

WATER-TO-WATER GEOTHERMAL HEAT PUMPS

'HNW Open Loop' Series

These flexible systems, available in 3, 5, and 10 ton capacities, have a wide range of HVAC and industrial applications. Units are used for such applications as radiant floors, snow/ice melting, chilled water for fan coils, potable hot water, and other types of residential or industrial applications that require cost-effective heated or chilled water. They can be installed using a ground loop, ground water or water loop (boiler/cooling tower) installation.

As with all geothermal models, they offer the benefits of super high efficiency with low operating costs.

As reverse cycle heat pumps, HNW models can provide both hot and chilled water, as well as domestic hot water. All HNW units can be installed side by side for large capacity applications, thanks to compact size, single side service access, and water connections at the top of the unit.

With no outdoor fan, special mounting systems and 1/2" dual density acoustic type fiberglass cabinet insulation, operation is exceptionally quiet. A system performance monitor signals when the system is not running at peak performance so maintenance can be scheduled. Units come pre-charged with R-410A.



HNW Series 3 to 10 Tons



Exceeds ASHRAE 90.1 efficiencies

Limited Warranty—
5 years on compressor, 1 year parts
(Some limitations apply; see printed warranty for details.)

Features

- **Microprocessor Controls**—State-of-the-art controls include on-board diagnostics and seven standard “Safeties” to protect the unit and the compressor, including anti-short cycle, over- and under-voltage, loss of charge, high refrigerant pressure and more
- **Quiet Operation**—Double isolation compressor mounting system and compressor compartment insulation minimize operating sound
- **Scroll Compressor**—Dependable design is proven efficient and quiet, with internally sprung and externally isolated vibration isolation system, including rubber grommet mounts
- **System Performance Monitoring**—Signals when the system is not running at peak performance, much like a car’s check engine light, so maintenance can be scheduled
- **Easy Service Access**—All components can be accessed through a front panel for maintenance and service; side panel can also be opened

Comfort-Aire®

Water-to-water geothermal has the flexibility to suit many applications

Our HNW Series combines the benefits of geothermal efficiency with the comfort of in-floor radiant heating—plus a variety of other applications including spa and pool water heating, chilled water for industrial uses, and snow/ice melting. Available in three popular sizes, multiple models can be installed side by side to accommodate a wide range of application requirements.

As with all geothermal technology, no gas or oil is combusted so there are no fumes, no open flames, and no odors to worry about. And with radiant floor heating, the noise and drafts of air being delivered through ductwork are eliminated.

The U.S. Dept. of Energy calls geothermal “...a clean energy source ready for us to use, to heat and cool our homes and buildings while lowering our utility bills.”



AHRI/ISO/ASHRAE/ANSI 13256-2 Performance

Models	Ground Water				Water Loop				Ground Loop				Shipping Weight (lbs)
	Cooling Indoor 53.6° F Outdoor 59° F		Heating Indoor 104° F Outdoor 50° F		Cooling Indoor 53.6° F Outdoor 86° F		Heating Indoor 104° F Outdoor 68° F		Cooling Indoor 53.6° F Outdoor 77° F		Heating Indoor 104° F Outdoor 32° F		
	BTUH	EER	BTUH	COP	BTUH	EER	BTUH	COP	BTUH	EER	BTUH	COP	
	Cupro-Nickel Coil												
HNW036A	36,200	23.1	35,300	4.0	32,300	14.6	43,100	4.9	33,300	16.4	27,400	3.1	373
HNW060B	56,600	20.3	60,300	4.0	52,800	14.3	72,700	4.7	55,600	16.2	48,500	3.1	385
HNW120B	113,200	20.1	120,600	3.9	105,600	14.1	145,400	4.6	111,200	16.1	97,000	3.1	770
Hot Water Generator and Pump													
HNW036A	36,200	23.1	35,300	4.0	32,300	14.6	43,100	4.9	33,300	16.4	27,400	3.1	373
HNW060B	56,600	20.3	60,300	4.0	52,800	14.3	72,700	4.7	55,600	16.2	48,500	3.1	385
HNW120B	113,200	20.1	120,600	3.9	105,600	14.1	145,400	4.6	111,200	16.1	97,000	3.1	770

NOTES:

Units available in 208/230-1-60.

208/230-1-60 models available with hot water generator with internal pump.

Dimensional Data

Capacity	Overall Cabinet			
		Width	Depth	Height
HNW036-60	in	25.4	30.6	33.0
	cm	64.5	77.8	83.8
HNW120	in	52.9	30.6	37.0
	cm	134.4	77.8	94.0

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product before beginning any installation preparations. All products meet applicable regulations in effect on date of manufacture; however, certifications aren't necessarily granted for life of the product. It is the responsibility of the applicant to determine whether a specific model qualifies for third party incentive/rebate programs (Federal, state, utilities, etc.).



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