

# Hien<sup>®</sup>

THE HONG KONG-ZHUHAI-MACAU BRIDGE  
ARTIFICIAL ISLAND HOT WATER PROVIDER

## COMMERCIAL AIR SOURCE WATER HEATERS

DC INVERTER

  
R32



R32



60°C

-15°C





A photograph of a dense forest with sunlight streaming through the green leaves, creating a dappled light effect. The text is overlaid on the bottom portion of the image.

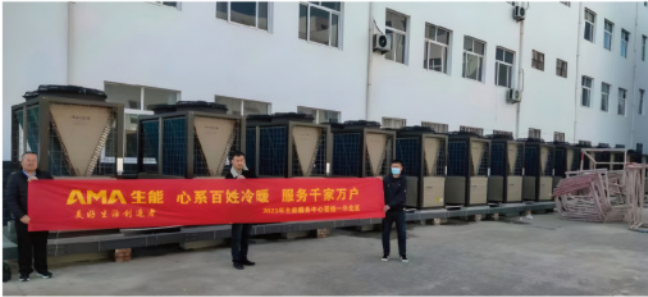
**THIS IS A MOMENT TO MOVE TOWARDS  
A GREEN AND SUSTAINABLE FUTURE**

**WE ARE FACING A GREEN WAVE LEADING  
THE GLOBAL INDUSTRIAL REVOLUTION**

**HIEN IS COMMITTED TO BUILDING A GREEN  
ENVIRONMENTALLY FRIENDLY, SAFE AND EFFICIENT LIFE**



# ENERGY TRANSITION PROJECTS

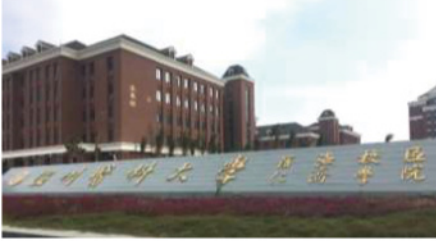




# PROJECTS

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

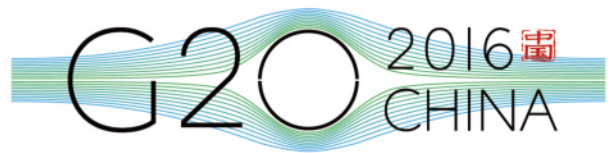
The 2011 Universiade in Shenzhen.



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.

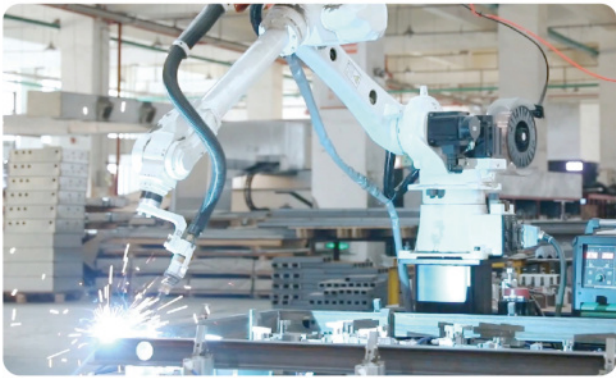


2023 the Asian Games in Hangzhou





# 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 60000 m<sup>2</sup> 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.



# TECHNICAL ADVANTAGES



Easier to recycle than R410A, as R32 is a single component refrigerant.



Higher Water Temperature Output Up to 60°C.



Full DC Inverter Heat Pump



With Disinfection Function



IOT Platform, Intelligent identification, positioning, tracking, and supervision.



Wi-Fi App Smart Controlled



Intelligent Constant Temperature



High - Quality Material



The machine can operate at a temperature of -15°C





Intelligent Defrosting









 WiFi DTU To deliver the best user experience, R32 Commercial heat pump series is designed with a DTU module for remote data transferring, and then you can easily monitor the running status of your heating system.

 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.

 Can intelligently determine whether to go into defrosting mode according to the operating condition, ambient temperature and frost thickness.

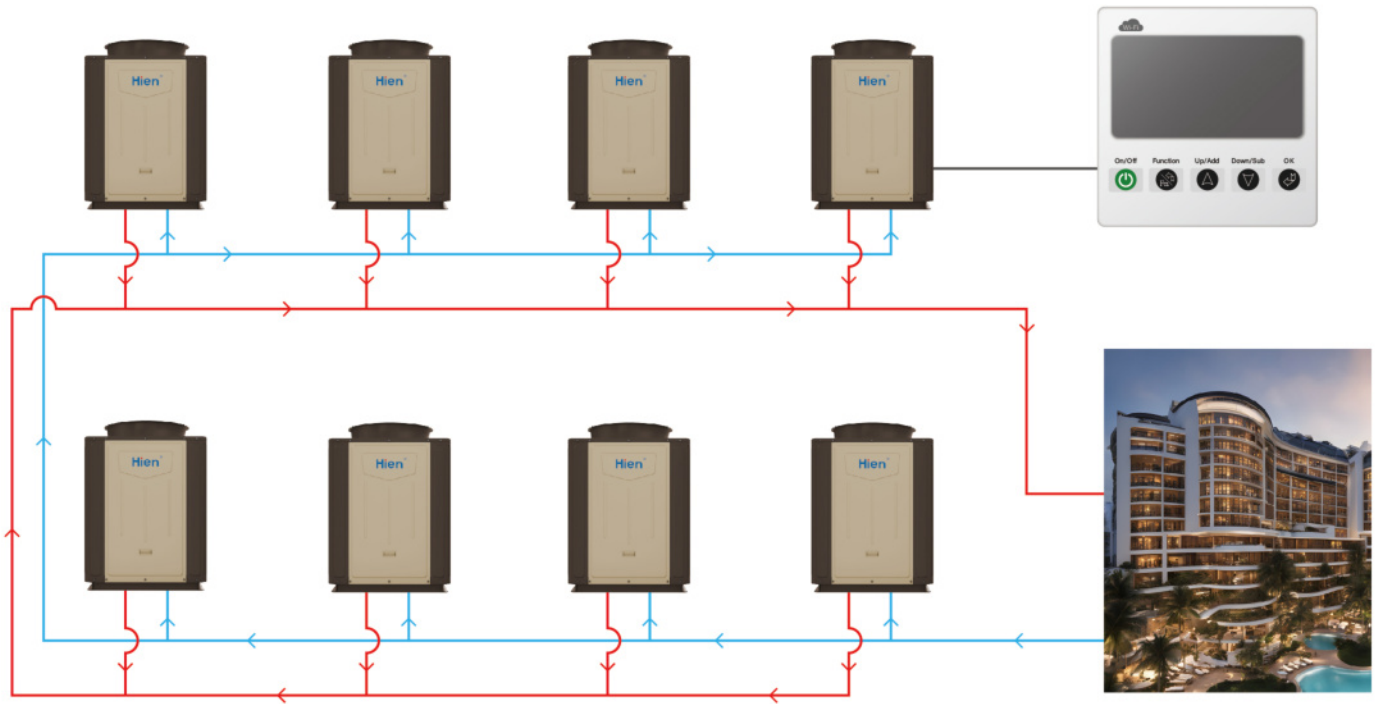
 Insulation and noise reduction treatment enhance efficiency and reduce noise levels.

 The large-size channel steel structure and galvanized steel with anti-corrosion coating are used for components in contact with the return air.

 High Efficiency: Adequate heat transfer area ensures the high COP and performance.



# CASCADE SYSTEM DIAGRAM



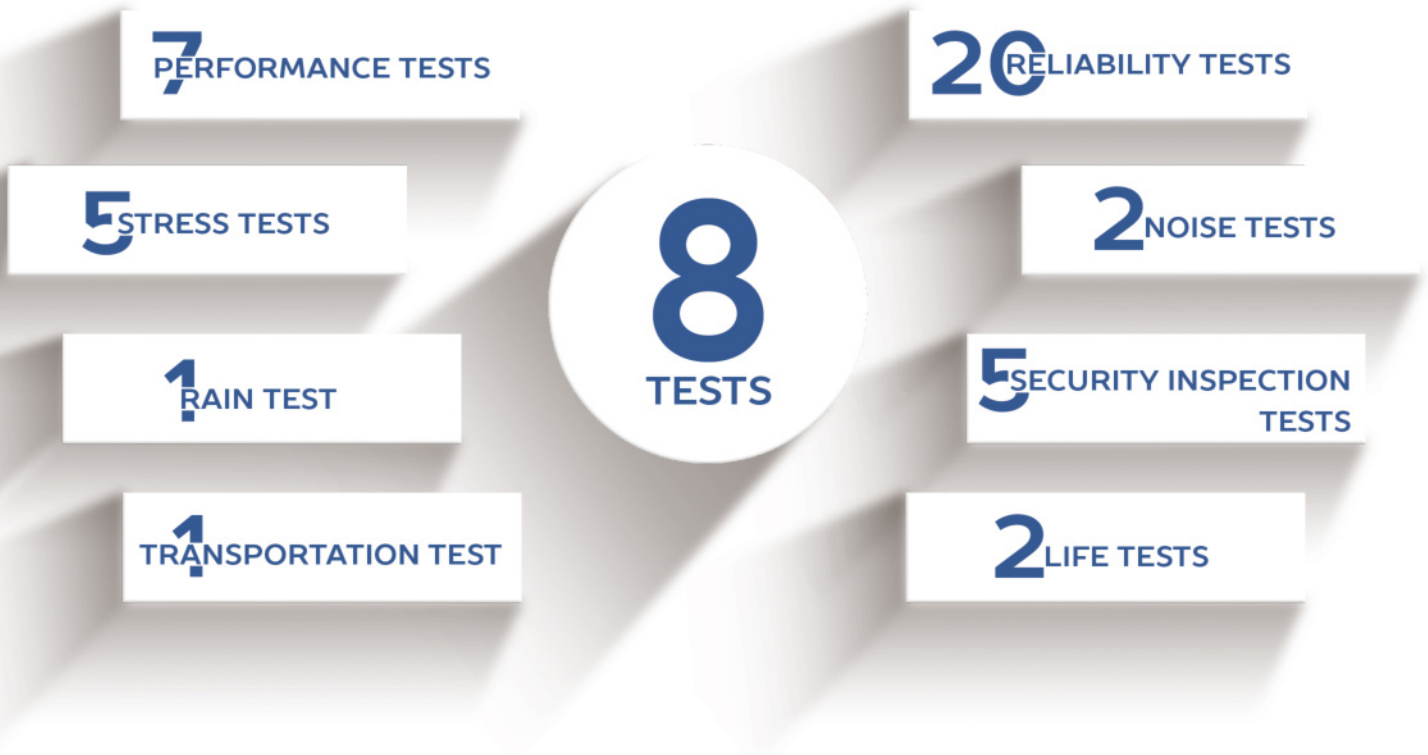
- Maximum of 8 units can be controlled with one touch screen.
- Connect 1 master to 7 slaves for networking.
- Can be operated independently or in group.
- Automatically control the start and stop of the machine based on water temperature.
- Multiple heat pumps can work together to improve the efficiency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





# QUALITY CONTROL

Each air source heat pump must pass 43 standard tests in 8 categories from the beginning of production to the finished product.



## ISO9000 Quality Definition

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### Quality:

The degree to which a set of inherent characteristics meets requirements.

### Requirements:

Includes implicit and specified needs, which in many cases may change over time.

### Quality Policy:

"Adopt advanced technology, adhere to continuous innovation, enhance customer satisfaction, and fulfill quality commitments."

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# SPECIFICATIONS



Product Name	Heat Pump Water Heater			
Model	WKFXRS-19 II BM/A2		WKFXRS-42 II BM/A2	
Operation Ambient Temp.	-15°C ~ 45°C			
Power supply	380V 3N ~ 50HZ			
Anti-electric Shock Rate	Class I			
Test Condition	Test Condition 1	Test Condition 2	Test Condition 1	Test Condition 2
Heating Capacity	20000W	17500W	42000W	32000W
Power input	4330W	4450W	8920W	8120W
COP	4.62	3.93	4.71	3.94
Working Current	7.5A	7.7A	16A	14.1A
Water Flow Volume	430L / h	330L / h	900L / h	600L / h
Annual Heating Performance Factor	4.28		4.07	
Max. Power Input / Max. Running current	6700W/11.5A		12500W/21A	
Max Outlet Water Temp.	60°C			
Water Circulation	3.0m <sup>3</sup> / h		5.5m <sup>3</sup> / h	
Water Pressure Drop	77kPa		80kPa	
Max Pressure On High Low Pressure Side	4.5MPa / 4.5MPa			
Allowable Discharge / Suction Pressure	4.5MPa / 1.5MPa			
Max. Pressure On Evaporator	4.5MPa			
Water Pipe Connection	DN32 / 1 ¼" internal thread		DN40 / 1 ½" internal thread	
Refrigerant / kg	R32 / 2.3kg		R32 / 3.4kg	
Dimensions (L x W x H)	800 x 800 x 1075 (mm)		1620 x 850 x 1200 (mm)	
Net Weight	119kg		220kg	

The nominal working condition 1 parameters of this technology are tested under working conditions: ambient dry bulb temperature 20°C, wet bulb temperature 15°C, initial water temperature 15°C, and end water temperature 55°C;

The nominal 2 working condition parameters were tested under the conditions of ambient dry bulb temperature of 7 ° C, wet bulb temperature of 6°C, initial water temperature of 9°C, and final water temperature of 55°C.

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



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