High Performance
Undercounter Refrigerator
+2 to +8°C Undercounter Refrigerator
5.0 cu.ft. | 142 L

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

Temperature Control Precision
This refrigerator features precise temperature control engineered to meet the current and evolving criteria included in the CDC, NSF, and ANSI 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 ±3°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.

Microprocessor Control and Alarm
The unit has a door-mounted control with an easy to view LED display that features preset automatic alarm tracking around the temperature setpoint. The alarm is set at +3°C above and below setpoint, consistent with vaccine and high-value product storage requirements.

Cycle Defrost System
The PR-L5181W-PA does not rely solely on a time-based system. Instead, the refrigerator utilizes a sophisticated defrost cycle that only triggers when needed and when the compressor is not running, minimizing temperature spikes often associated with common defrost systems. This innovation provides assurances of optimum temperature control maintenance at all times.

PHC Corporation of North America
High Performance Undercounter Refrigerator

PR-L5181W-PA

Uniformity, Steady State, 5°C

Dimensions

Model Number | PR-L5181W-PA
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Exterior Dimensions (W x D x H) (5) | 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 (1) 2 years parts/labor
Cooling Performance (2) °C 2 to 8
Temperature Setting Range °C 2 to 8 in 0.1°C increments
Temperature Control Range °C 2 to 8 in 0.1°C increments
Uniformity °C a3

Control

Controller | Microprocessor
Display | LED
Security | Front panel anti-tamper lockout
Temperature Sensor | Thermostat

Refrigeration

Refrigeration System | Forced air fin and tube evaporator
Compressor | kW 1.7
Refrigerant | R-600a
Defrost | Cycle, time actuated, temperature controlled
Insulation Material, SNAP Compliant | HDF foamed-in-place

Construction

Exterior Material | Steel
Interior Material | Steel
Door Material | Steel
Key Lock | Standard
Shelves | 3. coated steel wire
Shelf Dimension (W x D) | inches mm 19.2 x 14.75 (487 x 375)
Access Port | qty 4
Access Port Diameter | inches mm 1.2 30
Leveling Feet | qty 4

Alarms (ViaVisual, Buzzer)

High Temperature | V (Immediate), 8 (15 minute delay)
Low Temperature | V (Immediate), 8 (15 minute delay)
Door Alarm | V (Immediate), B (12 minute delay)
Sensor Failure | V (sensor code)

Electrical and Noise Level

Power Supply | 115V, 60Hz, 10A, NEMA 5-15P, requires NEMA 5-15R receptacle

Options

Chart Recorder | MTRCBSS (remote mounted)
Chart Paper | C770075
Chart Pens | R252
4-20mA Analog Output | MT420MA
Stacking Kit | SR1101B
Keypad Electric Lock | EKPHFR81T
Other Configurations Available

Optical Communication System

Wireless, Cloud-Based | LabAlert® Monitoring System
Automatic Data Management | LabAlert® Monitoring System

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