ProTerra® Plug-In Heat Pump Water Heater
(120V Dedicated Circuit)

**Efficiency**
- Up to 3.0 UEF reduces operating cost
- ENERGY STAR® rated

**Performance**
- Ambient operating range: 37-145° F is widest in class designed to meet Northern Climate Spec (Tier 2)

**Easy Installation**
- Easy access side connections
- Factory installed plug-in power cord, direct plug-in
- Easily replaces a standard gas water heater

**Integration**
- LED display allows easy control and system monitoring with alerts and audible alarms

**Efficiency**
- Integrated EcoNet® WiFi-connected technology and free mobile app gives users control over water heater, allowing for customizable temperature, vacation settings, energy savings and system monitoring at home or away
- LeakGuard™ and LeakSense™ Ready — Easily add leak detection and prevention with leak sensor and shutoff valve upgrade kit
- Demand Response Ready – Built-in EcoPort™ (CTA-2045 Port) allows easy connection to Utility programs
- LEED Points = 3

**Operation Modes**
- Heat Pump
- Vacation/Away: 2-28 days (or placed on hold indefinitely)

**Plus…**
- Premium grade anode rod with resistor extends the life of the tank
- 3/4" NPT water inlet and outlet; 3/4" condensate drain connections
- Easy access, top mounted washable air filters
- 2" Non-CFC foam insulation
- Enhanced flow brass drain valve
- Temperature and pressure relief valve installed
- Design certified to NSF/ANSI 372 (Lead Content)

**Warranty**
- 10-Year limited tank and parts warranty
  See Residential Warranty Certificate for complete information

Units meet or exceed ANSI requirements and have been tested according to D.O.E. procedures. Units meet or exceed the energy efficiency requirements of NAEGA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria.

See specifications chart on next page.
ProTerra Plug-in Heat Pump (120V Dedicated Circuit) Specifications

<table>
<thead>
<tr>
<th>NOMINAL GALLON CAPACITY</th>
<th>RATED GALLON CAPACITY</th>
<th>MODEL NUMBER</th>
<th>MODEL VARIANT</th>
<th>ELECTRIC BREAKER SIZE (TIME DELAY)</th>
<th>VOLTAGE</th>
<th>UNIFORM ENERGY FACTOR (UEF)</th>
<th>COMPRESSOR BTU/H</th>
<th>SOUND LEVEL (dBA)</th>
<th>RECOVERY IN G.P.H</th>
<th>RECOVERY @ 60°F RISE</th>
<th>HEIGHT A</th>
<th>DIAL. B</th>
<th>UNIT WT. (LBS)</th>
<th>APPROX. SHIP WT. (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>37</td>
<td>PROPH40 T0 RH120</td>
<td>700948</td>
<td>15</td>
<td>120V</td>
<td>3.0</td>
<td>12,000</td>
<td>55</td>
<td>51</td>
<td>28</td>
<td>65-5/8</td>
<td>20-1/4</td>
<td>200</td>
<td>242</td>
</tr>
<tr>
<td>50</td>
<td>46</td>
<td>PROPH50 T0 RH120</td>
<td>700949</td>
<td>15</td>
<td>120V</td>
<td>3.0</td>
<td>12,000</td>
<td>55</td>
<td>51</td>
<td>29</td>
<td>65</td>
<td>22-1/4</td>
<td>210</td>
<td>252</td>
</tr>
</tbody>
</table>

Uniform Energy Factor and rated gallon capacity based on Department of Energy (DOE) requirements. All units have integrated WiFi control board.

### DESCRIPTION

**DIMENSIONS (SHOWN IN INCHES)**

<table>
<thead>
<tr>
<th>NOMINAL GALLON CAPACITY</th>
<th>MODEL NUMBER</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
</table>

Insulate ducting to reduce condensation.
Plug-in Heat Pump (Dedicated Circuit) Water Heater Installation Guidelines to Provide Optimal Efficiency

All volume is cubic feet.

**Not Ducted**
Room size: Larger than 1200 ft\(^3\) (e.g. 12' x 10' x 10').
Requirements: No additional ventilation needed.

**Ducted with outlet duct**
Room size: Smaller than 400 ft\(^3\) (5' x 8' x 10') such as a closet.
Requirements: Full louvered door. 3.25 ft\(^2\) minimum louver area.

Insufficient air circulation may result in an ambient air temperature drop more than 15° F (8° C) and inefficient operation. Refer to the room size volume illustrations to determine optimal installation and if exhaust should be ducted.

Installation Space Volume is the unoccupied, free air space required for optimal operation. Additional objects occupying the space reduce total space volume.

For optimal operation, installation in gray US map zone is recommended. When installing outside of gray zone, consult your local plumbing contractor.

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**MINIMUM CLEARANCES (WITHOUT DUCTING)**

<table>
<thead>
<tr>
<th>REAR</th>
<th>SIDES</th>
<th>TOP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0&quot;</td>
<td>3&quot;</td>
<td>9&quot;</td>
</tr>
</tbody>
</table>

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**Average Ambient Air Temp in January**

- Below 37°F
- Above 37°F
ProTerra Plug-in Heat Pump Accessories List

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>USE FOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP18944D</td>
<td>Leak Sensor</td>
<td>Automatic detection of internal and external leaks</td>
</tr>
<tr>
<td>AP20180</td>
<td>Shutoff Valve</td>
<td>Automatic shut off of water supply to unit</td>
</tr>
<tr>
<td>AP21851</td>
<td>Outlet Duct Adapter</td>
<td>Allows for ducting to be connected to the unit</td>
</tr>
<tr>
<td>SP20882</td>
<td>Earthquake Isolation Kit</td>
<td>Installations in seismic regions</td>
</tr>
<tr>
<td>SP20883</td>
<td>Vibration Isolation Kit</td>
<td>Installation on non-concrete floors</td>
</tr>
<tr>
<td>SP20884</td>
<td>8&quot; Diameter UL Certified Termination Kit</td>
<td>Termination to the outside or to the attic with 8&quot; diameter</td>
</tr>
<tr>
<td>SP20885</td>
<td>7&quot; Diameter UL Certified Termination Kit</td>
<td>Termination to the outside or to the attic with 7&quot; diameter</td>
</tr>
<tr>
<td>SP20886</td>
<td>6&quot; Diameter UL Certified Termination Kit</td>
<td>Termination to the outside or to the attic with 6&quot; diameter</td>
</tr>
<tr>
<td>SP20887</td>
<td>5&quot; Diameter UL Certified Termination Kit</td>
<td>Termination to the outside or to the attic with 5&quot; diameter</td>
</tr>
<tr>
<td>SP20888</td>
<td>8&quot; Pro Approved Damper Kit</td>
<td>Exhaust only to the outside ducting configuration (no inlet duct)</td>
</tr>
<tr>
<td>SP21189</td>
<td>25' Flexible 8&quot; Diameter Duct Kit</td>
<td>For up to 25' of ducting</td>
</tr>
<tr>
<td>SP21111</td>
<td>Leak Sensor &amp; Shutoff Valve Kit</td>
<td>Upgrade models to protect home from water damage with leak detection and auto shutoff valve</td>
</tr>
</tbody>
</table>

UPGRADE KIT (for ProTerra models without LeakGuard only) – Add leak detector and shutoff valve to protect from water damage.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.