

## Large Capacity Laboratory Refrigerators



MPR-721-PA | MPR-721R-PA

### Uniformity with Forced Air Circulation

Fan-forced air circulation allows for precise temperature uniformity. Efficient temperature recovery properties lead to minimal temperature fluctuations around set points.

### Unique Defrost Cycle

Electronically monitored 'cycle defrost' initiates only when needed. This minimizes temperature fluctuations during the defrost cycle.

### Design Versatility

Adjustable shelves and wide range setpoint allow for various laboratory applications, including chromatography and pharmaceutical storage.

High Performance



Uniformity



Optimum Footprint



24.2 cu.ft. (684 liters) | MDF-721R 23.7 cu.ft. (671 liters)

### Operating Range

With a temperature range of 2°C to 23°C, Panasonic's MPR Series refrigerators are ideally suited for many reagents and biologicals that require a **stable, cool temperature**, or **general cold storage environment**.

#### Stable Temperature



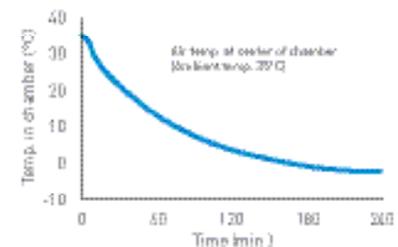
### Microprocessor Controls

The microprocessor and the electronic temperature controls ensure that **the set temperature is maintained**, without being affected by the ambient temperature.



### Performance

For frequent door openings, Panasonic's MPR Series refrigerators are equipped with powerful, hermetically sealed compressors that ensure **superior pull-down characteristics, energy efficiency, and precise temperature control**.





# MPR Series

## Large Capacity Laboratory Refrigerators

### Large Fans

The double 4.7"-diameter fans create a double flow system to ensure even temperatures throughout the cabinet. Because of this, heat spots from a powered test apparatus are minimized, while recovery characteristics after door openings remain outstanding.



### Easy-to-Manage Layout

The interior layout flexibility of the MPR Series refrigerators makes them ideal for running experiments that require changeable shelf configurations.

### Shelves and Drawers:

The shelves can be arranged to accommodate tall apparatus such as fraction collectors. These shelves are deep and strong enough to hold most apparatus.

The "R" model is fitted with stainless steel pull-out drawers. These drawers are deep enough to hold large bottles or reagent kits. They allow for convenient, and space-efficient storage.

### Alarm and Safety Features

Panasonic's MPR Series refrigerators are fitted with alarms and flashing indicator LED to warn of high and low temperature conditions.

Door locks are standard to safeguard valuable contents.

### Key Advantages of MPR Refrigerators

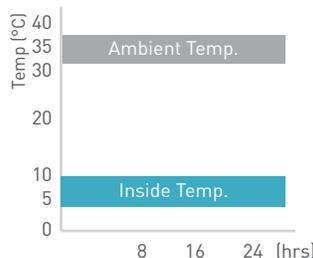
- Stable, uniform and controlled cabinet temperature, which is unaffected by outside temperature.
- Cycle defrost allows defrosting without an increase in the cabinet temperature. Also, this occurs only on demand.
- Standard alarm and safety features monitor irregular temperature fluctuations in cabinet.

MPR Series provide stable and reliable environment for exacting laboratory requirements. This makes them ideal for clinical research, pharmaceutical and industrial use.

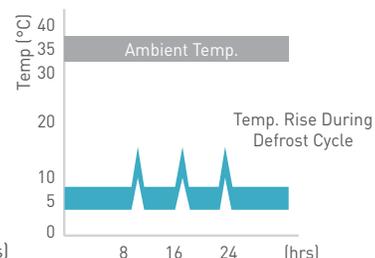
## Cycle Defrost Function

Panasonic's cycle defrost and evaporator temperature sensor system ensures that defrost occurs only when necessary and automatically, so there is no need to turn off the power for defrosting. Irregular temperature increase during defrost is minimal with no temperature spikes. The evaporation heater also doubles as protection against drops in cabinet temperature caused by a low ambient temperature.

Panasonic Cycle Defrost



Others-Auto Defrost Refrigerator



At 35°C, no load, measured at center of chamber.

MODEL	MPR-721-PA	MODEL	MPR-721R-PA
SHELVES	4 (W 565 x D 604 mm)	DRAWERS	5 (550w x 530d mm)
TEMPERATURE RANGE	2°C to 23°C temperature range, adjustable by 1°C increments	TEMPERATURE RANGE	2°C to 23°C temperature range, adjustable by 1°C increments
DEFROST SYSTEM	Forced type (cycle defrost system). Fully automatic hot pipe for automatic evaporation for chain water.	DEFROST SYSTEM	Forced type (cycle defrost system). Fully automatic hot pipe for automatic evaporation for chain water.
CAPACITY	24.2 cu.ft (684 liters)	CAPACITY	23.7 cu.ft. (671 liters)
EXTERIOR DIMENSIONS	30.3" x 32.7" x 76.8" 770 x 830 x 1955 (mm)	EXTERIOR DIMENSIONS	30.3" x 32.7" x 76.8" 770 x 830 x 1955 (mm)
INTERIOR DIMENSIONS	25.6" x 28.0" x 59.0" 650 x 710 x 1500 (mm)	INTERIOR DIMENSIONS	25.6" x 28.0" x 59.0" 650 x 710 x 1500 (mm)
NET WEIGHT	384 lbs (174 kg.)	NET WEIGHT	425 lbs (193 kg.)
DOOR	Single, Swinging, Self closing	DOOR	Single, Swinging, Self closing
ENERGY CONSUMPTION	6.04 kWh/Day (5°C at 20°C ambient temperature)	ENERGY CONSUMPTION	6.04 kWh/Day (5°C at 20°C ambient temperature)
TEMPERATURE CONTROL	Microprocessor controlled	TEMPERATURE CONTROL	Microprocessor controlled
ACCESS PORT	3 x 30 mm (2 in sides, 1 in cabinet top)	ACCESS PORT	3 x 30 mm (2 in sides, 1 in cabinet top)
ALARMS AND SAFETY	High temperature protection circuit, low temperature protection circuit, temperature lock, self diagnostics, memory backup (nonvolatile memory)	ALARMS AND SAFETY	High temperature protection circuit, low temperature protection circuit, temperature lock, self diagnostics, memory backup (nonvolatile memory)