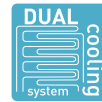


TwinGuard ECO

Pharmaceutical Refrigerator 2°C to 14°C



1165 L / 1155 L

Our TwinGuard Pharmaceutical Refrigerators with sliding doors, perfectly preserve samples, reagents, and pharmaceuticals through high-reliability temperature control. Use of natural HC refrigerants combined with inverter controlled compressors, reduces power consumption by approx. 77% compared with existing models.



Ultimate Sample Protection

A single unit incorporates two independent refrigerating circuits. Should one circuit experience a problem, the other circuit will continue to maintain in-chamber temperature at $SV 5^{\circ}\text{C} \pm 3^{\circ}\text{C}$. The double-safe circuits ensure preserving the crucial stored items with greater safety.

Improved Sustainability

Natural HC refrigerants, inverter controlled compressors, new Cycle Defrost system, together with enhanced sliding glass doors design, combine to improve temperature management and increase energy efficiency.

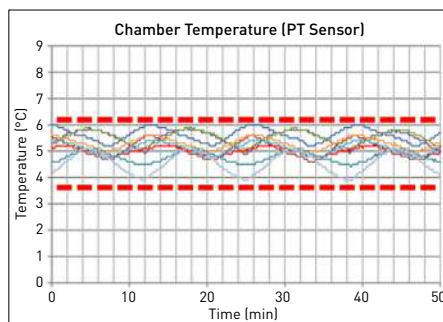
User-friendly Design

The ergonomic design provides a clear view of stored items through the large framed windows. The slim profile allows easy retrieval, and the selfclosing sliding doors makes them ideal for limited spaces.



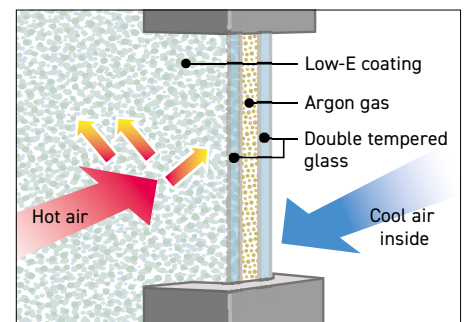
Environmentally Friendly and Energy Saving

2 Refrigeration Systems operate in an change ON/OFF fashion for optimum pattern, "deciding" for the ideal operation. Compressor A and B are controlled on ideal operating patterns, in order to minimize power consumption.



Improved temperature management

Due to the new inverter compressors, the speed can be adjusted to accurately maintain the chamber temperature and control it peak to peak: 2.1°C



Well Insulated Chamber

The high-insulated multi-layered glass with Low-E (Low-Emissivity) coating, encapsulating with argon gas, and hot air blowing from the bottom, significantly reduces condensation on the glass doors, ensuring high temperature performance.

Twinguard ECO Pharmaceutical Refrigerator



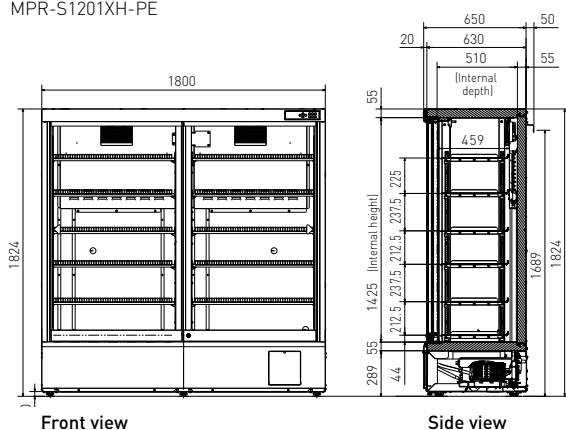
LED Interior Light

The LED interior light automatically turns on/off in combination with the door opening/ closing. It can also be controlled from the control panel.

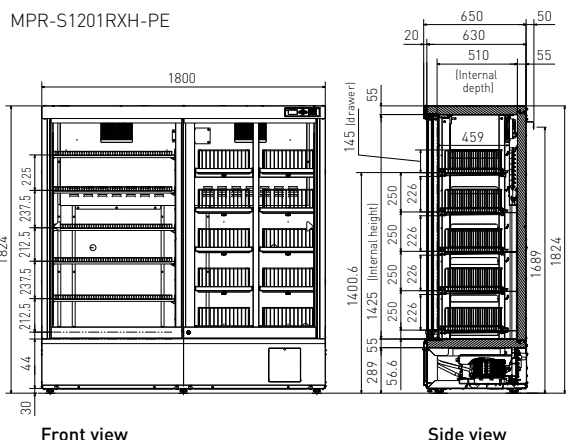
Dimensions

Unit: mm

MPR-S1201XH-PE



MPR-S1201RXH-PE



Model Number		MPR-S1201XH-PE		MPR-S1201RXH-PE	
Dimensions					
External dimensions (WxDxH) ¹⁾		mm	1800 x 650 x 1824		
Internal dimensions (WxDxH)		mm	1700 x 510 x 1425		
Volume		litres	1165	1155	
Net weight		kg	267	279	
Performance					
Cooling performance ²⁾		°C	2 to 14		
Control					
Controller			Microcomputer control system		
Display			OLED		
Temperature sensor			Thermistor sensor		
Refrigeration					
Refrigerant			HC refrigerant		
Insulation			Rigid polyurethane foamed-in place		
Construction					
Exterior material			Painted Steel		
Interior material			Painted Steel		
Outer door		qty	2		
Outer door lock			Y		
Shelves		qty	12 (Hard steel wire with polyethylene coating)	6 (Hard steel wire with polyethylene coating)	
Dimensions (WxDxH)		mm	781 x 420 x 23		
Max. load - per shelf		kg	50		
Drawers		qty	–	10 (Hard steel wire powder baking finish)	
Dimensions (WxDxH)		mm	–	311 x 355 x 145	
Max. load - per drawer		kg	–	20	
Compressor			Inverter type, Output: 130 W x 2		
Evaporator			Fin and tube type		
Condenser			Wire and tube		
Access port		qty	3		
Access port position			Back		
Access port diameter		Ø mm	30		
Casters		qty	6		
Interior lights		qty	24 [LED]		
Alarms (V = Visual Alarm, B = Buzzer Alarm, M = Message, R = Remote Alarm)					
Power failure			R ³⁾		
High temperature			V-B-M-R		
Low temperature			V-B-M-R		
Door open			V-B-M		
Remote alarm contact			Allowable contact capacity: DC 30 V, 2 A ⁵⁾		
Electrical and Noise Level					
Power supply		V	230		
Frequency		Hz	50		
Noise level ⁵⁾		dB(A)	42		
Options					
Battery kit for power failure alarm			MPR-48B2-PW		
Temperature recorders	- Circular type		MTR-G04C-PE	- Chart paper: RP-G04-PW - Ink pen: PG-R-PW - Recorder mounting bracket	
	- Continuous strip type		MTR-0621LH-PE	- Chart paper: RP-06-PW - Recorder mounting bracket MPR-S30-PW	
Optional Communication Systems					
Digital interface [RS232C/RS485]			MTR-480-PW ⁴⁾		
Ethernet interface [LAN]			MTR-L03-PW ⁴⁾		

Appearance and specifications are subject to change without notice.

1) Exterior dimensions of main cabinet only, excluding handle and other external projections.

2) Ambient temperature; -5°C to 35°C, no load.

3) Remote alarm includes optional power failure alarm MPR-48B2-PW (V-B-M-R alarm).

4) Standard signal and interface cables with a maximum length of 30 meters are recommended.

5) Nominal value - Background noise 20 dB(A).

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