



# ATA Series Air-to-Air Heat Pump



- Air source heating & cooling
- Desuperheater for domestic hot water
- Whole home sizes up to 6 nominal tons
- Outdoor temperature range of -7°F (-22°C) to 113°F (45°C)
- COPh up to 3.85



## ATA Series

Our air-to-air series uses heat transfer to and from the outdoor air to heat and cool the indoor air via a centralized duct system. Available in sizes from 2 to 6 nominal tons, for whole home applications.

## Certification



### Features & Benefits

**Indoor Unit** - A 24" x 28" footprint, with premium appearance. Air discharge is field changeable from top to side.

**4-Fan Outdoor Unit** - For superior heating in colder outdoor temperatures and ultra efficient cooling.

**Fans** - Both indoor and outdoor unit fans are true variable speed with ECM-style motors, for comfort and energy efficiency.

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

**Outdoor Ice Channeling Design** - Less ice build-up with no bottom tray and angled outdoor coil

**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.

**Gen2 Electronic Control Board** - With built-in digital user interface. Includes data logging, laptop USB connection, and BACnet interface.

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

**Electronic Expansion Valves (EEV's)** - For precise refrigerant control.

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



## Performance Ratings

### Standard Capacity Ratings for Heating Mode (60Hz)

Indoor Air 70°F (21°C) db / 60°F (15.6°C) wb			H12 - Outdoor Air 47°F (8.3°C)				H22 - Outdoor Air 35°F (1.7°C)				H32 - Outdoor Air 17°F (-8.3°C)			
Model	Indoor Airflow		Input Energy	Capacity		COPh	Input Energy	Capacity		COPh	Input Energy	Capacity		COPh
	cfm	L/s	Watts	Btu/hr	kW	W/W	Watts	Btu/hr	kW	W/W	Watts	Btu/hr	kW	W/W
25	800	378	1,520	19,900	5.8	3.84	1,485	16,800	4.9	3.32	1,395	13,100	3.8	2.74
45	1200	566	2,290	30,100	8.8	3.85	2,240	25,500	7.5	3.34	2,100	19,600	5.8	2.74
55	1500	708	3,110	40,700	11.9	3.83	3,030	34,400	10.1	3.33	2,760	25,700	7.5	2.72
65	1900	897	3,955	51,800	15.2	3.84	3,810	43,200	12.7	3.32	3,560	32,800	9.6	2.70
75	2100	991	4,550	59,400	17.4	3.83	4,485	50,700	14.9	3.31	4,295	39,000	11.4	2.66

### Standard Capacity Ratings for Cooling Mode (60Hz)

Indoor Air 80°F (26.7°C) db / 67°F (19°C) wb			B2 - Outdoor Air 82°F (27.8°C)					A2 - Outdoor Air 95°F (35°C)				
Model	Indoor Airflow		Input Energy	Capacity		EER	COPc	Input Energy	Capacity		EER	COPc
	cfm	L/s	Watts	Btu/hr	kW	Btu/W-hr	W/W	Watts	Btu/hr	kW	Btu/W-hr	W/W
25	800	378	1,510	22,400	6.6	14.9	4.35	1,740	20,600	6.0	11.9	3.47
45	1200	566	2,235	34,100	10.0	15.2	4.47	2,605	31,400	9.2	12.1	3.53
55	1500	708	2,925	44,000	12.9	15.0	4.41	3,410	40,600	11.9	11.9	3.49
65	1900	897	3,725	55,400	16.2	14.9	4.36	4,310	51,200	15.0	11.9	3.48
75	2100	991	4,385	64,600	18.9	14.7	4.31	5,010	59,200	17.4	11.8	3.46