

Hien[®]

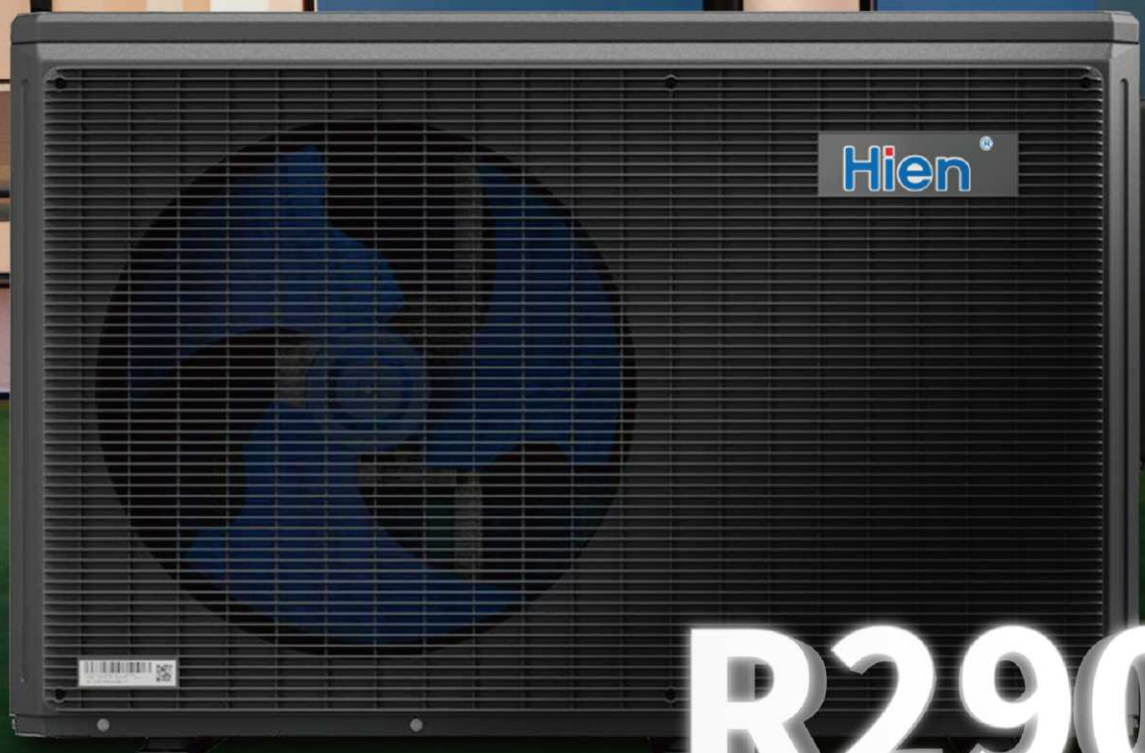
DC INVERTER AIR TO WATER HEAT PUMP

MONOBLOC

Heating+Cooling+DHW



ECOFORCE SERIES



R290

PROJECTS

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

SCHOOLS



HOSPITALS



RESIDENTIAL



HIGHLIGHT



The 2008 Shanghai World Expo.



Universiade SHENZHEN 2011
☆☆☆☆

The 2011 Universiade in Shenzhen.



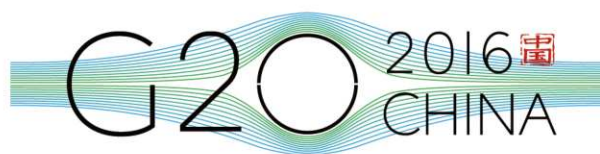
The 2013 Boao Summit for Asia in Hainan.



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



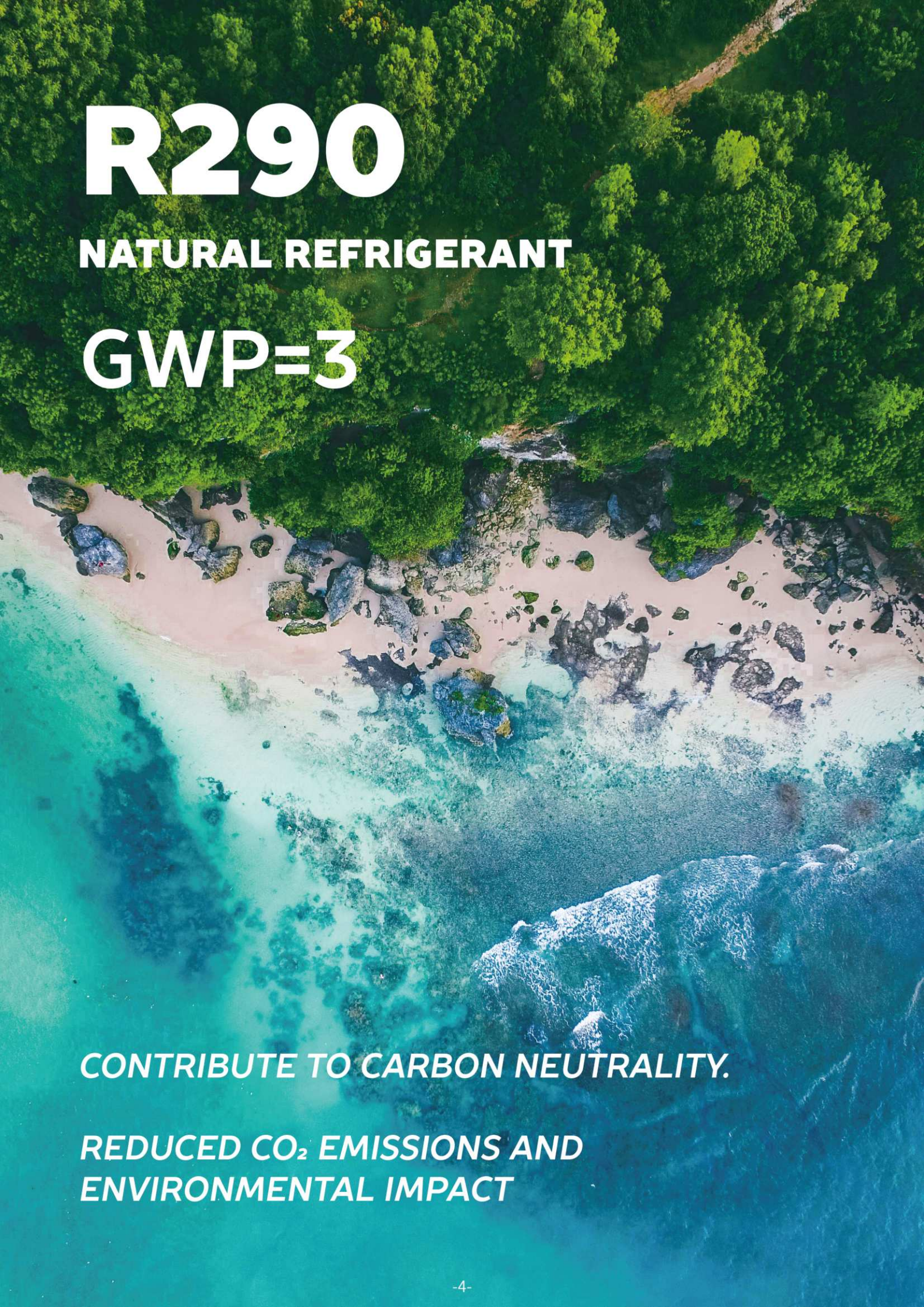
Hien



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**

HIEN HEAT PUMP CASE



EASY INSTALLATION

The machine is designed for hassle-free setup, making the installation process simple and efficient.



QUIET OPERATION

With minimal noise output, the heat pump ensures smooth and peaceful operation.



COMPACT SIZE

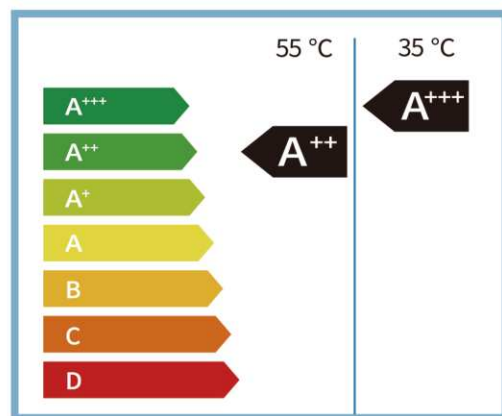
Its small footprint allows for space-saving installation, making it ideal for various settings.

AIR TO WATER HEAT PUMP

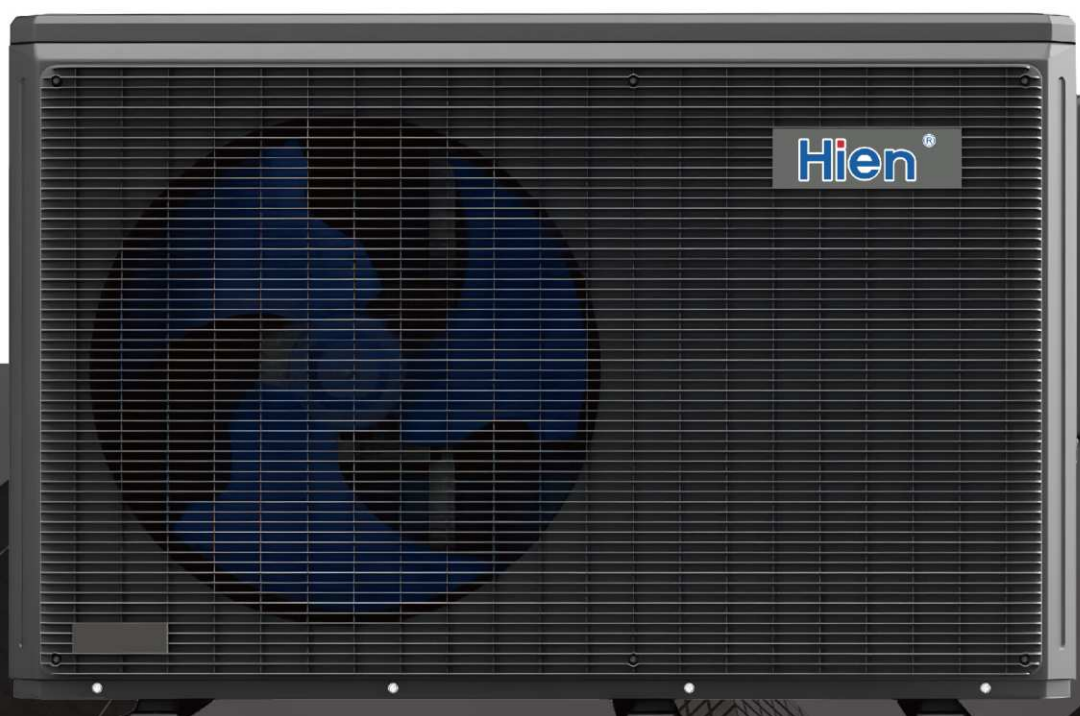
ECOFORCE SERIES

HEATING+COOLING+DHW

VOLUME < 0.6CBM



R290



A+++ High Efficiency A+++ Energy Level

 Energy – Saving up to 80%

 Wi-Fi App Smart Controlled

 Stable Running at -20°C Ambient Temperature

 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

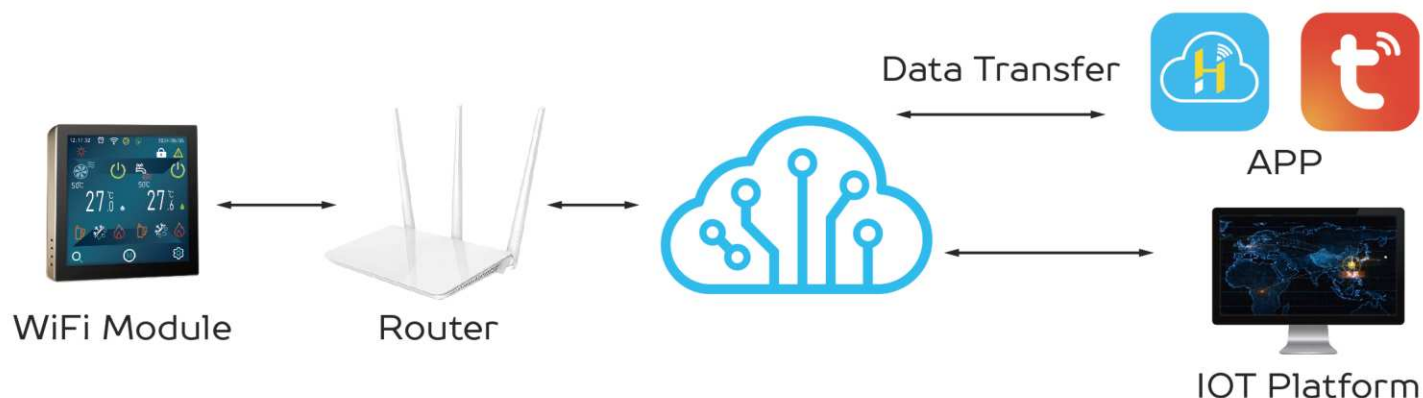


SMART TOUCH DISPLAY



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

SMART CONTROL FAMILY

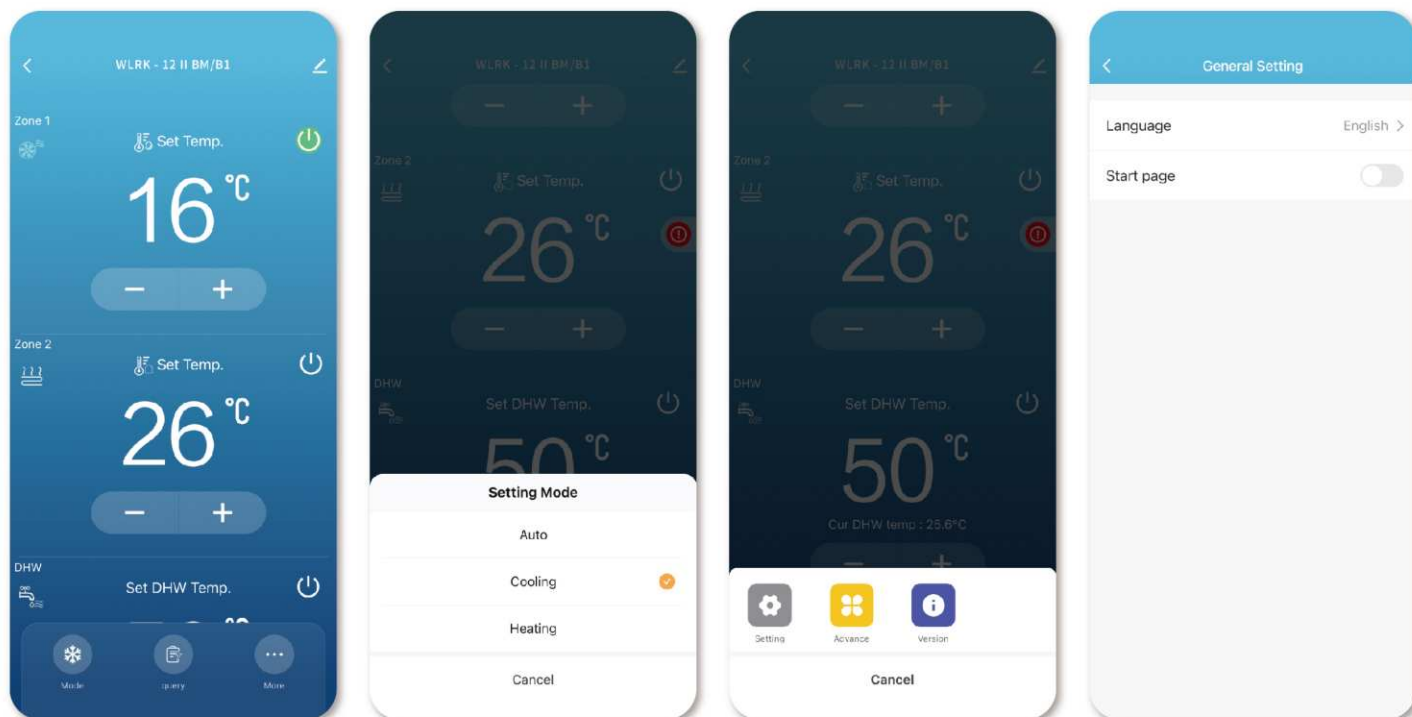


RS485

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.

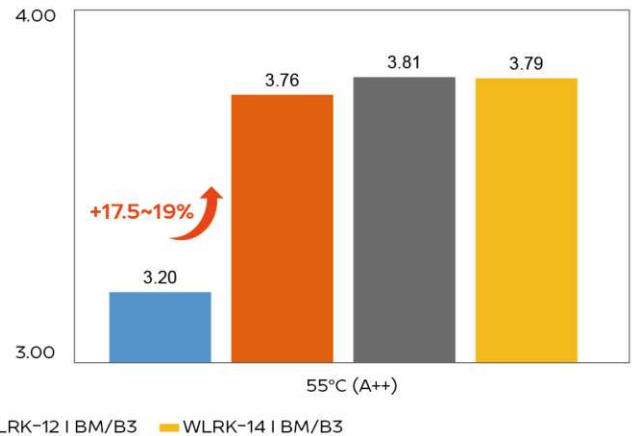
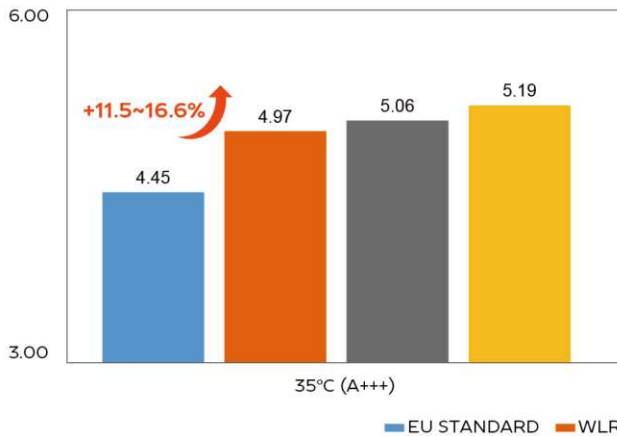


Smart APP control

Smart APP control brings a lot of convenience to users. Temperature adjustment, mode switching, and timer setting 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

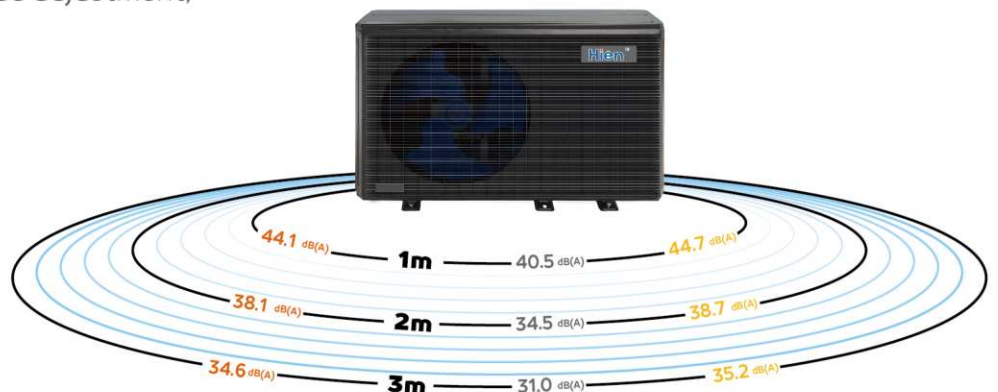
REGULATION : (EU) NO 811/2013



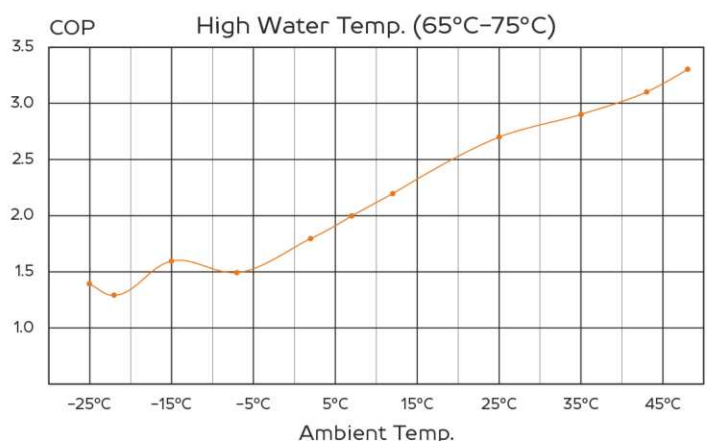
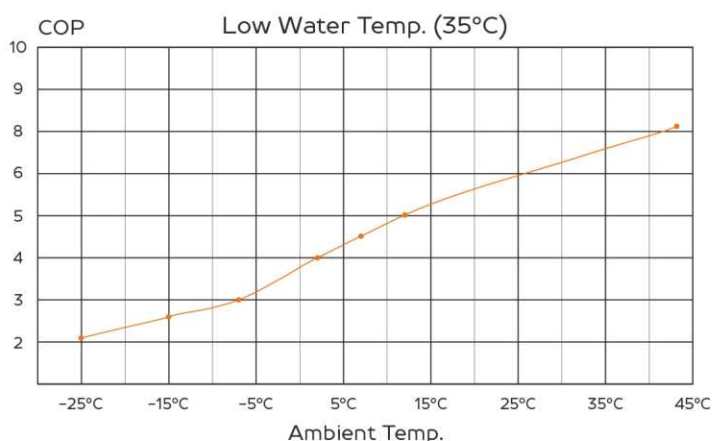
THE NINE - LAYER NOISE REDUCTION MEASURES INCLUDE :

- 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.

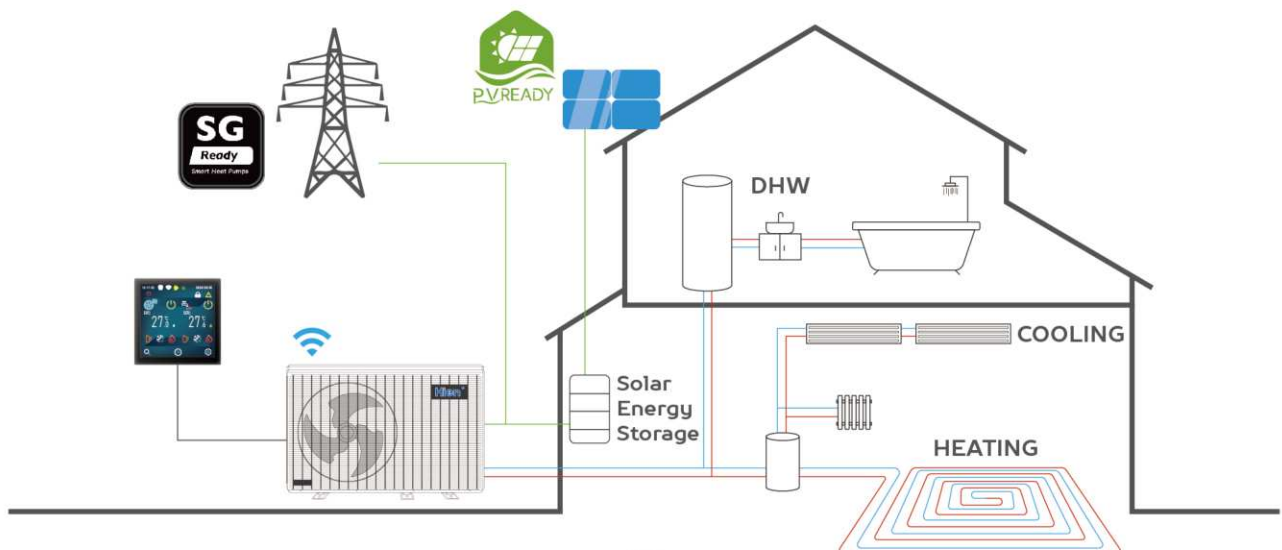
Don't compromise on safety and hygiene when it comes to your water supply. Choose our heat pump with its exceptional sterilizing mode, and enjoy the reassurance of pristine water quality every day.



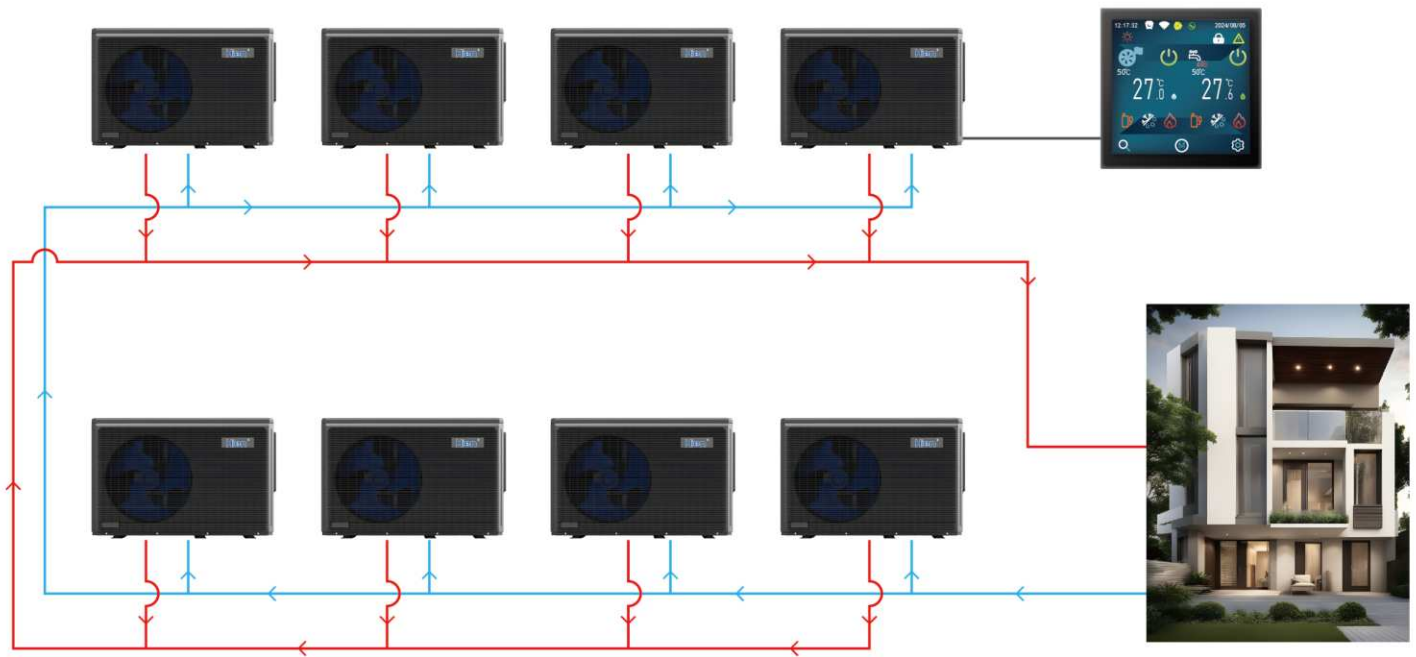
Can be operated in combination with:

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.



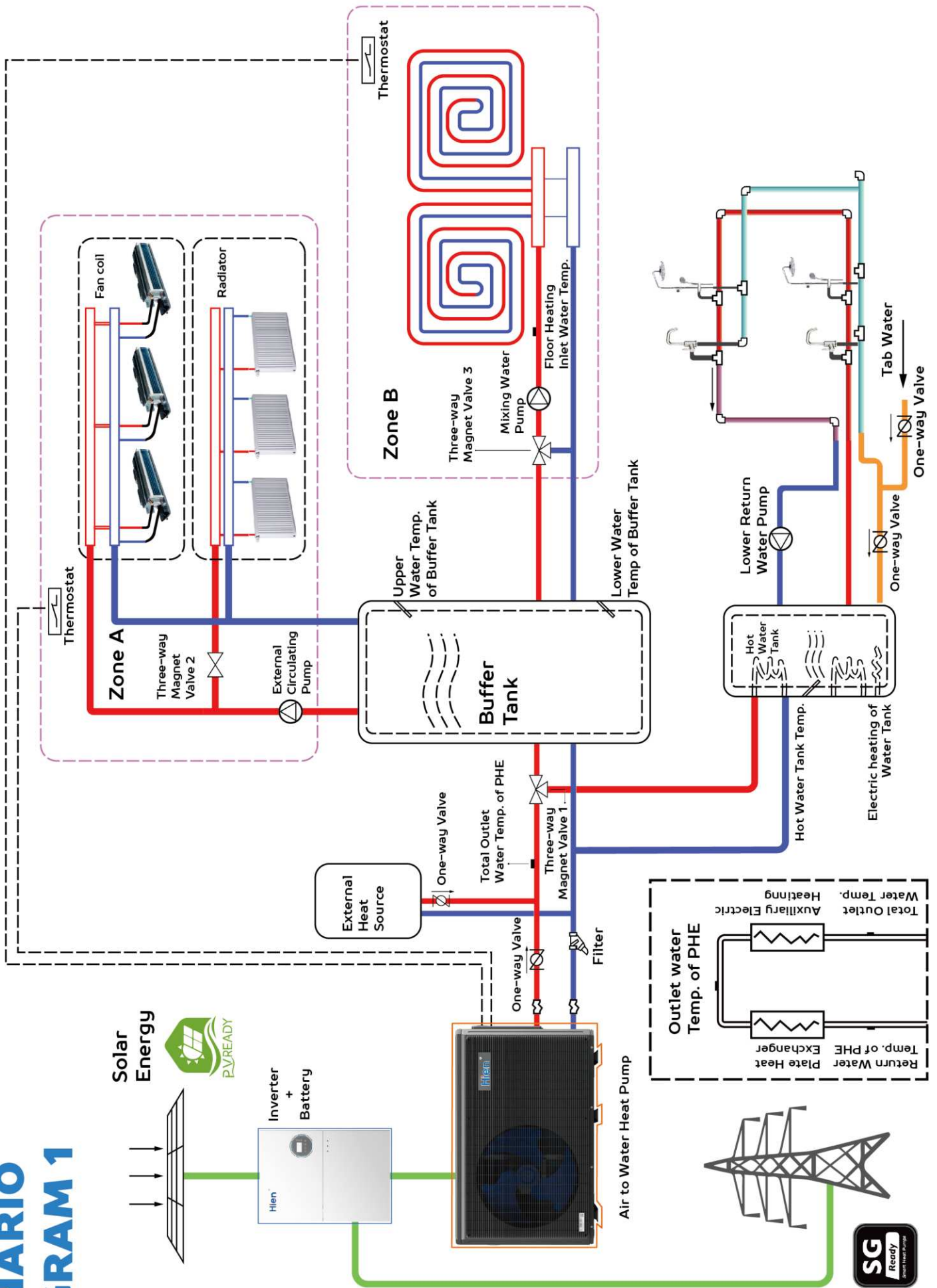
CASCADE SYSTEM DIAGRAM



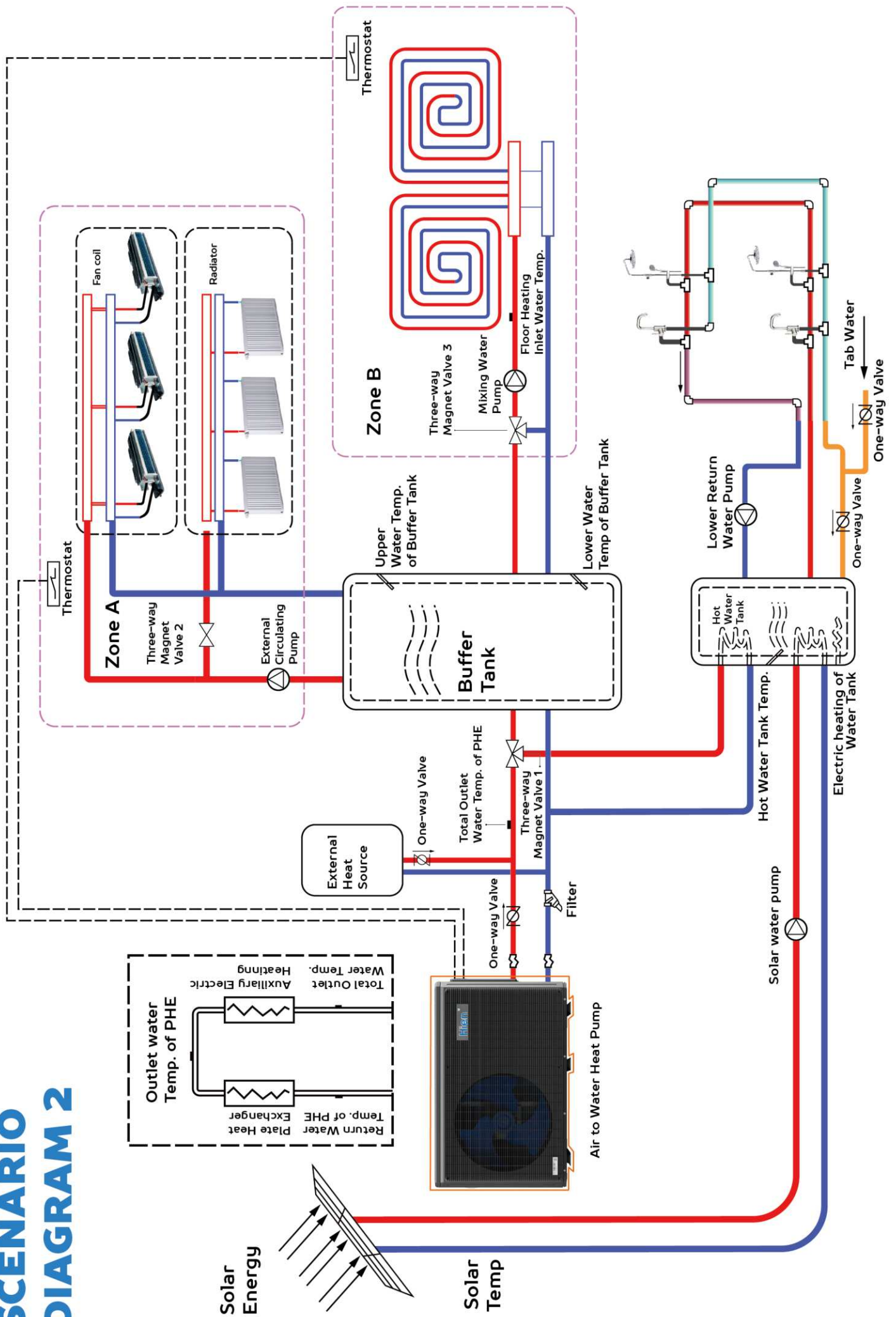
- Maximum of 8 units can be controlled with one touch screen.
- Connect 1 master to 7 slaves for networking.
- Can be operated independently or in group.
- Automatically control the start and stop of the machine based on water temperature.
- Multiple heat pumps can work together to improve the efficiency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



SCENARIO DIAGRAM 1



SCENARIO DIAGRAM 2



SPECIFICATIONS



Dc Inverter Heat Pump			WLRK-6IBM/B3	WLRK-8IBM/B3	WLRK-10IBM/B3	WLRK-12IBM/B3	WLRK-14IBM/B3	WLRK-12IIBM/B3	WLRK-14IIBM/B3	WLRK-16IIBM/B3
Heating Conditions			Outdoor Air Temperature : DB 7°C / WB 6°C , Indoor Water Temperature Inlet/Outlet : 30°C / 35°C .							
Rated Heating Capacity		kW	6.00	8.00	10.00	12.00	14.00	12.00	14.00	16.00
Heating Power Input		kW	1.22	1.79	2.24	2.65	3.19	2.60	3.16	3.50
Current input Range		A	5.30	7.81	9.77	11.51	13.86	3.95	4.80	5.32
Heating Cop		W/W	4.90	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	6.00	8.05	9.98	12.00	14.07	12.07	13.96	16.05
Heating Power Input		kW	2.03	2.62	3.28	3.99	4.82	3.98	4.72	5.40
Current input Range		A	8.84	11.55	14.29	17.33	21.00	6.05	7.17	8.22
Heating Cop		W/W	2.95	3.07	3.04	3.01	2.92	3.03	2.96	2.97
Cooling Conditions			Outdoor Air Temperature : DB 35°C/ WB 24°C, Indoor Water Temperature Inlet/Outlet : 23°C / 18°C							
Rated Cooling Capacity		kW	6.50	8.80	10.50	12.80	15.00	12.80	15.00	17.00
Cooling Power input		kW	1.91	2.63	2.96	3.79	4.73	3.88	4.91	4.40
Current input Range		A	8.30	11.46	12.86	16.51	20.57	5.89	7.47	6.69
Cooling EER		W/W	3.40	3.33	3.55	3.37	3.17	3.30	3.05	3.86
Outdoor Air Temp.35/-°C; Water outlet: 7°C		kW	1.7-5.0	1.8-6.5	2.6-8.2	3.4-9.8	3.4-11.0	3.4-9.8	3.4-11.0	/
Outdoor Air Temp.35/-°C; Water outlet: 18°C		kW	2.2-6.5	2.5-8.8	3.5-10.5	4.5-12.8	4.5-15.0	4.5-12.8	4.5-15.0	/
Ambient Temp. 12/11°C	35° C outlet	kW	2.8-6.5	3.1-9.2	4.1-10.8	5.5-13.5	5.8-16.0	5.5-13.5	5.8-16.0	/
	55° C outlet	kW	2.6-6.5	2.9-9.2	3.8-10.8	4.9-13.5	5.2-16.0	4.9-13.5	5.2-16.0	/
Ambient Temp. 7/6°C	35° C outlet	kW	2.6-6.0	2.7-8.0	3.8-10.0	4.9-12.0	4.6-14.0	4.9-12.0	4.6-14.0	/
	55° C outlet	kW	2.3-6.0	2.5-8.0	3.5-10.0	4.5-12.0	4.8-12.7	4.5-12.0	4.8-12.7	/
Ambient Temp. 2/1°C	35° C outlet	kW	2.4-5.2	2.5-7.0	3.5-8.5	4.5-10.5	4.8-12.7	4.5-10.5	4.8-12.7	/
	55° C outlet	kW	2.2-5.2	2.3-7.0	3.2-8.5	4.2-10.5	4.5-12.7	4.2-10.5	4.5-12.7	/
Ambient Temp. -7/-8°C	35° C outlet	kW	2.1-4.8	2.2-6.2	3.1-7.8	4.1-9.8	4.3-11.3	4.1-9.8	4.3-11.3	/
	55° C outlet	kW	2.1-4.8	2.2-6.2	3.2-8.0	4.2-10.0	4.4-11.6	4.2-10.0	4.4-11.6	/
Ambient Temp. -15/-°C	35° C outlet	kW	1.8-3.5	2.1-5.0	2.6-5.8	3.9-8.2	4.0-9.1	3.9-8.2	4.0-9.1	/
	55° C outlet	kW	1.8-3.5	2.1-5.0	2.6-5.8	3.9-8.2	4.0-9.1	3.9-8.2	4.0-9.1	/
Ambient Temp. -22/-°C	35° C outlet	kW	1.5-3.0	1.7-4.0	2.3-5.0	3.2-6.8	3.1-7.1	3.2-6.8	3.1-7.1	/
	55° C outlet	kW	1.3-2.7	1.5-3.8	2.0-4.7	2.8-6.4	3.0-7.0	2.8-6.4	3.0-7.0	/
Voltage		V/Hz	220V-240V-/50Hz					380V ~ 415V3N- /50Hz		
Rated Water Flow		m³/h	1.03	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/Charge		/	R290/0.6kg	R290/0.7kg	R290/0.8kg	R290/0.95kg	R290/1.00kg	R290/0.95kg	R290/1.00kg	R290
Compressor	Form	/	Double - rotor	Double - rotor	Double - rotor	Double - rotor	Double - rotor	Double - rotor	Double - rotor	Double - rotor
	Brand	/	Highly	Highly	Highly	Highly	Highly	Highly	Highly	Highly
Net Size		mm	1160*455*743	1160*455*743	160*455*743	1330*486*914	1330*486*914	1330*486*914	1330*486*914	1330*486*914
Weight		kg	95.00	97.00	106.00	129.00	134.00	143.00	147.00	151.00
Sound Pressure (1m)		dB (A)	≤45							
Fan	Form	/	Intelligent variable frequency fan motor							
Operation ambient Temp.		°C	-20-43							
Max.Outlet Water Temp.		°C	75							
Inlet Pipe Diameter		mm	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1"
Outlet Pipe Diameter		mm	G1"	G1"	G1"	G1"	G1"	G1"	G1"	G1"
Packing Size		mm	1335*605*955	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, two-story building with large glass windows and doors is illuminated at night. The interior lights are on, showing a bright, minimalist interior. Outside, on a wooden deck, there are three blue lounge chairs. In the foreground, a swimming pool reflects the building and the sky. The sky is dark with some clouds and a few stars. The overall atmosphere is serene and modern.

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