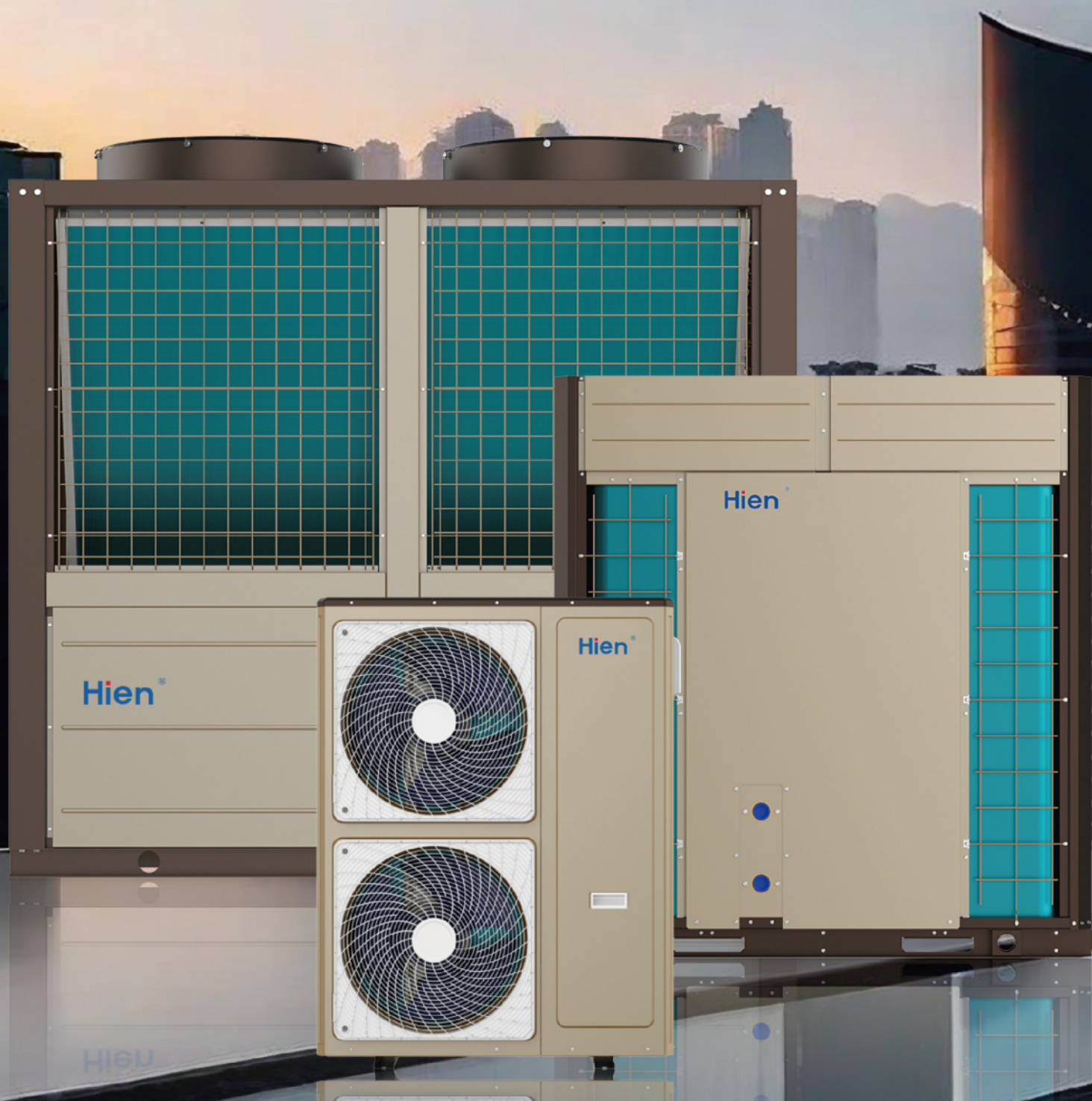


**Hien**<sup>®</sup>

# COMMERCIAL HEATING&COOLING **AIR SOURCE HEAT PUMP**

DC INVERTER





# ENERGY TRANSITION PROJECTS





# PROJECTS

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

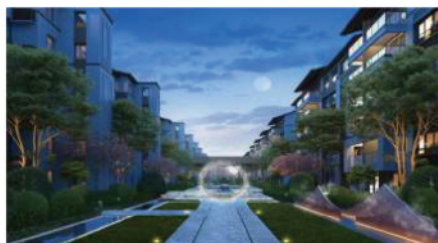
## SCHOOLS



## HOSPITALS



## RESIDENTIAL





# HIGHLIGHT



The 2008 Shanghai World Expo.



The 2013 Boao Summit for Asia in Hainan.



Universiade SHENZHEN 2011  
☆☆☆☆

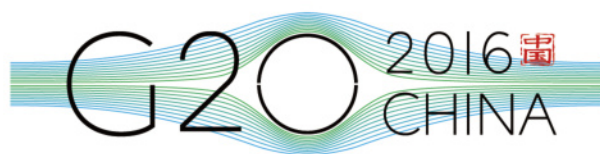
The 2011 Universiade in Shenzhen.



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





## 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 energy 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 ASHP in China, as well as the CANS certified state-level comprehensive laboratory.

## PRODUCTION LINE

With a total of 60,000 m<sup>2</sup> 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 hot water. As well as heat pump dryers for the production of tobacco, aroma wicks, medicinal herbs, tea, fruits, vegetables, and other products.



# THE VIGORLIFE SERIES



## **RUNNING AT LOW TEMPERATURE**

Operating in extreme cold conditions: Stable Running at  $-35^{\circ}\text{C}$  Ambient Temperature.



## **INTELLIGENT DEFROSTING**

Smart control shortens defrosting time, extends defrosting intervals, achieving energy-efficient and effective heating.



## **SMART CONTROL**

Easily manage your heat pump with Wi-Fi and app smart control, integrated with IoT platforms.



## **LONGEVITY IN OPERATION**

By reducing frequent start-ups and shutdowns, the lifespan of the equipment is extended.



## **LOW NOISE**

Multiple layers of noise-insulating cotton are internally installed in the unit to minimize noise to the greatest extent.



## **EFFICIENT OPERATION**

Brushless DC motor improves efficiency, reduces fan noise, adapts to different operating conditions, ensuring economically efficient operation.



## **VARIABLE FREQUENCY MOTOR**

The intelligent variable frequency system automatically adjusts the compressor speed to achieve precise temperature control, saving energy while reducing carbon emissions.



## **MULTIPLE PROTECTIVE MECHANISMS**

Equipped with multiple protective mechanisms for comprehensive protection of your safety and equipment, extending the equipment's lifespan.



## **SUPER HIGH EFFICIENCY**

Energy-saving and environmentally friendly: The energy efficiency of the heat pump is rated as first-class efficiency.





# SPECIFICATIONS



Model Name	/	DLRK-15 I BM/C1	DLRK-37 II BM/C1
Voltage	/	220V~50Hz	380V 3N~50Hz
Rated of Waterproof	/	Class I / IPX4	
Heating Conditions	/	Outdoor Air Temp. DB 7°C, Outlet Water Temp. : 45°C	
Rated Heating Capacity	kW	15	15
Heating Power Input	kW	4.63	10.70
COP	W/W	3.24	3.46
Heating Conditions	/	Outdoor Air Temp. DB -12°C, Outlet Water Temp. : 41°C	
Rated Heating Capacity	kW	10.5	25
Heating Power Input	kW	4.3	10
COP	W/W	2.44	2.5
Low temp.Heating Conditions	/	Outdoor Air Temp. DB -20°C, Outlet Water Temp. : 41°C	
Rated Heating Capacity	kW	9	20.8
Heating Power Input	kW	4.30	9.40
COP	W/W	2.09	2.21
IPLV (H)	W/W	3.21	3.27
Cooling Conditions	/	Outdoor Air Temp. DB 35°C, Outlet Water Temp. : 7°C	
Rated Cooling Capacity	kW	12	33
Cooling Power Input	kW	4.30	11.80
EER	W/W	2.79	2.80
IPLV (C)	W/W	4.10	4.02
Max. Input Power	kW	5	16.80
Max. Current	A	22	30
Rated Water Flow	m³/h	2.06	5.68
Water Pressure Drop	kPa	25	40
internal thread Pipe Diameter	/	DN25/1"Internal	DN32/1¼"Internal
Soud Pressure Level	dB(A)	≤60	≤66
Refrigerant Volume	/	R410A / 2.7kg	R410A / 6.3kg
Net size	mm	955*355*1250	1200*430*1550
Weight	kg	101	210



#### **RUNNING AT LOW TEMPERATURE**

Operating in extreme cold conditions: Stable Running at  $-35^{\circ}\text{C}$  Ambient Temperature.



#### **SMART CONTROL**

Easily manage your heat pump with Wi-Fi and app smart control, integrated with IoT platforms.



#### **INTELLIGENT DEFROSTING**

Smart control system to shorten defrosting time, extend defrosting intervals, and achieve energy-efficient heating.



#### **LOW NOISE**

Multiple layers of noise-insulating cotton are internally installed in the unit to minimize noise to the greatest extent.



#### **MULTIPLE PROTECTIVE MECHANISMS**

Equipped with multiple protective mechanisms for comprehensive protection of your safety and equipment, extending the equipment's lifespan.



#### **INTELLIGENT DEFROST**

Smart control shortens defrosting time, extends defrosting intervals, achieving energy-efficient and effective heating.



#### **VERSATILE FUNCTIONALITY**

The heat pump meets both heating and cooling requirements, offering a more comfortable cooling experience than traditional air conditioning.





# SPECIFICATIONS



Model Name	/	DLRK-55 II BM/A2	DLRK-88 II BM/A2	DLRK-45 II BM/C2	DLRK-150 II BM/C2
Voltage	/	380V 3N~50Hz			
Rated of Waterproof	/	Class I / IPX4			
Heating Conditions	/	Outdoor Air Temp. DB 7°C, Outlet Water Temp. : 45°C			
Rated Heating Capacity	kW	55	88	45	156
Heating Power Input	kW	/	/	12.4	45.10
COP	W/W	/	/	3.63	3.46
Heating Conditions	/	Outdoor Air Temp. DB -12°C, Outlet Water Temp. : 41°C			
Rated Heating Capacity	kW	38.5	58	30	106
Heating Power Input	kW	15.4	23	12	42.90
COP	W/W	2.50	2.52	2.50	2.47
Low temp.Heating Conditions	/	Outdoor Air Temp. DB -20°C, Outlet Water Temp. : 41°C			
Rated Heating Capacity	kW	31	48	25	89.50
Heating Power Input	kW	14	22	11.30	44.15
COP	W/W	2.21	2.18	2.21	2.03
IPLV (H)	W/W	3.20	3.20	3.34	3.22
Cooling Conditions	/	Outdoor Air Temp. DB 35°C, Outlet Water Temp. : 7°C			
Rated Cooling Capacity	kW	45	65	40	128
Cooling Power Input	kW	15.7	24	14.20	43.98
EER	W/W	2.87	2.71	2.82	2.91
IPLV (C)	W/W	4.50	4.12	4.20	4.15
Max. Input Power	kW	21.50	36.40	20.80	69.92
Max. Current	A	38.50	65	36	113
Rated Water Flow	m³/h	7.74	11.18	6.88	22.02
Water Pressure Drop	kPa	25	35	30	68
internal thread Pipe Diameter	/	DN50/2" Rc	DN50/2" Internal thread	DN40/1½"Internal	DN40/Flange
Soud Pressure Level	dB(A)	73	78	≤67	76
Refrigerant Volume	/	R32 /(4.5*2)kg	R32 /(6.5*2)kg	R410A / 8.2kg	R410A / (2.8*2)kg
Net size	mm	1675*860*1670	1755*900*1700	1500*800*1615	2200*1150*2285
Weight	kg	420	520	320	980



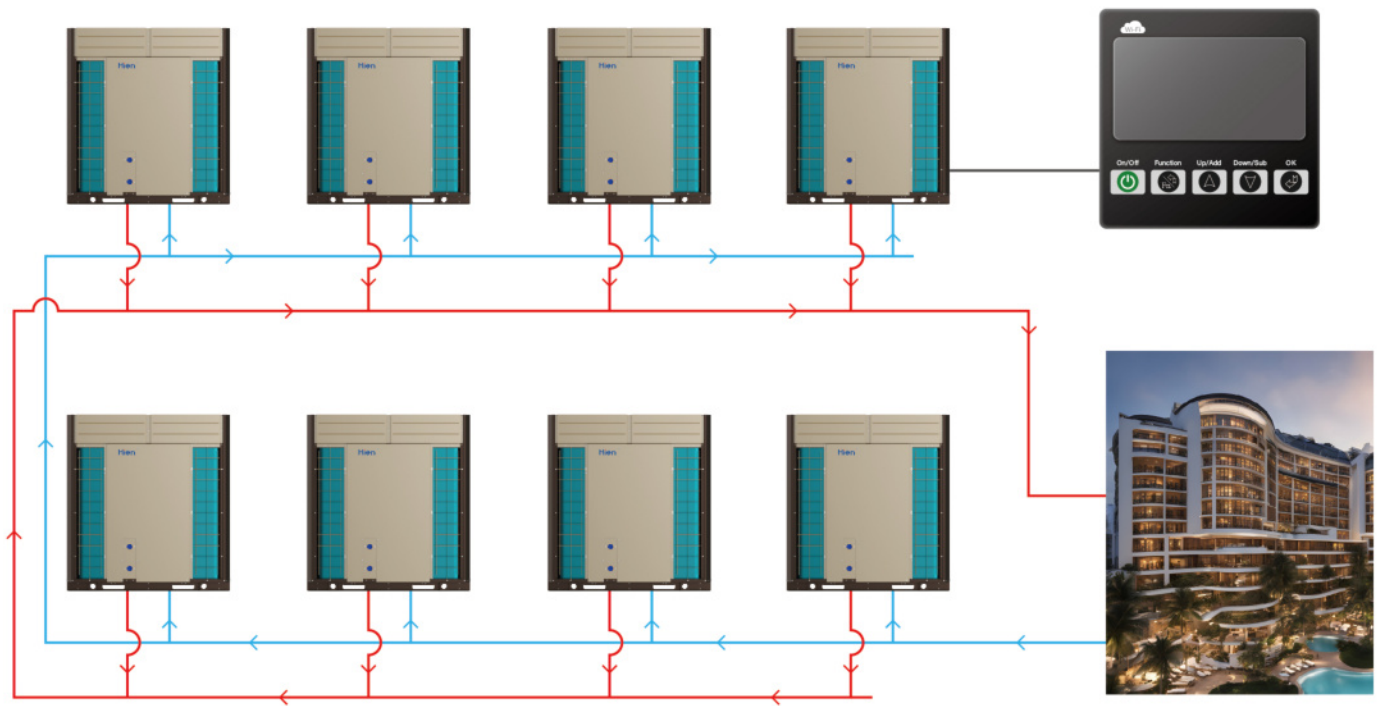
# SPECIFICATIONS



Model Name	/	DLRK-65 II /C4	DLRK-75 II /C2	DLRK-80 II /C4	DLRK-160 II /C6	DLRK-170 II /C2	DLRK-320 II /C4
Voltage	/	380V 3N~50Hz					
Rated of Waterproof	/	Class I / IPX4					
Heating Conditions	/	Outdoor Air Temp. DB 7°C, Outlet Water Temp. : 45°C					
Rated Heating Capacity	kW	70	79	20	154	170	310
Heating Power Input	kW	21.15	25.70	24.60	46.52	47	100
COP	W/W	3.31	3.07	3.25	3.31	3.62	3.10
Heating Conditions	/	Outdoor Air Temp. DB -12°C, Outlet Water Temp. : 41°C					
Rated Heating Capacity	kW	45.10	51.20	50.50	99.60	115	200
Heating Power Input	kW	17.48	21.80	19.40	41.15	43.50	86.50
COP	W/W	2.58	2.35	2.60	2.42	2.67	2.31
Low temp.Heating Conditions	/	Outdoor Air Temp. DB -20°C, Outlet Water Temp. : 41°C					
Rated Heating Capacity	kW	38	43	42	85	98.50	165
Heating Power Input	kW	17.27	21.30	19.10	40.86	43.10	82.50
COP	W/W	2.20	2.02	2.20	2.08	2.29	2
IPLV (H)	W/W	2.85	2.60	2.89	2.85	3.22	2.72
Cooling Conditions	/	Outdoor Air Temp. DB 35°C, Outlet Water Temp. : 7°C					
Rated Cooling Capacity	kW	51.50	68	55	130	150	235
Cooling Power Input	kW	18.90	24	19.10	47.80	44	90
EER	W/W	2.72	2.83	2.88	2.72	3.41	2.61
IPLV (C)	W/W	3.05	3.10	3.05	3	3.69	2.90
Max. Input Power	kW	30	39.20	34	70	70	140
Max. Current	A	52	65	68	120	120	250
Rated Water Flow	m³/h	12.04	11.7	9.46	22.36	25.80	53.32
Water Pressure Drop	kPa	40	30	40	60	60	80
internal thread Pipe Diameter	/	DN50/Flange	DN50/2 Thread	DN50/Flange	DN80/Flange	DN80/Flange	DN100/Flange
Soud Pressure Level	dB(A)	≤74	≤75	≤74	≤78	≤70	≤83
Refrigerant Volume	/	R410A (6.3x 2)kg	R410A 16.3kg	R410A (8x 2)kg	R410A (14.5 x 2)kg	R410A (14.5 x 2)kg	R410A (16 x 4)kg
Net size	mm	2000*1050*2020	1050*1150*2380	2150*1050*2080	2400*1150*2315	2400*1150*2315	3000*2200*2350
Weight	kg	700	540	780	1100	1100	2800



# 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.





# Hien<sup>®</sup>

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