



Commercial Water Source Heat Pump







Building intelligent control to improve management reliability

Modbus is an open protocol that is widely used, especially in BMS building control systems. The unit can be connected to the BMS system through the Modbus protocol to realize remote control of multiple air cooling and heat pump modules.



Professional compressor for heat pump water heater: Adopt Copeland or Panasonic top quality scroll compressor specially for heat pump water heater, with much wider operation range for different ambient temperature. Special design for high suction & exhaust temperature, and system high condensing temperature & pressure, Higher efficiency, Lower noise, Higher reliability, Longer service life.

Multiple protection functions



To ensure the safe operation of the system, a modular structure is adopted, and the units are started in stages to reduce the impact of the starting current of the units on the power grid. The unit is equipped with high and low pressure switches, antifreeze protection devices, water flow switches, overload protection devices, power supply phase sequence protection devices, etc., and is equipped with an operation control device. When a fault occurs, the controller will automatically alarm in real time.

Water side heat exchanger



High-efficiency shell & coil heat exchanger for hot water side is adopted, with water in the tube and fluorine outside the tube. High heat exchange efficiency, small size, excellent water quality, strong antifreeze ability, stable and reliable.

Wide running range



Heat source side temperature from 6°C to 30°C .

Gas-liquid separator



Control your heat pump in your smartphone anywhere, anytime.

Wifi function for option

A large gas-liquid separator is used to prevent liquid from entering the compressor under low temperature conditions, ensuring more reliable system operation.

R410A refrigerant or R134A refrigerant, ODP=0









SANHUA Electronic expansion valve

High precision electronic expansion valve: use electronic expansion valve for controlling, reach 500 steps adjustment, adjust super heat degrees accurately, achieve high efficiency operation system.



Modular design, more flexible installation

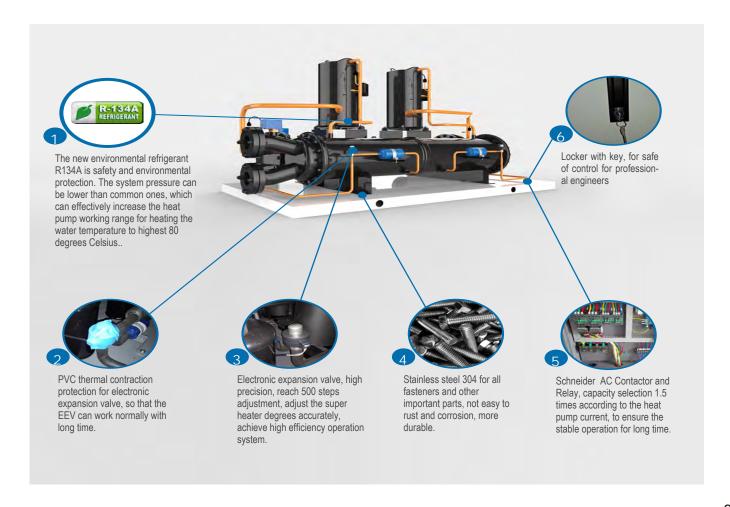
Unit modules of different capacity specifications can be freely combined, and a maximum of 16 units can be connected in parallel, with strong compatibility and scalability. According to the site characteristics of the installation site, the user can choose a variety of combination connection methods to realize the parallel use of 1-16 modules, and the maximum cooling capacity is as high as 2080kW, fully meeting different needs. The aircooled module units of the same system are started in stages and run in a balanced manner, reducing the impact of the starting current of the units on the power grid.

Master-Slave

Electric control

The electric control adopts famous and high-quality components, and the quality is guaranteed; at the same time, the electric control box is set on the front, which is quick to install and easy to maintain.







Water Source Heat Pump Water Heater ET-CH Standard																
Model		/	ET8I-CH	ET10I-CH	ET12I-CH	ET20I-CH	ET12-CH	ET20-CH	ET28-CH	ET20-CH	ET55-CH	ET80-CH	ET120-CH	ET190-CH	ET240-C	
Rated Heating Capacity		KW	7.9	9.8	11.8	19.8	11.9	19.8	28.1	39.5	54.3	79.2	118.85	188.8	238.4	
Rated Power		KW	1.64	2.03	2.45	4.09	2.45	4.09	5.79	8.18	11.28	16.45	24.61	38.92	49.36	
Rated Current		А	8.77	11.53	13.92	23.24	4.62	7.77	10.99	15.54	21.97	31.12	46.74	73.92	93.75	
Maximum Power		KW	2.21	2.71	3.25	5.42	3.28	5.52	7.81	11.04	15.22	22.14	33.22	52.51	66.63	
Maximum Current		А	11.82	15.32	17.38	30.79	6.23	10.48	14.83	20.97	29.65	41.99	63.09	99.72	126.55	
Performance Coefficient		СОР	4.82	4.83	4.82	4.84	4.86	4.84	4.85	4.83	4.81	4.81	4.83	4.85	4.83	
Rated Hot Water Produce Capacity		L/H	172	215	258	430	258	430	602	860	1182	1720	2580	4085	5150	
Rated Hot Water Output Tempemperature		°C	55													
Maximum Hot Water		°C	60													
Power Supply			1N 220V~240V/50Hz 3N 380V~420V/50Hz													
Тур		e	Rotor Type Hermetic Scroll Type													
Compressor	Start N	/lode	Directly Start(Soft Start For Option)													
Hot Water Side Heat Exchanger	Тур	e				Shell &	Tube He	at Exchan	ıger Or Tı	ube In Tul	be Heat E	Exchange	r			
	Water Flow	M³/h	1.4	1.8	2.1	3.4	2.1	3.4	4.8	6.9	9.4	13.8	20.6	32.7	41.2	
Heat Source Side Heat Exchanger	Тур	е		Plate Type Heat Exchanger Tube In Tube Heat Exchang							er Shell & Tube Heat Exchange				anger	
	Water flow	M³/h	1.1	1.4	1.6	2.7	1.6	2.7	3.8	5.4	7.3	10.7	16.1	25.5	32.3	
Refrigerant	Тур	e		R410A												
Noise		≤DB(A)	51	51	52	55	52	55	58	58	62	64	68	72	73	
Weight		KG	55	58	65	93	65	93	128	180	220	700	780	1400	1500	
Unit Dimensions MM			956x556x680 1050x840x800 1650x1050x1200 2000x1100x12											.00x1250		
Hot Water Heatir	a Standar	d Condi	tion: Hot	Water Si	do Initial	Water T	omnorati	ıro 15°C	Final W	ator Tom	poraturo	55°C ·				

Hot Water Heating Standard Condition: Hot Water Side Initial Water Temperature 15 $^{\circ}$ C , Final Water Temperature 55 $^{\circ}$ C ; Heat Source Side Water Input Temperature 15 $^{\circ}$ C .

^{*} Dimensions Are Indicative Subject To Changes As Per R&D Updates



High temperature Water source heat pump water heater (ET-CH High Temp															
Model			ET8I-CH	ET14I-CH	ET8-CH	ET14-CH	ET19-CH	ET28-CH	ET40-CH	ET50-CH	ET65-CH	ET85-CH	ET100- CH	ET130- CH	
Rated Heating Capacity		KW	8.5	14	8.5	14	19	28	40	50	66	84	100	132	
Rated Power		KW	1.91	3.10	1.90	3.07	4.21	6.19	8.97	11.29	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	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	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	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	4.45	4.43	4.46	4.42	
Rated Hot Wate Yields	△ t40	L/H	183	301	183	301	409	602	860	1075	1419	1806	2150	2838	
	△ t60	L/H	122	201	122	201	272	401	573	717	946	1204	1433	1892	
Setting Water Temperature		$^{\circ}$ 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 mod	de	Direct(Soft Start For Option)												
Application Side Heat Exchanger	Туре		Shell & Tube Heat Exchanger (Tube In Tube Heat Exchanger Or Plate Type Heat Exchanger For Option) Shell & Tube Heat Exchanger Or Tube In Tube Heat Exchanger											ube	
	Water Flow	M³/h	1.5	2.4	1.5	2.4	3.3	4.8	6.9	8.6	11.4	14.4	17.2	22.7	
Heat Source Side	Туре		Shell & Tube Heat Exchanger Or Tube In Tube Heat Exchanger												
Heat Exchanger	Water flow	M³/h	1.1	1.9	1.1	1.9	2.5	3.8	5.4	6.7	8.8	11.3	13.4	17.7	
Refrigerant	Туре							R13	34A						
Noise		DB(A)	≤53	≤55	≤55	≤55	≤58	≤58	≤62	≤65	≤65	≤70	≤75	≤75	
Net weight		KG	68	95	65	95	135	195	320	480	885	985	1180	1210	
Gross weight		KG	78	105	75	105	145	215	340	515	920	1020	1215	1245	
Unit dimensions		MM	956x556x680 1050x840x800 1650x1050x1200 2000x									2000x11	.00x1250		
Hot Water Heati Heat Source Ssid					nitial Wa	ter Tempe	erature 15	$^{\circ}\!$	Water Te	mperatur	e 75℃;				

Hot Water Heating Standard Condition: Hot Water Side Initial Water Temperature 15 $^\circ$ C, Final Water Temperature 75 $^\circ$ C Heat Source Sside Water Input Temperature 15 $^\circ$ C.

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