



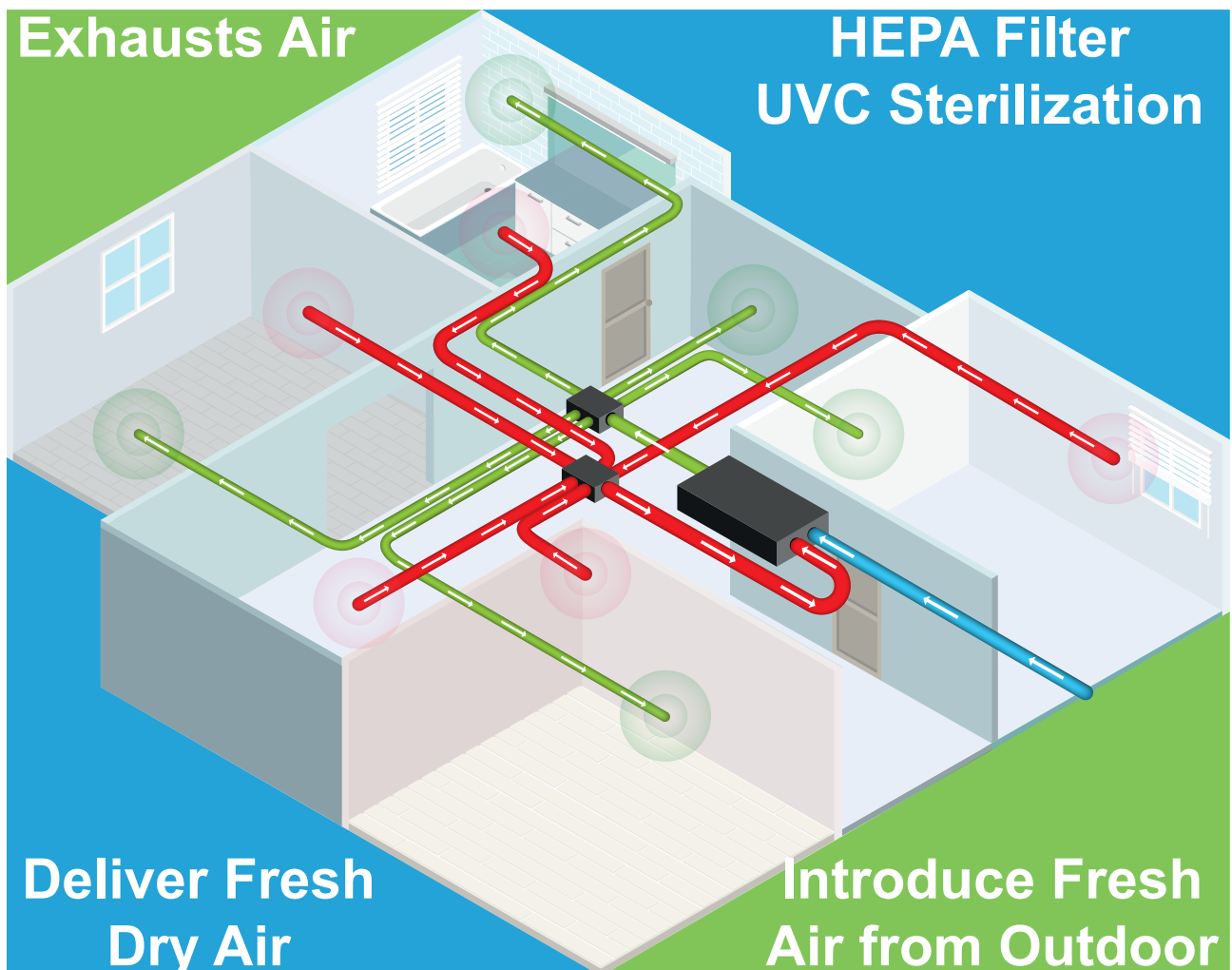
Ceiling Mounted Dehumidifier



▼ Introduction

Debiasia Green Technology (HK) Co., Ltd. (DBA) has been developing and distributing environmental control equipments for over a decade, providing high-quality, reliable, and efficient industrial / commercial dehumidifiers for various industries. DBA offers both traditional compressional and desiccant dehumidifiers, with highly effective dehumidification performance, ensuring faster and more precision control of indoor humidity levels. The products are designed to be durable and robust, capable of continuous operation for extended periods.

As a Hong Kong-based company, we understand the high expectations of customers for commercial products. All dba products have obtained RoHS and CE certifications and have passed the ISO9001 quality management systems.



Commercial Ceiling Dehumidifier



Powerful Performance Commercial Application BMS Intergration

▼ Commercial Ceiling Dehumidifier

DBA commercial ceiling dehumidifiers effectively control indoor humidity, reducing the impact of dampness and moisture on commercial spaces and goods. They are suitable for a wide range of commercial applications, including offices, malls, medical facilities, laboratories, warehouses, and more.

These dehumidifiers operate by drawing humid air from the surrounding environment into the unit. The evaporator surface is cooled below the dew point temperature using the compressor refrigeration system. As the air cools, the moisture in the air condenses into water droplets on the surface of the cooling coils. The dry air is then reheated by the condenser and discharged outside the unit.

▼ Features

Japan Imported Motor Bearings

The motor is equipped with Japanese imported NNB/NSK bearings, ensuring reliability and durability.



Automatic Humidity Control

Display current temperature and humidity, humidity adjustable range of 20% to 90%RH. When preset humidity level is reached, dehumidification automatically pause.



Scheduled Power ON and OFF

It can turn on and off at specific times each day. For example, it can be programmed to power on at a specific time during the day and power off at a designated time in the evening.



RS485 Communication Control

The unit is equipped with a control screen to display the dehumidifier's operating status. It is also equipped with an RS485 function. Optional WiFi app remote control available.



UVC Sterilization Lamp

With built-in UVC sterilization lamp, it can effectively kill bacteria in the air, ensuring the health of the users.



Auto Pump Drainage

Built-in drainage pump that automatically pumps water to a higher level. Pump lift up to 1.2 meters. It automatically shuts down in case of water overflow fault.



Auto Fault Diagnostic

Automatic detection of faults and display of error codes on the control screen. In case of a fault, the machine automatically pauses its operation.






Dry Contact

Dry contact allows the machine to connect with third-party sensors for shutting down the machine.



▼ Specification

Commercial Ceiling Dehumidifier			
			
Model	DBA-GEC68LD-HP	DBA-GEC145LD-HP	DBA-GEC280LD-HP
Dehumidifying Capacity (30°C 80%RH)	68L/D	145L/D	280L/D
Dehumidifying Capacity (26.7°C 60%RH)	33L/D	85L/D	132L/D
Cover Area (sqft)	800-1000	1500-1700	2500-3000
Air Flow (m ³ /h)	500	1200	2580
External Static Pressure (Pa)	100	100	80
Noise (dB)	49	50	58
Nominal/Max Power (W)	730 / 940	1520 / 2220	2580 / 3510
Nominal/Max Current (A)	3.4 / 4.6	7.1 / 11.3	5.8 / 7.2
Voltage (V)	220-240V 50Hz	220-240V 50Hz	380V 3N ~50Hz
Pump Lift (m)	1.2	1.2	N/A
Max Suction/Discharge Pressure (MPa)	2.5/4.5	2.5/4.5	2.5/4.5
Air Out/Inlet Flange (mm)	∅146 / ∅146	∅196 / ∅196x2	内530x290/内670x390
Refrigerant (kg)	R410A/0.4	R410A/1.2	R410A/1.9
Operating Temperature (°C)	5-40	5-40	5-40
Weight (kg)	44	70	140
Dimensions (LxWxH mm)	970 × 525 × 345	1005 × 695 × 440	1137 × 900 × 540

*Specifications are subject to change without prior notice.

▼ Specification

Commercial Ceiling Dehumidifier		
Model	DBA-GEC400LD	DBA-GEC550LD
Dehumidifying Capacity (30°C 80%RH)	400L/D	550L/D
Dehumidifying Capacity (26.7°C 60%RH)	240L/D	276L/D
Cover Area (sqft)	4000	4000-5000
Air Flow (m ³ /h)	3250	3250
External Static Pressure (Pa)	80	80
Noise (dB)	62	65
Nominal/Max Power (W)	4600 / 6620	4800 / 6880
Nominal/Max Current (A)	10.2 / 13.5	11.2 / 14.2
Voltage (V)	380V 3N ~50Hz	380V 3N ~50Hz
Pump Lift (m)	N/A	N/A
Max Suction/Discharge Pressure (MPa)	2.5/4.5	2.5/4.5
Air Out/Inlet Flange (mm)	内985x230/内965x430	内985x230/内965x430
Refrigerant (kg)	R410A/1.9 x 2	R410A/1.9 x 2
Operating Temperature (°C)	5-40	5-40
Weight (kg)	210	240
Dimensions (LxWxH mm)	1270 x 1200 x 605	1270 x 1200 x 605

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Ultra Thin Ceiling Dehumidifier

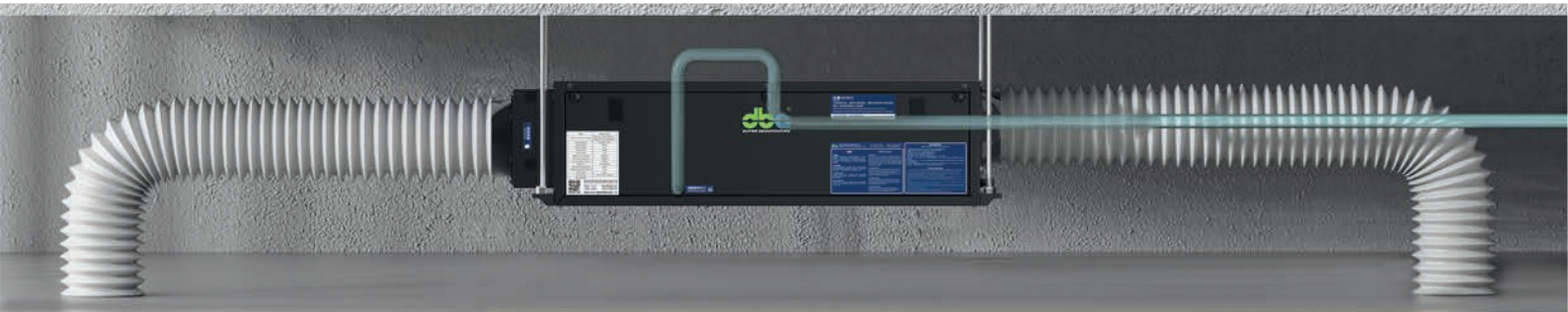


Ceiling Concealed Installation Quiet Operation Only 20cm High

▼ Ultra Thin Ceiling Dehumidifier

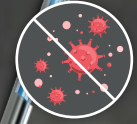
DBA ultra thin ceiling dehumidifiers effectively control indoor humidity, reducing the impact of dampness and moisture on commercial spaces and goods. They are suitable for a wide range of commercial applications, including offices, malls, medical facilities, laboratories, warehouses, and more.

These dehumidifiers operate by drawing humid air from the surrounding environment into the unit. The evaporator surface is cooled below the dew point temperature using the compressor refrigeration system. As the air cools, the moisture in the air condenses into water droplets on the surface of the cooling coils. The dry air is then reheated by the condenser and discharged outside the unit.



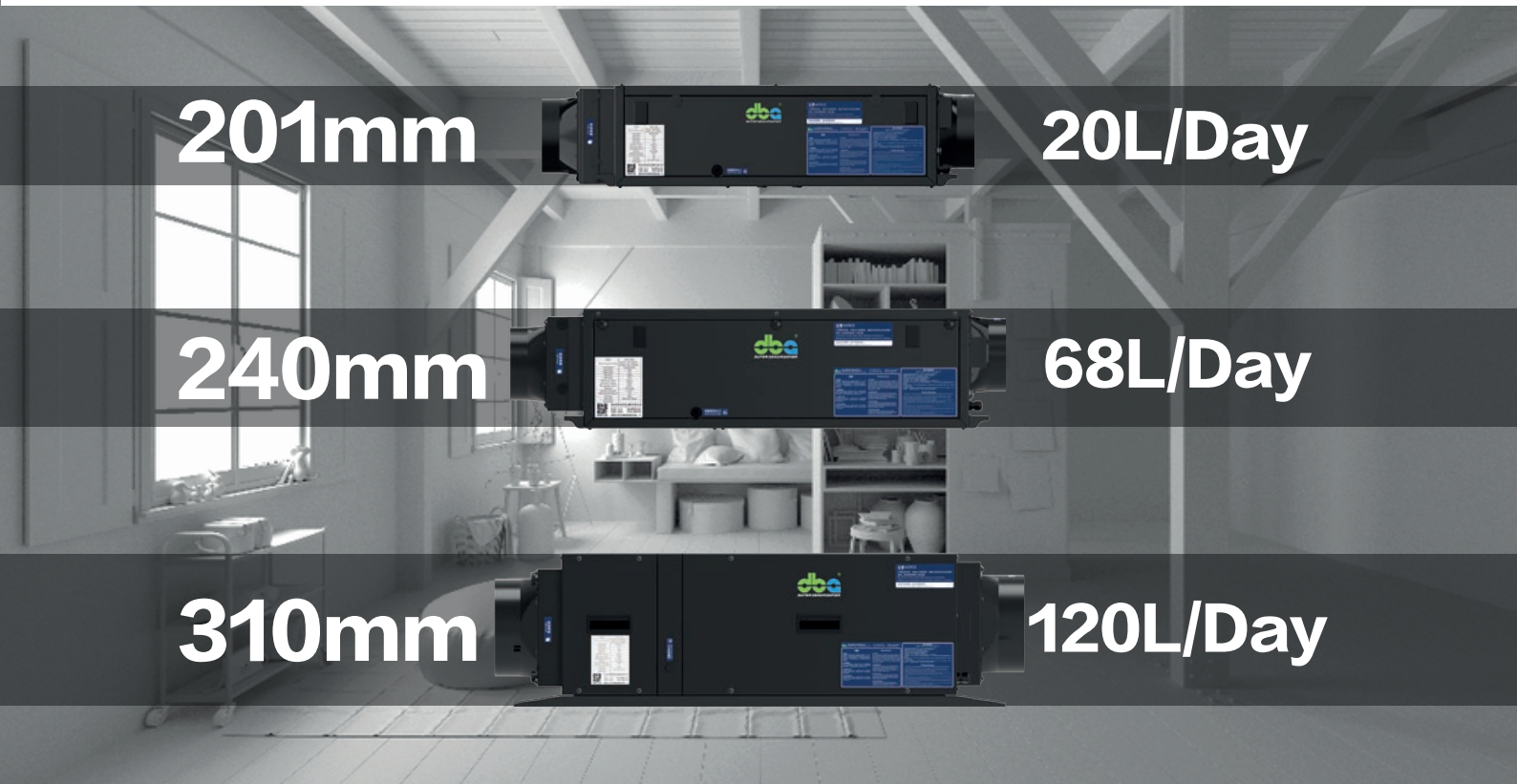

Humid Air

UV-C
Sterilization




Dry Air

- Powerful Performance
- Quiet Operation
- Space Saving
- UVC Sterilization
- Intelligent Control
- Auto Pump Drainage
- WiFi App Remote Control
- RS485 Communication



201mm



20L/Day

240mm



68L/Day

310mm



120L/Day

▼ Ultra Thin Ceiling Dehumidifier



▼ Features

Ultra Thin Ceiling Concealed

The dehumidifier features a slim and minimalist design, allowing it to be discreetly concealed in a false ceiling. With a body thickness of only 20 centimeters.



Automatic Humidity Control

Display current temperature and humidity, humidity adjustable range of 20% to 90%RH. When preset humidity level is reached, dehumidification automatically pause.



Scheduled Power ON and OFF

It can turn on and off at specific times each day. For example, it can be programmed to power on at a specific time during the day and power off at a designated time in the evening.



Quiet Operation

The motor uses high quality bearing, ensuring reliability, durability, low noise, and the ability to continuously deliver fresh dry air for extended periods without interruption.



UVC Sterilization Lamp

With built-in UVC sterilization lamp, it can effectively kills bacteria in the air, ensuring the health of the users.



WiFi App Remote Control

The unit is equipped with a control screen to display the dehumidifier's operating status. It is also equipped with WiFi app remote control. Optional RS485 function available.



Auto Fault Diagnostic

Automatic detection of faults and display of error codes on the control screen. In case of a fault, the machine automatically pauses its operation.



Auto Pump Drainage

Built-in drainage pump that automatically pumps water to a higher level. Pump lift up to 1.2 meters. It automatically shuts down in case of water overflow fault.



Japan Imported Motor Bearings

The motor is equipped with Japanese imported NNB/NSK bearings, ensuring reliability and durability.



Anti-Corrosion Treatment

The condenser and evaporator undergo chrome plating treatment, effectively enhancing the product's corrosion resistance and thereby prolong its lifespan.






Dry Contact

Dry contact allows the machine to connect with third-party sensors for shutting down the machine.



▼ Specification

Ultra Thin Ceiling Dehumidifier			
	 Grade 1 Energy Label		
Model	DBA-UTC20	DBA-UTC68	DBA-UTC120
Dehumidifying Capacity (30°C 80%RH)	20L/D	68L/D	120L/D
Dehumidifying Capacity (26.7°C 60%RH)	9.9L/D	37L/D	53L/D
Cover Area (sqft)	200–400	800–1000	1300–1500
Air Flow (m ³ /h)	220	500	890
External Static Pressure (Pa)	80	120	120
Noise (dB)	44	48	50
Nominal/Max Power (W)	196 / 300	975 / 1360	1010 / 1600
Nominal/Max Current (A)	1.0 / 1.35	4.5 / 7.0	4.7 / 7.4
Voltage (V)	220–240V ~50Hz	220–240V ~50Hz	220–240V ~50Hz
Pump Lift (m)	1.2	1.2	1.2
Max Suction/Discharge Pressure (MPa)	1.0/2.5	2.5/4.5	2.5/4.5
Air Out/Inlet Flange (mm)	Ø146 / Ø146	Ø146 / Ø146	Ø196 / Ø196x2
Refrigerant (kg)	R134A/0.23	R410A/0.55	R410A/0.9
Operating Temperature (°C)	5–40	5–40	5–40
Weight (kg)	28	44	64
Dimensions (LxWxH mm)	865 × 376 × 201	1000 × 500 × 240	1075 × 746 × 310

*Specifications are subject to change without prior notice.

Fresh Air Ceiling Dehumidifier



Fresh Air Supply – Constant Humidity/Oxygen/Purification

▼ Fresh Air Ceiling Dehumidifier

Fresh air dehumidifier takes outdoor fresh air, purifies it and dehumidifies it before delivering it into the space. The machine consists of a fresh air damper, a return air damper, a three-in-one composite high-efficiency filter, a five-in-one air sensor, a refrigeration system, and a supply fan motor.

The machine offers four modes: Return air mode, Fresh air mode, auto mode, and mixed air mode, catering to different requirements for fresh air supply and humidity throughout the year. The return air mode is used when quick dehumidification is needed. The fresh air mode is used when fresh air is needed indoors. The auto mode operates based on indoor air quality and humidity requirement. The mixed air circulation mode is used when both fresh air and dehumidification are needed indoors.

▼ Features

Ultra Thin Ceiling Concealed

The dehumidifier features a slim and minimalist design, allowing it to be discreetly concealed in a false ceiling. With a body thickness of only 20 centimeters.



Automatic Humidity Control

Display current temperature and humidity, humidity adjustable range of 20% to 90%RH. When preset humidity level is reached, dehumidification automatically pause.



Scheduled Power ON and OFF

It can turn on and off at specific times each day. For example, it can be programmed to power on at a specific time during the day and power off at a designated time in the evening.



UVC Sterilization Lamp

With built-in UVC sterilization lamp, it can effectively kills bacteria in the air, ensuring the health of the users.



5-in-1 Air Detection

Detect PM2.5, carbon dioxide, formaldehyde, and temperature/humidity levels. When any of these parameters exceed the safety range, it will automatically introduce fresh air.



HEPA Air Filter

The HEPA filter purifies the outdoor fresh air and indoor return air while dehumidifying, it ensuring the health and well-being of the users.



Four Modes for Different Needs

Auto mode, return air mode, fresh air mode, mixed air mode. Suitable for different seasonal requirements for fresh air and dehumidification.



Auto Pump Drainage

Built-in drainage pump that automatically pumps water to a higher level. Pump lift up to 1.2 meters. It automatically shuts down in case of water overflow fault.



Modular Design

The machine's modular design, allowing for easy access for maintenance and repair work, by simply removing the relevant components from the side panel of the machine.



WiFi App Remote Control

The unit is equipped with a control screen to display the dehumidifier's operating status. It is also equipped with WiFi app remote control. Optional RS485 function available.



Auto Fault Diagnostic

Automatic detection of faults and display of error codes on the control screen. In case of a fault, the machine automatically pauses its operation.



Imported Brushless DC Motor

Imported brushless EC motor, operates with low noise, high static pressure, and high efficiency. It is durable and can effectively provide fresh and dry air for the entire home.



Anti-Corrosion Treatment

The condenser and evaporator undergo chrome plating treatment, effectively enhancing the product's corrosion resistance and thereby prolong its lifespan.







Heat Recovery Model Available

The heat exchanger facilitates temperature and humidity exchange between indoor and outdoor air, achieving high heat recovery efficiency, saves on AC electricity costs.







▼ Specification

Fresh Air Ceiling Dehumidifier				
				
Model	DBA-GEC30V	DBA-GEC50V	DBA-GEC70V	DBA-GEC110V
Dehumidifying Capacity (30°C 80%RH)	30L/D	50L/D	70L/D	110L/D
Dehumidifying Capacity (26.7°C 60%RH)	10.8L/D	26.4L/D	33.6L/D	52.8L/D
Cover Area (sqft)	200-400	400-600	600-800	800-1200
Air Circulation (m ³ /h)	350	450	500	900
Fresh Air Flow (m ³ /h)	0-175	0-225	0-250	0-450
Static Pressure (Pa)	120	120	120	120
Single-pass Efficiency	95%	95%	95%	95%
Noise (dB)	38/50	42/50	45/50	45/50
Nominal/Max Power (W)	380 / 480	520 / 780	920 / 1160	1020 / 1415
Nominal/Max Current (A)	2.2 / 2.6	3.0 / 4.0	4.4 / 5.5	4.8 / 6.5
Voltage (V)	220-240V 50Hz	220-240V 50Hz	220-240V 50Hz	220-240V 50Hz
Pump Lift (m)	1.2	1.2	1.2	1.2
Max Suction/Discharge Pressure (MPa)	1.0/2.5	2.5/4.5	2.5/4.5	2.5/4.5
Air Out/Inlet Flange (mm)	∅146 / ∅146x2	∅146 / ∅146x2	∅146 / ∅146x2	∅196 / ∅196x2
Refrigerant (kg)	R134a/0.26	R410A/0.4	R410A/0.55	R410A/0.9
Operating Temperature (°C)	5-40	5-40	5-40	5-40
Weight (kg)	39	52	60	71
Dimensions (LxWxH mm)	992 × 526 × 245	1004 × 560 × 255	1032 × 626 × 265	1200 × 795 × 284

*Specifications are subject to change without prior notice.

▼ Specification

	Fresh Air Ceiling Dehumidifier with Heat Recovery(Two-Way Ventilation)		Fresh Air Ceiling Dehumidifier with Heat Recovery(Two-Way Ventilation & Internal circulation)	
				
Model	DBA-GEC50VR	DBA-GEC90VR	DBA-GEC50VRX	DBA-GEC90VRX
Dehumidifying Capacity (30°C 80%RH)	50L/D	90L/D	50L/D	90L/D
Dehumidifying Capacity (26.7°C 60%RH)	33.6L/D	40.8L/D	33.6L/D	40.8L/D
Cover Area (sqft)	400-600	800-1000	400-600	800-1000
Air Circulation (m ³ /h)	280 / 450	380 / 580	280 / 450	380 / 580
Static Pressure (Pa)	120	120	120	120
Single-pass Efficiency	90%	90%	90%	90%
Noise (dB)	38/50	43/52	38/50	43/52
Temperature Exchange Efficiency(Heating/Cooling)	67% / 63%	67% / 63%	67% / 63%	67% / 63%
Enthalpy Exchange Efficiency(Heating/Cooling)	58% / 55%	58% / 55%	58% / 55%	58% / 55%
Nominal/Max Power (W)	700 / 1270	950 / 1430	750 / 1320	1050 / 1480
Nominal/Max Current (A)	3.5 / 6.3	4.85 / 6.9	5.6 / 6.5	6.0 / 7.1
Voltage (V)	220-240V 50Hz	220-240V 50Hz	220-240V 50Hz	220-240V 50Hz
Pump Lift (m)	1.2	1.2	1.2	1.2
Max Suction/Discharge Pressure (MPa)	2.5 / 4.5	2.5 / 4.5	2.5 / 4.5	2.5 / 4.5
Air Out/Inlet Flange (mm)	Ø146x2 / Ø146x2	Ø196x2 / Ø196x2	Ø146x2 / Ø146x2	Ø196x2 / Ø196x2
Refrigerant (kg)	R410A/0.4	R410A/0.55	R410A/0.4	R410A/0.55
Operating Temperature (°C)	5-40	5-40	5-40	5-40
Weight (kg)	100	108	105	113
Dimensions (LxWxH mm)	1321×731×294	1427×816×296	1525×774×298	1548×841×296

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RoHS CE ISO9001 Quality Management System

Environmental Control Solution Expert