



# W Series Water-to-Water Heat Pump



- Geothermal radiant in-floor heating
- Desuperheater for domestic hot water
- COPh up to 3.9
- Hot water temperatures up to 120°F
- Suitable for whole home applications

- R-454b: a low Global Warming Potential refrigerant
- ENERGY STAR® certified
- Suitable for open or closed loops
- Designed and built in Canada



## W Series

### Features & Benefits

**Size** - Sizes from 25 (4.8kW) through 80 (16kW).

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

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

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

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

**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.

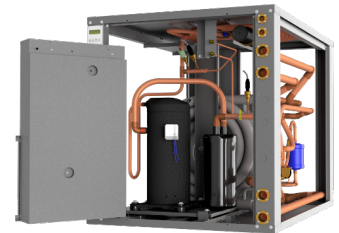
**Service Ports** - High and low service ports for quick connection to manifold gauge.

**Coaxial Heat Exchangers** - 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, electrical box swings out for unobstructed service.

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



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## 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 104°F Cooling EWT 54°F	25	8.0	Stage 1	16,200	1,256	3.78	16,800	656	7.50	25.6
			Stage 2	22,300	1,685	3.88	22,000	1,043	6.18	21.1
	45	10.0	Stage 1	22,500	1,792	3.68	23,300	935	7.30	24.9
			Stage 2	33,100	2,436	3.98	32,300	1,575	6.01	20.5
	55	12.0	Stage 1	31,700	2,394	3.88	32,200	1,298	7.27	24.8
			Stage 2	44,400	3,445	3.78	42,400	2,058	6.04	20.5
	65	14.0	Stage 1	38,800	3,090	3.68	39,200	1,660	6.92	23.6
			Stage 2	54,200	4,206	3.78	52,000	2,561	5.95	20.3
	75	16.0	Stage 1	47,200	3,660	3.78	47,300	2,003	6.92	23.6
			Stage 2	63,700	4,691	3.98	59,200	2,930	5.92	20.2
	80*	17.0	Stage 1	74,000	5,731	3.78	67,400	3,457	5.71	19.5
			Stage 2	W-80 is not ENERGY STAR® certified						

### Standard Capacity Ratings for Closed 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
Closed Loop Heating EWT 104°F (Stg 1 ELT 41°F) Cooling EWT 54°F (Stg 1 ELT 68°F)	25	8.0	Stage 1	13,300	1,237	3.15	16,500	897	5.39	18.4
			Stage 2	16,300	1,566	3.05	20,200	1,403	4.22	14.4
	45	10.0	Stage 1	17,900	1,720	3.05	22,100	1,163	5.57	19.0
			Stage 2	24,000	2,303	3.05	29,300	2,021	4.25	14.5
	55	12.0	Stage 1	26,000	2,498	3.05	30,300	1,561	5.69	19.4
			Stage 2	32,700	3,140	3.05	48,800	2,604	4.37	14.9
	65	14.0	Stage 1	32,200	3,094	3.05	37,600	1,910	5.77	19.7
			Stage 2	40,200	3,867	3.05	47,700	3,202	4.37	14.9
	75	16.0	Stage 1	38,800	3,610	3.15	43,900	2,451	5.25	17.9
			Stage 2	46,300	4,450	3.05	53,800	3,634	4.34	14.8
	80*	17.0	Stage 1	54,300	5,310	3.00	62,300	4,272	4.27	14.6
			Stage 2	W-80 is not ENERGY STAR® certified						