

# Vertical Stack Water Source Heat Pumps



Heating

Cooling

Fresh Air

Clean Air



## Quiet, energy-efficient comfort

The Zehnder Rittling Vertical Stack Water Source Heat Pump operates quietly and efficiently in the background, noticeable only for the perfect indoor climate.

Heavy duty construction and our custom design capabilities are unmatched in the industry. Our units help to maximize flexibility of selection and minimize cost of installation specifically for single and multi-floor applications.

- Industry leading sound quality
- Extremely energy efficient, up to 21.0 EER and 5.0 COP
- Innovative features for easy serviceability

## Features

### Innovative features

- First to market with drop down service legs, wheels on chassis bottom/inside cabinet for servicing
- Quadruple sound deadening is standard
- Easily accessible refrigerant test ports (optional front ports), no need to remove chassis
- Readily removable fan/motor deck through slide rail, single screw and quick connect design, optional ECM motors
- Optional communicating thermostat with 16 discreet failure codes to expedite troubleshooting

### Design flexibility

- Seven sizes: 3/4 – 3 ton
- Boiler/tower or geothermal
- Furred in or ducted with high static blower option

- Discharge air on one, two or three sides, including top
- Three acoustical return air panel options
- Exposed cabinet option

### Efficient

- Among the highest AHRI certified efficiencies and capacities, up to 21.0 EER and 5.0 COP
- Exceed ASHRAE 90.1 requirements

### Comfort

- Amongst the quietest solutions available
- Independently sound tested to AHRI 350-2008 standard
- Multi-speed blower maximizes comfort while minimizing noise

### Indoor air quality

- Stainless steel drain pan, positively sloped in two directions, has condensate overflow protection
- Coated aluminum air coils



## Standard and custom heat pump installations

### Housing/Condominiums

- Lofts at 136: Buffalo, NY
- Gift of Life House: Philadelphia, PA
- Maritime Building: New Orleans, LA
- Century Trails: Minneapolis, MN
- Dwelling Place: Grand Rapids, MI
- 1225 Old Town: Chicago, IL
- Urbanica: Boston, MA
- YWCA Gateway House: Canton, OH
- Chestnut Street Apartments: Philadelphia, PA
- Landmark Village Senior Care: Sarnia, Ontario
- 222 N. Church Street: West Chester, PA
- Walkley Condos: Ottawa, Ontario
- 1501 Canal Street: New Orleans, LA

### Commercial Offices

- Hills Bank and Trust: North Liberty, IA
- St. James Cathedral: Toronto, Ontario

### Schools

- Hiawatha Elementary: Chicago, IL

### Hospitality

- Marriott Hotel: Naperville, IL
- Envoy Hotel: Boston, MA

Description		Size							
		09	12	15	18	24	30	36	
Unit basics	Supply voltage	208-230V/1ø or 277v/1ø							
	Motor and fan	PSC standard, ECM and high static optional							
	Cabinet size	18 x 18 x 88 standard			24 x 24 x 88 standard				
Standard PSC capacity and efficiency	Water loop	Cooling cap.	9200	12000	16500	18500	22500	30000	34000
		EER	13.5	13	13	13	13	12.7	13
		Heating cap.	12500	16000	21500	23500	29500	37000	41000
	Ground water	COP	4.7	4.6	4.5	4.5	4.7	4.5	4.5
		Cooling cap.	11200	14800	19500	20500	26800	35000	38000
		EER	21	21	20	19.5	20	19	19
	Ground loop	Heating cap.	10500	13500	18500	19500	24500	32000	35000
		COP	4.1	4	3.9	3.9	4.2	4	4
		Cooling cap.	9700	13200	18000	19000	24000	32000	36000
Ground loop	EER	15.6	15.5	15	14.8	15	14.5	15	
	Heating cap.	8100	10000	15000	16800	19000	25000	27000	
	COP	3.4	3.3	3.2	3.2	3.3	3.3	3.2	
Standard ECM capacity and efficiency	Water loop	Cooling cap.	9600	12200	16800	18100	20500	31100	34700
		EER	14.5	13.8	14.5	13.8	13.8	13.8	14.1
		Heating cap.	12300	15400	21700	25100	29400	38900	41100
Sound ratings (NC)	Cooling	33	35	41	45	41	46	50	
	Heating	33	35	42	44	44	47	50	

- Capacity data is BTU/hr certified per AHRI 13256-1. See product catalog for further detail.
- NC ratings based on AHRI 350-2008 certified data. See product catalog for further detail.