

PR-L5181W-PA

High Performance Undercounter Refrigerator

+2 to +8°C Undercounter Refrigerator

5.0 cu.ft. | 142 L



PR-L5181W-PA

The PR-L5181W-PA high performance undercounter refrigerator is designed to maintain the +5°C temperature setpoint and $\pm 3^\circ\text{C}$ uniformity necessary for the storage of critical vaccines. This model is engineered to meet the strict regulatory guidelines of the CDC in a small footprint. Precision temperature control and uniformity prevent the interior from cooling below freezing and risking vaccine viability whether the unit is loaded or empty.

Temperature Control Precision

This refrigerator features precise temperature control engineered to meet the current CDC guidelines for vaccine storage while requiring less energy than traditional undercounter refrigerators. The purpose-built PR-L5181W-PA is designed to maintain the high performance necessary for valuable inventory.

Ease of Use and Accessibility

With a compact footprint, the PR-L5181W-PA is designed for functional workspaces and fits under most tables, cabinets and lab benches. The solid door protects light-sensitive materials. If a door is left ajar, the self-closing mechanism mitigates scenarios that could result in lost product. An alarm provides an even deeper level of protection. An optional stacking accessory is available to maximize storage capacity when space constraints become a concern.

Temperature Uniformity Even When Loaded

Many high performance refrigerators can maintain precise temperatures when they are empty. The PR-L5181W-PA has been designed to maintain high performance temperature uniformity of $\pm 3^\circ\text{C}$ even when loaded, as often occurs during peak vaccine season.



Energy and Sustainability

This undercounter refrigerator provides energy efficiency and sustainability without compromising performance. Traditional refrigerants have been replaced with environmentally friendly natural refrigerants to meet Significant New Alternatives Policy (SNAP) guidelines for low global warming potential and no ozone-depleting substances.



Rapid Response Control and Alarm

The unit has a door mounted control with preset alarms at $\pm 3^\circ\text{C}$ consistent with CDC requirements. The control monitors air temperature inside the unit rather than a commonly used buffered probe bottle to allow for faster readout on display during unexpected temperature excursions.

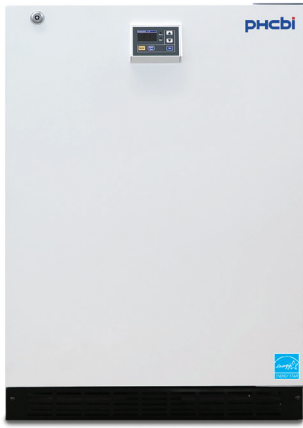


Auto Defrost System

The PR-L5181W-PA utilizes a defrost cycle minimizing temperature spikes associated with common defrost systems. This innovation provides assurances of optimum temperature control maintenance at all times by minimizing defrost spikes to only what is necessary to help keep ice buildup from affecting performance under all conditions.

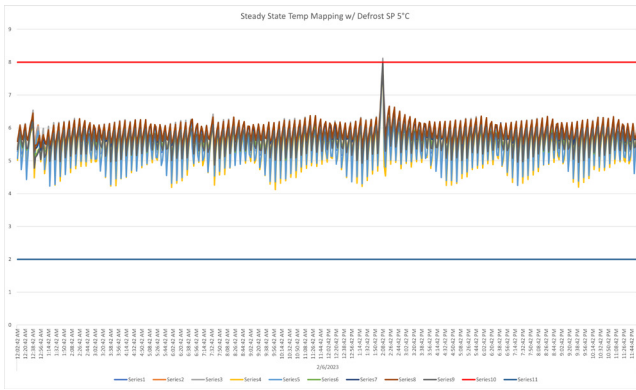
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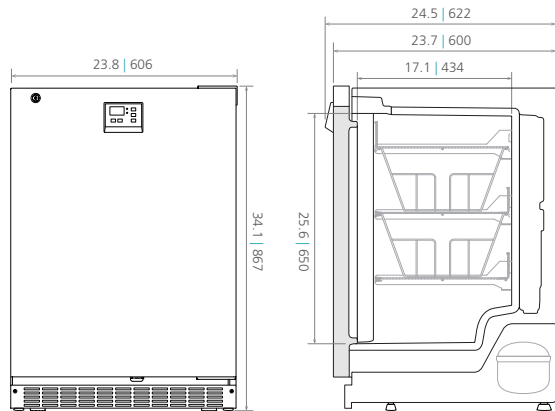
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Uniformity, Steady State With Defrost, Set Point 5°C



Dimensions

Unit : inch | mm



Model Number		PR-L5181W-PA
Exterior Dimensions (W x D x H) ¹⁾	inches mm	23.8 x 23.7 x 34.1 606 x 600 x 867
Interior Dimensions (W x D x H)	inches mm	19.9 x 17.1 x 25.6 507 x 434 x 650
Volume	cu.ft. liters	5.0 142
Net Weight	lbs kg	100 45
Performance		
Warranty ²⁾		2 years parts / labor
Cooling Performance ³⁾	°C	2 to 8
Temperature Setting Range	°C	2 to 8 in 0.1°C increments
Temperature Control Range ³⁾	°C	2 to 8 in 0.1°C increments
Uniformity	°C	±3
Control		
Controller		Microprocessor
Display		LED
Security		Front panel anti-tamper lockout
Temperature Sensor		Thermistor
Refrigeration		
Refrigeration System		Forced air fin and tube evaporator
Compressor	W	40 (hermetic)
Refrigerant		R-600a
Defrost		Cycle, time actuated, temperature controlled
Insulation Material, SNAP Compliant		HFO foamed-in-place
Construction		
Exterior Material		White PCM galvanized steel, polyester resin baked finish
Interior Material		HFO vacuum formed plastic
Outer Door	qty	Electro galvanized steel
Key Lock	qty	Door lock, top mounted with 2 keys
Shelves	qty	3, coated steel wire
Shelf Dimension (W x D)	inches mm	19.2 x 14.75 487 x 375
Access Port	qty	1 (standard)
Access Port Position		Right side of product
Access Port Diameter	inches mm	1.2 30
Leveling Feet	qty	4
Alarms (V=Visual, B=Buzzer)		
High Temperature		V (immediate), B (15 minute delay)
Low Temperature		V (immediate), B (15 minute delay)
Door Alarm		V (immediate), B (2 minute delay)
Sensor Failure		V (error code)
Electrical		
Power Supply		115V, 60Hz, 1Ø, NEMA 5-15P, requires NEMA 5-15R receptacle
Options		
4-20mA Analog Output		MTR420MAL* MTR420MAC*
Stacking Kit		833-0-3131-102-00*
Keypad Electric Lock. Other Configurations Available.		ELKPHFRFKIT*
Optional Communication System		
Wireless, Cloud-Based, Automatic Data Management		LabAlert® Monitoring System*, VSafe-RX*, LabSVIFT 3rd party/Gen 1

¹⁾ External dimensions of main cabinet only. Depth is 24.5" (622 mm) including the controller

²⁾ Current warranty offered at time of printing and may be subject to change; US and Canada only

³⁾ Air temperature measured at refrigerator center, ambient temperature +24°C, no load

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

* Products manufactured by others.



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