

Horizontal Water Source Heat Pumps



Heating

Cooling

Fresh Air

Clean Air

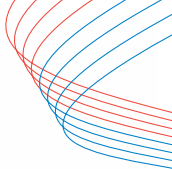


Performance and Dependability

Zehnder Horizontal Heat Pumps provide industry leading performance with technology you can trust. Advanced design concepts in sound attenuation and efficiency (exceed ASHRAE 90.1) were the driving factors for standard features.

- Sizes 009 (3/4 ton, 2.64 kW) through 072 (6 ton, 21.1 kW)
- Acoustic attenuation design features
 - 1/2" closed cell foam insulation utilized in blower section (improved IAQ)
 - Sound abating egg crate design in compressor compartment
 - Dual compressor vibration isolation
- High efficiency (EER and COP) ratings incorporated into a minimum footprint
 - Highly effective coaxial heat exchanger design
 - High efficiency compressor design
 - Refrigeration circuit optimized for airflow distribution
- Easy service access from three sides
- Microprocessor control system (LonWorks and BACnet compatibility)
- Comprehensive operating safety/fault features
- Hydrophilic coated air coil
- Easily accessible blower section is field configurable
- Stainless steel insulated drain pan with condensate overflow protection

Zehnder Horizontal Water Source Heat Pumps were designed with the building owner and the contractor in mind. The energy savings of utilizing geothermal technology has been combined with easy maintenance features.



Performance Ratings

AHRI/ISO 13256-1 Performance Ratings

Size	CFM	GPM	Water Loop				Ground Water				Ground Loop			
			Cooling: 86 °F		Heating: 68 °F		Cooling: 59 °F		Heating: 50 °F		Cooling: 77 °F		Heating: 32 °F	
			Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
009	350	3.3	10500	16.2	12500	5.3	12000	23.0	10500	4.5	11000	18.5	8000	3.5
012	450	3.9	13000	15.7	15800	5.2	15500	24.5	12800	4.3	14500	18.0	9500	3.5
015	500	4.1	15500	18.0	18000	5.6	18000	30.0	14500	4.7	16500	21.0	10500	3.7
018	620	6.6	18000	17.0	21800	5.3	21000	26.5	17500	4.6	20000	19.5	13300	3.6
024	880	7.0	25000	17.9	31000	5.6	29000	28.0	24500	4.7	26000	18.3	18500	3.9
030	930	8.0	27600	18.0	34000	5.5	31500	27.5	27000	4.9	29000	21.0	20500	3.9
036	1270	10.0	37000	17.7	45000	5.6	42500	26.3	37000	4.9	40000	20.5	26000	3.8
043	1380	11.5	40000	17.0	48000	5.3	45000	25.0	39000	4.7	42000	19.2	28500	3.8
052	1700	13.2	47000	17.5	58000	5.6	55000	26.8	48000	5.1	49500	20.0	36500	4.1
062	2120	16.8	61000	16.5	77000	5.3	70000	24.8	62000	4.6	64500	19.2	49000	3.9
072	2350	18.5	68000	16.2	81000	5.0	76000	23.5	66000	4.4	72000	19.0	52500	3.7

Note: Cooling capacities based upon 80.6 °F DB, 66.2 °F WB entering air • Heating capacities based upon 68 °F DB, 59 °F WB entering air

Ratings Basis

Size	Voltage		Dimensions			Compressor		Fan	Total Unit		
	208-230/60/1	460/60/3	Height	Width	Length	RLA	LRA	FLA	FLA	MCA	MOP
009	Y	N	15.0	16.9	34.3	3.8	20.0	0.9	4.7	5.6	15
012	Y	N	15.0	16.9	34.3	5.0	27.0	0.9	5.9	7.1	15
015	Y	N	17.2	20.0	38.2	5.4	28.0	1.2	6.6	8.0	15
018	Y	N	17.2	20.0	38.2	6.6	43.0	1.2	7.8	9.5	15
024	Y	Y	19.0	20.0	42.0	13.5	58.3	1.6	15.1	18.4	30
030	Y	Y	19.7	26.0	49.2	12.8	58.3	1.6	14.4	17.6	30
036	Y	Y	21.7	23.6	49.2	5.6	38.0	3.0	8.6	10.0	15
043	N	Y	21.7	23.6	49.2	5.8	38.0	3.0	8.8	10.3	15
052	N	Y	21.7	27.6	61.0	6.1	41.0	4.2	10.3	11.8	20
062	N	Y	21.2	25.7	81.1	7.1	52.0	4.2	11.3	13.1	20
072	N	Y	21.2	25.7	81.1	7.8	52.0	4.2	12.0	14.0	20

Note: Electrical performance data for sizes 009-030 are at 208-230V/60Hz/1Ph; sizes 036-072 are at 460V/60Hz/3Ph

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