



W Series Water-to-Water Heat Pump



- Geothermal radiant in-floor heating.
- Desuperheater for domestic hot water
- COP up to 3.9
- Hot water temperatures up to 120°F

- Available in sizes 2 to 6 nominal tons for whole home applications
- CuNi heat exchanger available
- Open or closed loop





W Series

The residential water to water heat pump (W Series) is a geothermal heat pump that heats water for radiant in-floor heating, and uses its built-in desuperheater to preheat domestic hot water. This unit is available in sizes from 2 to 6 nominal tons, and works on an open or closed ground loop.

Features & Benefits

Indoor Unit - Industry leading 24" x 28" footprint with premium appearance.

Compressor - Copeland Ultratech® two-stage scroll, with double isolation for quiet operation.

Hard Start Kit - Standard on all models.

TXV - Expansion valve system maintains maximum capacity under all operating conditions.

Filter Drier & Sight Glass - Standard on all units.

Accumulator - Protects compressor against liquid slugging.

Turbotec® - Enhanced surface coaxial style heat exchangers (CuNi available).

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

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

Electronic Lock-Out Board - With short cycle timer protection.

Cabinet - Satin galvanized with baked enamel finish. Acoustically insulated for quiet operation.

Doors - All 4 side panels can be removed, electrical box swings out for unobstructed 4-side servicing.

Thermostats - Ranco® 2-stage digital aquastats available.

Loop or Well - Unit pre-wired for operation on a closed loop or a water well.



Standard Capacity Ratings for Open Loop (60Hz)

Rating Conditions	Model	Tons	Flow (GPM)	Outdoor dP (psi)	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	2	8.0	4.2	Stage 1	16,400	1,300	3.7	17,700	695	7.5	25.5
					Stage 2	22,600	1,740	3.8	23,200	1,105	6.2	21.0
	45	3	10.0	3.9	Stage 1	22,800	1,855	3.6	24,500	985	7.3	24.8
					Stage 2	32,700	2,455	3.9	34,000	1,665	6.0	20.4
	55	4	12.0	3.6	Stage 1	32,100	2,475	3.8	33,900	1,370	7.2	24.7
					Stage 2	45,000	3,565	3.7	44,700	2,180	6.0	20.5
	65	5	14.0	5.1	Stage 1	39,300	3,200	3.6	41,300	1,755	6.9	23.5
					Stage 2	54,900	4,345	3.7	54,800	2,710	5.9	20.2
	75	6	16.0	4.6	Stage 1	47,800	3,785	3.7	49,800	2,120	6.9	23.5
					Stage 2	64,500	4,845	3.9	62,400	3,105	5.9	20.1
	80	6	17.0	4.2	Stage 1	77,000	6,095	3.7	73,000	3,725	5.7	19.6
					Stage 2							

Standard Capacity Ratings for Closed Loop (60Hz)

Closed Loop Heating EWT 104°F (Stg 1 ELT 41°F) Cooling EWT 54°F (Stag 1 ELT 68°F)	25	2	8.0	4.9	Stage 1	14,100	1,290	3.2	17,100	800	6.5	21.4
					Stage 2	17,300	1,635	3.1	21,000	1,305	4.7	16.1
	45	3	10.0	4.5	Stage 1	19,200	1,760	3.2	23,000	1,205	5.6	19.1
					Stage 2	26,000	2,455	3.1	31,000	2,125	4.3	14.6
	55	4	12.0	4.1	Stage 1	29,000	2,740	3.1	31,500	1,615	5.7	19.5
					Stage 2	34,600	3,270	3.1	40,300	2,685	4.4	15.0
	65	5	14.0	6.3	Stage 1	34,100	3,120	3.2	39,100	1,975	5.8	19.8
					Stage 2	42,600	4,025	3.1	49,600	3,305	4.4	15.0
	75	6	16.0	4.9	Stage 1	41,100	3,765	3.2	45,600	2,535	5.3	18.0
					Stage 2	49,000	4,630	3.1	55,900	3,750	4.4	14.9
	80	6	17.0	4.5	Stage 1	58,000	5,860	2.9	66,000	4,460	4.3	14.8
					Stage 2							