

HIGH TEMPERATURE WATER SOURCE HEAT PUMP WATER HEATER W03H SERIES



ZHEJIANG CEN NEW ENERGY STOCK CO.,LTD



COMPONENTS BRANDS WE COOPERATED



HITACHI Inspire the Next





















W03H ADVANTAGE

- a. Copeland and R134a refrigerant for best operation, low pressure but high water temperature.
- b. Stainless steel 304 material for all fasteners.
- c. High quality shell & tube heat exchanger, coaxial heat exchanger or plate type heat exchanger for option.
- d. World famous brands of components, such as Saginomiya electronic expansion valves, SANHUA 4-way valves, Schneider AC contactor and etc.,
- e. With complete testing for good quality and highest COP.
- f. All copper material for water pipes.
- g. Strong wooden case packing for safe sea transportation.
- h. Advanced control system for reaching all of your requirements.
- i. Unique cabinet designing, for your better marketing.
- j.Emergency switch for power on/off.



COPELAND & PANASONIC SCROLL

Copeland or Panasonic high quality compressor specially for heat pump water heater, the best operation and last for longest running time:

- 1. Adopt scroll heating technology;
- 2. With much wider operation range for different ambient temperature;
- 3. Not only can produce hot water for daily life use, can also produce high water temperature up to 80 degrees C, it can reach the requirement for daily life and industrial use;
- 4. Special designing for the heat pump water heater of high suction exhaust temperature and system high condensing temperature and high condensing pressure, performance is stable and efficient, long service life.







SHELL & TUBE HEAT EXCHANGER

China famous brand shell & tube heat exchanger with special care for the pressure protection(Coaxial heat exchanger or plate type heat exchanger can be adopted if customer require). Shell & tube heat exchanger adopt high efficiency fin tube which heating area is 3.6 times than ordinary smooth tube, larger diameter waterway design to make water flow more smoothly, energy efficiency is more superior.

Danfoss or Emerson dryer filter ▶

High dehydration performance, effectively prevent deterioration of the POE oil At the end of the coat layer for corrosion resistant epoxy powder paint Steel shell vibration control, vibration resistance excellent results Filter is massiveness

40 micron filtration precision

The highest operating pressure: 47 bar

UL/CUL certification, certification number: SA3124





W03H (High temperature Water source heat pump water heater)

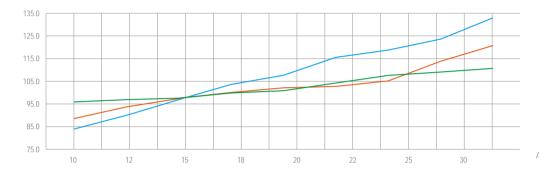
W03H-1808

			WH03Ps-W5	WH05Ps-W5	WH03P-W5	WH05P-W5	WH07P-W5	WH10P-W10	WH14P-W10	WH18P-W20	WH20P-W20	WH24P-W20	WH30P-W20	WH36P-W40	WH48P-W40
Rated heating capacity		KW	8.5	14	8.5	14	19	28	40	50	56	66	84	100	132
Rated power		KW	1.91	3.10	1.90	3.07	4.21	6.19	8.97	11.29	12.44	14.83	18.96	22.42	29.86
Rated current		А	8.36	13.61	3.57	5.77	7.92	11.65	16.86	21.22	23.40	27.88	35.65	42.15	56.14
Maximum power		KW	2.44	3.97	2.43	3.93	5.39	7.93	11.48	14.45	15.93	18.98	24.27	28.70	38.23
Maximum current		А	11.35	18.48	4.60	7.43	10.19	14.99	21.70	27.30	30.11	35.88	45.87	54.24	72.25
Performance coefficient		СОР	4.46	4.51	4.47	4.56	4.51	4.52	4.46	4.43	4.50	4.45	4.43	4.46	4.42
Rated hot water yields	△t40	L/H	183	301	183	301	409	602	860	1075	1204	1419	1806	2150	2838
	△t60	L/H	122	201	122	201	272	401	573	717	803	946	1204	1433	1892
Setting water temperature C		°C	70 °C (default) 28-80 °C (adjustable)												
Power supply			1N 220V/50Hz (Special power supply for option) 3N 380V/50Hz(Special power supply for option)												
Compressor	Туре		Hermetic scroll type												
	Start mo	ode						[Direct(Soft	start for op	otion)				
	Quantity	Unit	1	1	1	1	1	2	2	2	2	2	2	3	4
Application side heat exchanger	Туре		(Tube in tu	Shell & tube heat exchanger (Tube in tube heat exchanger or Plate type heat exchanger for option) Shell & tube heat exchanger											
	Water flow	m³/h	1.5	2.4	1.5	2.4	3.3	4.8	6.9	8.6	9.6	11.4	14.4	17.2	22.7
	Water pressure drop		≤50	≤50	≤50	≤50	≤50	≤50	≤60	≤60	≤60	≤70	≤70	≤70	≤70
	Pipe connection	DN	DN20	DN25	DN20	DN25	DN25	DN32	DN50	DN50	DN50	DN50	DN65	DN65	DN65
Pipe type		ре	Inner thread Flange												
Heat source	Туре		Shell & tube heat exchanger												
	Water flow	m³/h	1.1	1.9	1.1	1.9	2.5	3.8	5.4	6.7	7.5	8.8	11.3	13.4	17.7
side heat exchanger	Water pressure drop	kPa	≤50	≤50	≤50	≤50	≤50	≤50	≤60	≤60	≤60	≤70	≤70	≤70	≤70
3.	Pipe size	DN	DN20	DN25	DN20	DN25	DN25	DN32	DN50	DN50	DN50	DN50	DN65	DN65	DN65
	Connection type		Inner thread Flange												
Protections			1. High and low pressure protection, 2. Anti-freeze protection, 3. High temperature protection, 4. Overload protection, 5. Reverse of phase protection, Lack of phase protection, etc.												
Refrigerant	Туре		R134A												
	Quantity(I	KG)	2.2	3.3	2.2	3.3	4.2	3.3x2	6.5x2	8x2	8.2x2	8.8x2	8.2x3	8.8x3	8.8x4
Noise DB(A		DB(A)	≤53	≤55	≤55	≤55	≤58	≤58	≤62	≤65	≤65	≤65	≤70	≤75	≤75
Dimension mm		810x420x590					1100x8	1100x840x800 1800x1			1150x1050)	2800x1250x1350		
Wooden case package dimensions(L*W*H) mm		mm		8	856x466x752				1856x1206x1218			1	2856x1306x1518		
Net weight		KG	68	95	65	95	135	195	320	480	795	885	985	1180	1210
Gross weight		KG	78	105	75	105	145	215	340	515	830	920	1020	1215	1245

- 1. Hot water heating standard condition: use side initial water temperature 15 °C, end water temperature 55 °C; heat source side water input temperature 15 °C.
- 2. The above parameters are based on refrigerant R134A, for parameters based on other refrigerant please contact us.

 3. The above parameters may have some differences from the final product because of products updating, please refer to final product lable when buy, or refer to us for any information. Our company keeps the right to interpret.

Hot water heating performance correction coefficient(%)								
Heat source side water input temperature (°C)	10	12	15	18	20	22	25	30
Heating capacity(%)	84.6	91.0	100.0	105.0	110.0	116.0	124.0	132.6
Power (%)	95.6	98.0	100.0	102.0	105.0	108.0	109.3	110.0
Energy efficiency ratio(COP) (%)	88.5	92.9	100.0	102.9	104.8	107.4	113.4	120.5



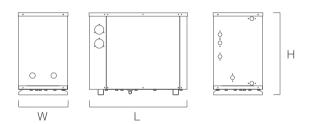
Heating capacity(%)

Power (%)

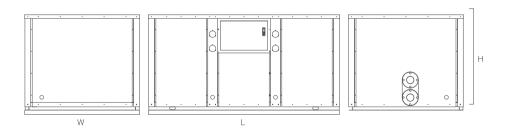
Energy efficiency ratio(COP) (%)

Ambient temperature (℃)

Product Dimensions



W02H series						
Model	Dimensions (L x W x H)					
WH03Ps-W5	810x420x590					
WH05Ps-W5	810x420x590					
WH03P-W5	810x420x590					
WH05P-W5	810x420x590					
WH07P-W5	810x420x590					



W02H series							
Model	Dimensions (L x W x H)						
WH10P-W10	1100x840x800						
WH14P-W10	1100x840x800						
WH18P-W20	1800×1150×1050						
WH20P-W20	1800x1150x1050						
WH24P-W20	1800x1150x1050						
WH30P-W20	1800x1150x1050						
WH36P-W40	2800x1250x1350						
WH48P-W40	2800x1250x1350						

