Hien®

DC INVERTER AIR TO WATER HEAT PUMP

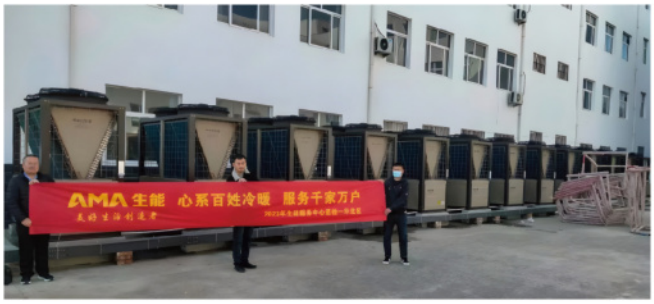
MONOBLOC

Heating+Cooling+DHW

A+++ R32 60℃ IOT -25℃ SG Ready Smart Heat Pumps PV READY

CLOVERLIFE SERIES

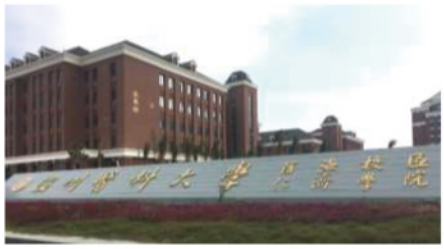
ENERGY TRANSITION PROJECTS



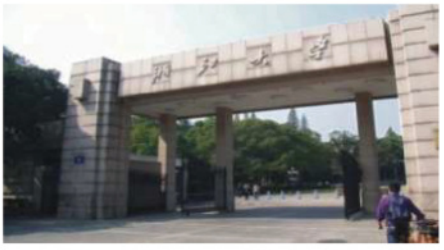
PROJECTS

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

SCHOOLS





HOSPITALS






RESIDENTIAL






HIGHTLIGHT

The 2008 Shanghai World Expo.

BOAO FORUM FOR ASIA

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.

G20 2016 CHINA

2016 the G20 Hangzhou Summit.

BEIJING 2022 BEIJING 2022

The 2022 Beijing Winter Olympic Games & Paralynpic Games.

19th Asian Games Hangzhou 2022

2023 the Asian Games in Hangzhou

ABOUT 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.

AIR TO WATER HEAT PUMP

HEATING + COOLING + DHW

CLOVERLIFE SERIES

DC Inverter EVI Technology

EVI (Enhanced Vapor Injection) is a technology that enhances the performance of heat pumps in ultra-low temperatures.

High Efficiency A+++ Energy Level

CloverLife Series DC inverter techology enables the heat pump to adjust it's ftequency from 30Hz to 90Hz according to real heating requirements.

Running at Low Temperature

It can maintain a more stable and efficent proformance in a ambient temperature from -25°C to 43°C, providing a wide range of applicantions for users.

Energy-Saving up to 80%

Utilizing advanced technology to efficiently heat and cool your space, providing a sustainable and cost-effective solution for environmentally conscious homeowners.

Multi-function Selections

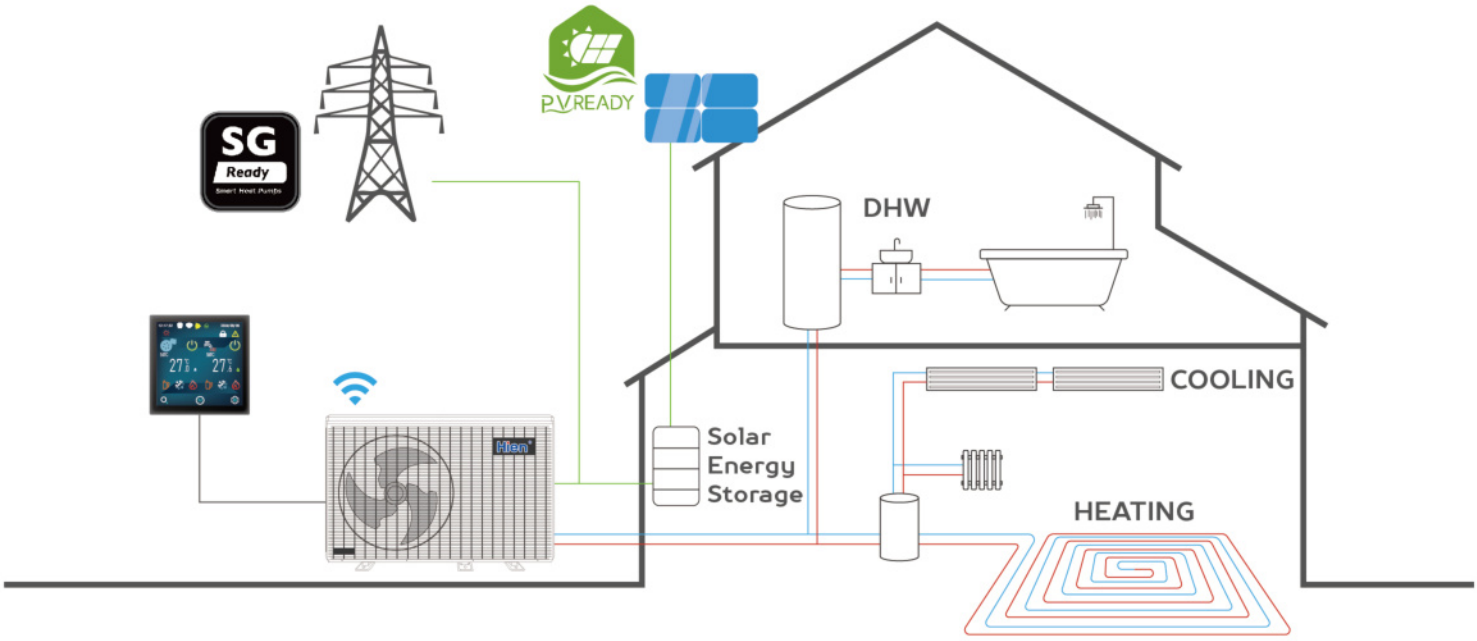
- Heating + Hot Water
- Cooling + Hot Water
- Heating
- Cooling
- DHW

Can be operated in combination with:

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

Cloverlife 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 automatially adjusts and operates optimally in the heating or cooling modes for optimal energy savings.

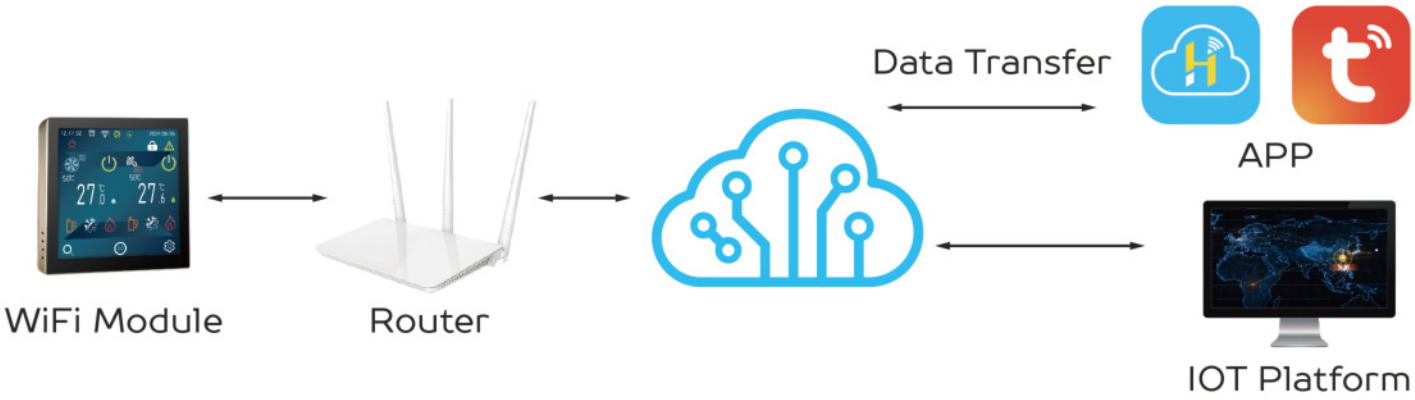
Suits a wide variety of applications, including space heating, domestic hot water for residential and commercial projects.



SMART TOUCH DISPLAY

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

SMART CONTROL FAMILY

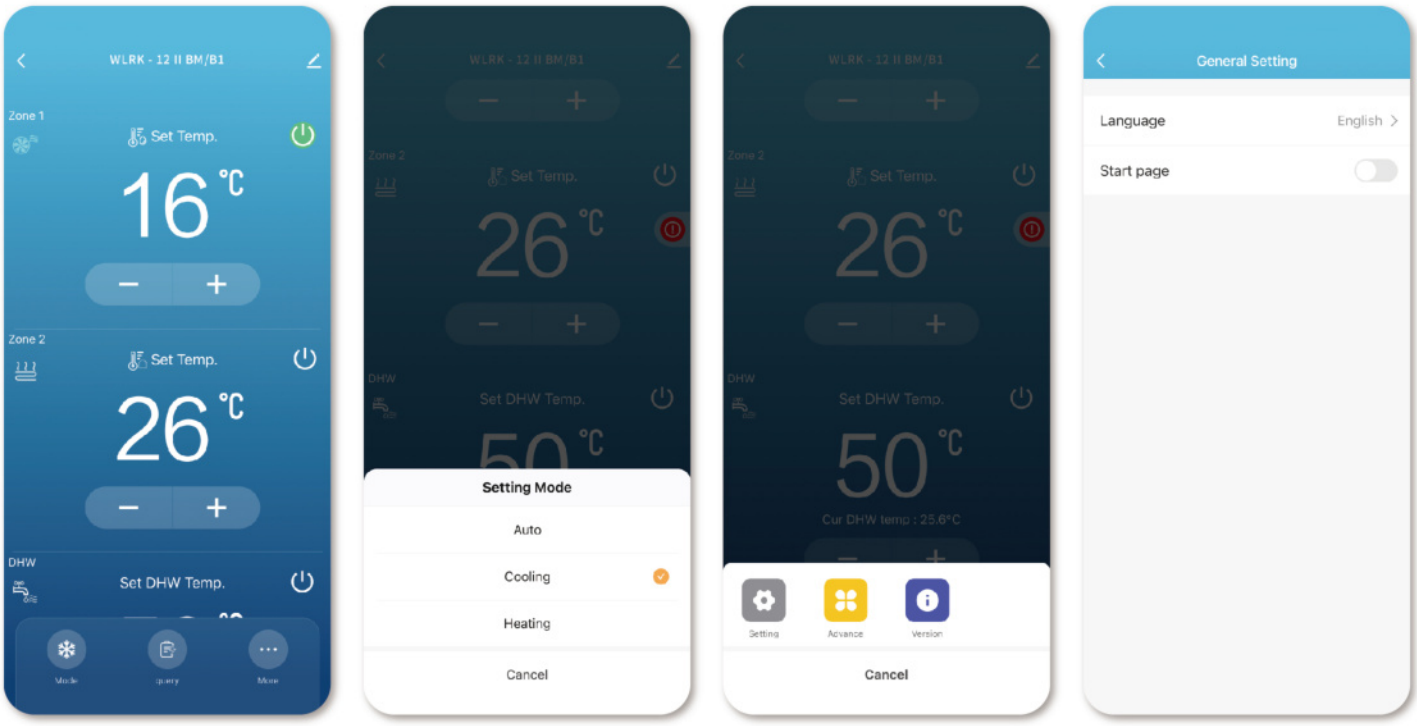


RS485

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, cloverlife 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

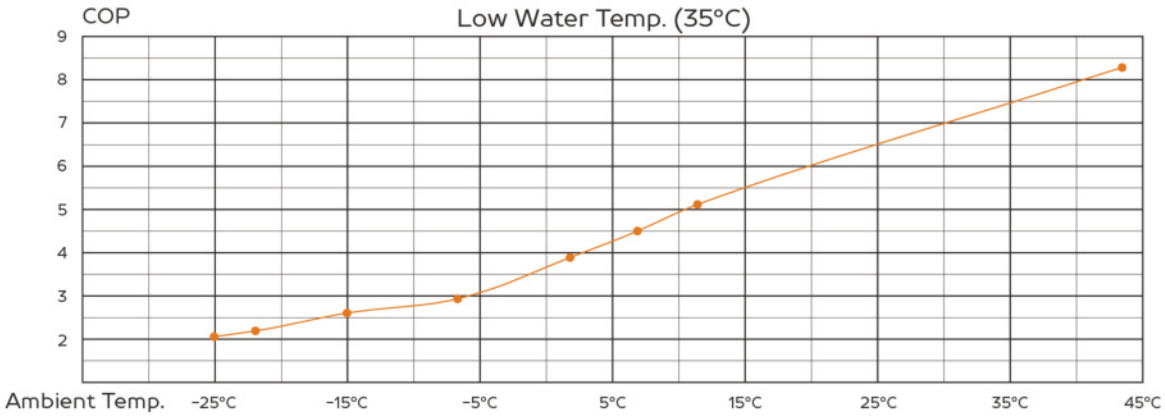
Smart APP control brings a lot of convenience to users. Temperature adjustment, mode switching, and timersetting can be achieved on your smart phone. Moreover, you can know power consumption statistics andfault record at anytime and anywhere.

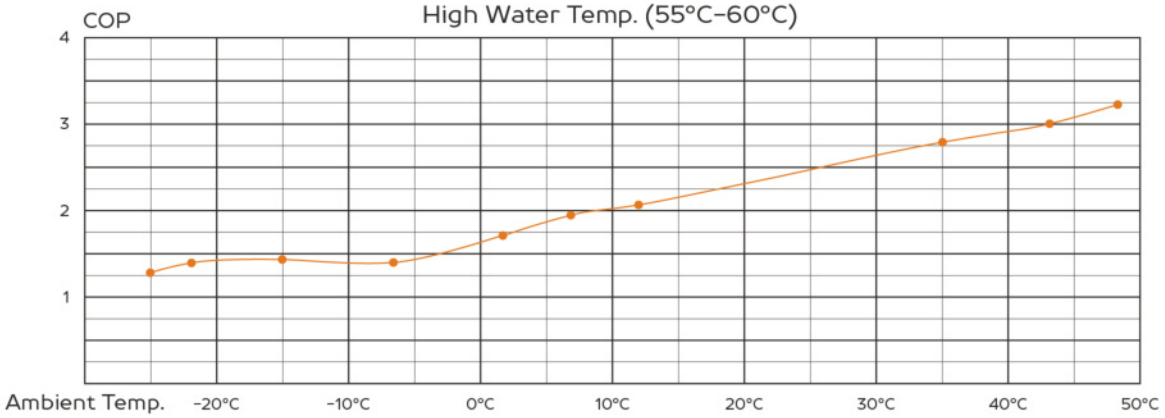
DC INVERTER EVI TECHNOLOGY

The EVI technology ensures optimum performance of the unit at ambient temperatures as low as -25°C. This allows users to enjoy comfortable house heating and a stable hot water supply all year round.

Additionally, it outperforms conventional heat pumps in low temperatures, delivering higher COP, which not only ensures greater energy efficiency and reliable warmth in winter, but also significantly reduces electricity bills, helping you save more.

PERFORMANCE CHARTS

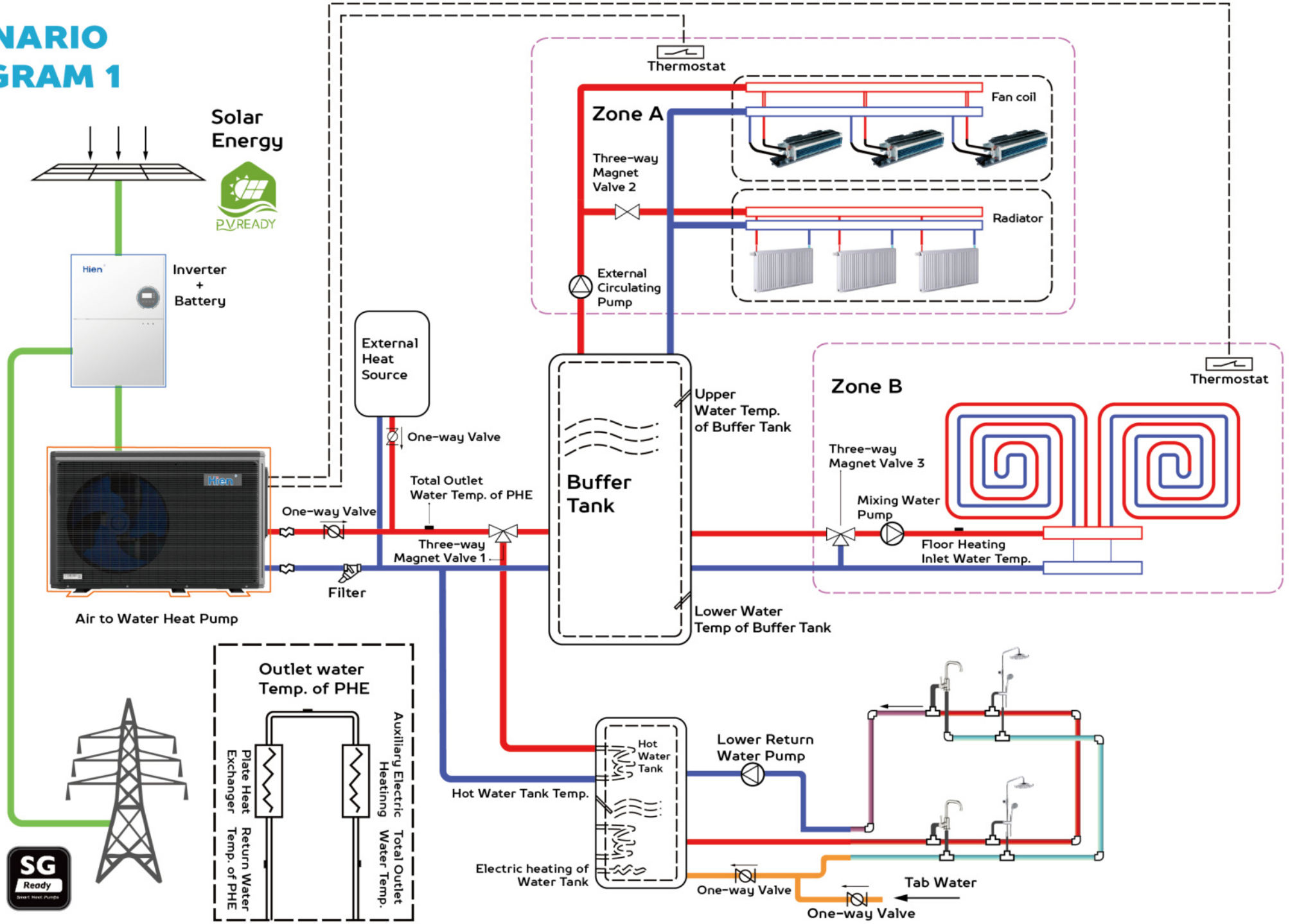




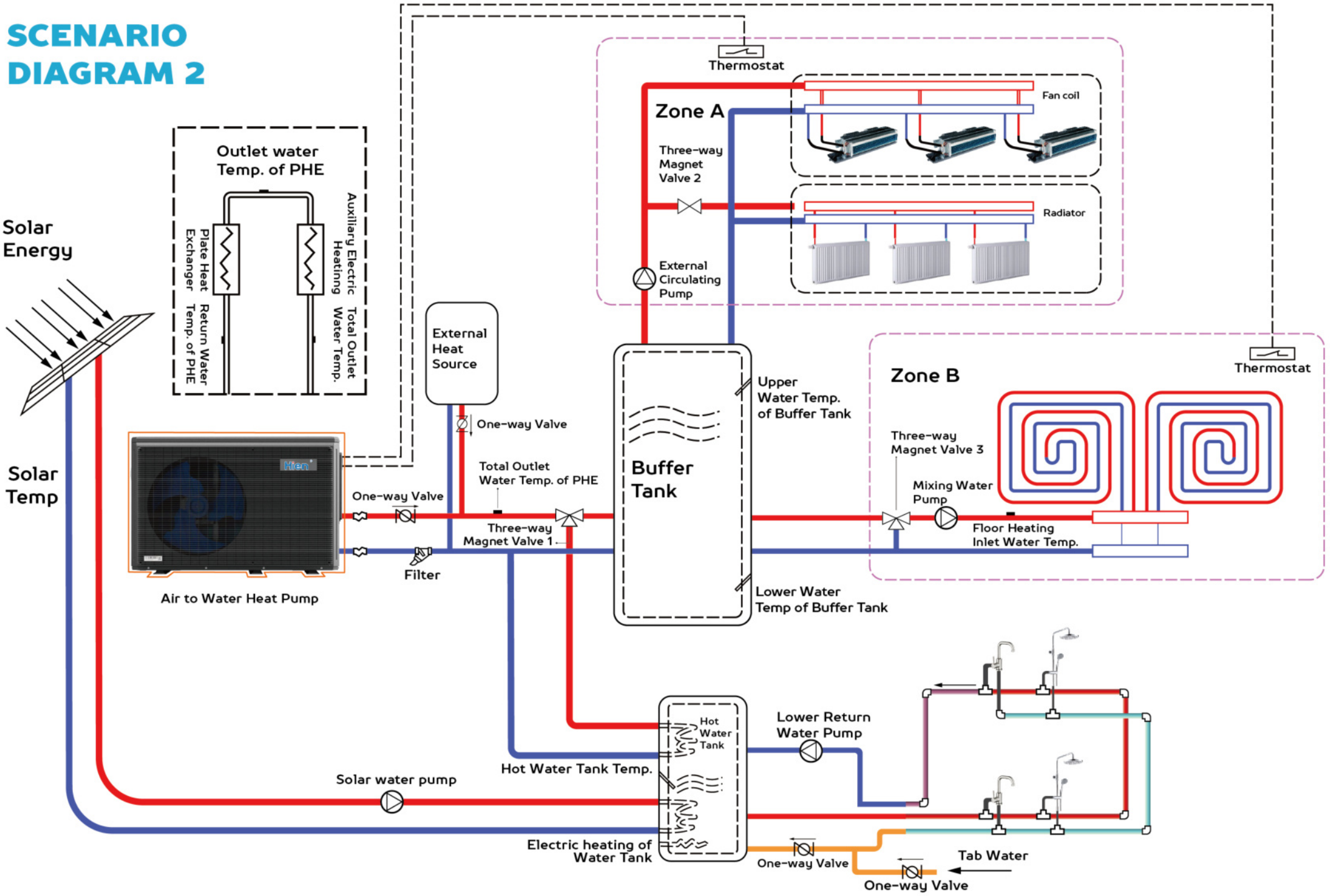
CASCADE SYSTEM DIAGRAM

- 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

SINGLE-PHASE ELECTRICITY

Model:		WDLRK-8 I BM/A3	WDLRK-10 I BM/A3	WDLRK-12 I BM/A3	WDLRK-14 I BM/A3	WDLRK-16 I BM/A3
Rated Heating Capacity	kW	8.00	10.00	11.60	14.00	16.00
Rated Heating Input	kW	1.80	2.22	2.64	3.04	3.41
Rated Heating Current	A	7.82	9.66	11.46	13.23	14.82
COP	W/W	4.44	4.50	4.40	4.60	4.70
Rated Cooling Capacity	kW	9.00	11.50	13.20	16.20	18.00
Rated Cooling Input	kW	2.40	3.09	4.00	4.62	5.07
Rated Cooling Current	A	10.43	13.44	17.39	20.12	22.04
EER	W/W	3.75	3.72	3.30	3.50	3.55
Power Supply	V,Hz	220-240V~,50HZ	220-240V~,50HZ	220-240V~,50HZ	220-240V~,50HZ	220-240V~,50HZ
Rated Power Input	kW	3.20	4.14	4.58	5.47	6.55
Rated Current	A	14.65	18.94	20.96	25.04	29.00
HP. PS	MPa	4.20	4.20	4.20	4.20	4.20
LP. PS	MPa	1.60	1.60	1.60	1.60	1.60
Max. Allowable Pressure	MPa	4.20	4.20	4.20	4.20	4.20
Refrigerant Type	/	R32	R32	R32	R32	R32
Charge	kg	1.70	1.70	1.95	2.50	2.60
GWP	/	675	675	675	675	675
Co2 Equivalent	t	1.15	1.15	1.32	1.69	1.76
Waterproof Grade	/	IPX4	IPX4	IPX4	IPX4	IPX4
Electrical Shockproof	/	Class I	Class I	Class I	Class I	Class I
Sound Power Level	dB(A)	58	58	62	62	62
Max. Water Outlet Temp.	℃	60	60	60	60	60
Diameter of Water Connection	/	DN25	DN25	DN25	DN25	DN25
Rating Water Flow	m^3/h	1.38	1.72	1.99	2.41	2.75
Min/Max Water Side Pressure	MPa	0.05/0.3	0.05/0.3	0.05/0.3	0.05/0.3	0.05/0.3
Net Dimensions (LxWxH)	mm	1200*470*765	1200*470*765	1200*470*765	1370*500*935	1370*500*935
Net weight	kg	100	102	106	126	137

Rated Test Conditions:

Heating: Ambient Temp. (DB / WB): 7℃/6℃ Water Temp.(Inlet / Outlet): 30℃/35℃.
Cooling:Ambient Temp. (DB / WB): 35℃/24℃.
Water Temp. (Inlet / Outlet): 23℃ / 18℃.
According to safely tests.

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

SPECIFICATIONS

THREE-PHASE ELECTRICITY



Model:		WDLRK-12 II BM/A3	WDLRK-14 II BM/A3	WDLRK-16 II BM/A3
Rated Heating Capacity	kW	11.60	14.00	16.00
Rated Heating Input	kW	2.58	3.13	3.44
Rated Heating Current	A	3.72	4.75	5.22
COP	W/W	4.50	4.47	4.65
Rated Cooling Capacity	kW	13.20	16.20	18.00
Rated Cooling Input	kW	3.64	4.72	5.11
Rated Cooling Current	A	5.24	7.17	7.77
EER	W/W	3.63	3.43	3.52
Power Supply	V,Hz	380-415V,3N~,50Hz	380-415V,3N~,50Hz	380-415V,3N~,50Hz
Rated Power Input	kW	4.67	5.63	7.20
Rated Current	A	7.10	9.01	11.25
HP. PS	MPa	4.20	4.20	4.20
LP. PS	MPa	1.60	1.60	1.60
Max. Allowable Pressure	MPa	4.20	4.20	4.20
Refrigerant Type	/	R32	R32	R32
Charge	kg	1.95	2.50	2.60
GWP	/	675	675	675
Co2 Equivalent	t	1.69	1.69	1.76
Waterproof Grade	/	IPX4	IPX4	IPX4
Electrical Shockproof	/	Class I	Class I	Class I
Sound Power Level	dB(A)	55	62	62
Max. Water Outlet Temp.	℃	60	60	60
Diameter of Water Connectior	/	DN25	DN25	DN25
Rating Water Flow	m^3/h	1.99	2.41	2.75
Min/Max Water Side Pressure	MPa	0.05/0.3	0.05/0.3	0.05/0.3
Net Dimensions (LxWxH)	mm	1200*470*765	1370*500*935	1370*500*935
Net weight	kg	120	147	154

Rated Test Conditions:

Heating: Ambient Temp. (DB / WB): 7℃/6℃ Water Temp.(Inlet / Outlet): 30℃/35℃.
Cooling:Ambient Temp. (DB / WB): 35℃/24℃.
Water Temp. (Inlet / Outlet): 23℃ / 18℃.
According to safely tests.

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

Hien®

info@hien-ne.com
T/F : +86-0577-62121888

www.hien-ne.com

Germany Office: Martin-Behaim-StraBe 2 63263 Neu-Isenburg,Germany

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