



# **COMMERCIAL HEAT PUMP WATER HEATER AIR-TO-WATER**



**The Energy-Efficient, "Environmentally-Friendly" Choice  
From The Commercial Water Heater Experts.**

**DTI's capabilities: Hot water systems' consultancy,  
Design, Supply, Installation, Maintenance and Repair.**

Our impressive line of "Environmentally-Friendly" renewable energy products has expanded to include one of the most energy-efficient and innovative commercial water heaters on the market.

This efficiency is achieved by capturing heat typically discarded from the building.

Commercial electric heat pump water heaters are up to three times more efficient than standard electric water heaters and up to five times more efficient than conventional gas water heaters. In applications where the need for hot water and space cooling occur simultaneously, heat pump water heaters maximize cost savings providing for the quickest payback. The time has never been better to go green. Commercial electric heat pump water heaters allow business owners to capitalize on energy efficiency, realize a quick return on investment and promote their green initiative.

### Common Applications

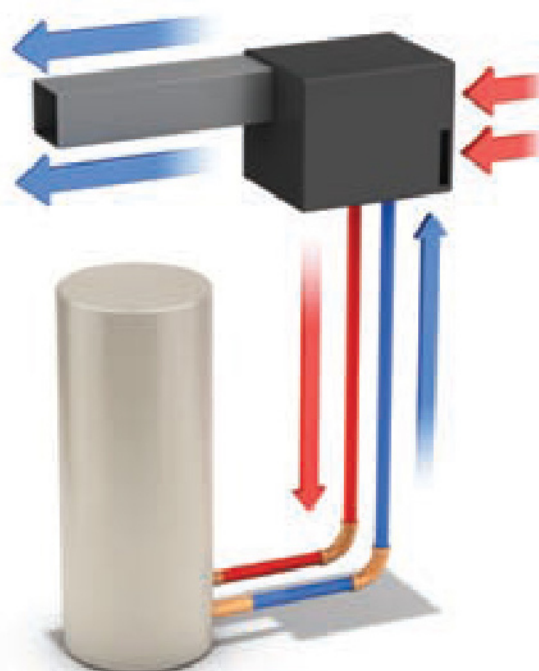
Commercial	: Restaurant/Kitchens
Institutional	: Hospitals and Schools
Military	: Barracks
Municipal	: Fire Stations
Industrial	: Commercial Laundry Facility

### 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-Friendly" R-134a refrigerant
- Uses 33% less electricity than standard electric water heaters
- Contributes to room cooling
- Recycles waste heat discarded by mechanical systems

### How Do Electric Heat Pump Water Heaters Work?

Electric heat pump water heaters capture heat and humidity from the surrounding atmosphere, transferring that energy into a storage tank for potable uses. Simply put, heat pumps move heat from where it is not needed to where it is wanted. This innovative technology provides low cost hot water and supplemental cooling that can be directed where needed for even greater savings.



**Typical Installation**

MODEL NUMBER	PERFORMANCE				Air Volume cfm**	Water Flow (GPM)	DIMENSION					APPROX. SHIPPING WEIGHT (lbs)
	Water Heating		Cooling Capacity	C.O.P			Inlet/Outlet (fpt)	Width A	Depth B	Height C	D	
	kW	Btu/hr*	Btu/hr*									
AWH-35	10.3	35,500	27,500	3.9	1040	7	1.0"	40"	26"	24.75"	7	315
AWH-55	17.3	58,000	45,500	4.1	1650	11	1.0"	47"	32"	28.5"	7	405
AWH-75	22.4	76,000	59,000	3.9	2150	15	1.5"	57"	32"	28.5"	7	485
AWH-100	28.8	98,000	78,000	4.2	3200	20	1.5"	63"	38"	42.5"	8	660
AWH-115	32.0	113,000	89,000	4.2	3200	23	1.5"	63"	38"	42.5"	8	665
AWH-140	41.6	142,000	110,000	3.9	3800	28	2.0"	63"	38"	42.5"	8	725
AWH-170	50.1	171,000	133,000	3.9	4900	34	2.0"	75"	46"	42.5"	8	880

\* Performance rating at 75° , 55% relative humidity and 100° incoming water temperature

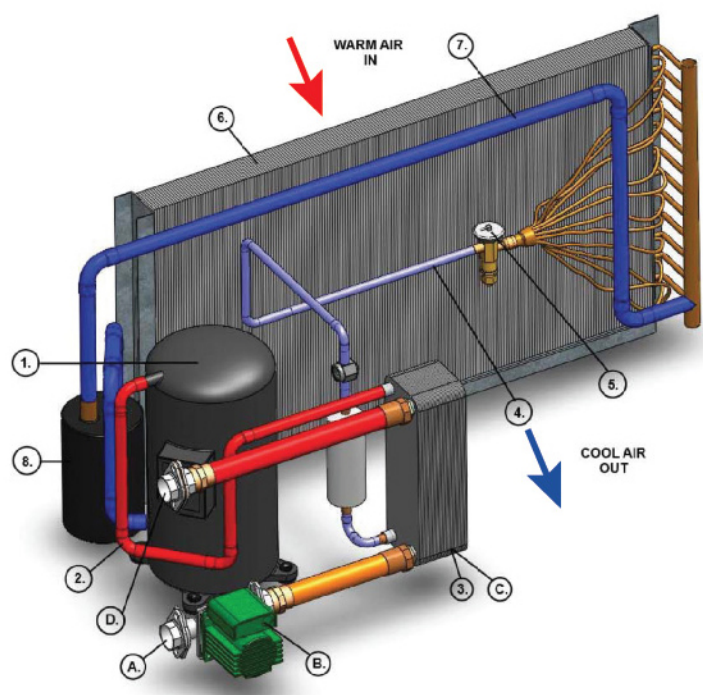
\*\*Blower design at 0.3" external static pressure

### 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



#### Component Refrigeration Circuit

- Compressor
- Hot Gas Line
- Condenser / Heat Exchanger
- Liquid Line
- Thermos Tatic Expansion Valve
- Evaporator
- Suction Line
- Accumulator

#### Refrigerant State

- GAS  
GAS  
GAS → LIQUID  
LIQUID  
LIQUID  
LIQUID → GAS  
GAS  
GAS

#### Component Water Circuit

- Water Inlet From Storage tank
- Water Pump
- Heat Exchanger / Condenser
- Water Outlet to Storage Tank

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