



Commercial Dehumidifier

About Us

▼ 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.



Improve Air Quality



Improve Indoor Comfort Levels



Prevent Mildew Growth



Reduce Musty Odor



Improve Condensation Problem



Portable Dehumidifier



Commercial Application Easy Maneuverability

▼ Portable Dehumidifier

DBA commercial portable 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

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.



Use in Various Environments

With high-quality components and exquisite craftsmanship, it can perform effortlessly in any environment. The operating temperature range is 5 to 40° C.



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. It automatically shuts down in case of water overflow fault.



▼ Specification

Portable Dehumidifier			
Model	DBA-DH65	DBA-GEM75LD	DBA-GE138LD-HP
Dehumidifying Capacity(30°C 80%RH)	65L/D	75L/D	138L/D
Cover Area (sqft)	700-1000	700-1000	1000-1500
Power (W)	960	1050	1550
Current (A)	4.5	4.6	5.3
Voltage (V)	220-240V ~50Hz	220-240V ~50Hz	220-240V ~50Hz
Pump Lift (m)	N/A	4.5	10
Refrigerant (kg)	R410A / 0.29	R290 / 0.29	R410A / 0.8
Operating Temperature (°C)	5-40	5-40	5-40
Weight (kg)	21	37.5	61.5
Dimensions (L x W x H mm)	400 x 275 x 630	510 x 485 x 810	480 x 435 x 950

*Specifications are subject to change without prior notice.

Commercial Dehumidifier



Powerful Performance Intelligent control BMS Intergration

▼ Commercial Dehumidifier

DBA commercial portable dehumidifiers effectively control indoor humidity, reducing the impact of dampness and moisture on commercial and goods. They are suitable for a wide range of commercial applications, including offices, malls, medical facilities, laboratories, warehouses, and more. Anti-corrosion model is available.

The dehumidifiers operate by drawing humid air from the surrounding environment into the unit. The evaporator surface is cooled below the dew point temperature through the compressor refrigeration system. As the air cools, its moisture content in the air condenses into water droplets on the surface of the cooling coils. The dry air is then heated 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.



Use in Various Environments

With high-quality components and exquisite craftsmanship, it can perform effortlessly in any environment. The operating temperature range is 5 to 40° C.



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.



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.



Auto Pump Drainage

Built-in drainage pump that automatically pumps water to a higher level. Pump lift up to 10 meters. It automatically shuts down in case of water overflow fault.



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 communication port.



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 Dehumidifier		
		
Model	DBA-GE160LD-HP	DBA-GE280LD-HP
Dehumidifying Capacity(30°C 80%RH)	160L/D	280L/D
Dehumidifying Capacity(26.7°C 60%RH)	90L/D	144L/D
Cover Area (sqft)	1500-2300	3000-3800
Nominal Power (W)	1600	3400
Max Power (W)	2650	4100
Nominal Current (A)	7.6	6.5
Max Current (A)	12.5	8
Voltage (V)	220-240V ~ 50Hz	380V 3N ~50Hz
Pump Lift (m)	10	10
Refrigerant (kg)	R410A / 1.1	R410A / 1.7
Operating Temperature (°C)	5-40	5-40
Weight (kg)	65	160
Dimensions (L x W x H mm)	600 x 400 x 1085	955 x 506 x 1790

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▼ Specification

Commercial Dehumidifier		
		
Model	DBA-GE400LD-HP	DBA-GE550LD-HP
Dehumidifying Capacity(30°C 80%RH)	400L/D	550L/D
Dehumidifying Capacity(26.7°C 60%RH)	228L/D	276L/D
Cover Area (sqft)	4000-4500	5000-6000
Nominal Power (W)	4780	5450
Max Power (W)	7800	8300
Nominal Current (A)	10	11.8
Max Current (A)	13.5	17
Voltage (V)	380V 3N ~50Hz	380V 3N ~50Hz
Pump Lift (m)	10	10
Refrigerant (kg)	R410A / 1.45x2	R410A / 1.65x2
Operating Temperature (°C)	5-40	5-40
Weight (kg)	210	240
Dimensions (L x W x H mm)	1410 × 510 × 1760	1410 × 510 × 1760

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Humidity Control Unit



High Precision Humidity Control Air Disinfection & Purification

▼ Humidity Control Unit – Dehumidify / Humidify

DBA Precision Humidity Control Unit regulates indoor humidity through both humidification and dehumidification, ensuring that the indoor humidity stays at the set value. The humidifier also filters and purifies indoor air, thereby improving air quality.

DBA Precision Humidity Control Unit is widely used in places such as museums, laboratories, art galleries, and data centres that require professional humidity control. Certain equipment and materials are highly sensitive to specific humidity levels, the precision humidifier can control humidity to prevent equipment damage or material corrosion. For example, in hospital operating rooms, the unit ensures that surgical instruments and materials are maintained at the appropriate humidity level, thus reducing the risk of infection.

▼ Humidity Control Unit is widely used in data centres

Providing Stable Humidity Conditions: Data center equipment is highly sensitive to humidity. The humidity control unit ensures that the equipment operates without being affected by external environmental changes.

Prolonging the Lifespan of Equipment: The humidity control unit reduces the risk of wear and corrosion, improving equipment reliability and minimizing maintenance and downtime.

Protecting Data Security: Excessive humidity can lead to data damage or malfunctions. The humidity control unit ensures the stability of the data center environment, thereby safeguarding the stored data.

▼ Features

Japan Imported Motor Bearings

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



Use in Various Environments

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Auto Pump Drainage

Built-in drainage pump that automatically pumps water to a higher level. Pump lift up to 10 meters. It automatically shuts down in case of water overflow fault.



LCD Touchscreen Control

With a 7-inch LCD color screen, humidity data is clear at a glance. Touch screen design allows for easy and quick operation.



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.



Silver Ion G4 Air Filter

The silver ion G4 filter purifies the air while dehumidifying/humidifying, it ensuring the health and well-being of the users.



UVC Sterilization Lamp

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






Redundancy and Fault-Tolerant

Microcomputer control, with redundancy and fault-tolerant design, modular functionality that can be developed and expanded according to customer requirements





▼ Specification

Humidity Control Unit			
			
Model	DBA-HC68	DBA-HC145	DBA-HC280
Dehumidifying Capacity(30°C 80%RH)	68L/D	145L/D	280L/D
Max Mist Output (kg/hr)	3	5	10
Cover Area (sqft)	800-1000	1500-1800	3000-3800
Humidifying Nominal Power (W)	300	430	1350
Dehumidifying Nominal Power (W)	680	1600	2450
Max Power (W)	950	2750	4000
Humidifying Nominal Current (A)	1.5	2	6.3
Dehumidifying Nominal Current (A)	3.2	7.4	6
Max Current (A)	4.4	12.7	8.5
Voltage (V)	220-240V ~ 50Hz	220-240V ~ 50Hz	380V 3N ~ 50Hz
Pump Lift (m)	10	10	10
Refrigerant (kg)	R410A / 0.5	R410A / 1.2	R410A/1.8
Operating Temperature (°C)	5-40	5-40	5-40
Weight (kg)	135	148	290
Dimensions (L x W x H mm)	800×500×1640	800×500×1850	1200×600×2200

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▼ Specification

Humidity Control Unit		
		
Model	DBA-HC400	DBA-HC550
Dehumidifying Capacity(30°C 80%RH)	400L/D	550L/D
Max Mist Output (kg/hr)	15	20
Cover Area (sqft)	4000-4500	4000-5000
Humidifying Nominal Power (W)	1450	1530
Dehumidifying Nominal Power (W)	4500	6500
Max Power (W)	6500	8500
Humidifying Nominal Current (A)	8.2	9.3
Dehumidifying Nominal Current (A)	8	13.6
Max Current (A)	11.6	16.6
Voltage (V)	380V 3N ~50Hz	380V 3N ~50Hz
Pump Lift (m)	10	10
Refrigerant (kg)	R410A/1.45X2	R410A/1.8X2
Operating Temperature (°C)	5-40	5-40
Weight (kg)	360	380
Dimensions (L x W x H mm)	1200×600 x 2200	1400×750 x 2200

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Desiccant Dehumidifier



Anti-Corrosion Quiet Operation Suitable for -20 to 40° C

▼ Desiccant dehumidifiers

The DBA desiccant dehumidifier utilizes imported Proflute silicon gel and a rotary desiccant wheel from Sweden as its core components, offering advantages such as a larger moisture absorption area, low flow resistance, and high dehumidification efficiency. Suitable for cold rooms, clean rooms, chemical, pharmaceutical, and manufacturing industries.

The wheel is divided into a process zone and a reactivation zone on both sides, separated by highly sealed partitions. When moist air enters the process zone, the wheel adsorbs the water vapor from it. The dehumidified dry air is then discharged through a fan. The saturated portion of the wheel is rotated to the reactivation zone, where the absorbed moisture is released when the reactivation air is heated and released. This completes the moisture transfer process.

▼ Features

LCD Touchscreen Control

With a 7-inch LCD color screen, humidity data is clear at a glance. Touch screen design allows for easy and quick operation.



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.



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.



Swedish Imported Proflute

Swedish imported Proflute silicone gel and rotary desiccant wheel. It provides premium large volume desiccant dryers with lower energy costs.



▼ Specification

Desiccant Dehumidifier		
Model	DBA-DD210	DBA-DD550
Process Air (m ³ /hr)	350	550
Reactivation Air (m ³ /hr)	35	180
Dehumidifying Capacity (kg/hr)	1	2.5
Cover Area (sqft)	100-200	200-400
Nominal Power (W)	935	3700
Nominal Current (A)	4.3	17
Voltage (V)	220-240V ~ 50Hz	220-240V ~ 50Hz
Operating Temperature (°C)	-20 ~ 40	-20 ~ 40
Weight (kg)	20	52
Dimensions (L x W x H mm)	491 x 430 x 345	802 x 615 x 567

*Specifications are subject to change without prior notice.

▼ Specification

Desiccant Dehumidifier		
		
Model	DBA-DD850	DBA-DD1200
Process Air (m ³ /hr)	850	1200
Reactivation Air (m ³ /hr)	340	400
Dehumidifying Capacity (kg/hr)	7.5	8
Cover Area (sqft)	500-1000	1000-1500
Nominal Power (W)	9770	13000
Nominal Current (A)	20	26
Voltage (V)	380V 3N ~50Hz	380V 3N ~50Hz
Operating Temperature (°C)	-20 ~ 40	-20 ~ 40
Weight (kg)	120	140
Dimensions (L x W x H mm)	750 x 750 x 1700	800 x 800 x 1630

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RoHS CE ISO9001 Quality Management System

Environmental Control Solution Expert