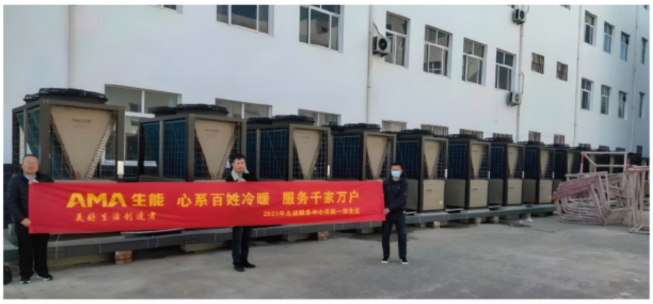
Hien®

DC INVERTER AIR SOURCE HEAT PUMP

RESIDENTIAL HEATING & COOLING

The VigorLife Series

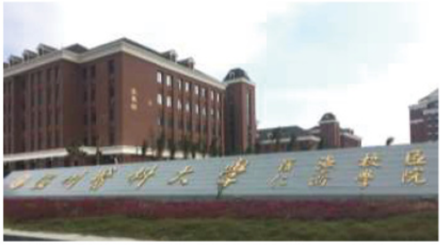
ENERGY TRANSITION PROJECTS



PROJECTS

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

SCHOOLS






HOSPITALS






RESIDENTIAL






HIGHTLIGHT

The 2008 Shanghai World Expo.

The 2013 Boao Summit for Asia in Hainan.

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 & Paralynpic 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 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 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

DUAL FUNCTIONALITY: Heating and Cooling capabilities.

HEATING CAPACITY: 16–45 kW.

ADVANCED COMPRESSION TECHNOLOGY: DC inverter rotary EVI compressor.

SMART CONTROLS: Wi-Fi enabled with app for convenient remote control.

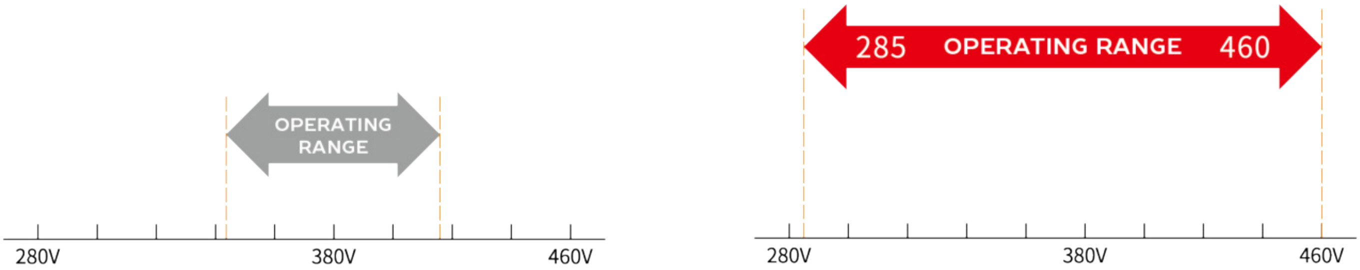
QUIET OPERATION: Designed for low noise levels.

SMART DEFROST TECHNOLOGY: Frost-free operation.

ECO-FRIENDLY: Uses R32 Refrigerant.

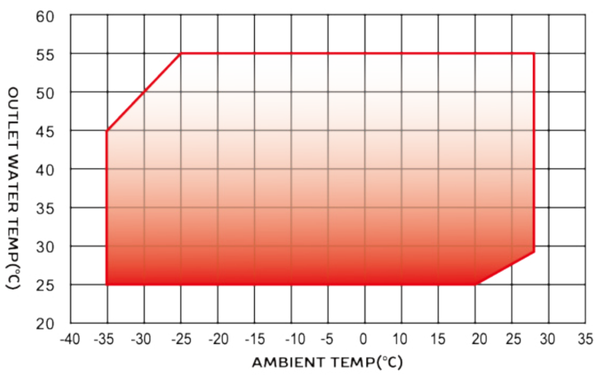
WIDE VOLTAGE OPERATING RANGE

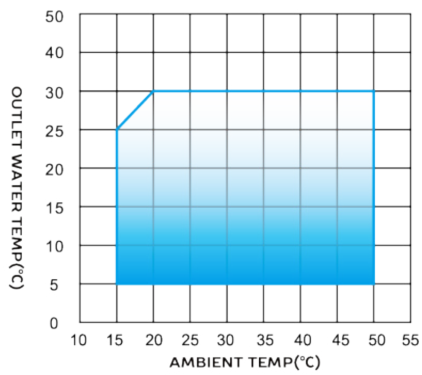
Hien Air Source Heat Pumps operate stably within 285–460V,
designed to ensure normal use even in regions with significant voltage fluctuations.



EXTENDED AMBIENT OPERATING RANGE

Wider Ambient Temperature Operating Range: Heating -35°C to 28°C; Cooling 15°C to 50°C. Maximum heating water outlet temperature: 55°C. Minimum cooling water outlet temperature: 5°C.



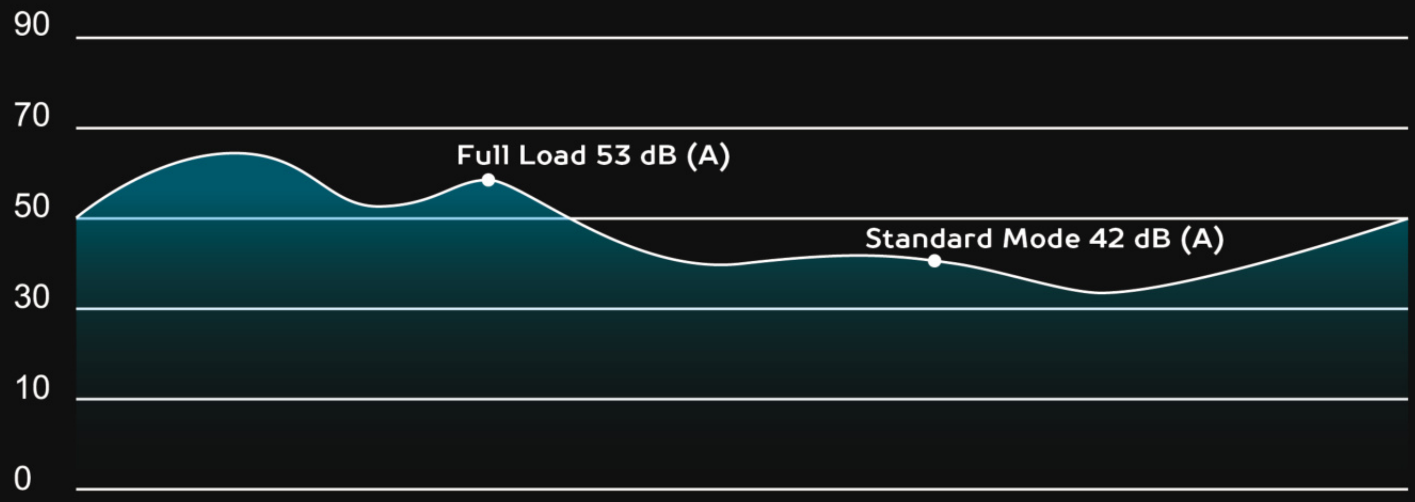


8-LEVEL ANTI-FREEZE PROTECTION ALL-ROUND SAFEGUARD

28-LEVEL NOISE REDUCTION

Full-frequency noise as low as 53 dB

42 dB during normal operation, whisper-quiet



INNOVATION · PRECISION · EFFICIENCY

BIONIC DESIGN · PERFORMANCE UPGRADE

Bionic air duct design ensures smooth airflow with no turbulence and higher efficiency. Large skewed fan blades deliver stronger airflow with reduced noise.

BIONIC FAN GRILLE

LARGE SKEWED FAN BLADES

CORE COMPONENTS · PRECISION CONTROL

Equipped with rare-earth permanent magnet DC inverter EVI compressor and DC brushless motor. Full frequency conversion coupling with 0.01 Hz precision for smooth, efficient control.

DC INVERTER EVI COMPRESSOR

DC BRUSHLESS MOTOR

OVERSIZED HEAT DISSIPATION · EVI ALGORITHM CONTROL

Oversized heat exchanger boosts efficiency.
Patented EVI algorithm with multi-component linkage adapts to load changes, ensuring ultra-low noise and superior performance.

HEAT EXCHANGER

ELECTRONIC EXPANSION VALVE

SPECIFICATIONS





Name		DLRK-16 II BA/A1	DLRK-18 II BA/A1	DLRK-20 II BA/A1	DLRK-22 II BA/A1	DLRK-25 II BA/A1
Power Supply		380V 3N~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz
Anti-Electric Shock Rate		Class I	Class I	Class I	Class I	Class I
Ingress Protection Rating		IPX4	IPX4	IPX4	IPX4	IPX4
Condition 1	Rated Heating Capacity	6200W~16500W	8100W~18500W	8300W~20500W	8800W~22500W	12000W~25000W
Unit Type		Floor Heating Type（Outlet Water Temp.35℃）				
Condition 2	Rated Heating Capacity	12200W	14000W	15300W	16200W	18800W
	Rated Heating Power Input	4080W	5000W	5460W	5780W	6550W
	Heating COP	2.99	2.80	2.80	2.80	2.87
Condition 4	Low Temp. Heating Capacity	10000W	11400W	12500W	13400W	15800W
	Low Ambient Heating Power Input	3890W	4650W	5100W	5470W	6300W
	Low Ambient COP	2.57	2.45	2.45	2.45	2.51
HSPF		4.10	3.80	3.80	3.80	4.00
Unit Type		Fan Coil Unit Type（Outlet Water Temp.41℃）				
Condition 2	Rated Heating Capacity	12200W	14000W	15300W	16200W	18800W
	Rated Heating Power Input	4480W	5380W	5880W	6350W	7200W
	Heating COP	2.72	2.60	2.60	2.55	2.61
Condition 4	Low Temp. Heating Capacity	10000W	11400W	12500W	13400W	15800W
	Low Ambient Heating Power Input	4280W	5060W	5550W	5950W	6950W
	Low Ambient COP	2.34	2.25	2.25	2.25	2.27
HSPF		3.55	3.40	3.40	3.40	3.50
APF		3.60	3.45	3.45	3.45	3.55
	Unit Type	Radiator Type（Outlet Water Temp.50℃）				
Condition 2	Rated Heating Capacity	12200W	14000W	15300W	16200W	18800W
	Rated Heating Power Input	5140W	6360W	6950W	7360W	8300W
	Heating COP	2.37	2.20	2.20	2.20	2.27
Condition 4	Low Temp. Heating Capacity	10000W	11400W	12500W	13400W	15800W
	Low Ambient Heating Power Input	4850W	5700W	6250W	6700W	8000W
	Low Ambient COP	2.06	2.00	2.00	2.00	1.98
HSPF		2.95	2.80	2.80	2.80	2.85
Rated Water Flow		2.15m^3/h	2.58m^3/h	3.03m^3/h	3.27m^3/h	3.78m^3/h
Condition 3	Rated Cooling Capacity	12500W	15000W	17600W	19000W	22000W
	Power Input	4170W	5000W	6060W	6230W	7100W
	EER	3.00	3.00	2.90	3.05	3.10
CSPF		4.60	4.60	4.85	4.80	5.02
Max Power Input		6600W	7400W	8200W	9000W	10000W
Max Running Current		13A	14A	16A	17A	19A
Water Pressure Drop		20kpa	42kpa	22kpa	20kpa	30kpa
Max Pressure on High/Low Pressure Side		4.3/4.3Mpa	4.3/4.3Mpa	4.3/4.3Mpa	4.3/4.3Mpa	4.3/4.3Mpa
Allowable Discharge/Sucion Pressure		4.3/1.2Mpa	4.3/1.2Mpa	4.3/1.2Mpa	4.3/1.2Mpa	4.3/1.2Mpa
Max Pressure on Evaporator		4.3Mpa	4.3Mpa	4.3Mpa	4.3Mpa	4.3Mpa
Water Pipe Connection		DN25/1" Female Thread	DN25/1" Female Thread	DN25/1" Female Thread	DN32/1¼ " Female Thread	DN32/1¼ " Female Thread
Noise		53dB(A)	52dB(A)	54dB(A)	56dB(A)	58dB(A)
Refrigerant/Charge		R32/2.5kg	R32/2.7kg	R32/3.0kg	R32/3.4kg	R32/3.6kg
Dimension (LxWxH)		1000x410x1355(mm)	1000x410x1355(mm)	1000x410x1355(mm)	1000x410x1355(mm)	1100x440x1520(mm)
Net Weight		109kg	111kg	119kg	123kg	153kg

Condition 1： Outdoor Air Temp.: DB 7°C / WB 6°C， Outlet Water Temp. 45℃.
Condition 2： Outdoor Air Temp.: DB -12°C / WB -13.5°C.
Condition 3： Outdoor Air Temp.: DB 35°C / -， Outlet Water Temp. 7℃.
Condition 4： Outdoor Air Temp.: DB -20°C / -.

SPECIFICATIONS

Name		DLRK-28 II BA/A1	DLRK-31 II BA/A1	DLRK-33 II BA/A1	DLRK-38IIBA/A1	DLRK-45 II BA/A1
Power Supply		380V 3N~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz	380V 3N~ 50Hz
Anti-Electric Shock Rate		Class I	Class I	Class I	Class I	Class I
Ingress Protection Rating		IPX4	IPX4	IPX4	IPX4	IPX4
Condition 1	Rated Heating Capacity	12500W~28000W	13000W~31000W	13500W~33000W	15000W~38000W	17200W~45000W
Unit Type		Floor Heating Type（Outlet Water Temp.35℃）				
Condition 2	Rated Heating Capacity	21000W	23000W	24600W	28200W	33000W
	Rated Heating Power Input	7500W	7900W	8800W	9700W	11500W
	Heating COP	2.80	2.91	2.80	2.91	2.87
Condition 4	Low Temp. Heating Capacity	17800W	19200W	20600W	23500W	27700W
	Low Ambient Heating Power Input	7250W	7600W	8400W	9300W	10950W
	Low Ambient COP	2.46	2.53	2.45	2.53	2.53
HSPF		3.90	3.90	3.80	3.80	3.85
Unit Type		Fan Coil Unit Type（Outlet Water Temp.41℃）				
Condition 2	Rated Heating Capacity	21000W	23000W	24600W	28200W	33000W
	Rated Heating Power Input	8250W	8700W	9600W	10700W	12530W
	Heating COP	2.55	2.64	2.56	2.64	2.63
Condition 4	Low Temp. Heating Capacity	17800W	19200W	20600W	23500W	27700W
	Low Ambient Heating Power Input	8000W	8300W	9100W	10200W	11930W
	Low Ambient COP	2.23	2.31	2.26	2.30	2.32
HSPF		3.40	3.50	3.40	3.40	3.45
APF		3.45	3.55	3.45	3.45	3.50
	Unit Type	Radiator Type（Outlet Water Temp.50℃）				
Condition 2	Rated Heating Capacity	21000W	23000W	24600W	28200W	33000W
	Rated Heating Power Input	9500W	9900W	11000W	12100W	14270W
	Heating COP	2.21	2.32	2.24	2.33	2.31
Condition 4	Low Temp. Heating Capacity	17800W	19200W	20600W	23500W	27700W
	Low Ambient Heating Power Input	9200W	9400W	10400W	11400W	13520W
	Low Ambient COP	1.93	2.04	1.98	2.06	2.05
HSPF		2.80	2.95	2.85	2.85	2.90
Rated Water Flow		4.13m³/h	4.47m³/h	4.82m³/h	5.33m³/h	6.36m³/h
Condition 3	Rated Cooling Capacity	24000W	26000W	28000W	31000W	37000W
	Power Input	8200W	8600W	10000W	11000W	12750W
	EER	2.93	3.02	2.80	2.82	2.90
CSPF		4.92	4.65	4.50	4.52	4.70
Max Power Input		11200W	12500W	13500W	15800W	18700W
Max Running Current		21.5A	24A	26A	30A	32A
Water Pressure Drop		35kpa	30kpa	35kpa	35kpa	36kpa
Max Pressure on High/Low Pressure Side		4.3/4.3Mpa	4.3/4.3Mpa	4.3/4.3Mpa	4.3/4.3Mpa	4.3/4.3Mpa
Allowable Discharge/Sucion Pressure		4.3/1.2Mpa	4.3/1.2Mpa	4.3/1.2Mpa	4.3/1.2Mpa	4.3/1.2Mpa
Max Pressure on Evaporator		4.3Mpa	4.3Mpa	4.3Mpa	4.3Mpa	4.3Mpa
Water Pipe Connection		DN32/1¼ " Female Thread	DN32/1¼ " Female Thread	DN32/1¼ " Female Thread	DN32/1¼ " Female Thread	DN32/1¼ " Female Thread
Noise		58.5dB(A)	59dB(A)	59.5dB(A)	60dB(A)	60.5dB(A)
Refrigerant/Charge		R32/3.6kg	R32/4.0kg	R32/4.0kg	R32/4.8kg	R32/6.5kg
Dimension (LxWxH)		1100x440x1520(mm)	1100x440x1520(mm)	1100x440x1520(mm)	1200x430x1550(mm)	1540x570x2100(mm)
Net Weight		153kg	162kg	162kg	182kg	307kg

Condition 1: Outdoor Air Temp.: DB 7°C / WB 6°C， Outlet Water Temp. 45℃.
Condition 2: Outdoor Air Temp.: DB -12°C / WB -13.5°C.
Condition 3: Outdoor Air Temp.: DB 35°C / -， Outlet Water Temp. 7℃.
Condition 4: Outdoor Air Temp.: DB -20°C / -.

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