



ATF Series

Air-to-Air & Water Heat Pump



- All-in-one air source forced air heating & cooling and hydronic heating
- 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)
- Microprocessor controlled with BACnet compatibility and data logging

ATF Series

Our Air-to-Air & Water (ATF) Series heat pump heats air for forced air heating and cools air for centralized air conditioning. It also heats water for hydronic heating systems, with user-selectable priority. Available in sizes up to 6 tons, for whole home applications.

Certifications



Features & Benefits

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

Large Capacity Outdoor Unit - for superior heating in colder outdoor temperatures and ultra efficient cooling.

Fan Units - 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 - no bottom tray & angled outdoor coil means 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 built-in digital user interface. Includes outdoor reset function, 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 - 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.

Hydronic Heat Coil - heavy duty coaxial type, for excellent solids tolerance and resistance to freezing. Available in corrosion resistant CuNi.



Performance Ratings

For hydronic heating ratings please consult the product manual.

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

Indoor Air 80°F (26.7°C) db / 67°F (19°C) wb			H12 - Outdoor Air 82°F (27.8°C)					H22 - 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
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