AIR-TO-WATER HEAT PUMP WATER HEATER

FEATURES
Heat pump water heaters remove unwanted heat and humidity from the surrounding air and use it to heat water. The refrigeration-based system produces cool, dehumidified air for spot cooling or to reduce the load on air conditioning systems.

HIGH EFFICIENCY WATER HEATING
- Coefficient of performance (COP) up to 4.2, generates significant energy savings (up to 80% compared to standard electric water heaters) resulting in a quick payback on investment.

HIGH TEMPERATURE OPERATION
- Outlet water temperatures up to 150°F (66°C) at common indoor air temperatures - easily maintains tank temperatures up to 140°F (60°C) efficiently.
- Can be used as preheat for higher system temperature requirements.
- Optional High Ambient Air Accessory kits allow operation with entering air temperatures up to 120°F (49°C).

ENVIRONMENTALLY FRIENDLY GREEN TECHNOLOGY
- Uses non-ozone depleting R-134a refrigerant.

EFFICIENT COMPRESSOR
- Scroll compressor technology provides reliable service and energy savings.

SANITARY HOT WATER FOR COMMERCIAL OR INDUSTRIAL USE
- Double wall condenser rated for potable water heating.

DESIGNED FOR EASE OF INSTALLATION
- Female pipe thread flanges for easy water and condensate connections.
- Factory-installed circulating water pump - sized for 25 equivalent feet of supply and return water piping for a total of 50 equivalent feet.
- Factory provided Digital Temperature Controller with remote tank temperature probe and sensor well for storage tank.
- Standard supply and return air duct connections for using air from an alternate location as a heat source or directing cool dehumidified air for spot cooling indoors.

CORROSION RESISTANT
- Painted aluminum cabinet provides superior protection against corrosion.
- Stainless steel condensate pan.

BUILT-IN PROTECTION
- High and low refrigerant pressure switch protection with lockout relay. Thermal motor protection against overheating.

WARRANTY
- Five year compressor warranty
- One year parts warranty
- For complete information, consult written warranty.

ACCESSORIES
- High Ambient Air Kits - allow operation up to 120°F (49°C) entering air temperature.
  Note: these accessory kits are required on all installations with entering air temperatures at or above 95°F (35°C).
- Removable and washable metal mesh air filters.

OPTIONS
- Corrosive duty package: The corrosive duty package includes a 316 stainless steel cabinet and a phenolic coating applied to the cooling coil and blower housing for superior corrosion protection. This package is recommended for installations within 5 miles of the seacoast.
- Power Options: 460 VAC, 3 phase on all models, 208/230 VAC, 1 phase on AWH-35 and AWH-55 only (Standard voltage is 208/230 VAC, 3 phase on all models)
- Fully insulated cabinet for noise reduction.
- Units can be ordered without factory installed pump.
**SPECIFICATION TABLE AIR-TO-WATER HEAT PUMP WATER HEATERS**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>PERFORMANCE</th>
<th>C.O.P. (Heating)</th>
<th>Air Volume (\text{cfm}^{**})</th>
<th>G.P.M.</th>
<th>APPROX. SHIPPING WEIGHT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Water Heating</td>
<td>10.4</td>
<td>1040</td>
<td>7</td>
<td>315</td>
</tr>
<tr>
<td>AWH-35</td>
<td>35,500</td>
<td>27,500</td>
<td>3.9</td>
<td>7</td>
<td>405</td>
</tr>
<tr>
<td>AWH-55</td>
<td>58,000</td>
<td>45,500</td>
<td>4.1</td>
<td>11</td>
<td>485</td>
</tr>
<tr>
<td>AWH-75</td>
<td>76,000</td>
<td>59,000</td>
<td>4.9</td>
<td>15</td>
<td>660</td>
</tr>
<tr>
<td>AWH-100</td>
<td>98,000</td>
<td>78,000</td>
<td>6.5</td>
<td>20</td>
<td>665</td>
</tr>
<tr>
<td>AWH-115</td>
<td>113,000</td>
<td>89,000</td>
<td>7.4</td>
<td>23</td>
<td>725</td>
</tr>
<tr>
<td>AWH-140</td>
<td>142,000</td>
<td>110,000</td>
<td>9.2</td>
<td>28</td>
<td>880</td>
</tr>
<tr>
<td>AWH-170</td>
<td>171,000</td>
<td>133,000</td>
<td>11.1</td>
<td>34</td>
<td>880</td>
</tr>
</tbody>
</table>

---

**HIGH AMBIENT AIR KIT PART NUMBERS**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWH-35</td>
<td>9500012730</td>
</tr>
<tr>
<td>AWH-55</td>
<td>9500012731</td>
</tr>
<tr>
<td>AWH-75</td>
<td>9500012732</td>
</tr>
<tr>
<td>AWH-100</td>
<td>9500012733</td>
</tr>
<tr>
<td>AWH-115</td>
<td>9500012734</td>
</tr>
<tr>
<td>AWH-140</td>
<td>9500012735</td>
</tr>
<tr>
<td>AWH-170</td>
<td>9500012735</td>
</tr>
</tbody>
</table>

---

**SUGGESTED SPECIFICATION**

The water heater shall be air-to-water heat pump model no. A. O. Smith Corporation. Water heater shall be rated at \(\text{Btu/hr}^{*}\) heating capacity and \(\text{Btu/hr}^{**}\) cooling capacity.

- C.O.P. coefficient of performance:
- Entering air temperature operating range - 50°F (10°C) to 95°F (35°C) - High Ambient Air Kits are available to allow operation up to 120°F (49°C).
- Entering water temperature operating range - 50°F (10°C) to 140°F (60°C).
- Standard voltage on all models - 208/230V, 3-phase, 60 Hz.
- Optional: 460v, 3-phase, 60Hz.
- Optional: 208/230v, 1-phase, 60Hz available on AWH-35 and AWH-55 only.

---

**For Technical Information and Automated Fax Service, call 800-527-1953. A. O. Smith reserves the right to make product changes or improvements without prior notice.**