

Hien[®]

DC INVERTER AIR TO WATER HEAT PUMP

MONOBLOC

Heating+Cooling+DHW



R290



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 60000 m² construction area and more than 1000 processing equipment, the main factory has 6 assembly lines, and the branch factory has 3 production workshops. Main products are air source heat pumps for residential, commercial, and industrial use. The capacity of our products are from 3KW to 320KW, mainly for heating, cooling and domestic hot water. As well as heat pump dryers for the production of tobacco, aroma wicks, medicinal herbs, tea, fruits and vegetables, and other categories.

An aerial photograph of a tropical beach. The top half of the image shows a dense, vibrant green forest. Below the forest is a sandy beach with several large, dark grey rocks scattered across it. The water is exceptionally clear, showing a gradient from light turquoise near the shore to a deeper blue further out. Gentle waves with white foam are visible in the lower right corner.

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**

R290 



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

 **Energy - Saving up to 80%**

 **Wi-Fi App Smart Controlled**

 **Stable Running at -20°C Ambient Temperature**

Multi-function Selections

There are 5 operation modes to be selected :

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

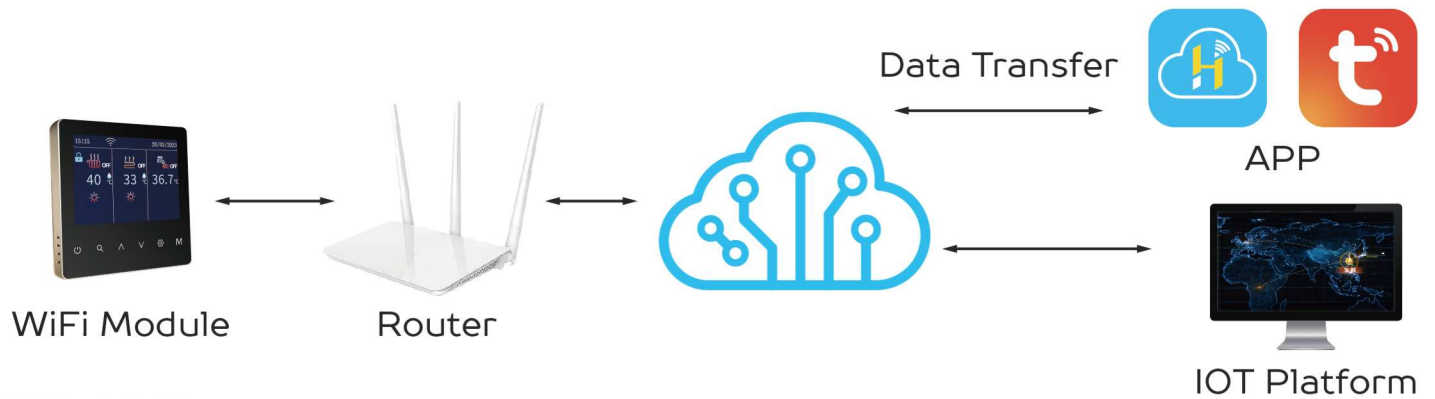


SMART TOUCH DISPLAY



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

SMART CONTROL FAMILY



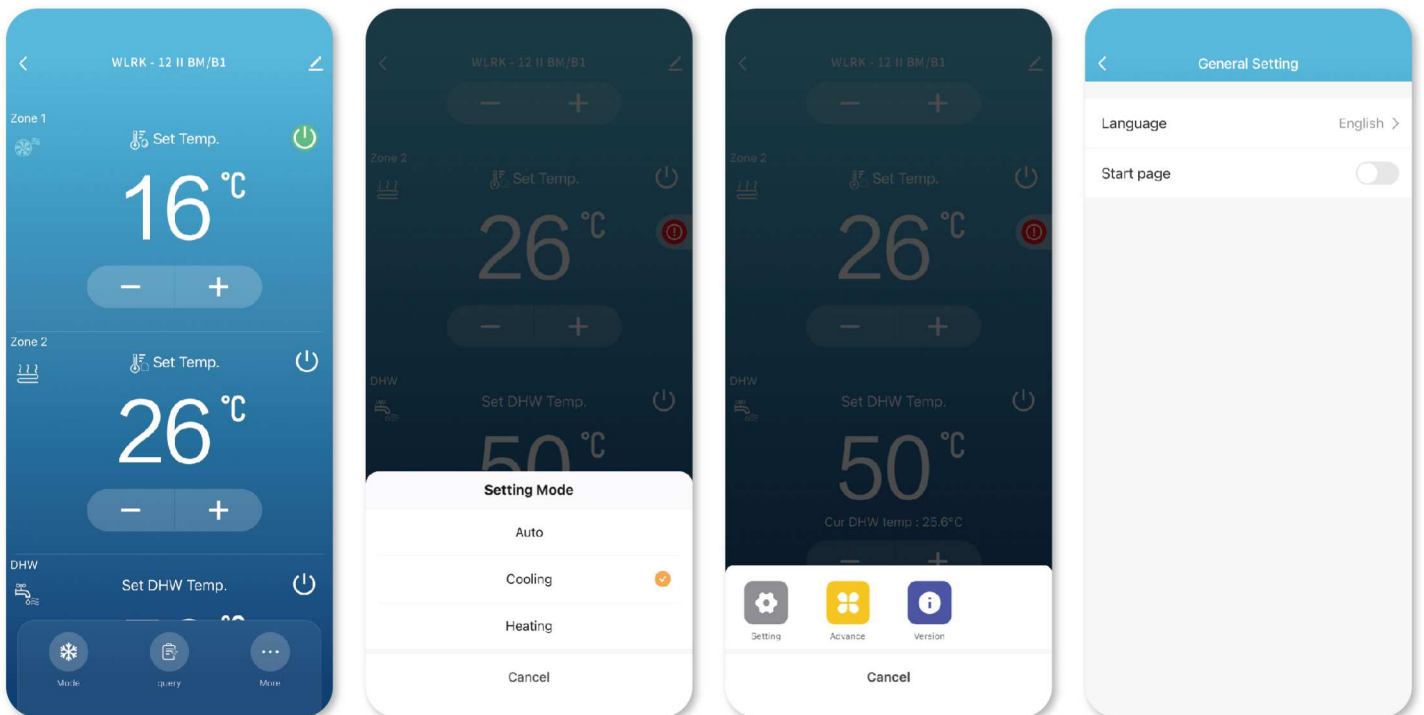
RS485

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.

With Wi-Fi APP enables you to operate the units through a smart phone wherever and whenever you are.

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.



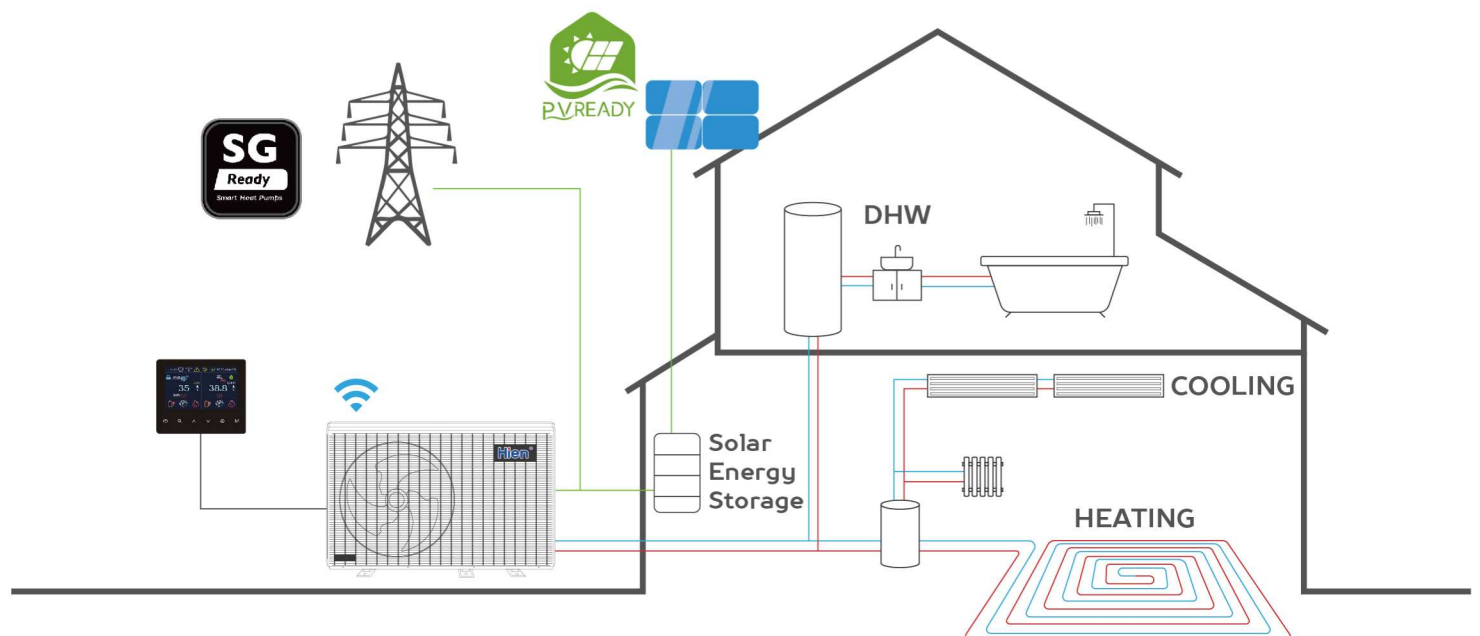
SUPER HIGH EFFICIENCY A+++

Can be operated in combination with:

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

Delivers the heat through a heating distribution system, such as radiators or underfloor heating or fan coils or air conditioner for reliable heating, cooling and domestic hot water through 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-saving.

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



STERILIZING MODE

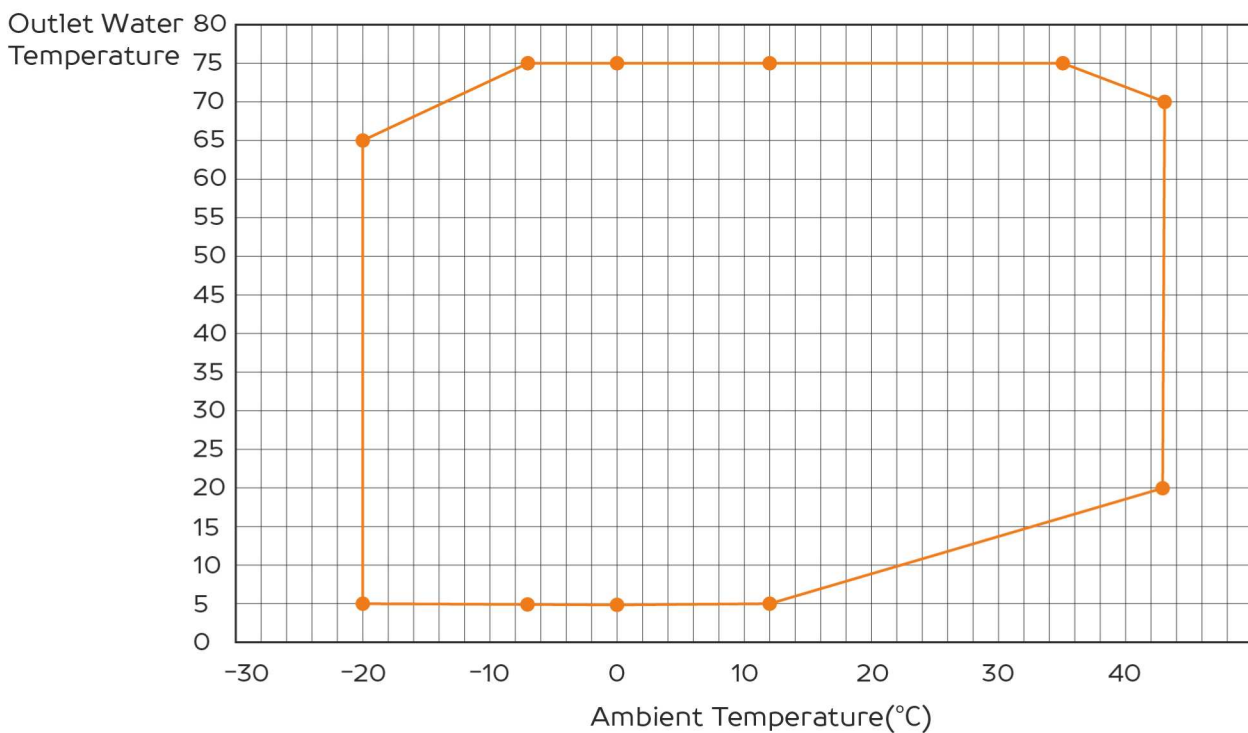
With the ability to reach temperatures as high as 75°C, this cutting - edge product guarantees the elimination of harmful Legionella bacteria and viruses, ensuring the highest level of water safet.

Invest in your health and your families with our state-of-the-art heat pump. Experience the unmatched convenience, energy efficiency, and superior performance this product offers.

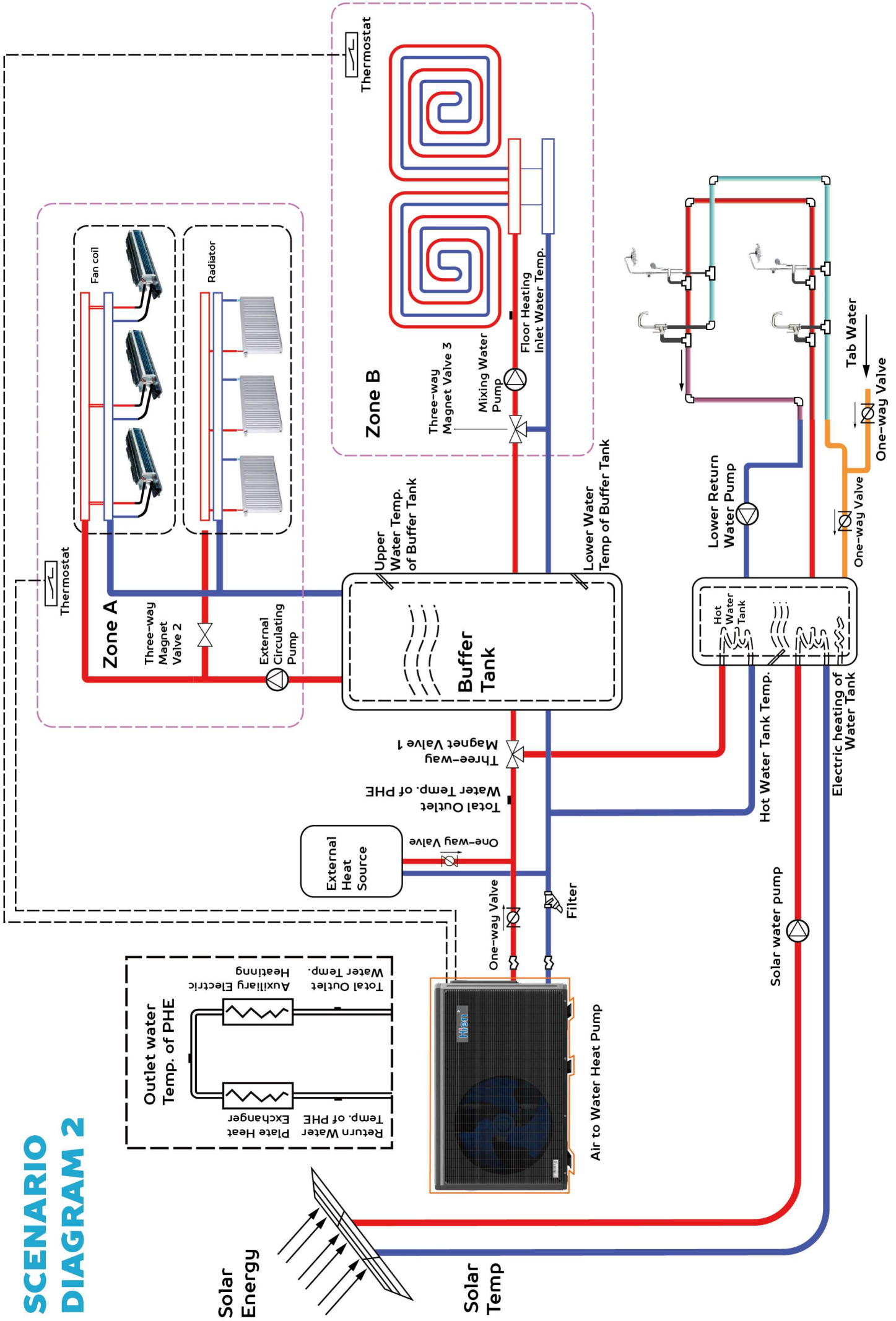
Don't compromise on safety and hygiene when it comes to your water supply. Choose our heat pump with its exceptional sterilizing mode, and enjoy the reassurance of pristine water quality every day.



HEATING WORKING RANGE



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 35°C DB / -, Indoor Water Tem.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 7°C / 6°C, Indoor Water Tem.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 7°C / 6°C, Indoor Water Tem.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 type	Double-rotor type	Double-rotor type	Double-rotor type	Double-rotor type	Double-rotor type	
	Brand	/	Highly Inverter	Highly Inverter	Highly Inverter	Highly Inverter	Highly Inverter	Highly Inverter	
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	-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	1270*555*808	1270*555*808	1440*570*1080	1440*570*1080	1440*570*1080	1440*570*1080	1440*570*1080	
WI-FI 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.



Hien®

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