Pharmaceutical Refrigerator

+2°C to +14°C

The MPR-N200H-PA Pharmaceutical Refrigerator offers a purpose-built, space-saving design engineered to meet prevailing vaccine guidelines. It utilizes energy-saving technologies and a robust, synchronous refrigeration system to deliver precise temperature control and uniformity for biologics, vaccine, and reagent storage.

Excellent Uniformity
The refrigerator provides excellent uniformity throughout the cabinet. Temperatures remain stable wherever products are stored, even in a loaded chamber. The refrigerator is engineered to prohibit inadvertent freezing of temperature sensitive vaccines.

Energy Saving Design
The PHCbi brand proprietary inverter compressor algorithm (ICA) modulates the compressor motor speed according to temperature need. Unlike standard on/off compressors, combined with energy-saving and environmentally friendly natural refrigerants the MPR-N200H-PA produces less heat, lower noise, and lower energy consumption.

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. Temperature readings can be displayed in single digits or 0.1 increments. Minimum/maximum temperatures can be easily viewed. All alarm conditions are displayed and recorded. Data transfer is available through a USB port.

Versatility
This slim design fits in the smallest of footprints available in your workspace. Triple pane low E glass avoids condensation. Optional blackout panel is available to protect light-sensitive products. Energy-saving design installs into a standard electrical outlet. Four adjustable shelves provide maximum storage flexibility.

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 data archiving with minimum/maximum temperature readings, supporting CDC clinical recording recommendations, and reduces the risk of accidental change in set point.

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.

PHC Corporation of North America
MPR-N200H-PA

**Pharmaceutical Refrigerator**

**Cycle Defrost**

**AT23°C SV 5° 9 Points**

**Dimensions**

- **Model Number**: MPR-N200H-PA
- **External Dimensions (W x D x H)**: 18.2 x 22.9 x 68.3 (750 x 580 x 1725) inches | mm
- **Internal Dimensions (W x D x H)**: 14.9 x 18.75 x 52.4 (380 x 477 x 1333) inches | mm
- **Volume**: 2.6 | 218 cubic feet | liters
- **Net Weight**: 141 | 64 lbs | kg

**Performance**

- **Uniformity**: ±4°C
- **Temperature Control Range (Pre-std)**: 0°C to +14°C
- **Power Consumption**: 1.73 kWh/Day
- **Btu Nominal Per Hour**: 358
- **Noise Level**: 40 dB(A)
- **Ambient Temperature Operating Range**: -5°C to +40°C

**Control**

- **Controller**: Microprocessor with non-volatile memory
- **Temperature Display**: Digital white graphic OLED, 1°C resolution (increment of 0.1°C)
- **Controller Security**: Lockable with Keypad
- **Temperature Sensor**: Thermostat

**Refrigeration**

- **Cooling Method**: Forced air circulation
- **Defrost Method**: Cycle defrost
- **Refrigerant**: 60g R-600a
- **Insulation**: PUF (CFC/PFC Free)

**Construction**

- **Exterior Material**: Colored Steel
- **Interior Material**: ABS Resin
- **Outer Door**: Solid Swing Door with viewing glass
- **Outer Door Lock**: 4 Upper / 1 Lower
- **Shelves**: 4 Upper / 1 Lower
- **Shelf Dimensions (W x D)**: 12.8 x 13.3 (325 x 339) inches / 11.8 x 11.8 (300 x 300) inches
- **Max. Load per Shelf**: 44lbs (20kg)
- **Access Port, Qty. Position Diameter**: 1 x 1.2" (30mm) (Middle right back side above evaporator)
- **Casters / Leveling Legs**: 4 (2 leveling legs)
- **Interlock Light**: LED

**Standard Accessories**

- **Key**: 2
- **Manual**: Operators

**Alarms**

(V = Visual Alarm, B = Buzzer Alarm, R = Remote Alarm, A = Adjustable, L = Logged, D = Settable delay)

- **Power Failure**: R
- **High and Low Temperature**: V-B, R-A
- **Air Circulation Alarm**: V-B, R-A
- **Door Open**: V-B

**Electrical**

- **Power Supply**: NEMA 5-15P 115V/60 Hz 8 02 cord length
- **Running Amps / Max Amps**: 1.8 / 2.8

**Options**

- **Circular Type Chart Recorder**: MTR-956
- **Chart Paper**: C781717
- **Ink Pen**: R52
- **Battery Kit For Power Failure Alarm**: 1 MPR-4882-PW
- **Blackout panel with opaque tinting**: 1 MPR-258P-PW
- **Shelves / Racks**: MPR205RL

**Optional Communication Systems**

- **Wireless, Cloud-Based, Automatic Data Management**: LabAlert® Monitoring System
- **4-20mA output module**: MTR420MAC - Self Powered / MTR4CMAC - Loop Powered

**Quality Management System**

- **Certification**: CE (CAN/USA)
- **Warranty**: 3 years parts and labor, 5 years compressor parts only

Specifications are subject to change without notice. For latest specification information contact PHC Corporation of North America at info@us.phc.com. Performance data herein is based on independent testing at time of publication.