Pharmaceutical Refrigerator with Freezer

+2°C to +14°C Refrigerator
-30°C to -20°C Freezer

6.3 cu.ft. | 179 L
2.8 cu.ft. | 80 L

The PHCbi brand Pharmaceutical Refrigerator with Freezer offers a complete storage solution in one cabinet. The MPR-N250FH/FSH-PA combines high-performance refrigeration with a -30°C freezer in a small footprint for flexible, reliable and convenient vaccine and biological material storage. Refrigerated and frozen products can be stored within a single footprint. Natural refrigerants minimize environmental impact for a sustainable storage solution.

Excellent Uniformity

The refrigerator and freezer compartments provide excellent uniformity throughout. Temperatures remain stable wherever products are stored, even in a loaded chamber. The refrigerator is engineered to prohibit inadvertent freezing of temperature sensitive vaccines.

Independent Refrigeration Systems

The single cabinet includes two independent temperature controlled chambers with separate refrigeration systems. The refrigerator section operates on a high efficiency inverter compressor running at variable speed upon demand to reduce energy consumption. New EPA SNAP compliant refrigerants help meet facility sustainability goals and lower global environmental impact.

Security Control and Monitoring

The microprocessor controller and softkey interface are door mounted at eye level. An OLED alphanumeric display provides convenient, secure user management. Refrigerator and freezer temperature can be displayed simultaneously or individually. Minimum/maximum temperatures are automatically displayed every 24 hours. All alarm conditions are displayed and recorded. Data transfer is available through a USB port.

Temperature Distribution

Temperature uniformity is maintained at all storage levels even at full load conditions. This provides even, horizontal airflow across the solid adjustable glass shelves at all shelf levels to assure optimum temperature uniformity under full load conditions.

Natural Refrigerants

Hydrocarbon refrigerants help achieve facility sustainability objectives by minimizing any environmental impact without compromising cooling performance, ambient tolerance and recovery speeds following door openings.

Easy to Use, Intuitive Operation

Adjustable audible and visual alarms are standard, along with integrated system diagnostics and predictive performance supervision. The password-protected control panel provides security and minimizes risk of accidental changes in setpoint.

PHC Corporation of North America
**Slim Profile Cabinet Design**

The space saving, ergonomic design comes in a solid door model (MPR-N250FSH-PA) or model MPR-N250FH-PA with a triple-paned viewing window. The compact footprint permits easy installation in narrow aisles and hallways for greater flexibility. Independent key lock increases security on the refrigerator and freezer compartments.

**Maximized Storage**

Both compartments of this model feature a spacious capacity within the overall small footprint. The refrigerator compartment has an effective capacity of 179L and includes three adjustable, tempered glass shelves. The solid shelf construction eliminates tipping of bottles and vials. A rear wall LED light is included for product viewing. The freezer compartment has an effective capacity of 80L and includes one hard steel wire polyethylene coated shelf.

Model MPR-N250FSH-PA with solid door for storage of light-sensitive products.

**Defrost Methods**

Both models include manual defrost for the freezer compartment. The refrigerator compartment includes an automatic defrost, which activates electronically when needed. The refrigerator evaporator operates above freezing at all times. This prevents vaccines and lab supplies from freezing.

**Dimensions**

![Image of dimensions](image_url)

<table>
<thead>
<tr>
<th>Unit</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.1</td>
<td>640</td>
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<tr>
<td>19.4</td>
<td>492</td>
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<td>16.9</td>
<td>430</td>
</tr>
<tr>
<td>14.6</td>
<td>370</td>
</tr>
<tr>
<td>16.2</td>
<td>413</td>
</tr>
<tr>
<td>15.3</td>
<td>390</td>
</tr>
<tr>
<td>20.3</td>
<td>516</td>
</tr>
<tr>
<td>7.2</td>
<td>180</td>
</tr>
</tbody>
</table>

Illustration shown for Model MPR-N250FH-PA. Dimensions apply to models with windows and models with solid doors.

**Electrical and Noise Level**

- **Power Supply**: 115V, 60Hz, 10A; NEMA 5-15P required; NEMA 5-15R receptacle
- **Noise Level**: dB(A)

**Technical Features**

- **Cooling Performance**: +2 to +14 °C or -20 to -30 °C
- **Temperature Setting Range**: +2 to +14 °C or -20 to -30 °C
- **Door Open Alarm**: Included

**Controls**

- **Controller**: Microprocessor, Softkey data entry, password protected
- **Display**: White graphic OLED
- **Temperature Display**: Select refrigerator, freezer or concurrent
- **USB Logging Function**: Logs 3 months of data at 1 minute intervals

**Refrigeration**

- **Compressor**: (1) 120V, inverter
- **Natural Refrigerant**: HC R-600a / HC R-290

**Power Failure Protection**

- **Events**: Power Failure
- **Options**: Power Failure with Optional Battery Kit

**Cooling System**

- **Power Failure Protection**: Power Failure with Optional Battery Kit
- **Sensor**: V-B-L
- **Door Open**: V-B-A-D

**Temperature Monitoring**

- **Remote Alarm**: Included

**Additional Features**

- **Black-Out Panel for Photo-sensitive Product**: MPR-25BP-PW
- **Battery Kit for Power Failure Alarm**: MPR-48BP-PW
- **Analog Temperature Transmitter**: MTRAD06MAC

**Optional Communication System**

- **Wireless, Cloud-Based, Automatic Data Management**: LabAlert® Monitoring System

Specifications are subject to change without notice. For latest specification information contact PHC Corporation of North America at info@us.phchd.com.