



# World Class Geothermal Heat Pumps

**Water to Water  
Geothermal Heat Pump**



# Q Energy Systems Water to Water System



Q Control System offers real-time monitoring and system control, and is Wi-Fi equipped.



Emerson Series 5 ZPS compressors designed to increase efficiencies by 5% to 10%.



Desuperheater Pump from Grundfos

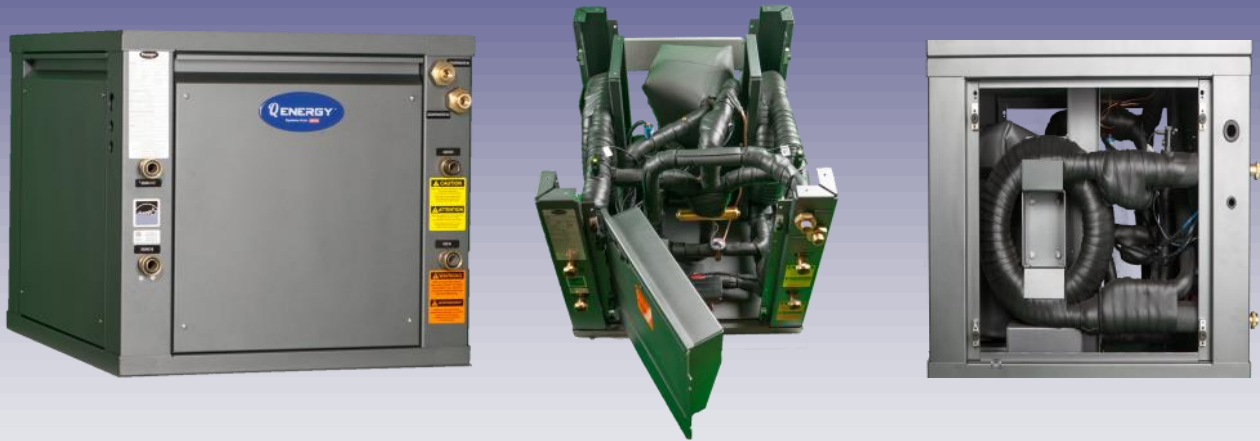


Coax heat exchangers and desuperheater coils from Packless Industries are designed to deliver 8% - 10% better transfer.

At Q Energy Systems

“Quality is not an act, it is a habit”

# Q Energy Systems Water to Water System



- Q Energy Control system is custom designed to operate the "Q" at peak performance all the time. Real-time monitoring of systems critical components. Wi-Fi equipped.
- Q Energy Systems geothermal heat pumps are offered in sizes ranging from 2 to 6 tons.
- Built standard with heavy gauge .125 aluminum cabinet.
- Emerson ZPS Series 5, 2 Stage Scroll compressors ( R-410a) designed to increase efficiencies by 5% to 10%.
- Emerson Secure Start is available. It lowers the amp draw on start up and extends compressor and component life.
- Source and load Coax heat exchangers are separated on opposite sides within the cabinet.
- All panels are removable using quarter turn fasteners that stay in the panel.
- Options for Cupro-Nickel heat exchangers for both source and load coax.
- 10 Years Bumper to Bumper Parts and Labor Warranty is standard and included with every "Q".
- Lifetime Cabinet Warranty.
- 100% Satisfaction Guaranteed, if for any reason you are unhappy with the "Q" during the first 5 years, we will either replace the equipment or give you your money back.

# Q Energy Systems Water to Water System

## 2-Ton Water to Water - Performance Data Summary (part load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
17,759	14.59	25,651	4.90	19,677	22.83	21,031	4.01	18,393	16.59	18,878	3.67

## 2-Ton Water to Water - Performance Data Summary (full load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
24,162	13.10	34,899	4.40	26,771	20.50	28,614	3.60	25,025	14.9	25,684	3.30

## 3-Ton Water to Water - Performance Data Summary (part load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
19,458	15.8	27,641	5.20	21,771	25.10	22,494	4.20	20,194	18.20	20,082	3.80

## 3-Ton Water to Water - Performance Data Summary (full load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
26,474	14.20	37,607	4.70	29,620	22.50	30,604	3.80	27,475	16.30	27,323	3.40

## 4-Ton Water to Water - Performance Data Summary (part load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
29,709	15.00	42,392	5.10	35,614	22.50	32,705	3.70	33,838	19.30	27,099	3.20

## 4-Ton Water to Water - Performance Data Summary (full load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
40,421	13.50	57,676	4.60	48,426	20.20	45,801	3.80	44,346	15.90	36,843	3.10

# Q Energy Systems Water to Water System

## 5-Ton Water to Water - Performance Data Summary (part load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
38,705	14.90	55,981	5.10	42,399	22.70	45,902	4.20	39,769	16.7	40,942	3.80

## 5-Ton Water to Water - Performance Data Summary (full load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
52,660	13.40	76,165	4.60	57,686	20.40	62,452	3.80	54,107	15.00	55,703	3.40

## 6-Ton Water to Water - Performance Data Summary (part load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
42,060	15.70	59,905	5.20	46,743	23.20	48,461	4.00	43,597	17.40	42,914	3.60

## 6-Ton Water to Water - Performance Data Summary (full load)

Water Loop (closed)				Ground Water (open)				Ground Loop (closed)			
Cooling		Heating		Cooling		Heating		Cooling		Heating	
Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP	Capacity	EER	Capacity	COP
57,225	14.10	81,504	4.70	63,596	22.10	65,934	3.80	59,316	16.20	58,386	3.20



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## **Q Energy Systems**

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