

Commercial Dehumidifier

INDUSTRIAL DEHUMIDIFIER
HUMIDITY CONTROL UNIT
DESICCANT DEHUMIDIFIER

Product Catalog





About Us.



Introduction

DBA ELECTRIC PTE. LTD. offers a comprehensive range of humidity and ventilation solutions. As a full-service company, we develop, manufacture, and supply humidity control equipment. Our dehumidifiers comply with international certifications and standards, ensuring reliability and safety, ideal for both commercial and industrial applications.

Our Products

DBA manufactures full range of humidity control equipments.

1. **Restoration Dehumidifier (Portable)**
2. **Industrial Dehumidifier**
3. **Ceiling Mounted Dehumidifier**
4. **Wall Mounted Dehumidifier**
5. **Desiccant Dehumidifier**
6. **Humidity Control Unit (Dehumidifying and Humidifying)**
7. **Climate Control Unit (Dehumidifying, Humidifying, Cooling and Heating)**



Commercial Dehumidifier

DBA commercial dehumidifier removes excess moisture from the air in larger spaces, such as warehouses, offices, and industrial facilities. These units are essential for maintaining optimal humidity levels, preventing mold growth, and protecting equipment and materials from moisture damage.

Commercial dehumidifiers come in various types, each tailored to specific humidity control needs:

1. **Industrial Dehumidifiers:** Ideal for warehouses, factories, and large spaces, efficiently handle significant moisture removal.
2. **Desiccant Dehumidifiers:** Best suited for low-temperature and low-humidity environments.
3. **Humidity Control Units:** Designed for precision humidity control, these units offer both dehumidifying and humidifying functions.

- **Mold and Mildew Prevention**
- **Improve Air Quality**
- **High precision humidity control**
- **Powerful Performance**
- **Reliable and Robust**
- **Energy Saving**



GE SERIES

INDUSTRIAL DEHUMIDIFIER 280 - 550 L / DAY

DBA-GE280LD-HP



Dehumidification: **280 Liters / Day**
Cover Area: **3000 Sqft**
Weight: **160kg**
Dimension: **L820xW465xH1775mm**



DBA-GE400LD-HP



Dehumidification: **400 Liters / Day**
Cover Area: **4000 Sqft**
Weight: **230kg**
Dimension: **L1200xW540xH1740mm**



DBA-GE550LD-HP



Dehumidification: **550 Liters / Day**
Cover Area: **5000 Sqft**
Weight: **240kg**
Dimension: **L1200xW540xH1740mm**





DBA-GE280LD-HP



DBA-GE400LD-HP DBA-GE550LD-HP





Technical Data

Parameters	DBA-GE280LD-HP	DBA-GE400LD-HP	DBA-GE550LD-HP
Dehumidifying Capacity (30°C 80%RH)	280L/Day	400L/Day	550L/Day
Dehumidifying Capacity (26.7°C 60%RH)	144L/Day	228L/Day	276L/Day
Cover Area	3000Sqft	4000Sqft	5000Sqft
Rated Power	3400W	4780W	5450W
Max. Power	4100W	7800W	8300W
Rated Current	6.5A	10A	11.8A
Max. Current	8A	13.5A	17A
Voltage	380V 3N ~50Hz	380V 3N ~50Hz	380V 3N ~50Hz
Drain Height	10m	10m	10m
Drain Outlet Size	DN15 (20mm)	DN15 (20mm)	DN15 (20mm)
Refrigerant	R410A/1.7kg	R410A/1.45kg x 2	R410A/1.65kg x 2
Operating Temperature	1-40°C	1-40°C	1-40°C
Weight	160kg	210kg	240kg
Dimension	820*465*1775mm	1200*540*1740mm	1200*540*1740mm

*Specifications are subject to change without prior notice.



Configuration	DBA-GE280LD-HP	DBA-GE400LD-HP	DBA-GE550LD-HP
Drain Pump	✓	✓	✓
Dust Filter	✓	✓	✓
Cold Rolled Steel Casing	✓	✓	✓
Emergency Stop Button	✓	✓	✓
LCD Control Panel	✓	✓	✓
Drain Hose	3 m	3 m	3 m
Power Cable	5 m	5 m	5 m

*Specifications are subject to change without prior notice.

Control	DBA-GE280LD-HP	DBA-GE400LD-HP	DBA-GE550LD-HP
Set Humidity Range	20 - 95%	20 - 95%	20 - 95%
Manual Purge Button	✓	✓	✓
Set Fan Speed	Low / High	Low / High	Low / High
Fan/Dehumidifying Modes	✓	✓	✓
Scheduled On/Off Timer	✓	✓	✓
Fault Detection	✓	✓	✓
Power Off Memory Function	✓	✓	✓
BMS RS485 (Modbus)	✓	✓	✓
Dry Contact Control	✓	✓	✓

*Specifications are subject to change without prior notice.



HC SERIES

HUMIDITY CONTROL UNIT HUMIDIFY + DEHUMIDIFY

DBA-HC68



Dehumidification: **68 Liters / Day**
Humidification: **3 kg/hr**
Cover Area: **800 Sqft**
Weight: **150kg**
Dimension: **L800xW500xH1650mm**



DBA-HC145



Dehumidification: **145 Liters / Day**
Humidification: **5 kg/hr**
Cover Area: **1500 Sqft**
Weight: **148kg**
Dimension: **L800xW500xH1850mm**





DBA-HC280



Dehumidification: **280 Liters / Day**
Humidification: **10 kg/hr**
Cover Area: **3000 Sqft**
Weight: **290kg**
Dimension: **L1200xW600xH2200mm**



DBA-HC400



Dehumidification: **400 Liters / Day**
Humidification: **15 kg/hr**
Cover Area: **4000 Sqft**
Weight: **360kg**
Dimension: **L1400xW750xH2200mm**



DBA-HC550



Dehumidification: **550 Liters / Day**
Humidification: **20 kg/hr**
Cover Area: **5000 Sqft**
Weight: **380kg**
Dimension: **L1400xW750xH2200mm**





Technical Data

Parameters	DBA-HC68	DBA-HC145	DBA-HC280
Dehumidifying Capacity (30°C 80%RH)	68L/Day	145L/Day	280L/Day
Humidifying Capacity	3kg/hr	5kg/hr	15kg/hr
Cover Area	1000Sqft	1500Sqft	3000Sqft
Rated Power (Dehumidify)	780W	1600W	2450W
Rated Power (Humidify)	300W	430W	1350W
Max. Power	950W	2750W	4500W
Rated Current (Dehumidify)	3.5A	7.2A	6A
Rated Current (Humidify)	1.5A	2A	6.3A
Max. Current	4.4A	12.7A	9.6A
Voltage	220-240V~50Hz	220-240V~50Hz	380V 3N ~50Hz
Water Outlet	Ø 20mm (DN15)	Ø 20mm (DN15)	Ø 20mm (DN15)
Water Inlet	Ø 20mm (DN15)	Ø 20mm (DN15)	Ø 20mm (DN15)
Overflow Outlet	Ø 32mm (DN25)	Ø 32mm (DN25)	Ø 32mm (DN25)
Refrigerant	R410A/500g	R410A/1.1kg	R410A/1.8kg
Operating Temperature	5 - 40°C	5 - 40°C	5 - 40°C
Weight	150kg	150kg	290kg
Dimension	800*500*1650mm	800*500*1850mm	1200*600*2200mm

*Specifications are subject to change without prior notice.



Configuration	DBA-HC68	DBA-HC145	DBA-HC280
Drain Pump	✓	✓	✓
UV-C Sterilization Lamp	✓	✓	✓
Dust Filter	✓	✓	✓
Emergency Stop Button	✓	✓	✓
LCD Control Panel	✓	✓	✓
Power Cable	5 m	5 m	5 m

*Specifications are subject to change without prior notice.

Control	DBA-HC68	DBA-HC145	DBA-HC280
Set Humidity Range	20 - 95%	20 - 95%	20 - 95%
Manual Purge Button	✓	✓	✓
Auto/Humidifying/ Dehumidifying Modes	✓	✓	✓
Scheduled On/Off Timer	✓	✓	✓
Fault Detection	✓	✓	✓
Power Off Memory Function	✓	✓	✓
BMS RS485 (Modbus)	✓	✓	✓
Dry Contact Control	✓	✓	✓
Water Leak Sensor Port	✓	✓	✓
Fault Indicator Output (220V 10A)	✓	✓	✓

*Specifications are subject to change without prior notice.



Technical Data

Parameters	DBA-HC400	DBA-HC550
Dehumidifying Capacity (30°C 80%RH)	400L/Day	550L/Day
Humidifying Capacity	15kg/hr	20kg/hr
Cover Area	4000Sqft	5000Sqft
Rated Power (Dehumidify)	4500W	6500W
Rated Power (Humidify)	1450W	1530W
Max. Power	6500W	8500W
Rated Current (Dehumidify)	8A	13.6A
Rated Current (Humidify)	8.2A	9.3A
Max. Current	11.6A	16.6A
Voltage	380V 3N ~50Hz	380V 3N ~50Hz
Water Outlet	Ø 20mm (DN15)	Ø 20mm (DN15)
Water Inlet	Ø 20mm (DN15)	Ø 20mm (DN15)
Overflow Outlet	Ø 32mm (DN25)	Ø 32mm (DN25)
Refrigerant	R410A/1.45kg x 2	R410A/1.8kg x 2
Operating Temperature	5 - 40°C	5 - 40°C
Weight	360kg	380kg
Dimension	1400*750*2200mm	1400*750*2200mm

*Specifications are subject to change without prior notice.



Configuration	DBA-HC400	DBA-HC550
Drain Pump	✓	✓
UV-C Sterilization Lamp	✓	✓
Dust Filter	✓	✓
Emergency Stop Button	✓	✓
LCD Control Panel	✓	✓
Power Cable (5 Meters)	✓	✓

*Specifications are subject to change without prior notice.

Control	DBA-HC400	DBA-HC550
Set Humidity Range	20 - 95%	20 - 95%
Manual Purge Button	✓	✓
Auto/Humidifying/ Dehumidifying Modes	✓	✓
Scheduled On/Off Timer	✓	✓
Fault Detection	✓	✓
Power Off Memory Function	✓	✓
BMS RS485 (Modbus)	✓	✓
Dry Contact Control	✓	✓
Water Leak Sensor Port	✓	✓
Fault Indicator Output (220V 10A)	✓	✓

*Specifications are subject to change without prior notice.



DD SERIES

DESICCANT DEHUMIDIFIER LOW-TEMP. AND LOW-HUMIDITY ENVIRONMENTS

DBA-DD210

Dehumidification: **1 kg / hour**
Process Airflow: **350CMH**
Reactivation Airflow: **35CMH**
Weight: **20kg**
Dimension: **L491xW430xH345.7mm**



DBA-DD550

Dehumidification: **2.5 kg / hour**
Process Airflow: **550CMH**
Reactivation Airflow: **180CMH**
Weight: **52kg**
Dimension: **L802xW615xH567mm**



DBA-DD850

Dehumidification: **7.5 kg / hour**
Process Airflow: **850CMH**
Reactivation Airflow: **340CMH**
Weight: **120kg**
Dimension: **L750xW750xH1700mm**





Technical Data

Parameters	DBA-DD210	DBA-DD550	DBA-DD850
Dehumidifying Capacity (20°C 60%RH)	1kg/hr	2.5kg/hr	7.5kg/hr
Process Airflow	350CMH	550CMH	850CMH
Reactivation Airflow	35CMH	180CMH	340CMH
Max. Power	935W	3700W	9770W
Rated Current	4.3A	17A	20A
Voltage	220-240V~50Hz	220-240V~50Hz	380V 3N ~50Hz
Operating Temperature	-20 - 40°C	-20 - 40°C	-20 - 40°C
Weight	20kg	52kg	120kg
Dimension	491*430*345.7mm	802*615*567mm	750*750*1700mm

*Specifications are subject to change without prior notice.

Configuration	DBA-DD210	DBA-DD550	DBA-DD850
'ProFlute' Desiccant Rotor	✓	✓	✓
PTC Ceramic Heater	✓	✓	✓
7inch LCD Display Panel	✓	✓	✓
Dust Filter	✓	✓	✓
Power Cable	5 m	5 m	5 m

*Specifications are subject to change without prior notice.

Control	DBA-DD210	DBA-DD550	DBA-DD850
Set Humidity Range	1 - 90%	1 - 90%	1 - 90%
Fault Detection	✓	✓	✓
Humidity Data Log	✓	✓	✓
Power Off Memory Function	✓	✓	✓
BMS RS485 (Modbus)	✓	✓	✓

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