

Pharmaceutical Refrigerators

Uniformity with Forced Air Circulation

Fan-forced air circulation allows for precise temperature uniformity, even after frequent door openings. Ideal for highly regulated storage of pharmaceuticals, medicines, vaccines, and other temperature-sensitive materials.

Remarkable Cooling Efficiency

A highly efficient hermetic compressor provides efficient cooling and maintains set temperature level.

Ergonomic Design

The ergonomic design provides a clear view of stored items through the large framed windows. The slim profile allows for easy reach retrieval of all products.







17.3 cu.ft.



Operating Range

The digital display communicates the temperature readings in the gradients of 1°C. The setable temperature for pharmaceutical refrigerators ranges from 2° to 14°C.

Stable Temperature





MicroprocessorControls

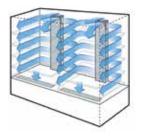
Comprehensive setpoint, alarm, monitoring, and diagnostic functions are based on Panasonic-built microprocessor controller with digital display of all input/output functions, adjustable temperature range 2°C to 14°C.





Validated Storage

Panasonic's plenum design allows for uniform cold air flow distribution throughout the chamber to ensure temperature uniformity. This is essential for validated storage requirements.





Pharmaceutical Refrigerators

Panasonic offers an integrated solution for precise storage temperatures, which are necessary for pharmaceuticals, medicines, vaccines, and other temperature-sensitive biologicals storage.

Ergonomic Design

The ergonomic design of the MPR series refrigerators provides a clear view of stored items through the large framed windows. The slim profile allows for easy reach retrieval of the products.

Safety

Audible and flashing LED visual alarms alert you to the unlikely event of either a high or low temperature condition. If the inside temperature rises abnormally, an overshooting prevention circuit automatically switches off the fan motor or heater.

Effective Temperature Control

A thermistor sensor monitors temperature inside the chamber. The microprocessor and the electronic temperature controls ensure that the set temperature is maintained. Even

with frequent door openings, the circulation fan provides rapid temperature adjustment for a highly reliable, stable preservation environment unaffected by ambient temperature.

Cabinet Construction

Due to the space saving design, less installation space is required. The use of two easy-to-open, double-paned sliding glass doors tightly seal to maintain uniformity.

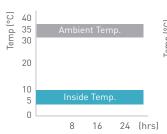
Rigid polyurethane foam insulation construction acts to keep cold air inside the unit and effectively protects against the intrusion of warm air.

Chemical resistant stainless steel interior surfaces of the cabinet ensure long lasting service for many years of use.

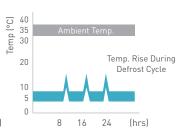
Cycle Defrost System

Defrosting is performed automatically during compressor "off" cycles by sensing frost levels. This way defrosting is performed only when required, further protecting the contents against unnecessary temperature rise. The defrosting heater also acts as an emergency heat source to prevent samples from freezing in extremely low ambient temperature conditions (below 0°C).





Conventional Refrigerator



[Set temp 5°C at 23°C ambient no load actual power consumption may vary depending on load, ambient and set temp]

| MODEL | MPR- 514 -PA | MODEL | MPR- 514R- PA |
|--------------------------------------|---|--------------------------------------|--|
| MODEL | MEIX-314-FA | MODEL | MFR-314R-FA |
| TEMPERATURE RANGE | 2°C to 14°C | TEMPERATURE RANGE | 2°C to 14°C |
| EXTERIOR DIMENSIONS (W X F-B X H) | 35.4" x 23.6" x 70.5" 900 x 600 x 1790 mm | EXTERIOR DIMENSIONS (W X F-B X H) | 35.4" x 23.6" x 70.5" 900 x 600 x 1790 mm |
| INTERIOR DIMENSIONS (W X F-B X H) | 31.5" x 18.3" x 51.2" 800 x 465 x 1300 mm | INTERIOR DIMENSIONS (W X F-B X H) | 31.5" x 18.3" x 51.2" 800 x 465 x 1300 mm |
| VOLUME | 17.3 cu.ft. (489 liters) | VOLUME | 17.2 cu.ft. (486 liters) |
| WIRE SHELVES | Adjustable | WIRE SHELVES | ½ Adjustable, ½ Roll-out |
| OUTER DOORS | 2 Sliding doors. Double paned glass window. | OUTER DOORS | 2 Sliding doors. Double paned glass window. |
| SHELVES & SLIDING RACKS | 5 Polyester coated wire shelves. (Load: 110lbs. per shelf) | SHELVES & SLIDING RACKS | 5 Polyester-coated wire shelves and sliding racks. (Load: 44 lbs. per shelf or rack) |
| COOLING METHOD | Forced cool air circulation | COOLING METHOD | Forced cool air circulation |
| COMPRESSOR | Hermetic type, output: 200W | COMPRESSOR | Hermetic type, output: 200W |
| DEFROSTING | Fully Automatic Cycle Defrost | DEFROSTING | Fully Automatic Cycle Defrost |
| POWER REQUIREMENTS | 115V/60 Hz/6.43 kwH/day, NEMA 5-15P Plug | POWER REQUIREMENTS | 115V/60 Hz/6.43 kwH/day, NEMA 5-15P Plug |
| NET WEIGHT | 311 lbs. (141 kg.) | NET WEIGHT | 324 lbs. [147 kg.] |

