COMMERCIAL HEAT PUMP WATER HEATER
AIR-TO-WATER

The Energy-Efficient, Environmental Friendly Choice From The Commercial Water Heater Experts
COMMERCIAL HEAT PUMP WATER HEATERS FROM A. O. SMITH

Our impressive line of environmentally friendly offerings has now been expanded to include one of the most energy-efficient and innovative commercial products in the market.

The commercial heat pump water heater works great in applications where the need for hot water and space cooling occurs simultaneously. Both outputs are utilized efficiently and interchangeably to ensure maximum energy cost savings and the shortest payback periods. Applications requiring space cooling and significant hot water usage will maximize energy savings. Best of all, heat pump heaters are three times more efficient than standard electric water heaters and up to five times more efficient than conventional gas water heaters.

Common Applications

- Commercial: Restaurant/Kitchens
- Institutional: Hospitals
- Military: Barracks
- Municipal: Fire Stations
- Industrial: Commercial Laundry Facility

Why Are Heat Pump Water Heaters An Environmentally Friendly Choice

- High efficiency with coefficient of performance (COP) up to 4.2
- No fossil fuels are used or burned at the source
- Ozone layer-friendly, thanks to the R-134a refrigerant
- Uses less electricity than standard electric water heaters
- Contributes to room cooling at the same time
- Taps into heat sources typically discarded by other units for peak efficiency

How Do Heat Pump Water Heaters Work

Heat pump water heaters capture heat and humidity from the surrounding atmosphere through the cooling coil and utilize it for heating potable water. Simply put, they move heat from where it is not needed to where it is wanted. This innovative advanced technology provides low cost hot water and free cooling.

Refrigeration Circuit Description:

A. Compressor
B. Cooling coil
C. Double-wall, refrigerant-to-water heat exchanger
D. Water pump
1. Hot water outlet back to tank
2. Warm water inlet from tank
3. Hot refrigerant
4. Cooled liquid refrigerant
5. Evaporated refrigerant vapor

### Typical Installation

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<table>
<thead>
<tr>
<th>Specifications Table: Air-to-Water Heat Pump Water Heaters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>AWH-35</td>
</tr>
<tr>
<td>AWH-55</td>
</tr>
<tr>
<td>AWH-75</td>
</tr>
<tr>
<td>AWH-100</td>
</tr>
<tr>
<td>AWH-115</td>
</tr>
<tr>
<td>AWH-140</td>
</tr>
</tbody>
</table>

* Performance rating at 24°C, 55% relative humidity and 38°C incoming water temperature
** Fan design at 0.3˝ external static pressure

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Optional Features:

- Optional Corrosive Duty Package includes 316 stainless steel cabinet as well as a polyurethane coating on the cooling coil and blower for superior corrosion protection. This package is recommended for installation within 5 miles of seacoast.

Accessories:

- Digital temperature controller with tank probe
- Removable and washable metal mesh air filters
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**Specification Table: Air-to-Water Heat Pump Water Heaters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling Capacity Kwh/hr</th>
<th>Water Heating Kwh/hr</th>
<th>Air Volume cfm**</th>
<th>C.O.P.</th>
<th>L.P.H</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Depth (mm)</th>
<th>Approx. Ship Weight (Kgs)</th>
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</thead>
<tbody>
<tr>
<td>AWH-35</td>
<td>8600</td>
<td>6600</td>
<td>1040</td>
<td>3.9</td>
<td>1590</td>
<td>625</td>
<td>1016</td>
<td>660</td>
<td>143</td>
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<tr>
<td>AWH-55</td>
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<td>11,300</td>
<td>1650</td>
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<td>724</td>
<td>1194</td>
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<td>23,200</td>
<td>3200</td>
<td>4.2</td>
<td>5224</td>
<td>1079</td>
<td>1600</td>
<td>965</td>
<td>301</td>
</tr>
<tr>
<td>AWH-140</td>
<td>35,100</td>
<td>28,200</td>
<td>3800</td>
<td>3.9</td>
<td>6359</td>
<td>1079</td>
<td>1600</td>
<td>965</td>
<td>328</td>
</tr>
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Manufactured by A. O. Smith India Water Heating Private Limited

REGISTERED OFFICE
Plot 100, Phase - II, KIADB Industrial Area, Rasenahalli, Kanakapura Taluk, Ramanagar District, Karnataka – 562 112, India

DELHI REGIONAL OFFICE
105 & 106, Plot 19, Sagar Plaza, Looms Nagar District Centre, Vikas Marg, Looms Nagar, New Delhi - 110 092, India

KOLKATA REGIONAL OFFICE
22-A, Office No. B11, 8th Floor, Krishna Building, AIC Bose Road, Kolkata-700 017, India

PUNE REGIONAL OFFICE
401 & 402, Citis Mall, Ganewkhind Road, Near Pune University, Pune – 411 007, India

Size: A3 Fold