Thanks to its leading-edge technology, the XP features a stainless steel heat exchanger designed to optimize efficiency while delivering long and trouble-free service. Simply put, the XP Family is both fuel efficient and capable of minimizing operating costs with every heating cycle.

Designed for fully condensing operation throughout the heating range, all XP models are available in stainless steel to provide a long and trouble-free service life. Save both fuel and operating costs with every cycle. Get your ultimate in thermal efficiency, thanks to the XP Family. The stainless steel heat exchanger construction allows the XP water heater to operate in a continuous condensing mode while maintaining longevity and delivering up to 96% thermal efficiency.

All XP models have flow switches with low water cutoffs as standard features, providing redundant flow and low water protection. All models feature stainless steel heat exchanger construction for maximum longevity. The XP and XP PLUS Water Heater models provide flexible and lower-cost installation because they permit direct-vent air intake and exhaust runs up to 150 equivalent feet using PVC venting material. With the XP and PWH-3000 models, vent runs up to 150 equivalent feet are approved. On the XP PLUS L2, L5, L10, and XL14 models, vent runs up to 150 equivalent feet are approved. In addition to PVC, these models can be vented with CPVC, Polypropylene, or AL29-4C stainless steel materials. The XP Family (Category IV) venting system’s intake and exhaust runs can terminate horizontally through a sidewall or vertically through the roof. Please consult the latest edition of the Installation Manual for detailed venting information and maximum/minimum venting distances.
With their combination of innovative control features and modulating capabilities, XP Family Water Heater models are the latest in high efficiency fully condensing products from A. O. Smith, offering high outputs for demanding, large-volume commercial applications. Thanks to a state-of-the-art stainless steel heat exchanger, the XP model can achieve thermal efficiencies up to 96% and the XP PLUS model can achieve thermal efficiencies up to 98%. The XP PLUS features the latest technology in high efficiency circulating water heaters. The heart of the design is the 316L stainless steel heat exchanger. The heat exchanger’s condensing design heats water up to an impressive 98% thermal efficiency. This new design features a slide out door for improved access and maintenance flexibility.

The modulating combustion system is capable of 5:1 turndown and uses a NEG/REG gas control to achieve this.

Model sizes are available in 1.25, 1.5, 2.0, 3.0 and 4.0M BTU/hr input rates to cover a wide range of heavy duty commercial and industrial applications. Each model is shipped with a factory sizes all-bronze pump which is managed by the water heaters control.

XP PLUS RECOVERY CAPACITIES

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Input Rating (BTU)</th>
<th>Heating Temp.</th>
<th>Water Flow</th>
<th>Discharge Temp. (°F)</th>
<th>Discharge Temp. (°C)</th>
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<tr>
<td>PWH-1250NP</td>
<td>1,250,000</td>
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<td>PWH-4000NP</td>
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<td>140</td>
<td>11,879</td>
<td>100</td>
<td>49</td>
</tr>
</tbody>
</table>

XP PLUS AT A GLANCE

- Top-of-the-line control with touchscreen
- Industry-leading thermal efficiencies
- XP PLUS is up to 98% thermal efficiency in low-temperature applications
- XP is up to 96% thermal efficiency in low-temperature applications
- XP models ranging from 125,000 to 140,000 BTU
- Vents in inexpensive PVC pipe or optional CPVC, Polypropylene or stainless steel.
- XP models are CSA certified to the ANSI Z21.3-2003 CSA A.1 water heater standard and are AHRI listed with thermal efficiency ratings of up to 80% @ 100% fire and 140˚F outlet temperature
- Fully modulating with turndown ratios up to 5:1.
- XP PLUS model is ready for immediate connection to existing building management using MODBUS protocol
- XP PLUS model can be field converted for outdoor use in warm climates with accessory kit
- ENERGY STAR® qualified
- Fully modulating with turndown ratios up to 5:1.

XP AND XP PLUS AT A GLANCE

XP PLUS THE HEAT EXCHANGER

The XP PLUS features the latest technology in high efficiency circulating water heaters. The heart of the design is the 316L stainless steel heat exchanger. The heat exchanger’s condensing design heats water up to an impressive 98% thermal efficiency. This new design features a slide out door for improved access and maintenance flexibility.

The modulating combustion system is capable of 5:1 turndown and uses a NEG/REG gas control to achieve this.

Model sizes are available in 1.25, 1.5, 2.0, 3.0 and 4.0M BTU/hr input rates to cover a wide range of heavy duty commercial and industrial applications. Each model is shipped with a factory sizes all-bronze pump which is managed by the water heaters control.

UP TO 5:1 TURNDOWN RESULTS IN IDEAL COMBUSTION DURING ALL DEMANDS

The secret to the stunning performance of the XP Family is it’s flexibility, thanks in part to the fully modulating burners. Because of the unique burner design that allows load-equalizing firing rates, the XP and XP PLUS take temperature management to new levels of comfort and fuel efficiency by matching exact output to the building needs or requirements.