

MPR-S1201XH-PA | MPR-S1201RXH-PA

TwinGuard® ECO Pharmaceutical Refrigerator

2°C to 14°C

41.1 cu.ft. | 1165 L
40.8 cu.ft. | 1155 L



MPR-S1201RXH-PA

MPR-S1201XH-PA

TwinGuard ECO Series Pharmaceutical Refrigerators provide twice the sample protection for double the peace of mind. Two independent cooling circuits work together, both independently and concurrently, to provide a comprehensive solution to potential challenges, helping to ensure the continuity and safety of your precious contents. The cutting-edge refrigeration system helps ensure reliable, uniform temperature control. Natural HC refrigerants and state of the art inverter-controlled compressors achieve significant reduction in power consumption and greater uniformity than predecessor models.

TwinGuard (Dual Cooling) Ensures Stable In-Chamber Temperature

This model houses dual independent refrigerating circuits within a single unit. In the event of a malfunction in one circuit, the second circuit seamlessly takes over, steadfastly sustaining the in-chamber temperature at setpoint*. This dual safety feature acts as a fail-safe mechanism, providing enhanced security for the preservation of vital stored items.

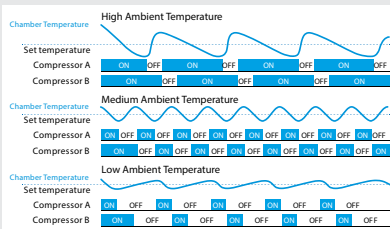
*Factory 9 point temperature testing at 5V 5°C (±3°C) in AT 23°C.

Precision Cooling: Intuitive Control and Alerts

Experience optimized control with our cutting-edge refrigerator technology. Seamlessly enhancing visibility and operation, the microprocessor controller and OLED display ensure intuitive use. Conveniently manage temperatures in precise 0.1°C increments, accessing minimum and maximum readings effortlessly for the past 12 or 24 hours.

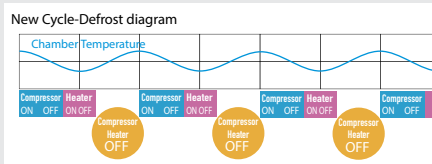
Safe & Secure Storage

Standard features include adjustable audible and visual alarms, providing a flexible alert system tailored to your needs. The password protected control panel provides security. Alarm conditions are promptly displayed and meticulously recorded for USB data retrieval.



In-Chamber Temperature Control Adapts To Ambient Temperature

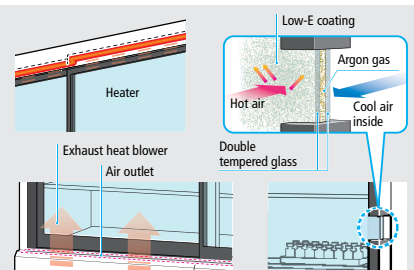
An intelligent and adaptive compressor control mechanism helps ensure energy efficiency while maintaining optimal performance based on environmental conditions.



* May differ from actual operation graph.

Energy Efficient Performance

Natural HC refrigerants, inverter-controlled compressors, and a new Cycle-Defrost system combine to improve temperature control. Peak-to-peak measurements at 9 positions inside the chamber indicate temperature distribution within 2°C to 8°C.

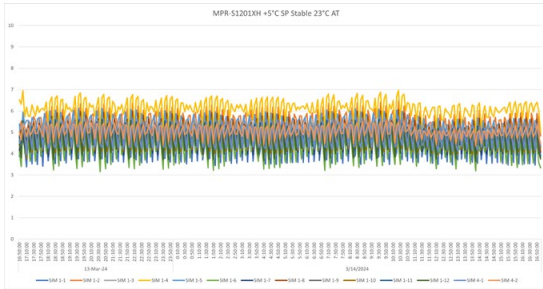


Enhanced Condensation Mitigation

The thermal, double-pane sliding glass door with Low-E coating is thoughtfully engineered to enhance energy efficiency and shield stored items from heat transfer through the window and prevent moisture formation on the glass surface.

Performance Data

Peak to Peak Measurements at 9 Positions

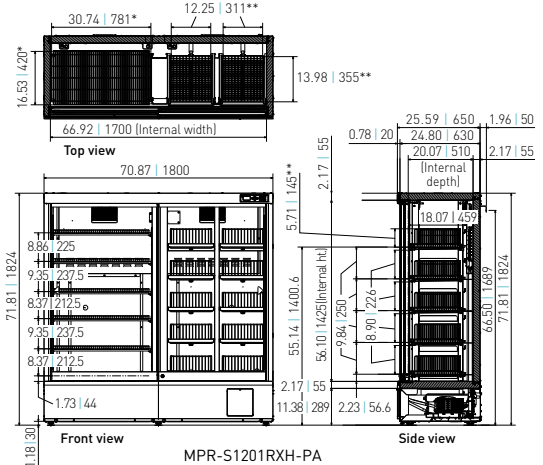
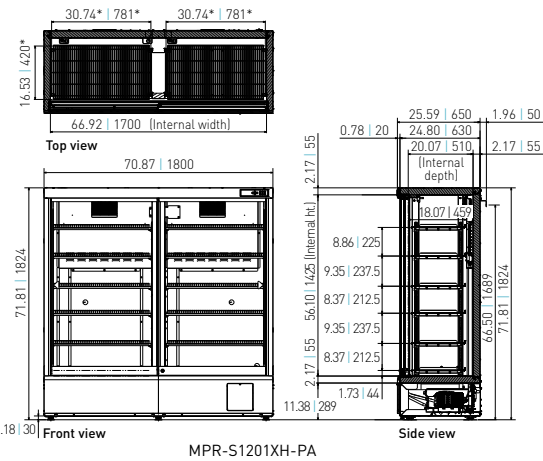




* May differ from actual operation graph.

Dimensions

Unit: inch | mm

*Shelf dimensions
**Drawer dimensions



Model Number		MPR-S1201XH-PA	MPR-S1201RXH-PA
External Dimensions (W x D x H) ¹⁾	inches mm	70.9 x 25.6 x 71.8 1800 x 650 x 1824	
Internal Dimensions (W x D x H)	inches mm	66.9 x 20.1 x 56.1 1700 x 510 x 1425	
Volume	cu.ft. liters	41.1 1165	40.8 1155
Net Weight	lbs kg	585 265	611 277
Performance			
Temperature Control Range (Preset)	°C		+2 to +14 (+5)
Uniformity ²⁾	°C		±3
Power Consumption ²⁾	kWh/Day		3.18
BTU Nominal	btu/hr		270.16
Noise Level ³⁾	dB(A)		42
Ambient Temperature Operating Range	°C		-5 to 35, humidity: 80% RH or less
Control			
Microprocessor Controller, Adjustable	°C		Increments of 0.1
Digital Temperature Display			OLED with alphanumeric messaging
Controller Security ⁴⁾			Lockable with keypad
Temperature Sensor			RTD
Refrigeration			
Cooling Method			Forced air (fin and tube)
Defrost Method			Sensor initiated cycle defrost
Refrigerant Type			R-600a (45g x 2)
Insulation			Rigid polyurethane foamed-in place
Construction			
Exterior Material			Painted steel
Interior Material			Painted steel
Outer Door	qty	2 (highly insulated double glass door with tempered glass)	
Outer Door Lock		Included	
Shelves	qty	12 adjustable, full width - wire	6 adjustable, left side-wire
Sliding Drawer Racks	qty	-	10 right side - wire
Shelf Dimensions (W x D x H)	inches mm	30.7 x 16.5 x 0.9 781 x 420 x 23	12.2 x 14.0 x 5.7 311 x 355 x 145
Max. Load - Per Shelf	lbs kg	110 50	44 20
Access Port	qty	3, back (right middle, right bottom, left middle)	
Access Port Diameter	inches mm		1.18 30
Casters	qty		6
Leveling Legs	qty		3
Interior Light			LED
Standard Accessories			
Key	set		2 keys included
Manual			Operators
Alarms (V = Visual Alarm, B = Buzzer Alarm, R = Remote Alarm, A = Adjustable, L = Logged)			
Power Failure ⁵⁾			R
High and Low Temperature			V-B-R-A-L
Freeze Warning (Display 0° or Lower)			V-B-R
Door Open			V-B
Electrical			
Power Supply	 		115V, NEMA 5-15P, 60HZ, 8 ft cord length
Running Amps Max Amps			1.2 5.5
Options			
Circular Type Chart Recorders			MTR-G04A-PA (requires MPR-S7-PW)
Chart Paper			RP-G04-PW
Ink Pen			PG-R-PW
Battery Kit for Power Failure Alarm			MPR-48B2-PW
Black Out Panels - Opaque			BPANELS1201*
Extra Shelf with Support Clip	1		MPRS500SLF
Optional Communication System			
Wireless, Cloud-Based, Automatic Data Management			LabAlert® LabSVIFT™ (Gen 3 Compatible)
4-20mA Output Module			MTR420MAC- Self Powered* MTR420MAL- Loop Powered*
Quality Management System			
Certification			QPS Listed Energy Star Listed
Warranty ⁶⁾			3 years parts and labor

¹⁾ Exterior dimensions of main cabinet only, excluding external projections. See dimensions drawings on website for full details.
²⁾ 3rd party testing lab using 9 temperature points with 75°F ambient temperature.
³⁾ Nominal value - background noise 20 dB(A).
⁴⁾ Password Protection
⁵⁾ Remote alarm activates at power failure, for messaging and logging must purchase accessory MPR-48B2-PW (B-V alarm).
⁶⁾ Current warranty offered at time of printing and may be subject to change, US and Canada only.
 *Manufactured by others

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



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.phcd.com/us/biomedical

