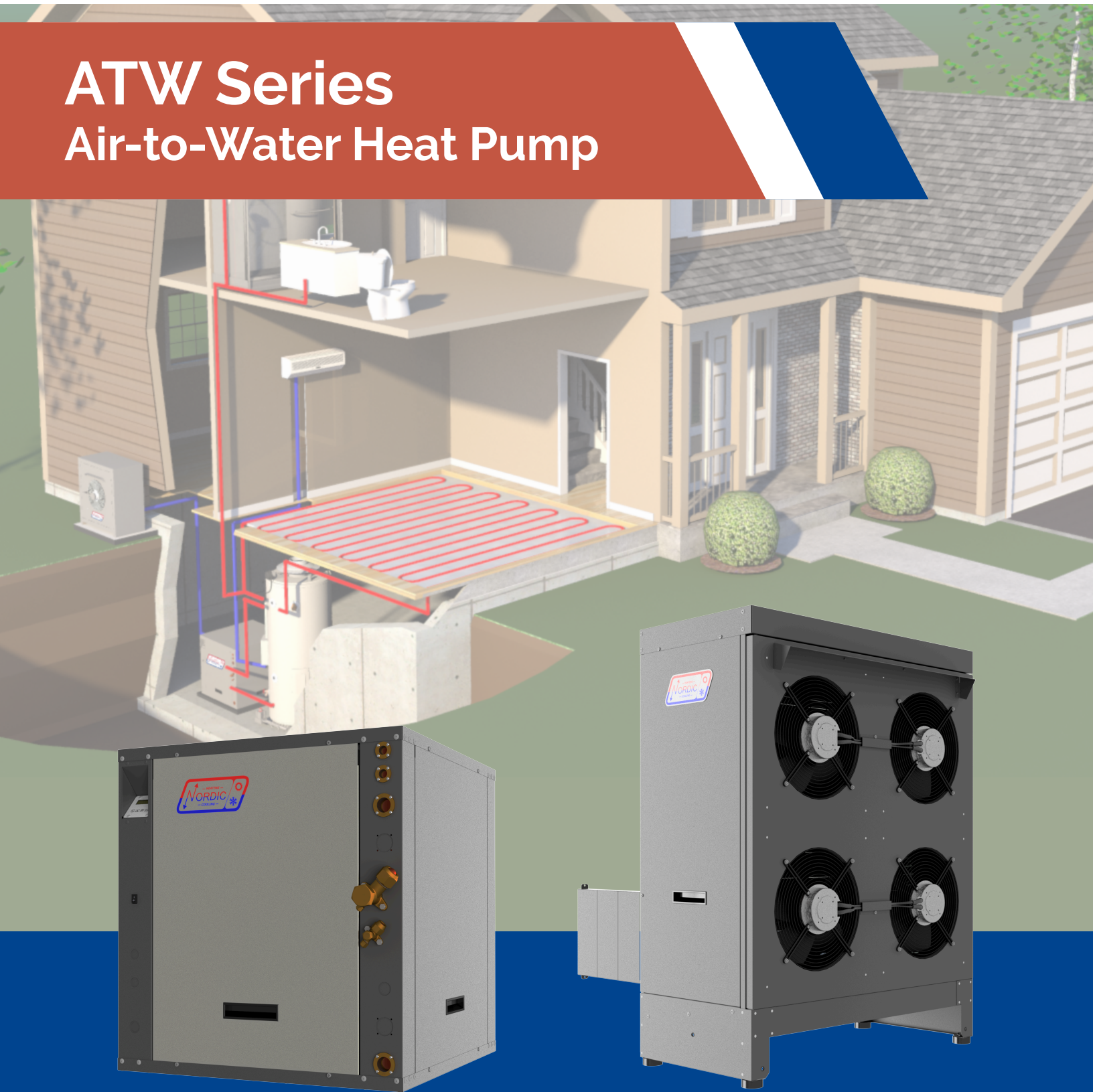




ATW Series

Air-to-Water Heat Pump



- A split air-to-water heat pump with hydronic heating up to 120°F (49°C)
- Desuperheater for domestic hot water

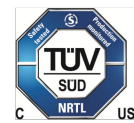
- Compressor housed inside indoor unit
- Outdoor temperature down to -7°F (-22°C)
- COPh up to 4.34



ATW Series

The air-to-water 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 **two to five nominal tons for whole-home applications.**

Certification



Features & Benefits

Indoor Unit - A 28" x 28" footprint.

Outdoor Unit - Has a hinge mounted door, true variable speed with ECM-style hub motor for maximum energy efficiency. Mounting leg kits are available.

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

Refrigerant Leak Detector - Optimized for safety of R454b, an A2L refrigerant.

EEV (Electronic Expansion Valve) - Maintains an accurate and efficient refrigerant flow.

Filter-Dryer & Sight Glass - Standard on all units.

Accumulator - Protects compressor against liquid slugging.

Coaxial Heat Exchanger - Enhanced surface coaxial style heat exchanger (CuNi available).

Domestic Hot Water - double wall heat exchanger and bronze head circulator factory installed.

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

Outdoor Ice Channeling Design - Angled outdoor coil, no bottom tray to reduce ice build-up.

Gen2 Board - Includes built-in aquastat functionality, BACnet MS/TP, data logging, electronic readout of refrigerant pressures and water in/out temperatures.

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

Service Ports - High and low service ports for quick connection to a manifold gauge set.

Cabinet - Satin galvanized with powder coat finish. Acoustically insulated for quiet operation.

Doors - Four removable side panels, electrical box swings out for unobstructed servicing.

Performance Ratings

Standard Capacity Ratings for Heating Mode (60Hz)

LLT 105°F (41°C)			Outdoor Air 17°F (- 8°C)			Outdoor Air 47°F (8°C)		
Model	Loop Flow		Input Energy	Capacity	COPh	Input Energy	Capacity	COPh
	GPM	L/s	Watts	Btu/hr		Watts	Btu/hr	
25	8.0	0.50	1,625	13,200	2.38	1,400	20,300	4.25
45	10.0	0.63	2,488	20,800	2.45	2,087	30,900	4.34
55	12.0	0.76	3,294	27,200	2.42	2,802	41,200	4.31
65	14.0	0.88	4,201	34,400	2.40	3,533	51,600	4.28
75	16.0	1.00	4,764	39,200	2.41	4,048	59,400	4.30

Standard Capacity Ratings for Cooling Mode (60Hz)

ELT 54°F (12°C)			Outdoor Air 95°F			
Model	Loop Flow		Input Energy	Capacity	EER	COPc
	GPM	L/s	Watts	Btu/hr		
25	8.0	0.50	1,670	16,200	9.7	2.84
45	10.0	0.63	2,422	24,700	10.2	2.99
55	12.0	0.76	3,260	32,600	10.0	2.93
65	14.0	0.88	4,079	41,200	10.1	2.96
75	16.0	1.00	4,758	47,100	9.9	2.90