

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.

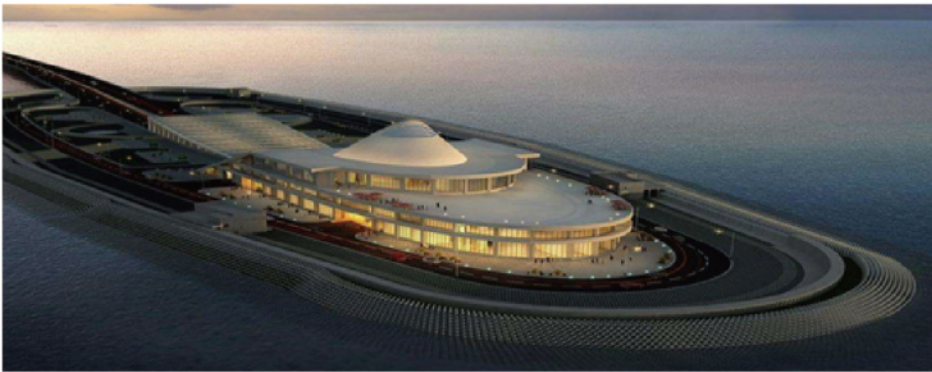


The 2013 Boao Summit for Asia in Hainan.



Universiade SHENZHEN 2011

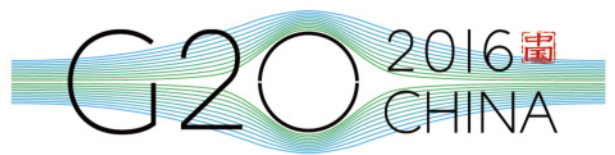
The 2011 Universiade in Shenzhen.



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.



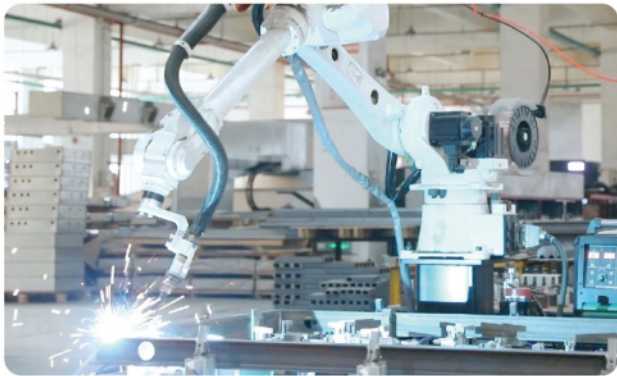
The 2022 Beijing Winter Olympic Games & Paralympic Games.



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**

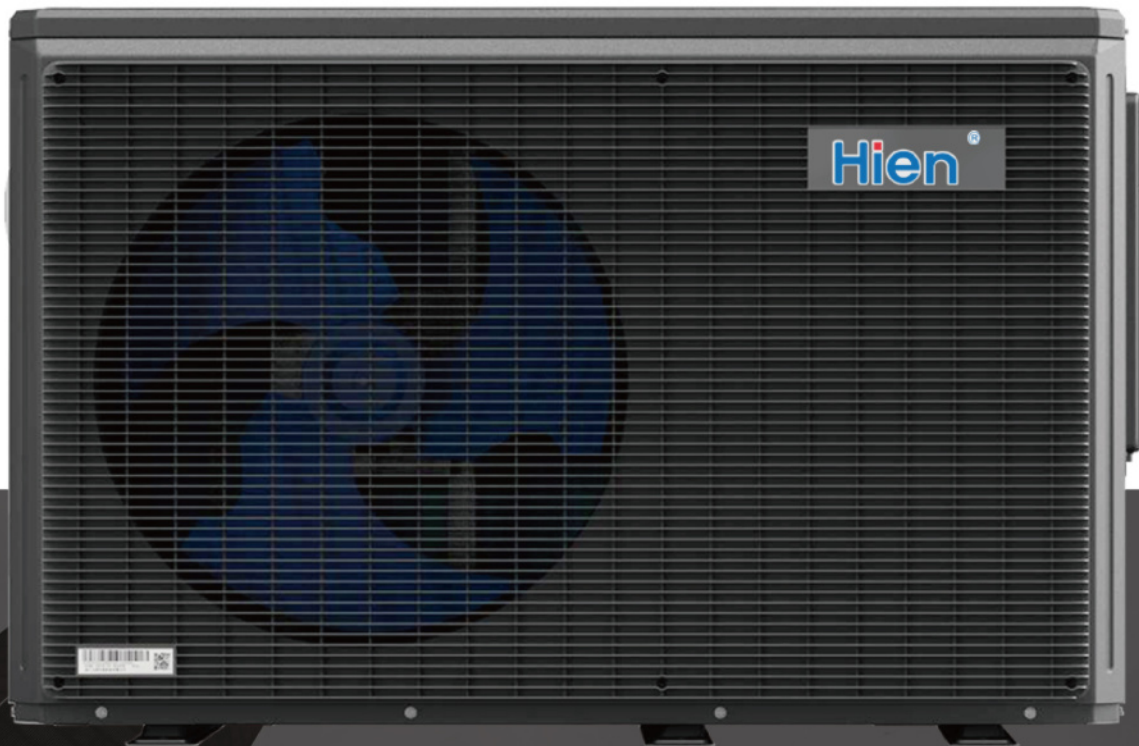
AIR TO WATER HEAT PUMP


HEATING+COOLING+DHW


**ECOFORCE
SERIES**


SCOP


R290 



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

 **Energy - Saving up to 80%**

 **Wi-Fi App Smart Controlled**

 **Stable Running at -25°C Ambient Temperature**

Multi-function Selections

There are 5 operation modes to be selected :

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

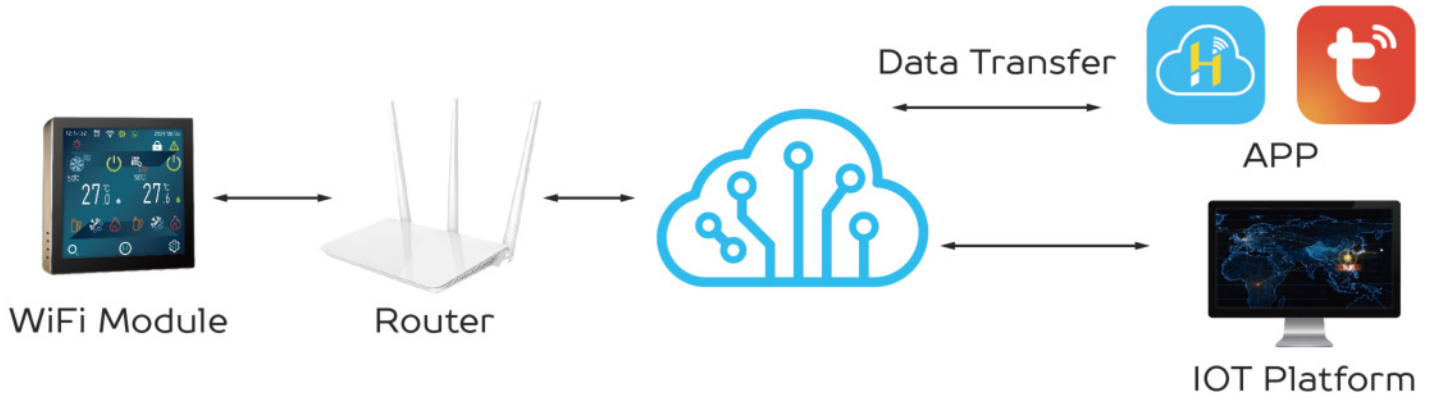


SMART TOUCH DISPLAY



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

SMART CONTROL FAMILY

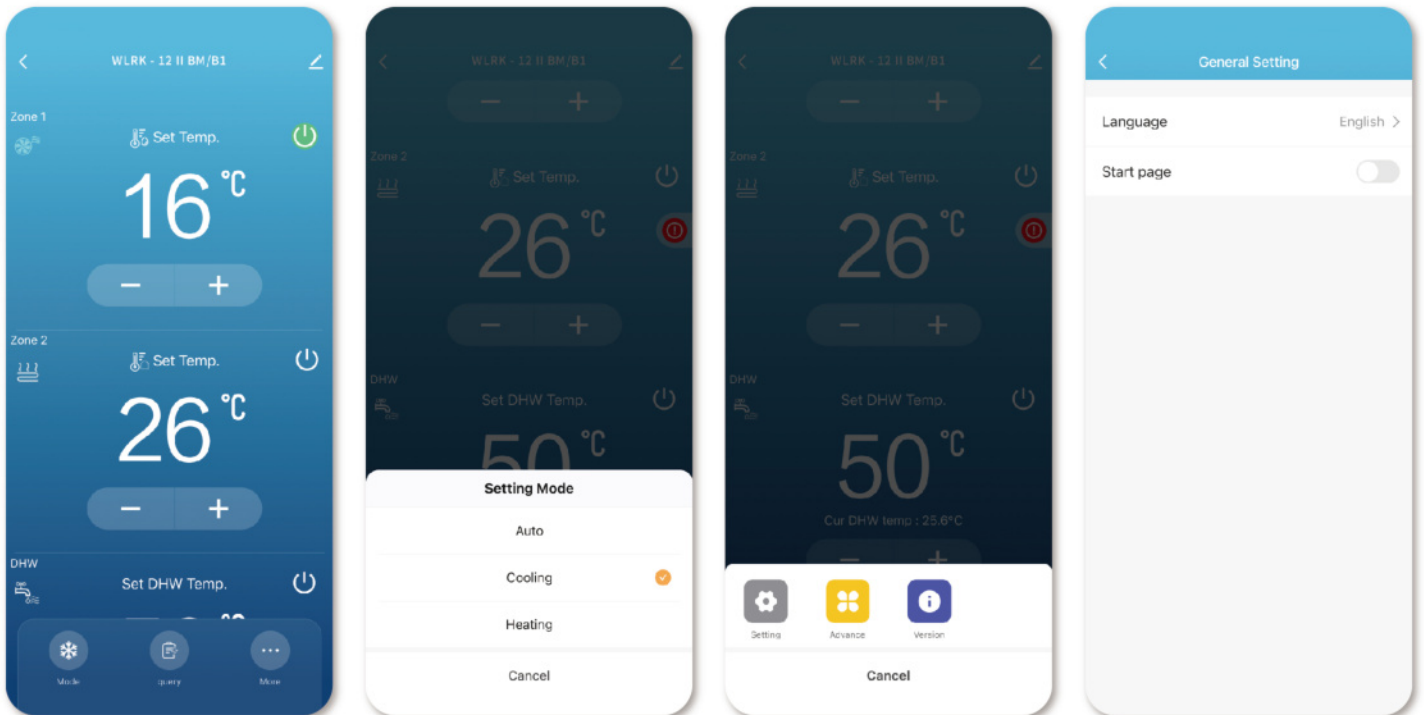


RS485

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.

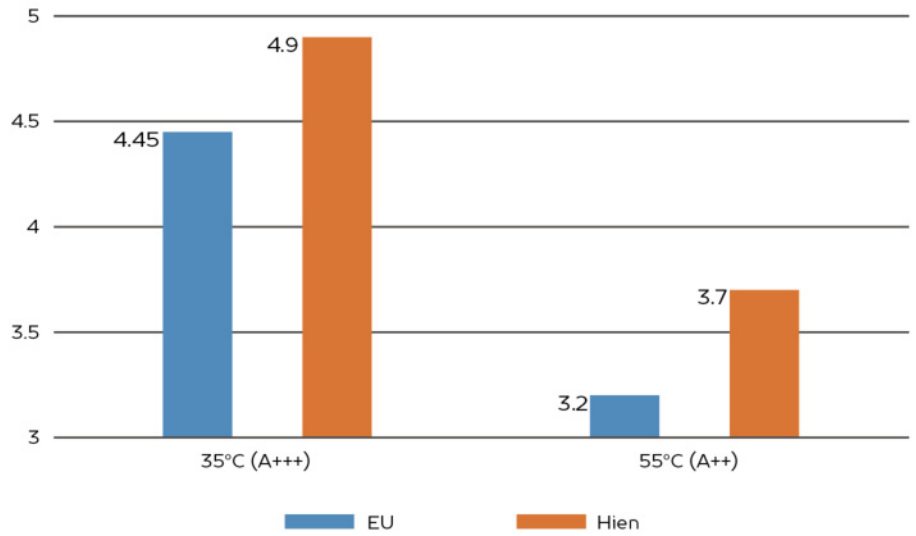
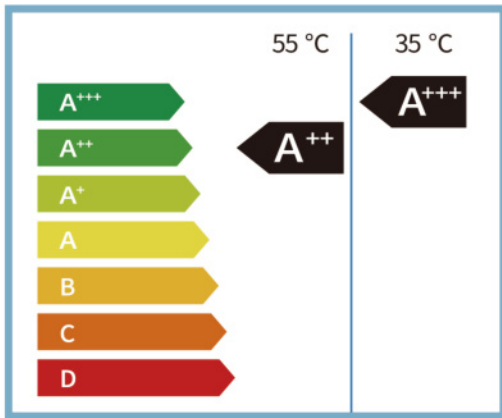


Smart APP control

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.

SUPER HIGH EFFICIENCY A+++

Comparison of Hien With The EU Standard SCOP.

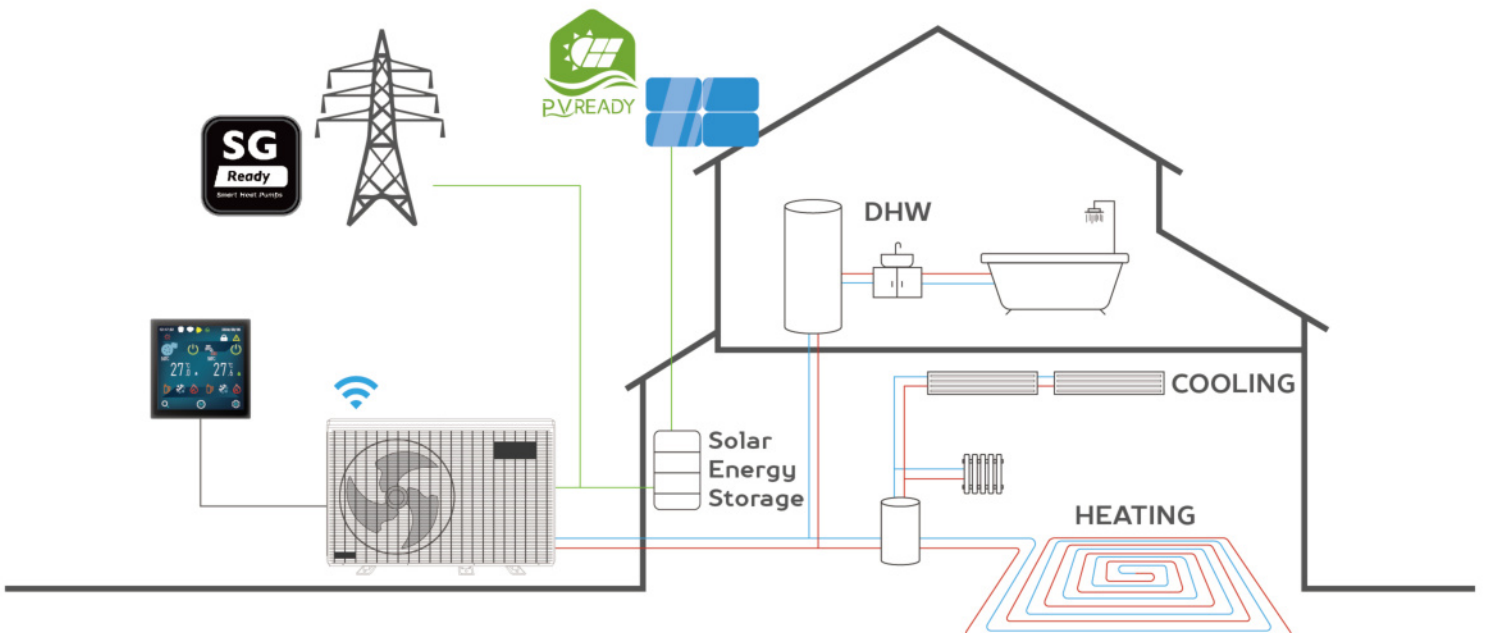


Can be operated in combination with:

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

Ecoforce Series delivers heat through a heating distribution system, such as radiators, underfloor heating, fan coils, or air conditioners, for reliable heating, cooling, and domestic hot water throughout the seasons. Depending on the season and air temperature, the heat pump automatically adjusts and operates optimally in the heating or cooling modes for optimal energy savings.

Suits a wide variety of applications, including space heating, domestic hot water for residential and commercial projects.



STERILIZING MODE

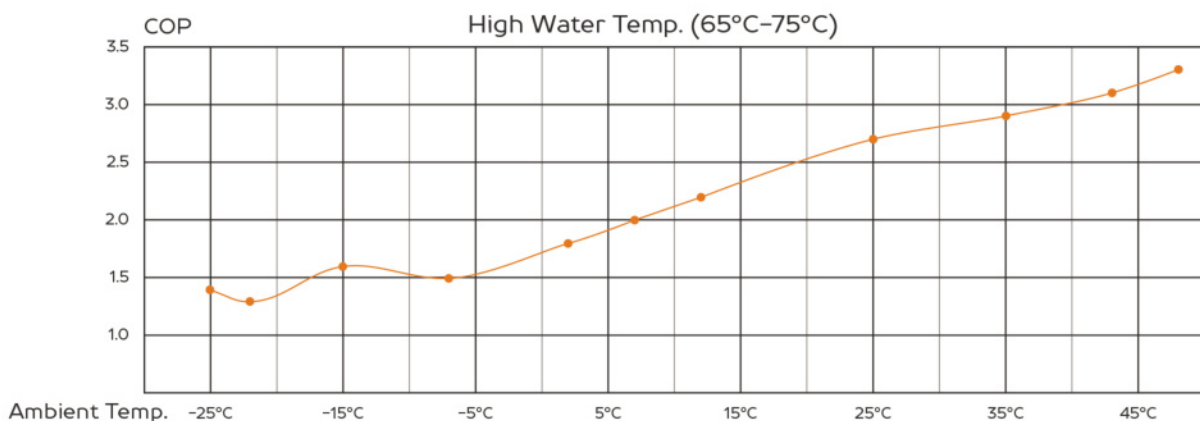
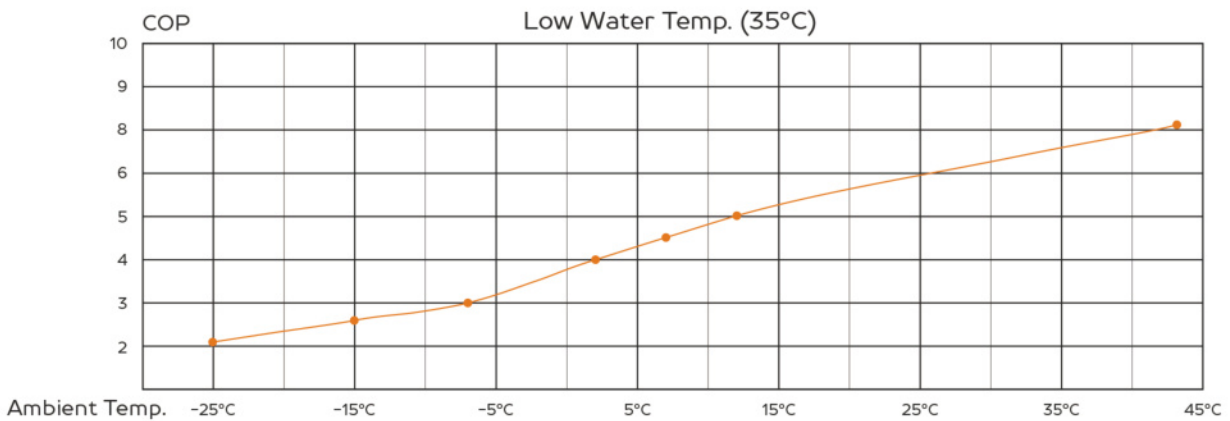
Thanks to its ability to reach temperatures as high as 75°C, this cutting-edge product eliminates harmful Legionella bacteria and viruses, ensuring the highest level of water safety.

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.



PERFORMANCE CHARTS



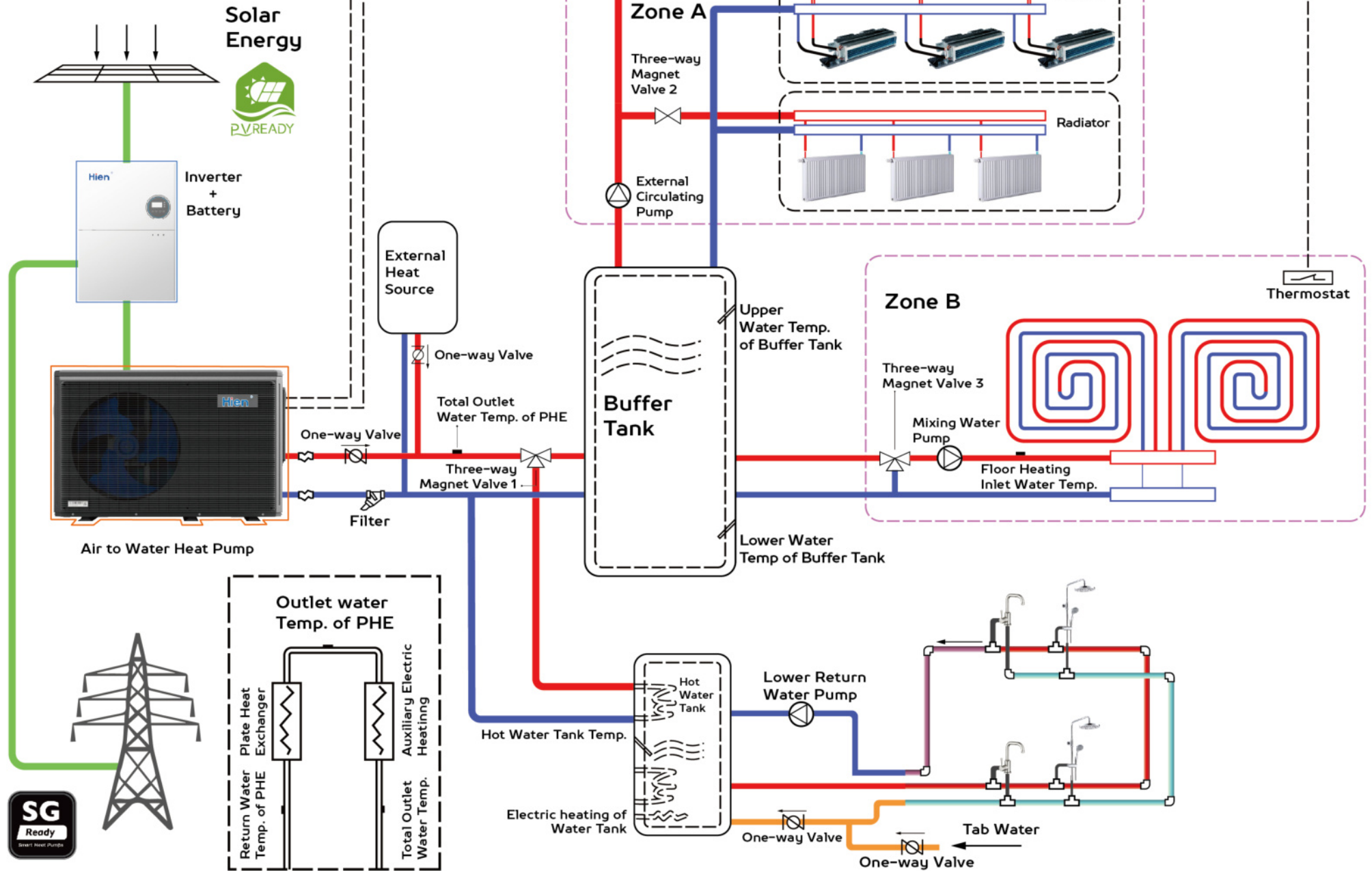
CASCADE SYSTEM DIAGRAM



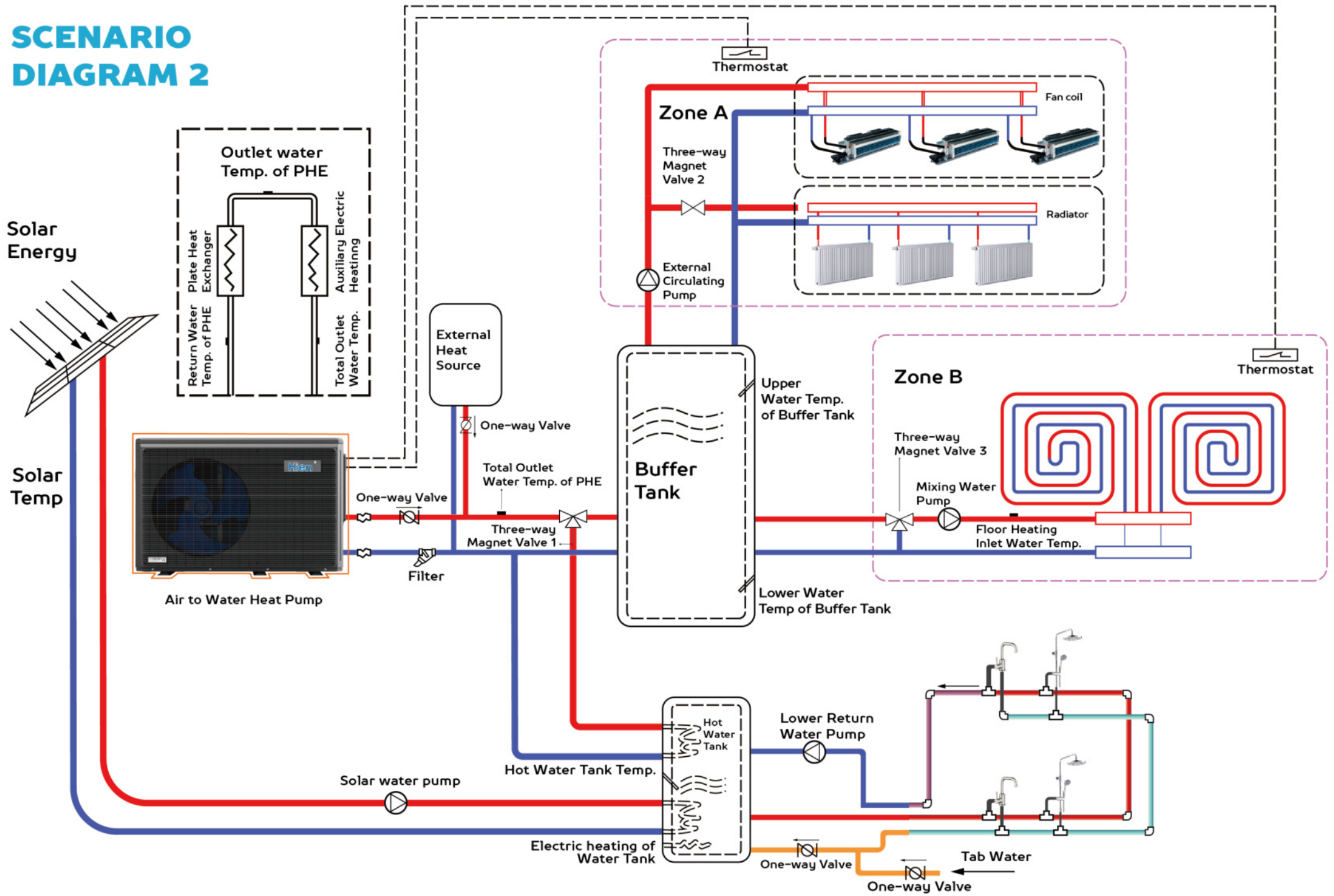
- Maximum of 8 units can be controlled with one touch screen.
- Connect 1 master to 7 slaves for networking.
- Can be operated independently or in group.
- Automatically control the start and stop of the machine based on water temperature.
- Multiple heat pumps can work together to improve the efficiency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



SCENARIO DIAGRAM 1



SCENARIO DIAGRAM 2



SPECIFICATIONS



| Dc Inverter Heat Pump | | WLRK-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 | 1.5 ~ 5.8 | 2.2 ~ 7.6 | 2.8 ~ 13.0 | 3.3 ~ 14.2 | 2.8 ~ 9.5 | 3.3 ~ 11.3 | 3.8 ~ 13.2 | |
| Cooling Power Input | kW | 0.34 ~ 2.15 | 0.51 ~ 2.81 | 0.64 ~ 3.90 | 0.75 ~ 4.40 | 0.64 ~ 3.51 | 0.75 ~ 4.18 | 0.86 ~ 4.89 | |
| Current Input Range | A | 1.55 ~ 9.83 | 2.33 ~ 12.88 | 2.93 ~ 16.92 | 3.43 ~ 19.17 | 1.12 ~ 5.79 | 1.25 ~ 6.92 | 1.42 ~ 8.16 | |
| Cooling EER | W/W | 4.4 ~ 2.7 | 4.4 ~ 2.7 | 4.4 ~ 3.33 | 4.4 ~ 3.22 | 4.4 ~ 2.7 | 4.4 ~ 2.7 | 4.4 ~ 2.7 | |
| Heating Conditions | | Outdoor Air Temperature : DB 7°C / WB 6°C , Indoor Water Temperature Inlet/Outlet : 30°C / 35°C . | | | | | | | |
| Rated Heating Capacity | kW | 3.3 ~ 8.6 | 3.8 ~ 9.9 | 4.3 ~ 12.0 | 4.8 ~ 14.0 | 4.35 ~ 12.7 | 4.86 ~ 14.8 | 5.3 ~ 16.8 | |
| Heating Power Input | kW | 0.55 ~ 1.88 | 0.64 ~ 2.19 | 0.72 ~ 2.60 | 0.81 ~ 3.04 | 0.73 ~ 2.78 | 0.81 ~ 3.31 | 0.88 ~ 3.67 | |
| Current Input Range | A | 2.51 ~ 8.59 | 2.93 ~ 10.51 | 3.30 ~ 11.32 | 3.71 ~ 13.23 | 1.21 ~ 4.59 | 1.35 ~ 5.52 | 1.48 ~ 6.15 | |
| Heating COP | W/W | 6.02 ~ 4.58 | 6.02 ~ 4.52 | 6.02 ~ 4.61 | 6.02 ~ 4.60 | 6.02 ~ 4.58 | 6.02 ~ 4.58 | 6.02 ~ 4.58 | |
| Heating Conditions | | Outdoor Air Temperature : DB 7°C / WB 6°C , Indoor Water Temperature Inlet / Outlet : 50°C / 55°C | | | | | | | |
| Rated Heating Capacity | kW | 3.1 ~ 7.8 | 3.5 ~ 9.6 | 3.9 ~ 11.4 | 4.4 ~ 13.1 | 4.0 ~ 11.6 | 4.5 ~ 13.5 | 4.9 ~ 15.3 | |
| Heating Power Input | kW | 0.67 ~ 2.67 | 0.76 ~ 3.29 | 0.85 ~ 3.91 | 0.96 ~ 4.49 | 0.87 ~ 3.98 | 0.98 ~ 4.63 | 1.12 ~ 5.25 | |
| Current Input Range | A | 3.12 ~ 12.21 | 3.52 ~ 15.13 | 3.93 ~ 17.88 | 3.16 ~ 21.3 | 1.45 ~ 6.67 | 1.68 ~ 7.68 | 1.86 ~ 8.96 | |
| Heating COP | W/W | 4.63 ~ 2.92 | 4.63 ~ 2.92 | 4.63 ~ 2.92 | 4.63 ~ 2.92 | 4.63 ~ 2.92 | 4.63 ~ 2.92 | 4.63 ~ 2.92 | |
| Voltage | V/Hz | 220V ~ 240V ~ /50Hz | | | | 380V ~ 420V 3N ~ /50Hz | | | |
| Rated Water Flow | m³/h | 1.48 | 1.7 | 2.06 | 2.4 | 2.18 | 2.55 | 2.89 | |
| 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 | 1200*470*765 | 1200*470*765 | 1370*500*935 | 1370*500*935 | 1370*500*935 | 1370*500*935 | 1370*500*935 | |
| Weight | kg | 100 | 110 | 130 | 138 | 135 | 142 | 148 | |
| Sound Pressure Level | dB (A) | ≤55 | | | | | | | |
| Fan | Form | / | Intelligent variable frequency fan motor | | | | | | |
| Operation ambient temperature | °C | -25 ~ 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 | 1270*555*808 | 1270*555*808 | 1440*570*1080 | 1440*570*1080 | 1440*570*1080 | 1440*570*1080 | 1440*570*1080 | |
| 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 building at dusk with a wooden deck and blue chairs. The building has large glass windows and a dark facade. The sky is a mix of blue and orange, suggesting sunset or sunrise. The scene is lit with warm interior lights and cool exterior spotlights.

Hien[®]

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