

MPR-715F-PA

Biomedical Refrigerator with Freezer



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Uniformity with Forced Air Circulation

Fan-forced air circulation in the refrigerator allows for precise temperature uniformity. Efficient temperature recovery properties allow for minimal temperature fluctuations around set points.

Sample Security Design

Refrigerator evaporator operates above freezing temperatures, therefore reducing the need for defrost and avoiding exposing products to freezing temperatures. Ideal for preservation of enzymes, biological samples and vaccines storage.

Temperature Controls and Sensors

Accurate temperature sensors inside the refrigerator and controllers built specifically to maintain a set temperature within the 2°C to 8°C temperature range. Alarms and temp monitoring for quick notification of adverse operating conditions.

Dedicated Refrigeration



Uniformity



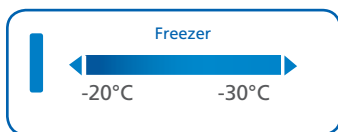
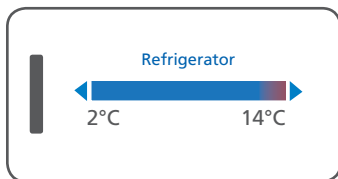
Optimum Footprint



14.7 cu.ft. (415 liters) Ref | 6.2 cu.ft. (176 liters) Frzr

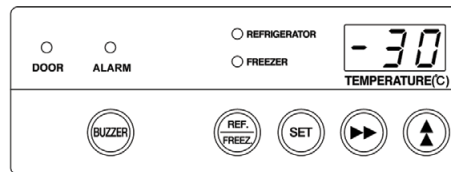
Refrigeration Systems

Separate refrigeration systems and compressors allow differential control of individual refrigerator and freezer compartments, allowing freezer section to maintain temperatures as low as -30°C.



Microprocessor Controls

Comprehensive **setpoint, alarm, monitoring and diagnostic function** are maintained by a microprocessor controller with digital display of all critical functions.



Validated Storage

MPR refrigeration systems are designed to assure stored product safety to meet **regulatory guidelines** for vaccine and biologicals.

| | MPR Series |
|---------------------|------------|
| CDC RECOMMENDATIONS | ✓ |
| FDA STANDARDS | ✓ |
| AABB GUIDELINES | ✓ |
| ICH GUIDELINES | ✓ |
| USDA GUIDELINES | ✓ |



Biomedical Refrigerator with Freezer

The MPR Series biomedical refrigerator with freezer combines high performance refrigeration, control and alarm/monitoring systems with energy efficient, cost-effective cabinet design.

- Microprocessor controller and interior forced air circulation in the refrigerator.
- Safe and secured storage behind a lockable door.
- Integrated alarm functions.
- One unit with dual temperature zone needs only minimal installation space.
- Double-pane windows with heat reflection film reduces the condensation.
- Calibration adjustment through the control panel.
- MPR series combo units have two separate specially designed compressors for the refrigerator and the freezer sections and offers quiet operation.
- Optional wireless cloud-based monitoring through LabAlert™.

SAFETY FUNCTIONS

| SAFETY FUNCTIONS | MPR Series |
|--------------------------|------------|
| TEMPERATURE ALARM | ✓ |
| OVERHEATING PROTECTION | ✓ |
| MEMORY BACK-UP FUNCTION | ✓ |
| SELF-DIAGNOSTIC FUNCTION | ✓ |
| KEY LOCK SWITCH | ✓ |

Cycle Defrost

Unique cycle defrost (refrigerator only) initiates only as required and maintains internal temperature uniformity without fluctuations.

Key Advantages of MPR Series for Vaccine Storage

- Accurate temperature sensors maintain a set temperature within the 2°C to 8°C (refrigerator) and -20°C to -30°C (freezer) temperature range.
- Refrigerator evaporator operates at above freezing temperatures, therefore reducing the need for defrost.
- Alarms and temperature monitoring for quick notification of adverse operating conditions.
- Fan-forced air circulation for precise temperature uniformity in the refrigerator.
- Minimal fluctuations and efficient temperature recovery properties.

General Applications - Freezer

Restriction enzyme and reagent preservation

-20°C



Biological sample preservation

-30°C



Vaccine preservation

-30°C



| MODEL | MPR-715F-PA |
|-----------------------------------|--|
| AIR TEMPERATURE UNIFORMITY | +/- 3°C (for 2°C to 14°C in the Refrigerator) +/- 5°C (for -35°C to -15°C in the Freezer) |
| EXTERIOR DIMENSIONS (W X F-B X H) | 35.4" x 28.1" x 75.2" (900 x 715 x 1910 mm) |
| EFFECTIVE CAPACITY | Refrigerator: 14.7 cu.ft. (415 liters) Freezer: 6.2 cu. ft. (176 liters) |
| EXTERIOR FINISH | Polyester resin finish baked on zinc galvanized steel |
| INTERIOR DIMENSIONS | Ref-31.9" x 24.2" x 35.2" (810 x 615 x 894 mm) Frzr-30.3" x 21.7" x 16.6" (770 x 552 x 422 mm) |
| INTERIOR FINISH | PCM Painted Steel |
| INSULATION | CFC-Free rigid polyurethane foamed in place |
| NET WEIGHT | 357 lbs. (162 kg.) |
| TEMPERATURE CONTROL | Microprocessor L.E.D. Display |
| COOLING METHOD | Refrigerator: Fan-Forced Air Circulation Freezer: Direct Cooling (manual defrost) |
| POWER CONSUMPTION | 510W |
| REFRIGERANT | R-134a (HFC) |
| SHELVES | Refrigerator: 3 (55 lbs. per shelf) Freezer: 2 (33 lbs. per shelf) |
| ALARMS AND SAFETY | High/low temperature alarm, Door ajar alarm, Memory back-up during power failure, Self-diagnostics, Remote alarm contacts (N.O./N.C., DC30V, 2A), Door lock with key |
| CASTERS | 4 Casters with 2 adjustable leveling feet |
| ACCESS PORT | 30 mm (rear) for both refrigerator and freezer sections |



PHC Corporation of North America
 1300 Michael Drive, Suite A, Wood Dale, IL 60191
 Toll Free USA (800) 858-8442, Fax (630) 238-0074
www.phchd.com/us/biomedical

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