

Hien®

DC INVERTER AIR TO WATER HEAT PUMP

MONOBLOC

Heating+Cooling+DHW



ECOFORCE SERIES



R290

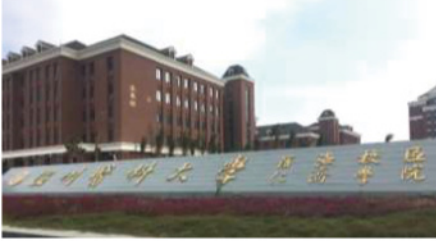
ENERGY TRANSITION PROJECTS



PROJECTS

MORE THAN 70000 PROJECTS COMPLETED SO FAR;
MORE THAN 6.5 MILLION PRODUCTS DELIVERED.

SCHOOLS



HOSPITALS



RESIDENTIAL



HIGHLIGHT



The 2008 Shanghai World Expo.



The 2013 Boao Summit for Asia in Hainan.



Universiade SHENZHEN 2011

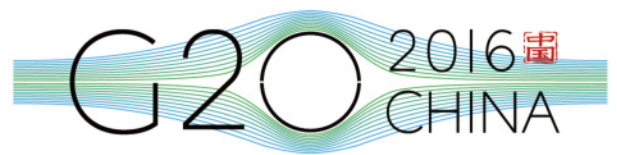
The 2011 Universiade in Shenzhen.



The artificial island hot water project of the Hong Kong-Zhuhai-Macao Bridge in 2019.



2016 the hot water reconstruction project of Qingdao port.



2016 the G20 Hangzhou Summit.



The 2022 Beijing Winter Olympic Games & Paralympic Games.



2023 the Asian Games in Hangzhou



Hien



Founded in 1992, Hien firstly started as an electronic component manufacturer. With a registered capital of 300 million RMB, Hien entered the air source industry in 2000. It is a leading enterprise of air source heat pumps in the area of product R & D, production, sales, and after-sales service. Hien owns one of the largest production bases of heat pumps in China, as well as the CANS certified state-level comprehensive laboratory.

PRODUCTION LINE

With a total of 60,000 m² of construction area and over 1,000 processing equipments, the main factory comprises 6 assembly lines, while the branch factory consists of 3 production workshops. Main products include air source heat pumps for residential, commercial, and industrial use. The capacity of our products ranges from 3 kW to 320 kW, primarily for heating, cooling, and domestic hot water. Heat pump dryers are also used for the production of tobacco, aroma wicks, medicinal herbs, tea, fruits, vegetables, and other products.



R290

NATURAL REFRIGERANT

GWP=3

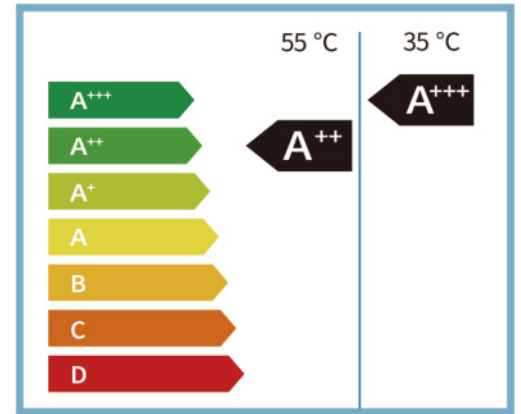
CONTRIBUTE TO CARBON NEUTRALITY.

**REDUCED CO₂ EMISSIONS AND
ENVIRONMENTAL IMPACT**

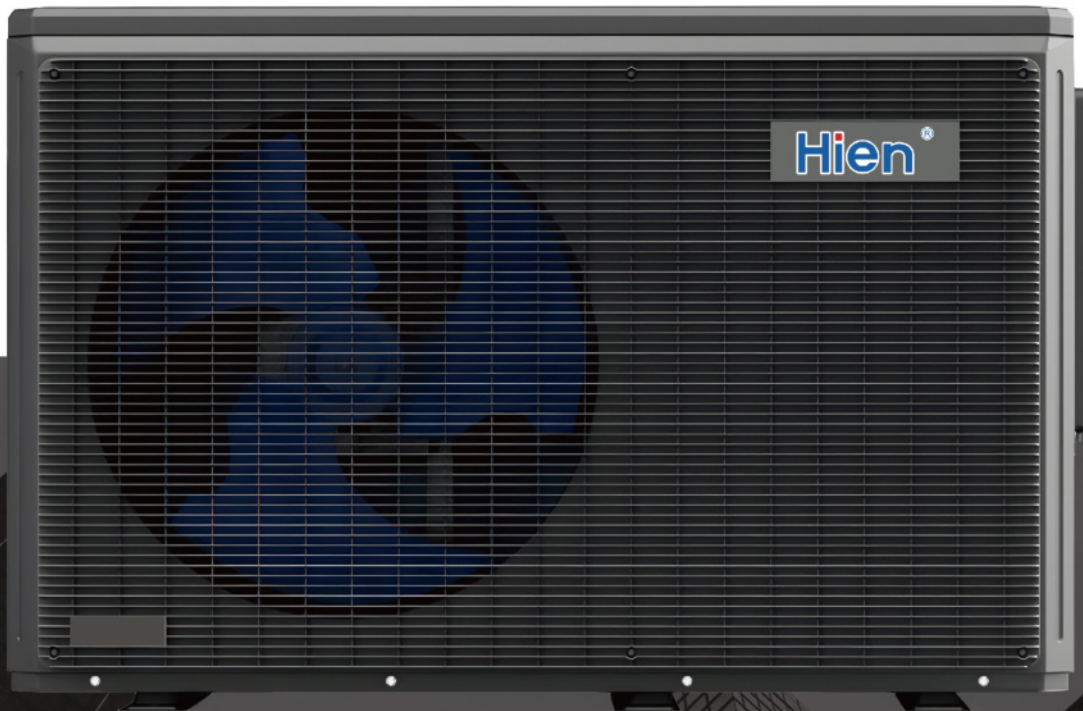
AIR TO WATER HEAT PUMP ECOFORCE SERIES

HEATING+COOLING+DHW

VOLUME < 0.6CBM




R290 




 High Efficiency A+++ Energy Level

 Energy - Saving up to 80%

 Wi-Fi App Smart Controlled

 Stable Running at -20°C Ambient Temperature

 Dependent TÜV Testing Has Confirmed That Our Product Surpasses CE Standards By Approximately 10%

Multi-function Selections

There are 5 operation modes to be selected :

- Heating + Hot Water
- Cooling + Hot Water
- Heating
- Cooling
- DHW

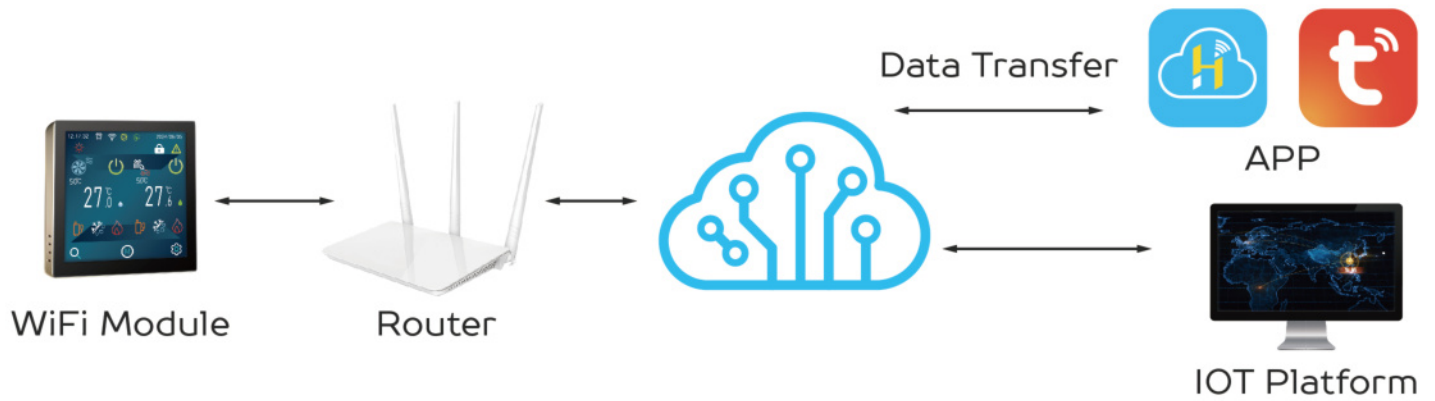


SMART TOUCH DISPLAY



- Color Screen
- Intuitive Interface
- Touch Key Design
- Builtin Wifi Module
- APP Control

SMART CONTROL FAMILY

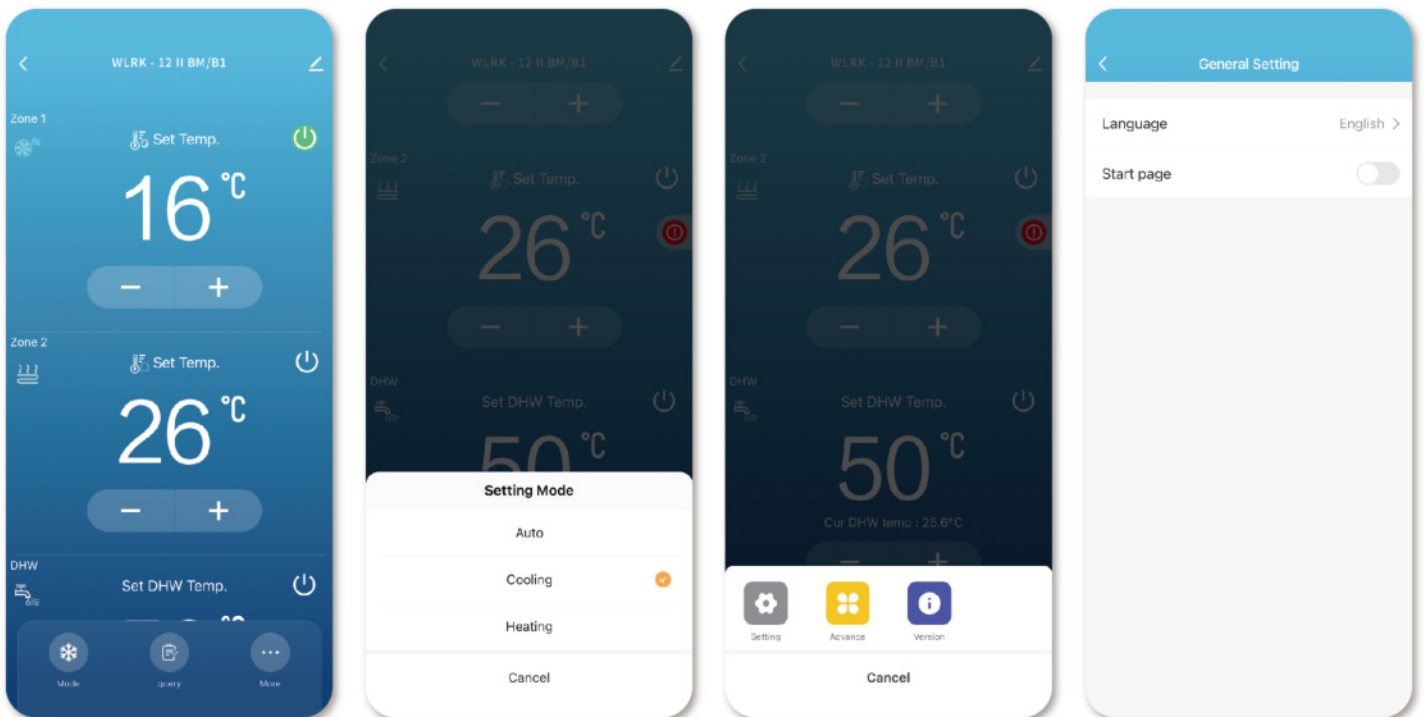


RS485

The intelligent controller with RS485 is adopted to realize the linkage control between the heat pump unit and the terminal end. Multiple heat pumps can be controlled and connected to be well monitored.

WiFi DTU

To deliver the best user experience, EcoForce series is designed with a DTU module for remote data transferring, and then you can easily monitor the running status of your heating system.

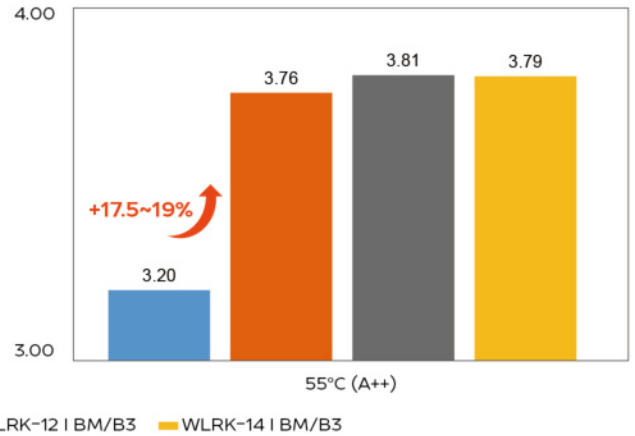
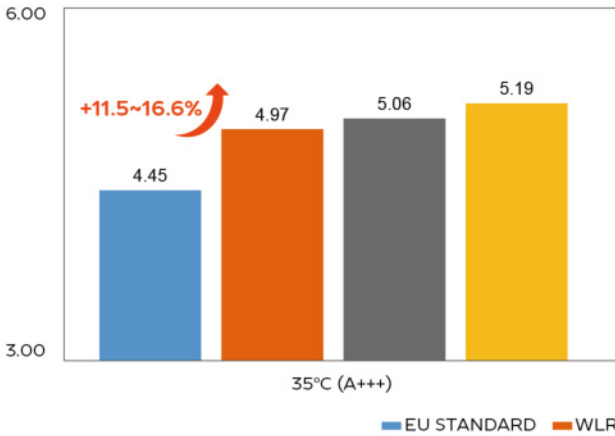


Smart APP control

Smart APP control brings a lot of convenience to users. Temperature adjustment, mode switching, and timersetting can be achieved on your smart phone. Moreover, you can know power consumption statistics and fault record at anytime and anywhere.

COMPARISON BETWEEN EU STANDARDS AND HIEN SCOP

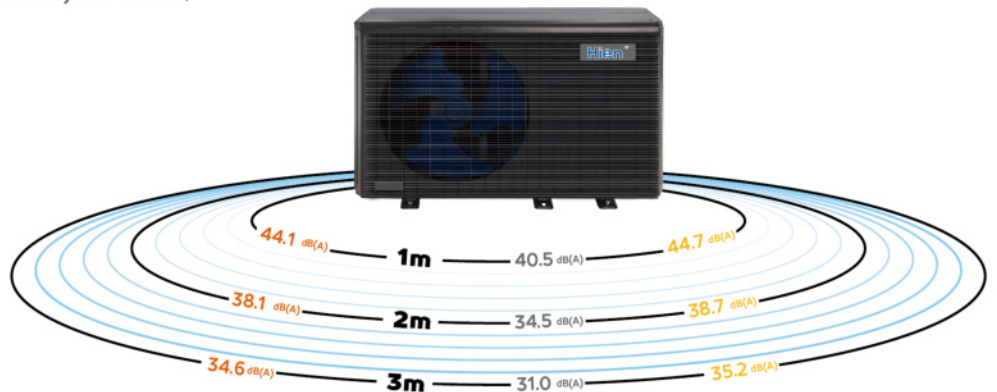
REGULATION : (EU) NO 811/2013



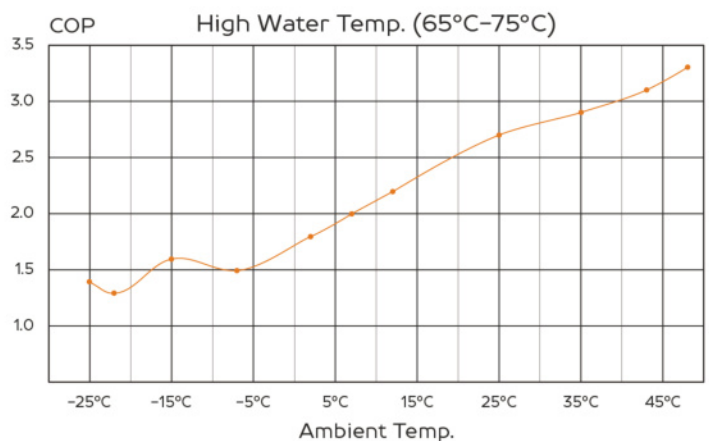
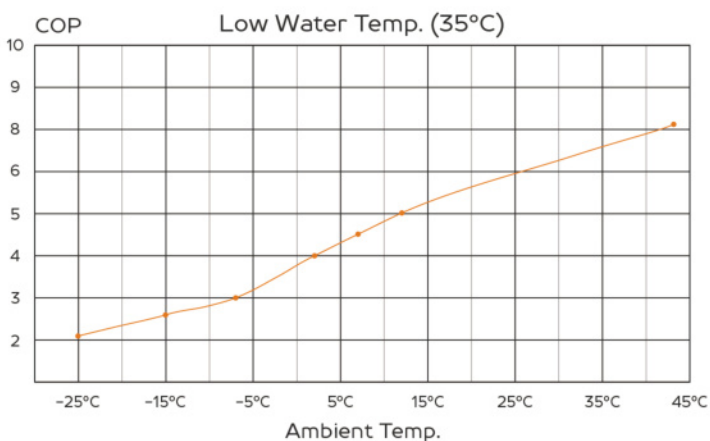
THE NINE - LAYER NOISE REDUCTION MEASURES INCLUDE :

- New type of eddy current fan blades;
- Low air resistance grille, designed to better fit air flow dynamics;
- compressor shock absorber pads for vibration reduction;
- Simulated technology optimized vortex design for finned heat exchanger;
- Simulated technology optimized pipeline vibration transmission design;
- Sound-absorbing cotton and peak cotton for noise absorption and reduction;
- Variable frequency compressor load adjustment;
- DC fan load adjustment;
- Energy saving mode.

- WLRK-10 I BM/B3
- WLRK-12 I BM/B3
- WLRK-14 I BM/B3



PERFORMANCE CHARTS



STERILIZING MODE

Thanks to its ability to reach temperatures as high as 75°C, this cutting-edge product eliminates harmful Legionella bacteria and viruses, ensuring the highest level of water safety.

Invest in your health and your family's well-being with our state-of-the-art heat pump. Experience the unparalleled convenience, energy efficiency, and superior performance that this product offers.

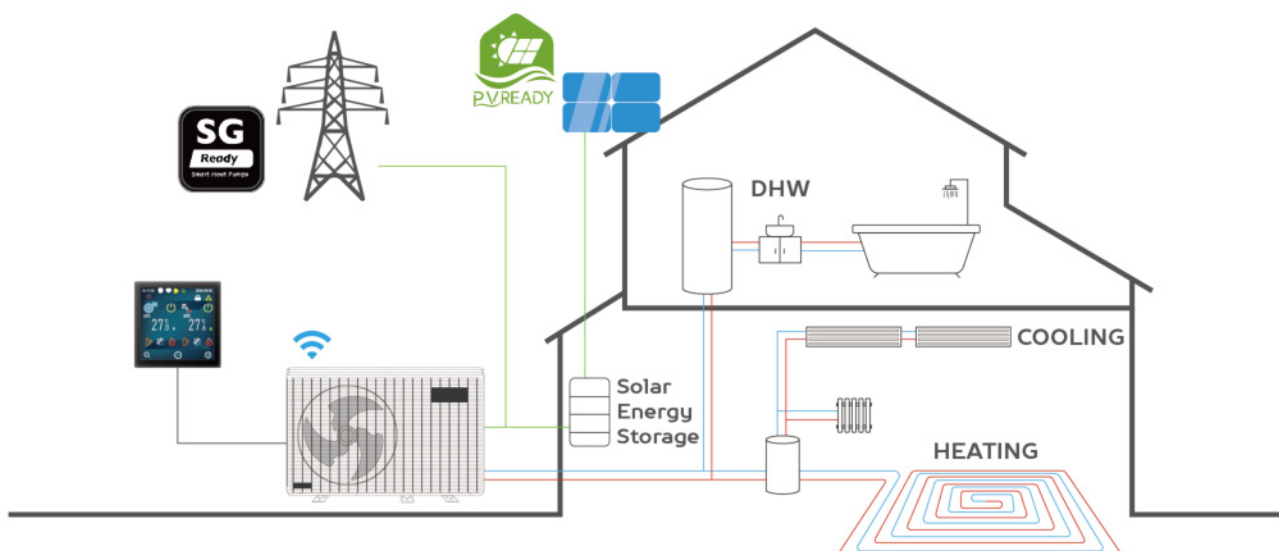
Don't compromise on safety and hygiene when it comes to your water supply. Choose our heat pump with its exceptional sterilizing mode, and enjoy the reassurance of pristine water quality every day.



Can be operated in combination with:

1. Electric Water Heater
2. Conventional Boiler
3. Solar Hot Water Systems

The Ecoforce Series provides heat through heating distribution systems like radiators, underfloor heating, fan coils, or air conditioners. It offers reliable heating, cooling, and domestic hot water year-round. The heat pump automatically adjusts and operates optimally in heating or cooling mode depending on the season and air temperature for energy savings. It suits various applications including space heating and domestic hot water for residential and commercial projects.



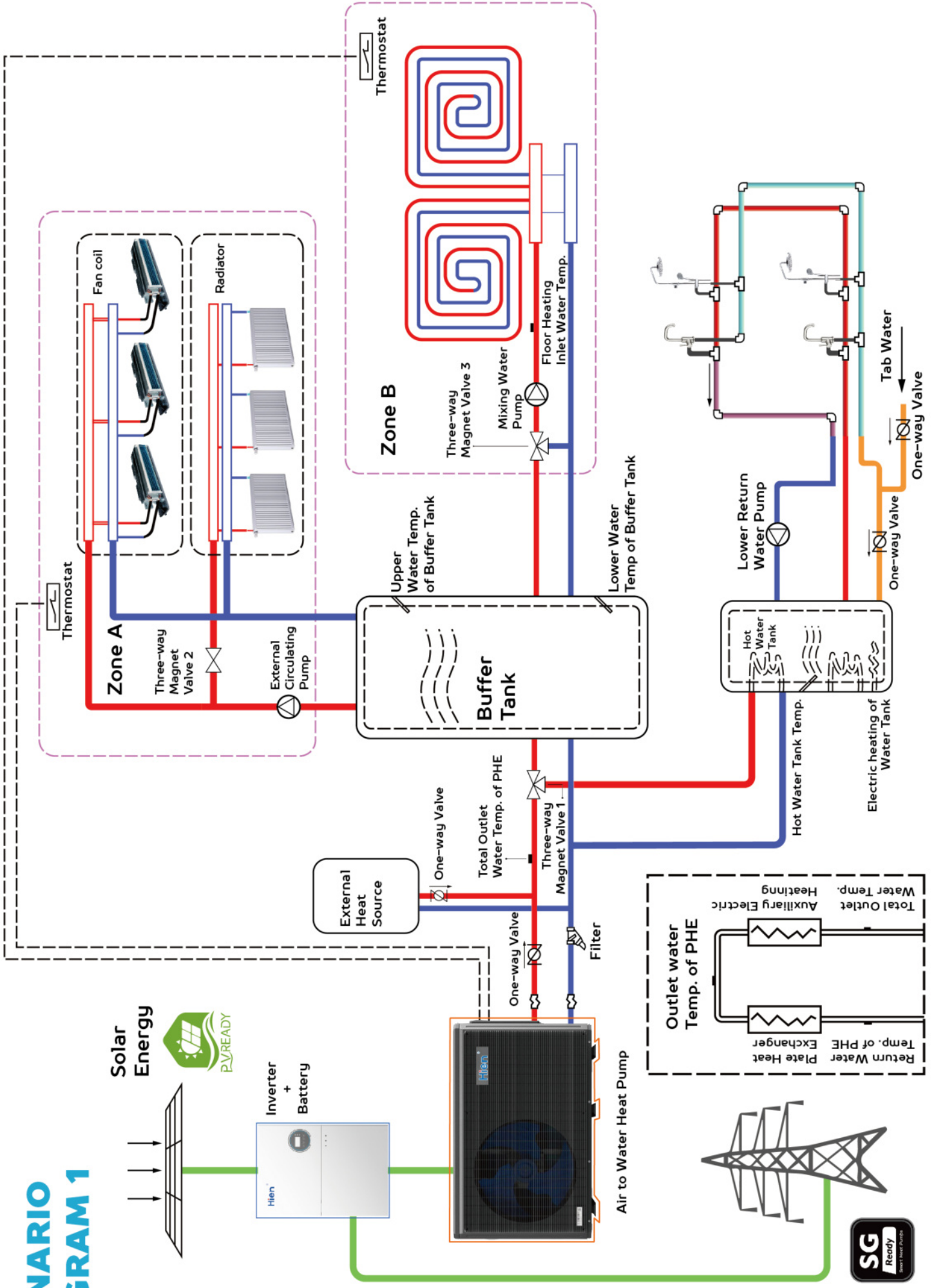
CASCADE SYSTEM DIAGRAM



- Maximum of 8 units can be controlled with one touch screen.
- Connect 1 master to 7 slaves for networking.
- Can be operated independently or in group.
- Automatically control the start and stop of the machine based on water temperature.
- Multiple heat pumps can work together to improve the efficiency and energy efficiency of the system.



SCENARIO DIAGRAM 1



SPECIFICATIONS



Dc Inverter Heat Pump		WLRK-8IBM/B3	WLRK-10IBM/B3	WLRK-12IBM/B3	WLRK-14IBM/B3	WLRK-12IIBM/B3	WLRK-14IIBM/B3	WLRK-16IIBM/B3	
Cooling Conditions		Outdoor Air Temperature : DB 35°C/ WB 24°C, Indoor Water Temperature Inlet/Outlet : 23°C / 18°C.							
Rated Cooling Capacity	kW	8.8	10.5	12.8	15.0	12.8	15.0	17.0	
Cooling Power Input	kW	2.63	2.96	3.79	4.73	3.88	4.91	4.40	
Current Input Range	A	11.46	12.86	16.51	20.57	5.89	7.47	6.69	
Cooling EER	W/W	3.33	3.55	3.37	3.17	3.30	3.05	3.86	
Heating Conditions		Outdoor Air Temperature : DB 7°C / WB 6°C , Indoor Water Temperature Inlet/Outlet : 30°C / 35°C .							
Rated Heating Capacity	kW	8.0	10.0	12.0	14.0	12.0	14.0	16.0	
Heating Power Input	kW	1.79	2.24	2.65	3.19	2.60	3.16	3.50	
Current Input Range	A	7.81	9.77	11.51	13.86	3.95	4.80	5.32	
Heating COP	W/W	4.45	4.45	4.53	4.39	4.61	4.43	4.57	
Heating Conditions		Outdoor Air Temperature : DB 7°C / WB 6°C , Indoor Water Temperature Inlet / Outlet : 50°C / 55°C							
Rated Heating Capacity	kW	8.05	9.98	12.0	14.07	12.07	13.96	16.05	
Heating Power Input	kW	2.62	3.28	3.99	4.82	3.98	4.72	5.40	
Current Input Range	A	11.55	14.29	17.33	21.0	6.05	7.17	8.22	
Heating COP	W/W	3.07	3.04	3.01	2.92	3.03	2.96	2.97	
Voltage	V/Hz	220V ~ 240V ~ /50Hz				380V ~ 415V 3N ~ /50Hz			
Rated Water Flow	m³/h	1.38	1.72	2.06	2.41	2.06	2.41	2.75	
Rated of Waterproof	/	IPX4							
Control Mode	/	Heating , Cooling , DHW , Heating + DHW , Cooling + DHW							
Refrigerant	/	R290	R290	R290	R290	R290	R290	R290	
Compressor	Form	/	Double - rotor	Double - rotor	Double - rotor	Double - rotor	Double - rotor	Double - rotor	
	Brand	/	Highly	Highly	Highly	Highly	Highly	Highly	
Net Size	mm	1160*455*743	1160*455*743	1330*486*914	1330*486*914	1330*486*914	1330*486*914	1330*486*914	
Weight	kg	97	106	129	134	143	147	151	
Sound Pressure (1m)	dB (A)	≤45							
Fan	Form	/	Intelligent variable frequency fan motor						
Operation ambient temperature	°C	-20 ~ 43							
Max.Outlet Water Temperature	°C	75							
Inlet Pipe Diameter	mm	G1"	G1"	G1"	G1"	G1"	G1"	G1"	
Outlet Pipe Diameter	mm	G1"	G1"	G1"	G1"	G1"	G1"	G1"	
Packing Size	mm	1335*605*955	1335*605*955	1485*615*1110	1485*615*1110	1485*615*1110	1485*615*1110	1485*615*1110	
Wifi Function	/	√	√	√	√	√	√	√	
ErP Energy Class	/	35°C A+++/ 55°C A++							
Test Standard	/	EN 14825							

The above parameters, if there are slight differences due to technical improvements, please refer to the relevant specifications of the actual product for accuracy.

A modern, multi-story building at night, illuminated from within. The building features large glass windows and a balcony. In the foreground, there is a swimming pool with a wooden deck and three blue lounge chairs. The sky is dark with some clouds and a few stars.

Hien[®]

Hien New Energy Equipment Co.,Ltd.

Head Office : No.9, Chuangxin Rd, Yueshang
Pioneer Park, Yueqingwan Port District,
Yueqing, Zhejiang, China

info@hien-ne.com

T/F : +86-0577-62121888



www.hien-ne.com