



R Series Water-to-Air Heat Pump



- Geothermal forced air heating & cooling
- Desuperheater for domestic hot water
- Copeland part-load compressor
- COPh up to 4.7
- 24" x 28" footprint (vertical model)
- Suitable for whole home applications
- Vertical or horizontal configurations
- R-454b low Global Warming Potential refrigerant
- ENERGY STAR® certified
- Suitable for open or closed loops
- Designed and built in Canada



R Series

Features & Benefits

Size - Sizes from 45 (6.1kW) through 75 (14.7 kW).

Built-in Refrigerant Detection System - Optimized for safety of R454b, an **A2L** refrigerant.

Oversized blower for quiet operation - Motor is a constant airflow variable speed ECM, serviceable from one side.

Gen 2 Control Board - Includes BACnet MS/TP, data logging, electronic readout of temperatures, refrigerant pressures and more.

Part-Load Compressor - Copeland high efficiency two-stage scroll compressor with double isolation mounting for quiet operation.

Domestic Hot Water Generation - Double wall heat exchanger and stainless steel ECM circulator factory installed on all sizes.

Drip Tray - Stainless steel with internally trapped clear vinyl drain (externally on RH).

Start Capacitor Kit - Standard on all units to maximize compressor longevity.

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

Accumulator - Protects compressor against liquid slugging.

Coaxial Heat Exchanger - Enhanced surface and heavy duty for efficiency and reliability (CuNi available).

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

Ease of Service - Four removable side panels for easy service.

Loop or Well - All sizes pre-wired for a closed loop or a water well.



Performance Ratings

Standard Capacity Ratings for Open Loop (60Hz)

Rating Conditions	Model	Flow (GPM)	Mode	Heating Capacity (Btu/hr)	Input Energy (Watts)	COPh (Heating)	Cooling Capacity (Btu/hr)	Input Energy (Watts)	COPc (Cooling)	EER
Open Loop Heating EWT 50°F Cooling EWT 59°F	45	10.0	Stage 1	25,200	1,609	4.59	28,000	1,022	8.03	27.4
			Stage 2	35,200	2,352	4.39	36,500	1,706	6.27	21.4
	55	12.0	Stage 1	34,100	2,040	4.90	35,400	1,238	8.38	28.6
			Stage 2	46,600	2,978	4.59	47,600	2,106	6.62	22.6
	65	14.0	Stage 1	42,200	2,631	4.70	44,800	1,647	7.97	27.2
			Stage 2	57,900	3,729	4.55	59,400	2,750	6.33	21.6
	75	16.0	Stage 1	51,300	3,429	4.39	51,500	2,102	7.18	24.5
			Stage 2	67,600	4,618	4.29	68,000	3,542	5.63	19.2

Standard Capacity Ratings for Closed Loop (60Hz)

Closed Loop Heating EWT 32°F (Stg 1 EWT 41°F) Cooling EWT 77°F (Stg 1 EWT 68°F)	45	10.0	Stage 1	20,800	1,438	4.24	25,800	1,088	6.95	23.7
			Stage 2	25,700	2,119	3.55	33,800	2,024	4.89	16.7
	55	12.0	Stage 1	27,500	1,947	4.14	34,400	1,404	7.18	24.5
			Stage 2	33,600	2,681	3.67	43,700	2,570	4.98	17.0
	65	14.0	Stage 1	33,900	2,522	3.94	43,800	1,939	6.62	22.6
			Stage 2	41,500	3,342	3.64	55,400	3,317	4.89	16.7
	75	16.0	Stage 1	42,600	3,251	3.84	50,700	2,416	6.15	21.0
			Stage 2	50,200	4,143	3.55	63,900	4,233	4.43	15.1



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