>17.2 (486)</td>
<td>2 Sliding</td>
<td>+2°C to +8°C</td>
<td>10 Adjustable, 5 each side</td>
<td>2 Swivel, 2 Fixed</td>
<td>Zinc Galv Stl with Acrylic Finish</td>
<td>Yes</td>
<td>3.5&quot; x 18.3&quot; x 70.5&quot; 900 × 465 × 1790 mm</td>
</tr>
<tr>
<td>MPR-1014-PA (w/shelves)</td>
<td>36.5 (1033)</td>
<td>2 Sliding</td>
<td>+5°C; Defrost Initiated Only as Needed</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>3.5&quot; x 18.3&quot; x 51.2&quot; 800 × 465 × 1300 mm</td>
</tr>
<tr>
<td>MPR-1014R-PA (w/shelves &amp; baskets)</td>
<td>36.3 (1029)</td>
<td>2 Sliding</td>
<td>+35°C</td>
<td>18 Adjustable / 10 Baskets</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>3.5&quot; x 18.3&quot; x 70.5&quot; 900 × 465 × 1790 mm</td>
</tr>
</tbody>
</table>
Medical Grade Combo Refrigerator/Freezer

Combo Refrigerator/Freezer cabinets are popular for installations where space is limited. Both refrigeration and freezer functions are self-contained and independently controlled in separate compartments with individual doors.

Refrigerator Features

- Includes dual glass viewing window
- Positive internal airflow maintains precise top-to-bottom temperature uniformity to protect stored product in every location within the refrigerator

Freezer Features

- Cold wall cooling system
- Manual defrost

MULTIPURPOSE, SPACE EFFICIENT, HIGH PERFORMANCE

- Slim line cabinet design
- Single cabinet with two independent temperature controlled chambers
- Each chamber has its own refrigeration and control system
- Cost effective storage of refrigerated and frozen vaccines

Features

<table>
<thead>
<tr>
<th>MPR-215F-PA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerator</td>
<td></td>
</tr>
<tr>
<td>Interior Capacity - cu.ft. (liter)</td>
<td>6.2 (176)</td>
</tr>
<tr>
<td>Storage Compartments</td>
<td>One</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>+2°C to +14°C</td>
</tr>
<tr>
<td>Factory Pre-Set Temperature</td>
<td>+5°C</td>
</tr>
<tr>
<td>Internal Airflow for Precise Temperature Uniformity</td>
<td>Forced Air</td>
</tr>
</tbody>
</table>
| Defrost | Automatic *
| Swing Door with CFC Insulation | (1) Door w/ Dual Pane Glass |
| Light | LED w/ Control Panel Switch |
| Shelves | (3) Adjustable Wire |
| Independent Air Cooled Refrigeration System |  |
| Refrigerant | CFC Free Urethane |
| Cabinet Insulation |  |
| Maximum Operating Ambient Temperature | +35°C |
| Microprocessor Controller, Adjustability |  |
| Digital Temperature Display |  |
| Alarms - High/Low, Door Ajar, Power Failure |  |
| Remote Alarm Contacts |  |
| Remote Alarm Contact Output |  |
| Electronics Diagnostics |  |
| Casters |  |
| Adjustable Feet |  |
| Key Lock | (1) On Refrigerator Door Locks Top |
| Access Port | (1) 1.1” (30 mm) Dia |
| Interior Material | Styrene Resin |
| Exterior Material |  |
| Electrical 115 V, NEMA 5-15P |  |
| Interior Dimensions [W × F to B × H] | 17.9” × 18.3” × 36.1” ** 455 × 466 × 917 mm |
| Exterior Dimensions [W × F to B × H] | 21.3” × 21.9” × 70.6” 540 × 557” 1794 mm |

* Electronically monitored defrost only when needed. Evaporator operates above freezing. Prevents vaccines from freezing.
** Deduct 1.9” (50 mm) For Back Wall Air Plenum
*** Deduct 1.9” (50 mm) For Back Wall Air Plenum;
   Right Side Chamber Height 26.0” (661 mm);
   Left Side Chamber Height 52.0” (1321 mm)
### Combo Refrigerators/Freezers

<table>
<thead>
<tr>
<th>Freezer</th>
<th>Refrigerator</th>
<th>Freezer</th>
<th>Refrigerator</th>
<th>Freezer</th>
<th>Refrigerator</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPR-414F-PA</td>
<td></td>
<td>MPR-715F-PA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>MPR-414F-PA</th>
<th>MPR-715F-PA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interior Capacity - cu.ft. (liter)</strong></td>
<td>6.2 (176)</td>
<td>6.2 (176)</td>
</tr>
<tr>
<td><strong>Storage Compartments</strong></td>
<td>One</td>
<td>Two</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>+2°C to +14°C</td>
<td>-15°C to -35°C</td>
</tr>
<tr>
<td><strong>Factory Pre-Set Temperature</strong></td>
<td>+5°C</td>
<td>-30°C</td>
</tr>
<tr>
<td><strong>Internal Airflow for Precise</strong></td>
<td>Forced Air</td>
<td>Direct Cold Wall Cooling</td>
</tr>
<tr>
<td><strong>Defrost</strong></td>
<td>Automatic *</td>
<td>Manual</td>
</tr>
<tr>
<td><strong>Swing Door with CFC Insulation</strong></td>
<td>(1) Door w/ Dual Pane Glass</td>
<td>Bi-Parting Solid</td>
</tr>
<tr>
<td><strong>Light</strong></td>
<td>LED w/ Control Panel Switch</td>
<td>LED w/ Control Panel Switch</td>
</tr>
<tr>
<td><strong>Shelves</strong></td>
<td>(3) Adjustable Wire</td>
<td>(2) Wire</td>
</tr>
<tr>
<td><strong>Independent Air Cooled Refrigeration System</strong></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>Refrigerant</strong></td>
<td>CFC Free</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Cabinet Insulation</strong></td>
<td>CFC Free Urethane</td>
<td>Std</td>
</tr>
<tr>
<td><strong>Maximum Operating Ambient Temperature</strong></td>
<td>+35°C</td>
<td>+30°C</td>
</tr>
<tr>
<td><strong>Microprocessor Controller, Adjustability</strong></td>
<td>1°C Increments (One – Independently Controls the Refrigerator &amp; Freezer)</td>
<td></td>
</tr>
<tr>
<td><strong>Digital Temperature Display</strong></td>
<td>LED</td>
<td>LED</td>
</tr>
<tr>
<td><strong>Alarms - High/Low, Door Ajar, Power Failure</strong></td>
<td>High/Low, Door Ajar, Power Failure</td>
<td>High/Low, Door Ajar, Power Failure</td>
</tr>
<tr>
<td><strong>Remote Alarm Contacts</strong></td>
<td>Normally Open, Normally Closed, Common</td>
<td></td>
</tr>
<tr>
<td><strong>Remote Alarm Contact Output</strong></td>
<td>0 to 5 Volts DC</td>
<td>0 to 5 Volts DC</td>
</tr>
<tr>
<td><strong>Electronics Diagnostics</strong></td>
<td>Total Control System</td>
<td>Total Control System</td>
</tr>
<tr>
<td><strong>Casters</strong></td>
<td>2 Swivel, 2 Fixed</td>
<td>2 Swivel, 2 Fixed</td>
</tr>
<tr>
<td><strong>Adjustable Feet</strong></td>
<td>2 For Securing Unit in Place - Front of Base</td>
<td>2 For Securing Unit in Place - Front of Base</td>
</tr>
<tr>
<td><strong>Key Lock</strong></td>
<td>(1) On Refrigerator Door Locks Top (Ref) and Bottom (Frzr) Door</td>
<td>(1) Center Left - Locks Top (Ref) and Bottom (Frzr) Left Doors</td>
</tr>
<tr>
<td></td>
<td>(1) Center Right - Locks Top (Ref) and Bottom (Frzr) Right Doors</td>
<td>(1) Center Right - Locks Top (Ref) and Bottom (Frzr) Right Doors</td>
</tr>
<tr>
<td><strong>Access Port</strong></td>
<td>(1) 1.1&quot; (30 mm) Dia</td>
<td>(2) (Left Side and Top) 1.1&quot; (30 mm) Dia</td>
</tr>
<tr>
<td><strong>Interior Material</strong></td>
<td>Styrene Resin</td>
<td>Painted Aluminum Plate</td>
</tr>
<tr>
<td><strong>Exterior Material</strong></td>
<td>Zinc Galv Steel with Acrylic Finish</td>
<td>Painted Steel</td>
</tr>
</tbody>
</table>

### Exterior Dimensions (W × F to B × H)

- **MPR-414F-PA**
  - 21.3" × 21.9 × 70.6"
  - 540 × 557 × 1794 mm

- **MPR-715F-PA**
  - 31.5" × 24.2" × 35.2"
  - Each Chamber 15.1" × 21.7" × 16.6"
  - Each Chamber 385 × 552 × 422 mm

### Notes
- Minor refrigerator uniformity deviation falls outside CDC parameters for vaccine storage. This cabinet is ideal for general pharmacy use.
PANASONIC MDF SERIES FREEZERS

Medical Grade Lab Freezers

Panasonic Pharmacy and Biomedical freezers include design and performance properties for storage of pharmaceuticals and biomedical materials that require freezing temperatures for long-term storage at -20°C to -30°C (-4°F to -22°F).

Features

Select from 5.5 to 24.4 cu.ft. storage capacities. Freezer temperature achieved through:

- Cold wall design*
- Forced air*
- Cold evaporator shelf design*
- Unique double door freezer
- Minimizes cold air loss during door opening
- Quick temperature recovery after door opening

*Method of achieving temperature depends on the model

FOR BULK STORAGE OF FROZEN PHARMACEUTICALS

- Cold wall design and shelf evaporator cooling require manual defrost
- Unit cooler with fan and electronic automatic defrost
- Cabinet temperature increase is minimal during automatic defrost
- Straight line, constant temperature achieved with cold wall or shelf evaporator cooling
### Undercounter Model Upright Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Top Chamber</th>
<th>Bottom Chamber</th>
<th>Upright</th>
<th>Upright</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF-L6111W-PA</td>
<td>9.7 (274)</td>
<td>17.0 (482)</td>
<td>22.0 (623)</td>
<td>24.4 (690)</td>
</tr>
<tr>
<td>MDF-U334-PA</td>
<td>-18°C to -30°C</td>
<td>-20°C to -30°C</td>
<td>-15°C to -30°C</td>
<td>-18°C to -30°C</td>
</tr>
<tr>
<td>MDF-U5312-PA</td>
<td>-30°C</td>
<td>-30°C</td>
<td>-30°C</td>
<td>-30°C</td>
</tr>
<tr>
<td>MDF-U731-PA</td>
<td>Solid Single Door</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MDF-U731M-PA</td>
<td>(4) Shelf Evaporator</td>
<td>(3) Shelf Evaporator &amp; Bottom</td>
<td>Forced Air</td>
<td>Cold Wall</td>
</tr>
<tr>
<td></td>
<td>+35°C</td>
<td>+35°C</td>
<td>+35°C</td>
<td>+35°C</td>
</tr>
</tbody>
</table>

#### Features

- **Manual**: 1°C Increments (One - setpoint temperature maintained in both chambers)
- **LED**: High/Low, Door Ajar, Power Failure
- **Total Control System**: 0 to 5 Volts DC
- **Lockable with Key Pad**: Key Lock, Hasp for Pad Lock, Styrene Resin, Zinc Galv Steel with Acrylic Finish
- **Exterior Material**: Resin Bonded Galv Steel, Zinc Galv Steel with Acrylic Finish
- **Electrical**: 115 V, NEMA 5-15P
- **Exterior Dimensions**: 23.6” × 25.7” × 34.6” **

**Total Control System**: Total Control System

- **(4) Fixed Perforated Std**
- **(3) Fixed Perforated Std**
- **(1) Fixed Perforated Std**
- **(4) Adjustable Wire Shelves Std**
- **(4) Adjustable Wire Shelves Std**

**Lockable with Key Pad**

- **2 for Securing Unit in Place - Front of Base**
- **2 Swivel / 2 Fixed**
- **Key Lock, Hasp for Pad Lock - Both Doors**
- **1.1” (30 mm) Dia**
- **Styrene Resin**

**Total Control System**

- **(4) Large Std**
- **(6) Medium Std**
- **(4) Large Std**
- **(4) Adjustable Wire Shelves Std**
- **Optional**

- **2 for Securing Unit in Place - Front of Base**
- **2 Swivel / 2 Fixed**
- **Key Lock, Hasp for Pad Lock - Both Doors**
- **2 [Left Side and Top]**
- **1.1” (30 mm) Dia**
- **Styrene Resin**

**Exterior Material**

- **Resin Bonded Galv Steel**
- **Zinc Galv Steel with Acrylic Finish**

**Exterior Dimensions**: 23.6” × 25.7” × 34.6” **

- **Exterior Table**: 1.1” (30 mm) Dia
- **Styrene Resin**

**Exterior Material**: Zinc Galv Steel with Acrylic Finish

**Exterior Dimensions**: 23.6” × 25.7” × 34.6” **

- **Exterior Table**: 1.1” (30 mm) Dia
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LABALERT® MONITORING
Panasonic offers a real-time monitoring and notification system developed to protect your stored product investment. Panasonic LabAlert provides independent wireless monitoring for storage refrigerators and freezers. The secure, cloud based solution offers comprehensive monitoring with customizable dashboards for easy user interface. No software installation is required. Supports FDA 21 CFR Part 11 compliance. LabAlert is scalable to meet corporate enterprise standards for pharmaceutical/vaccine efficacy and safety. It works across multiple units, multiple locations and easily adapts to growing facilities.

CALIBRATION SERVICES
Panasonic offers both pre-delivery and on-site calibration services. Services are specifically designed to verify quality compliance and ensure display accuracy to manufacturing and regulatory specifications. Procedures and documentation are designed to conform to NIST/ISO requirements. ISO/IEC 17025* calibration is available upon request.

VALIDATION SERVICES
Panasonic offers a full line of validation services that range from pre-delivery to comprehensive on-site equipment qualification. Services are specifically designed to verify quality compliance to manufacturing and regulatory specifications. Advanced technology is integrated alongside contemporary processes for turnkey solutions using NIST/ISO calibrated instrumentation for calibration, validation and qualification in accordance with current GxP regulations (GMP, GLP, GCP), ISO, CAP, AABB, CLIA, USDA, local standards and other regulations. Panasonic offers assistance in product selection that meets customer applications, including equipment, service and support.

*ISO/IEC 17025:2005 specifies the general competence to carry out testing and/or calibration including sampling. It covers testing and calibration performed using standard methods, non-standard methods and laboratory-developed methods. (Ref: ISO Web Site, May 2016).

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Panasonic Healthcare Corporation of North America is a subsidiary of Panasonic Healthcare Co., Ltd., Tokyo, Japan, and offers laboratory equipment and services to biopharmaceutical, life sciences, academic, healthcare and government markets. For information call Panasonic Healthcare Corporation of North America at 800-858-8442 or visit www.panasonic-healthcare.com/us/biomedical

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