ProLine® XE HEAT PUMP

The ProLine® XE heat pump water heaters from A. O. Smith are a cost effective energy-efficient option available for consumers who want to save money on their electric utility bills.

HOW DO THEY WORK?
• Absorbs ambient heat from the surrounding air to heat water using a compressor and environmentally-friendly R134a refrigerant
  – Self-contained heat pump unit is integrated into the top of the tank
  – Multiple operating modes to maximize efficiency and performance

INCREASED ENERGY EFFICIENCY
• Improved efficiency design to ensure available hot water at the lowest possible cost
• Up to a 3.61 Energy Factor (EF) Rating conserves energy and exceeds ENERGY STAR® qualifications

CHOICE OF OPERATING MODES
• Select from Efficiency, Hybrid, or Electric modes to match heating requirements to environmental conditions
• Hybrid mode automatically adjusts between compressor and element, depending upon heat requirements
• Vacation mode reduces operating costs and provides freeze protection during extended absence

BACKUP ELECTRIC ELEMENTS
• Long-lasting backup heating elements help heat water according to environmental conditions, demand, and the chosen operating mode

CoreGard™ ANODE ROD
• Anode rods have a stainless steel core that extends the life of the anode rod allowing superior tank protection far longer than standard anode rods
• 66 and 80 gallon models have dual anodes for added protection

DRY FIRE PROTECTION
• Control system checks to ensure the tank is full of water during start up to prevent dry firing the heating elements

ELECTRONIC USER INTERFACE
• User-friendly electronic interface allows easy control of temperature setting, operating mode, and communicates diagnostics
• Easy to read temperature display (see back) shows temperature in °F or °C
• Advanced diagnostics convey error messages for service purposes and the last four error messages are saved in the control system memory

Commercial-Grade
• ProLine® XE Heat Pump are residential water heaters with commercial grade quality

OTHER FEATURES
• Ideal for basement installations; the compressor transfers heat to the water while dehumidifying and cooling the ambient air
• Washable air filter is easily removed for routine cleaning

OPTIONAL AIR DUCT ADAPTER KIT
• Permits installation in confined spaces

WARRANTY
• 10 year limited tank and parts warranty
For complete information, consult written warranty or A. O. Smith

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PERFORMANCE

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SERIES</th>
<th>CAPACITY USG (L)</th>
<th>INPUT</th>
<th>ENERGY FACTOR BY MODE</th>
<th>FIRST HOUR RATING BY MODE</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>WATTS</td>
<td>VOLTS</td>
<td>EFFICIENCY</td>
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<tr>
<td>HPTU-50N</td>
<td>120</td>
<td>50 (189)</td>
<td>4500</td>
<td>208/240</td>
<td>3.61</td>
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<tr>
<td>HPTU-66N</td>
<td>120</td>
<td>66 (250)</td>
<td>4500</td>
<td>208/240</td>
<td>3.44</td>
</tr>
<tr>
<td>HPTU-80N</td>
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<td>80 (303)</td>
<td>4500</td>
<td>208/240</td>
<td>3.27</td>
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</tbody>
</table>

Requires 30 amp breaker.
Top T&P option not available.

DIMENSIONS & SHIPPING WEIGHT

<table>
<thead>
<tr>
<th>MODEL</th>
<th>INSTALLATION HEIGHT</th>
<th>TANK DIAMETER</th>
<th>HEIGHT TO UPPER SIDE CONNECTION</th>
<th>HEIGHT TO LOWER SIDE CONNECTION</th>
<th>HEIGHT TO DRAIN VALVE</th>
<th>HEIGHT TO T&amp;P</th>
<th>SHIPPING WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A IN (CM)</td>
<td>B IN (CM)</td>
<td>C IN (CM)</td>
<td>D IN (CM)</td>
<td>E IN (CM)</td>
<td>LB (KG)</td>
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<tr>
<td>HPTU-50N</td>
<td>63 (160)</td>
<td>22 (56)</td>
<td>40 1/4 (103)</td>
<td>3 3/4 (10)</td>
<td>3 3/4 (10)</td>
<td>40 1/4 (103)</td>
<td>196 (89)</td>
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<tr>
<td>HPTU-66N</td>
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<td>27 (69)</td>
<td>38 (97)</td>
<td>4 (10)</td>
<td>4 (10)</td>
<td>38 (97)</td>
<td>289 (131)</td>
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<tr>
<td>HPTU-80N</td>
<td>69 (175)</td>
<td>27 (69)</td>
<td>46 (117)</td>
<td>4 (10)</td>
<td>4 (10)</td>
<td>46 (117)</td>
<td>307 (139)</td>
</tr>
</tbody>
</table>

ELECTRONIC USER INTERFACE
- User friendly, easy to read display
- LEDs clearly indicate the current operating mode
- Easily select operating mode:
  - Efficiency
  - Hybrid
  - Electric
  - Vacation
- Display communicates current status, mode and set point, and displays error messages when applicable

EFFICIENCY MODE
- Utilizes the heat pump for all water heating

HYBRID MODE
- Automatically reverts to heating element if ambient air or water temperatures are outside optimal operating range for heat pump
- Utilizes the heat pump or heating element, depending on demand

ELECTRIC MODE
- Standard electric water heater operation

VACATION MODE
- One touch operation maintains tank temperature of 60°F (15.6°C) during vacation or extended absence to reduce operating costs and provide freeze protection
- Programmable up to 99 days

OPTIONAL ACCESSORIES
- 100234320 Inlet and Outlet Air Duct Kit
- 100131328 Booster Fan Kit

OTHER FEATURES:
- Environmentally-friendly non-CFC foam insulation
- Durable, enhanced-flow tamper-resistant brass drain valve
- CSA certified and ASME rated temperature & pressure relief valve

OPERATING REQUIREMENTS:
- Requires provision for condensate draining; if a suitable drain is not available, a condensate pump is required
- 208/240 VAC 60Hz single phase 30 amp power supply

For Technical Information call 888-599-2837. A. O. Smith Enterprises Ltd. reserves the right to make product changes or improvements without prior notice.