



MPR Pharmaceutical Refrigerators

+2°C to +23°C

684 L / 671 L (R type)

The MPR-722 (shelves) and MPR-722R (drawers) pharmaceutical refrigerators deliver stable, reliable temperature control for clinical, pharmaceutical, biomedical storage and processing. Fast recovery following door openings assures safe storage even with frequent access and high ambient conditions and to remove heat loads generated by powered instruments.

Airflow Assures Quick Recovery, Interior Uniformity

Vertical, forced air circulation with blower creates a uniform temperature at all shelf or drawer levels, top to bottom and front to back. Internal shelf or drawer clearances permit positive airflow to help restore temperature to setpoint following door openings, and safely accommodates busy, high traffic demand for access to stored contents in pharmacies, clinics and hospitals.

Precision Temperature Control Protects Inventory

Because many pharmaceuticals are degraded or destroyed if accidentally frozen, it is important that temperature be adjusted to desired setpoint in accordance with drug manufacturers' insert specifications. MPR Series pharmaceutical refrigerators operate over a temperature range of 2°C to 23°C. Actual interior air temperature is displayable in 0.1°C increments.

Choose Your Inventory Management Preference

The MPR Series pharmaceutical refrigerator offers two choices in inventory management. The MPR-722 includes 4 open-wire shelves strong enough to hold bulk loads. The MPR-722R is equipped with heavy-duty, fully-extendable painted steel pull-out drawers for more convenient access to the stored product such as large bottles or reagent kits.



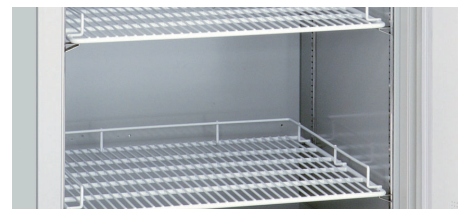
Airflow Prevents Temperature Stratification

The top-mounted air circulation blower directs air downward so it goes along the back, side and front of the load-in drawers or shelves. Regardless of location, all products are subjected to the same safe temperature to assure repeatability of stored product viability.



Microprocessor Controls Simplify Operation

A microprocessor controller monitors all functions. Setpoint is factory set at 5°C. A soft key interface allows setpoint adjustment throughout the operating range. Audible and visual warnings indicate door ajar or temperature deviation from setpoint. The large easy-to-read LED display confirms actual temperature.



Adjustable Shelves Offer Flexibility in Storage Options

Open wire shelves (shown) are adjustable to allow for loads of varying heights such as bulk storage or process equipment such as fraction collectors. The Model MPR-722R with pull-out drawers (not shown) offers a practical solution with additional ergonomic advantages.



Large Capacity Laboratory Refrigerators

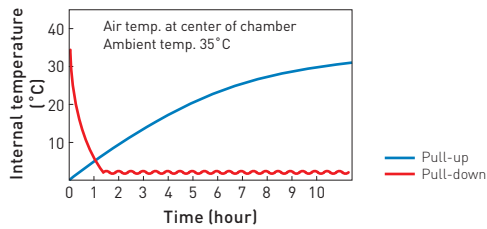
MPR-722

Cycle Defrost Function

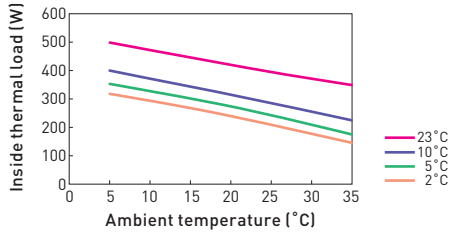
The cycle defrost and evaporator temperature sensor system ensures that defrost occurs only when necessary and automatically, so there is no need to turn off the power for defrosting. Irregular temperature increase during defrost is minimal with no temperature spikes. The evaporation heater also doubles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

Performance Data

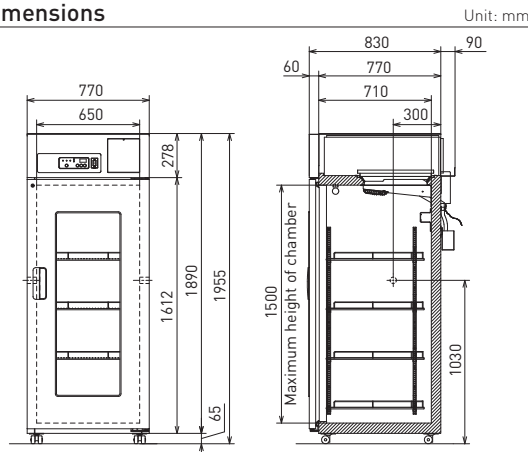
AT35°C Pull-down & Pull-up Temperature



Test of permissible inside thermal load



Dimensions



Model Number	MPR-722-PE/MPR-722-PK MPR-722-PA	MPR-722R-PE/MPR-722R-PK MPR-722R-PA		
External dimensions (W x D x H) ¹⁾	770 x 830 x 1955			
Internal dimensions (W x D x H)	650 x 710 x 1500			
Volume	684	671		
Net weight	174	193		
Performance				
Temperature control range	+2°C to +14°C ²⁾ +2°C to +23°C ³⁾			
Control				
Controller	Microprocessor with non-volatile memory (Safety Lock with keypad)			
Digital temperature display	LED			
Temperature sensor	Thermistor			
Refrigeration				
Cooling method	Forced cool air circulation			
Defrost method	Cycle defrost + forced defrost			
Refrigerant	HFC and HFO combined (CFC-Free)			
Insulation	Rigid polyurethane foamed insulation (CFC-free)			
Construction				
MPR-722 MPR-722R				
Exterior material	Painted Steel			
Interior material	Painted Steel			
Outer doors	qty 1, Double pane glass (Self closing)			
Outer door lock	Y			
Shelves	qty 4 wire shelves (polyethylene-coated, 565 x 604 mm, adjustable)	—		
Drawers	qty —	5 solid steel drawers (painted steel, 550 x 530 x 100 mm)		
Max. load - per shelf / drawer	kg 50	40		
Access port	qty 3	3		
Access port position	Left / right / top			
Access port diameter	Ø mm 30			
Casters	qty 4			
Interior light	Fluorescent lamp			
Alarms (V = Visual Alarm, B = Buzzer Alarm, R = Remote Alarm)				
Power failure	R (V-B optional) ⁴⁾			
High temperature	V-B-R			
Low temperature	V-B-R			
Door open	V-B			
Electrical and Noise Level				
Power supply	V PE: 220/230/240 PK: 220 PA: 115			
Frequency	Hz PE: 50 PK, PA: 60			
Noise level ⁵⁾	dB (A) 48			
Options				
Temperature chart recorder	MTR-0621LH-PE			
- Chart paper	RP-06-PW			
- Recorder housing	MPR-S30-PW			
Circular type recorder	MTR-G04C-PE			
- Chart paper	RP-G04-PW			
- Ink pen	PG-R-PW			
- Recorder housing	MPR-S7-PW			
External mounting power failure alarm	MPR-48B1-PW ⁴⁾			
Blackout panel	MPR-72BP-PW			
Optional Communication Systems				
Digital interface (RS232C/RS485) ⁶⁾	MTR-480-PW			
Ethernet interface (LAN) ⁶⁾	MTR-L03-PW			
Quality Management System				
Certification	-PA/-PE	-PK	-PA/-PE	-PK
	ISO9001	ISO13485	ISO9001	ISO13485

¹⁾ External dimensions of main cabinet only, excluding external projections - See dimensions drawings on website for full details
²⁾ Air temperature measured at refrigeration compartment centre at AT; -5°C to 0°C, no load
³⁾ Air temperature measured at refrigeration compartment centre at AT; 0°C to 35°C, no load
⁴⁾ Remote alarm includes optional power failure alarm MPR-48B1-PW (V-B alarm)

⁵⁾ Nominal value - Background noise 20 dB (A)
⁶⁾ Only for MTR-5000 (data acquisition system) users.
 • Appearance and specifications are subject to change without notice.
Caution: PHC Corporation guarantees this product under certain warranty conditions. However, please note that PHC Corporation shall not be responsible for any loss or damage to the contents of the product.



Preservation Equipment, Experimental Environment Equipment, Dispensary Equipment, Culturing Equipment and Drying & Sterilising Equipment for General Laboratory use
 The management of the design, development, production and servicing of the above.



Freezers, Refrigerators, Incubators, and Drying and Sterilising Equipment for Medical use
 The management of the design, development, production and distribution of the above.



PHC Corporation Biomedical Division is certified for:
Environmental management system: ISO14001

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