



# ATF Series

## Air-to-Air & Water Heat Pump



- All-in-one air source forced air heating, cooling & hydronic heating
- Desuperheater for domestic hot water
- Copeland part-load compressor inside indoor unit
- COPh up to 3.93
- Suitable for whole home applications
- Outdoor temperature range of  $-7^{\circ}\text{F}$  ( $-22^{\circ}\text{C}$ ) to  $113^{\circ}\text{F}$  ( $45^{\circ}\text{C}$ )
- R-454b low Global Warming Potential refrigerant
- Designed and built in Canada



## ATF Series

### Features & Benefits

**Distribution type** - Air sourced ducted heating and cooling, in-floor hydronic heating

**User selectable priority** - Choose air or water heating priority

**Size** - Sizes from 45 (8.8 kW) to 75 (17.2 kW)

**Leak detector** - For safety of R454b, an **A2L** refrigerant.

**4-Fan Outdoor Unit** - For more efficient heating and cooling in extreme conditions. Mounting leg kits available.

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

**Fans** - Indoor and outdoor unit fans are variable speed ECM for energy efficiency.

**Electronic Expansion Valve (EEV)** - For precise refrigerant control.

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

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

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

**Domestic Hot Water** - Double wall heat exchanger and factory installed ECM bronze head circulator.

**Part-load compressor** - Copeland two-stage scroll with double isolation. Located in the indoor unit for service convenience, and better refrigerant/oil management.

**Gen2 Electronic Control Board** - With built-in digital user interface. Outdoor reset function, data logging, laptop USB connection, BACnet MS/TP interface.

### Performance Ratings

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

Indoor Air 70°F (21°C) db / 60°F (15.6°C) wb			H22 - Outdoor Air 47°F (8.3°C)				H32-Outdoor Air 17°F (-8.3°C)			
Model	Indoor Airflow		Input Energy Watts	Capacity		COPh W/W	Input Energy Watts	Capacity		COPh W/W
	cfm	L/s		Btu/hr	kW			Btu/hr	kW	
45	1200	566	2,237	30,000	8.8	3.93	2,002	17,900	5.2	2.62
55	1500	708	3,013	40,200	11.8	3.91	2,649	23,500	6.9	2.60
65	1900	897	3,820	51,100	15.0	3.92	3,383	29,900	8.8	2.59
75	2100	991	4,392	58,600	17.2	3.91	4,092	35,600	10.4	2.55

#### 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 Watts	Capacity		EER Btu/W-hr	COPc W/W	Input Energy Watts	Capacity		EER Btu/W-hr	COPc W/W
	cfm	L/s		Btu/hr	kW				Btu/hr	kW		
45	1200	566	2,132	32,400	9.5	15.2	4.45	2,517	30,200	8.9	12.0	3.52
55	1500	708	2,768	41,800	12.3	15.1	4.43	3,314	39,100	11.5	11.8	3.46
65	1900	897	3,507	52,600	15.4	15.0	4.40	4,178	49,300	14.4	11.8	3.46
75	2100	991	4,142	61,300	18.0	14.8	4.34	4,872	57,000	16.7	11.7	3.43

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

Indoor Air 70°F (21°C) db / 60°F (15.6°C) wb					H12 - Outdoor Air 47°F (8.3°C)				H32 - Outdoor Air 17°F (-8.3°C)			
Model	Indoor Liquid Flow		Pressure Drop		Input Energy Watts	Capacity		COPh W/W	Input Energy Watts	Capacity		COPh W/W
	GPM	L/s	psi	kPa		Btu/hr	kW			Btu/hr	kW	
45	10.0	0.63	3.8	26	2,087	30,900	9.1	4.34	2,488	20,800	6.1	2.45
55	12.0	0.76	3.4	23	2,802	41,200	12.1	4.31	3,294	27,200	8.0	2.42
65	14.0	0.88	4.7	32	3,533	51,600	15.1	4.28	4,201	34,400	10.1	2.40
75	16.0	1.01	3.8	26	4,048	59,400	17.4	4.30	4,767	39,200	11.5	2.41



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