This undercounter freezer 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 and the AIM Act of 2020 for low global warming potential and no ozone-depleting substances.

Manual Defrost System
The PF-L5181W-PA is a manual defrost high performance undercounter freezer. This ensures that sensitive frozen enzymes or vaccines are not exposed to temperature deviation common with freezers containing an auto defrost cycle.

Temperature Uniformity Even When Loaded
Many high performance freezers can maintain precise temperatures when they are empty. The PF-L5181W-PA has been designed to maintain high performance temperature uniformity of ±5°C even when loaded, as often occurs during peak vaccine season. This model features evaporator shelving and forced air circulation within the chamber to ensure swift temperature pull down upon startup and rapid recovery after door openings.

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.

Ease of Use and Accessibility
With a compact footprint, the PF-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.

PF-L5181W-PA

The PF-L5181W-PA high performance undercounter freezer is ENERGY STAR® Certified and is designed to maintain temperatures between -15°C and -25°C with a tight uniformity of ±5°C for storing critical vaccines and biologics. This model is engineered to meet CDC guidelines in a small footprint. Precise temperature control and uniformity protect vaccine and biologic viability whether the unit is loaded or empty.

Energy and Sustainability
This undercounter freezer 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 and the AIM Act of 2020 for low global warming potential and no ozone-depleting substances.
High Performance Undercounter Freezer

Model Number: PF-L5181W-PA

- **Exterior Dimensions (W x D x H)**: 23.8" x 23.7" x 34.1" (606 x 600 x 867 mm)
- **Interior Dimensions (W x D x H)**: 19.9" x 17.1" x 25.6" (507 x 434 x 650 mm)
- **Volume**: 5.0 cu.ft. (142 liters)
- **Net Weight**: 100 lbs (45 kg)

**Performance**
- **Warranty**: 2 years parts / labor
- **Cooling Performance**: -15 to -25 °C
- **Temperature Setting Range**: -15 to -25 in 0.1 °C increments
- **Temperature Control Range**: -15 to -25 in 0.1 °C increments
- **Uniformity (Air Temperature)**: Better than ±5 °C

**Control**
- **Controller**: Microprocessor
- **Display**: LED
- **Security**: Front panel anti-tamper lockout
- **Temperature Sensor**: Thermistor

**Refrigeration**
- **Refrigeration System**: Direct contact evaporator shelving
- **Compressor**: 40 (hermetic, inverter design)
- **Defrost**: Manual
- **Insulation Material**: HFO foamed-in-place

**Construction**
- **Exterior Material**: White PCM galvanized steel, polyester resin baked finish
- **Interior Material**: HFO vacuum formed plastic
- **Outer Door**: qty 1 electro galvanized steel
- **Key Lock**: qty 1 door lock, top mounted with 2 keys
- **Shelves**: qty 3, coated steel wire
- **Shelf Dimension (W x D)**: 19.2" x 14.75" (487 x 375 mm)
- **Access Port**: qty 1 (standard)
- **Access Port Position**: Right side of product
- **Access Port Diameter**: 1.2" (30 mm)
- **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 and Noise Level**
- **Power Supply**: 115V, 60Hz, 1Ø, NEMA 5-15P, requires NEMA 5-15R receptacle

**Options**
- **Chart Recorder**: MTRC958 (remote mounted)
- **Chart Paper**: C740306REV
- **Chart Pens**: R252
- **4-20mA Analog Output**: MTRA20MAL-loop powered
- **Stacking Kit**: B33-0-3131-102-00
- **Keypad Electric Lock**: ELKHPRF010
- **Optional Communication System**: LabAlert® Monitoring System

**Dimensions**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Inches</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>W</td>
<td>23.8</td>
<td>606</td>
</tr>
<tr>
<td>D</td>
<td>23.7</td>
<td>600</td>
</tr>
<tr>
<td>H</td>
<td>34.1</td>
<td>867</td>
</tr>
</tbody>
</table>

**Pull Down and Steady State, -23°C Set Point**

Temperature mapping is based on simulated 5 ml vaccine vials in 24°C ambient temperature.

**As of 2022**

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