

W Series Commercial

Water-to-Water Heat Pump & Chiller



- **Water-to-water heat pump & chiller**
- **Available in sizes up to 81 tons**
- **Small footprint for single or multi-unit configurations**
- **COPh up to 4.75**
- **Dual circuits for part & full-load efficiency (sizes 150 and up)**
- **Control board with on-board BACnet MS/TP**



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The Nordic® water-to-water heat pump and chiller is designed for industrial-scale heating and cooling. This unit's compact footprint allows for installation in single or multi-unit configurations.

Features & Benefits

Small footprint - W-150 to W-400 features a 25" x 49" footprint and the W-500 to W-1000 has 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 zero 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.

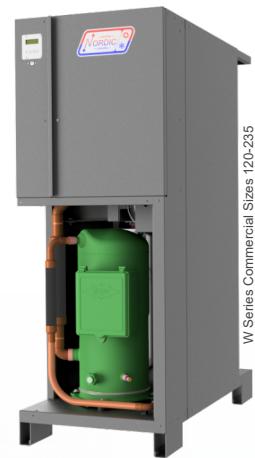
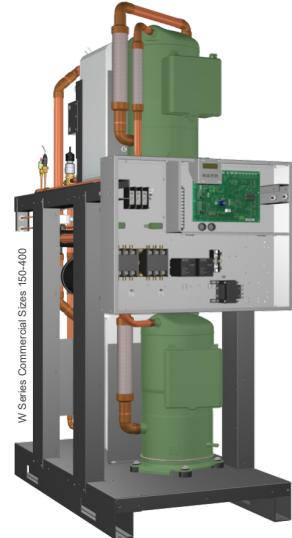
Suction Accumulators - Standard; protects compressor from liquid slugging.

Reversing Valve - Available up to size 800.

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

Full 3-Phase Protection - On both compressors.

Water Circuit - Stainless steel true dual circuit brazed plates.



W Series Commercial Sizes 120-235

Pricing, Availability, Specifications & Manuals

Please call 1-506-756-8135 or email info@nordicgp.com for pricing and availability.

Full performance tables, specifications and manuals are available at nordicgp.com

Certifications



Standard Capacity Ratings (60Hz)

Performance Rating Conditions	Model	Tons	Flow (GPM)	Heating Capacity (Btu/hr)	Input Energy (Watts)	COP _h (Heating)	Cooling Capacity (Btu/hr)	Input Energy (Watts)	COP _c (Cooling)	EER
Single Circuit										
	W-120	10	30	91,000	7,900	3.38	109,500	7,205	4.45	15.2
	W-140	11.5	34	104,600	8,980	3.41	125,800	8,225	4.48	15.3
	W-180	15	45	136,200	11,783	3.39	164,100	10,871	4.43	15.1
	W-235	20	60	177,100	15,284	3.40	213,400	14,037	4.45	15.2
Dual Circuit										
Closed Loop Heating EWT 104°F Cooling EWT 54°F 35% Propylene Glycol	W-150	12	36	108,700	9,639	3.30	135,400	8,623	4.60	15.7
	W-185	15	48	146,600	12,766	3.37	165,800	10,562	4.60	15.7
	W-240	20	60	194,300	16,398	3.47	216,300	13,604	4.66	15.9
	W-300	23	72	218,100	18,194	3.51	262,100	16,180	4.75	16.2
	W-400	30	100	275,400	23,851	3.38	351,400	21,822	4.72	16.1
	W-500	40	120	367,800	32,049	3.36	452,700	28,287	4.69	16.0
	W-600	50	150	462,000	40,296	3.36	556,000	35,186	4.63	15.8
	W-800	65	190	585,800	51,364	3.34	715,500	45,562	4.60	15.7
	W-900	70	210	638,600	55,886	3.35	771,500	49,785	4.54	15.5
	W-1000	81	225	756,500	66,657	3.33	864,500	56,129	4.51	15.4