

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

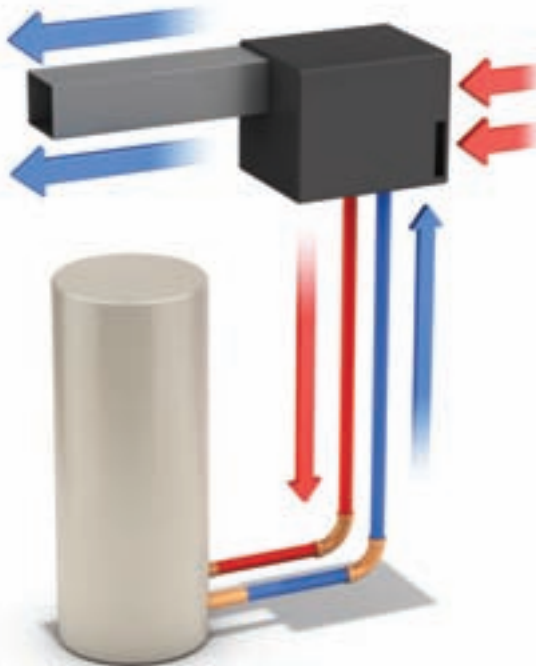
Commercial	: Restaurant/Kitchens
Institutional	: Hospitals
Military	: Barracks
Municipal	: Fire Stations
Industrial	: Commercial Laundry Facility

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.



Typical Installation

Specification Table: Air-to-Water Heat Pump Water Heaters									
Model	Water Heating Kcal/ Hr	Cooling Capacity Kcal/ Hr	Air Volume cfm**	C.O.P.	L.P.H	Height (mm)	Width (mm)	Depth (mm)	Approx Ship Weight (Kgs)
AWH-35	8500	6600	1040	3.9	1590	629	1016	660	143
AWH-55	14,300	11,300	1650	4.1	2498	724	1194	813	183
AWH-75	18,400	14,600	2150	3.9	3407	724	1448	813	220
AWH-100	23,900	19,000	3200	4.2	4542	1079	1600	965	299
AWH-115	29,000	23,200	3200	4.2	5224	1079	1600	965	301
AWH-140	35,500	28,200	3800	3.9	6359	1079	1600	965	328

* Performance rating at 24°C, 55% relative humidity and 38°C incoming water temperature

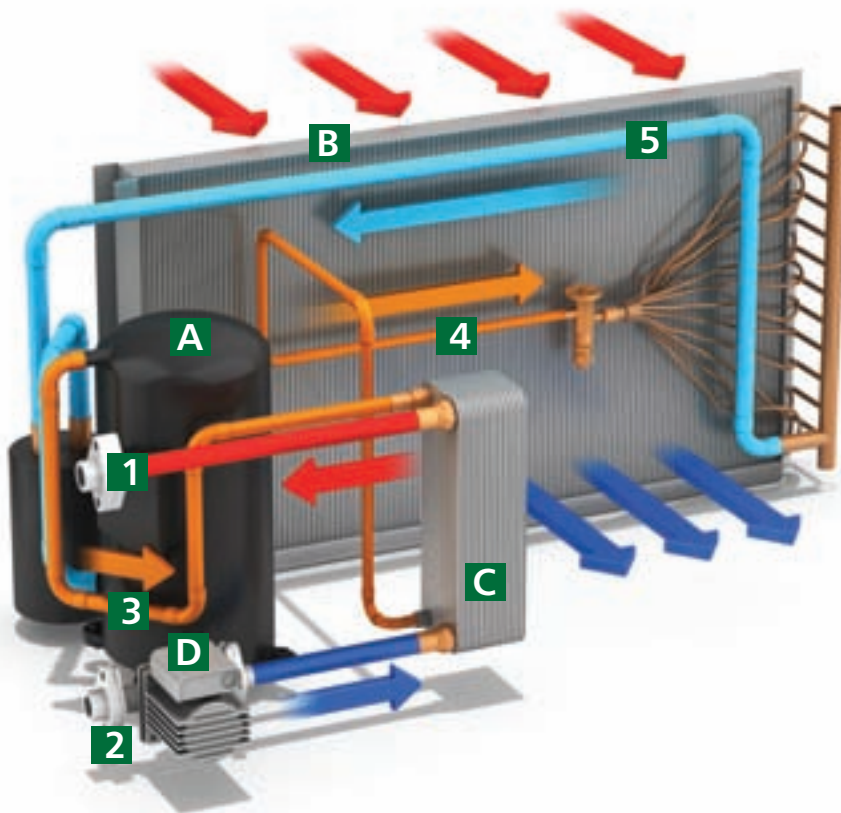
** Fan design at 0.3" external static pressure

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



Refrigeration Circuit

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



Manufactured by A. O. Smith India Water Heating Private Limited

REGISTERED OFFICE

Plot 300, Phase - II, KIADB Industrial Area,
Harohalli, Kanakapura Taluk,
Ramanagara District,
Karnataka – 562 112, India.

DELHI REGIONAL OFFICE

105 & 106, Plot 19, Sagar Plaza
Laxmi Nagar District Centre,
Vikas Marg, Laxmi Nagar,
New Delhi- 110 092, India.

KOLKATA REGIONAL OFFICE

224 A, Office No. 811,
8th Floor, Krishna Building,
AJC Bose Road,
Kolkata-700 017, India.

PUNE REGIONAL OFFICE

401 & 402, Citi Mall,
Ganeshkhind Road
Near Pune University,
Pune – 411 007, India.