

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 R454B (A2L) Refrigerant circuits for part and full-load efficiency
- Control board with BACnet compatibility
- COPh up to 4.74

nordicghp.com





Maritime Geothermal Ltd.



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.

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 R454B (A2L) refrigerant 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.

Certifications
Intercial Sizes 150-400

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	151,800	10,053	4.43	148,300	6,833	6.36	21.7	
	W-185	15	48	2.3	204,600	13,405	4.47	179,300	8,226	6.39	21.8	
	W-240	20	60	2.7	266,900	17,055	4.59	236,200	10,935	6.33	21.6	
	W-300	23	72	2.7	312,800	19,340	4.74	282,900	12,918	6.42	21.9	
	W-400	30	100	2.8	403,300	25,120	4.71	373,000	17,113	6.39	21.8	
	W-500	40	120	4.0	525,900	32,962	4.68	477,000	22,183	6.30	21.5	
	W-600	50	150	4.4	654,000	41,152	4.66	588,400	27,493	6.27	21.4	
	W-800	65	190	4.6	839,500	52,969	4.64	755,800	35,316	6.27	21.4	
	W-900	70	210	4.7	902,900	57,475	4.60	828,000	39,065	6.21	21.2	
	W-1000	81	225	4.6	1,053,500	68,622	4.50	930,200	44,081	6.18	21.1	
Standard Capacity Ratings for Closed Loop (60Hz)												
	W-150	12	36	2.7	108,700	9,639	3.30	135,400	8,623	4.60	15.7	
	W-185	15	48	2.9	146,600	12,766	3.37	165,800	10,562	4.60	15.7	
	W-240	20	60	3.3	194,300	16,398	3.47	216,300	13,604	4.66	15.9	
Closed Loop Heating EWT 104°F Cooling EWT 54°F 35% Propylene Glycol	W-300	23	72	3.7	218,100	18,194	3.51	262,100	16,180	4.75	16.2	
	W-400	30	100	3.5	275,400	23,851	3.38	351,400	21,822	4.72	16.1	
	W-500	40	120	5.5	367,800	32,049	3.36	452,700	28,287	4.69	16.0	
	W-600	50	150	5.9	462,000	40,296	3.36	556,000	35,186	4.63	15.8	

W-800

W-900

W-1000

65

70

81

190

210

225

6.0

6.2

5.9

51,364

55,886

66,657

3.34

3.35

3.33

715,500

771,500

864,500

585,800

638,600

756,500

4.60

4.54

4.51

15.7

15.5

15.4

45,562

49,785

56,129