PHCBI

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.

MPR-722   MPR-722R

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.
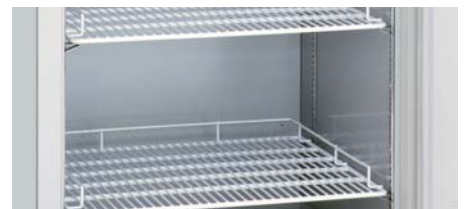
Airflow Prevents Temperature Stratification

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.

PHC Corporation, Biomedical Division

Life Science
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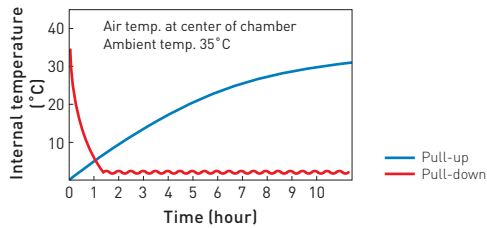# Large Capacity Laboratory Refrigerators
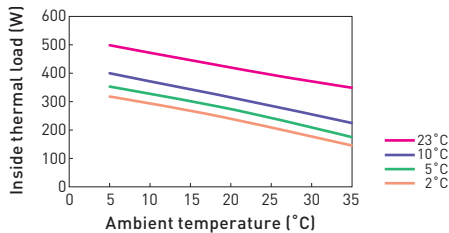
MPR-722

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.
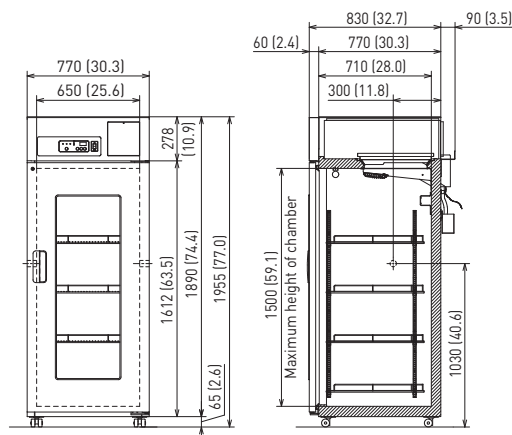
Performance Data

AT35°C Pull-down & Pull-up Temperature

Air temp. at center of chamber
Ambient temp. 35°C

— Pull-up
— Pull-down

Test of permissible inside thermal load

— 23°C
— 10°C
— 5°C
— 2°C

Dimensions

Unit : mm (inch)

Model Number		MPR-722-PE/MPR-722R-PE
		MPR-722-PK, MPR-722-PR/MPR-722R-PK, MPR-722R-PR
External dimensions (W x D x H) [1]	mm	770 x 830 x 1955
Internal dimensions (W x D x H)	mm	650 x 710 x 1500
Volume	litres	684 (MPR-722) / 671 (MPR-722R)
Net weight	kg	174 (MPR-722) / 193 (MPR-722R)
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
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	
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: 230/240 V, 50 Hz / PK/PR: 220 V, 60 Hz
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	ISO 9001

[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; -5ºC to 0ºC, no load
[3] Air temperature measured at refrigeration compartment centre at AT; 0ºCto 35ºC, 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.

ISO 14001
JACO
JAB CM021
UKAS MANAGEMENT SYSTEMS 051
EC97J1224

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

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