ATW Series
Air-to-Water Heat Pump

- Air source hydronic heating up to 120°F (50°C)
- Desuperheater for domestic hot water
- COP up to 4.23
- Compressor housed inside home

- Electronic TXV’s
- Outdoor temperature range of -7°F (-21.7°C) to 113°F (45°C)
- Micoprocessor controlled with BACnet and wifi connections
**ATW Series**

The Air-to-Water (ATW) Series uses heat transfer from the outdoor air to heat water for a hydronic heating system, or cool water for air conditioning via hydronic fan coils. Available in sizes from 2 to 6 nominal tons for whole-house applications.

**Hot Water for Radiant In-Floor Heating**

The ATW Series produces hot water at ideal temperatures for radiant in-floor heating and hydronic fan coil heating.

**Chilled Water for Cooling**

This reversible heat pump chills water for air conditioning via hydronic fan coils or radiant cooling.

**Desuperheater for Domestic Hot Water**

Preheat your domestic hot water via the built-in desuperheater, saving up to 50% on your domestic hot water heating costs.

### Features & Benefits

**Indoor Unit** - compact 28” x 28” footprint with premium appearance.

**High Performance Outdoor Unit** - for superior heating in cold temperatures & efficient cooling in hot climates. Hinge mounted door for ease of service. Raised mounting leg kits available.

**Fan Unit** - Outdoor unit fan is true variable speed with ECM-style hub motor, for maximum energy efficiency and minimum service.

**Intelligent Defrost Logic** - minimizes energy required to defrost the outdoor coil.

**Outdoor Ice Channeling Design** - no bottom tray & angled outdoor coil for no ice build-up.

**Compressor** - Copeland Ultratech® two-stage scroll, with double isolation for quiet operation; located in indoor unit for ease of cold-weather service, and better refrigerant/oil management.

**Gen2 Electronic Control Board** - with external two-line digital user interface. Includes automatic hot water output control based on outdoor temperature, data logging, internet and laptop USB connections, and BACnet interface.

**Refrigerant Pressure Sensors** - electronic high and low, displayed by user interface.

**Electronic Expansion Valves (EEV’s)** - for precise refrigerant control.

**Start Capacitor Kit & Suction Accumulator** - standard equipment.

**Domestic Hot Water** - double walled heat exchanger and ECM bronze head circulator factory installed, an exclusive Nordic feature in the air-source market.

### Performance Ratings

Complete performance ratings can be found in the ATW Series product manual.

<table>
<thead>
<tr>
<th>Model</th>
<th>Indoor Liquid Flow (USGPM / L/s)</th>
<th>Pressure Drop (PSI / kPA)</th>
<th>LLT 105°F (41°C)</th>
<th>Outdoor Air 47°F (8.3°C)</th>
<th>Outdoor Air 17°F (-8.3°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Indoor Liquid Flow (USGPM / L/s)</td>
<td>Pressure Drop (PSI / kPA)</td>
<td>Input Energy (Watts)</td>
<td>Capacity (Btu/hr)</td>
<td>COPh</td>
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<tr>
<td>25</td>
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