



W Series Commercial Water-to-Water Heat Pump & Chiller



- Water-to-water heat pump and chiller for large-scale heating
- Small footprint for single or multi-unit configurations
- Available in sizes up to 81 tons
- Two separate R410a circuits for part and full-load efficiency
- Control board with BACnet compatibility
- COPh up to 4.80



W Series Commercial

Our commercial water-to-water heat pump and chiller is designed for large-scale heating and cooling. This unit has a small footprint and can be installed in single or multi-unit configurations.

Certifications



Features & Benefits

Size - W-150 to W- 400 has about a 25" x 49" footprint and the W-500 to W-1000 has about a 29" x 60" footprint with vertical configuration.

Frame - welded and reinforced for industrial strength, can be lifted with a forklift from end or side.

Enclosure - Removable with full 1" acoustic insulation.

Multiple Unit Installations - Set units side-by-side with minimal clearance; all service can be performed from ends of units.

Dual Circuit - Two separate R410a circuits with common water circuit, for best part and full load efficiency and best oil management.

Pipe Routing - Dual refrigerant circuits are clearly separated for ease of service.

Dual Shell Scroll Compressors - High tolerance for flooded starts and next-generation PVE oil, for increased reliability and efficiency.

Electronic Expansion Valves (EEV's) - For precise refrigerant superheat control.

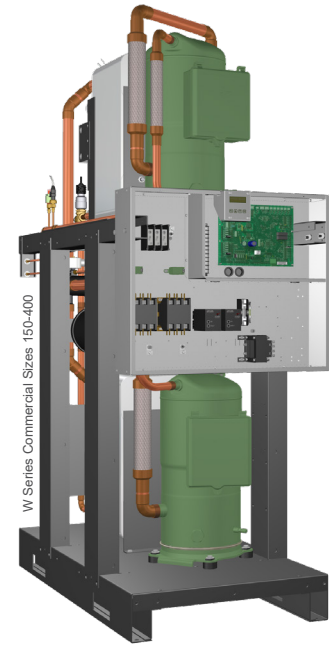
Suction Accumulators - Standard; protects compressor from liquid slugging.

Reversing Valve - Available

Electronic Control Board - With external digital user interface, and BACnet communications. USB port for laptop connection using free provided software.

Full 3-Phase Protection - On both compressors.

Water Circuit - Stainless steel, for open or closed loop operation.



Standard Capacity Ratings for Open Loop (60Hz)

Performance Rating Conditions	Model	Tons	Flow (GPM)	Outdoor dP (psi)	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	W-150	12	36	2.0	153,800	10,386	4.34	156,300	7,242	6.33	21.6
	W-185	15	48	2.3	207,300	13,871	4.38	188,800	8,711	6.36	21.7
	W-240	20	60	2.7	274,500	17,625	4.56	253,900	11,890	6.26	21.4
	W-300	23	72	2.7	316,900	19,360	4.80	297,700	13,330	6.54	22.3
	W-400	30	100	2.8	408,600	25,970	4.61	393,000	18,190	6.33	21.6
	W-500	40	120	4.0	569,800	36,465	4.58	493,500	23,005	6.28	21.4
	W-600	50	150	4.4	683,400	42,630	4.70	620,000	29,055	6.25	21.3
	W-800	65	190	4.6	850,600	54,885	4.54	796,400	37,335	6.25	21.3
	W-900	70	210	4.7	914,800	59,500	4.51	872,500	41,600	6.15	21.0
	W-1000	81	225	4.6	1,076,100	74,774	4.22	981,700	47,213	6.10	20.8

Standard Capacity Ratings for Closed Loop (60Hz)

Closed Loop Heating EWT 104°F Cooling EWT 54°F 35% Propylene Glycol	W-150	12	36	2.7	115,100	10,067	3.35	140,700	9,085	4.55	15.5
	W-185	15	48	2.9	155,400	13,308	3.42	172,300	11,054	4.57	15.6
	W-240	20	60	3.3	197,900	16,790	3.45	224,600	14,635	4.50	15.4
	W-300	23	72	3.7	231,000	18,650	3.66	272,500	15,960	5.00	17.1
	W-400	30	100	3.5	291,700	24,915	3.43	365,300	22,070	4.85	16.6
	W-500	40	120	5.5	423,900	36,400	3.41	474,600	29,055	4.79	15.5
	W-600	50	150	5.9	478,900	41,150	3.41	578,000	36,415	4.65	15.9
	W-800	65	190	6.0	612,500	52,910	3.39	743,800	47,030	4.63	15.8
	W-900	70	210	6.2	683,500	57,600	3.48	802,000	52,300	4.50	15.3
	W-1000	81	225	5.9	808,900	72,771	3.26	900,300	58,812	4.49	15.3