






DEWOODS DEHUMIDIFIER




**MOISTURE
&
HUMIDITY
CONTROL SPECIALIST**



Smart Air Quality Solutions

TYPE	Portable Commercial Dehumidifiers				
BRAND	DEWOODS	DEWOODS	DEWOODS	DEWOODS	DEWOODS
MODEL	MDH - 12A	MDH - 20A	MDH - 30A	MDH - 50A	MDH - 90
PRODUCT					
Moisture Removal Capacity (30°C,80%RH) (L/Day)	12L/Day	20L/Day	30L/Day	50L/Day	90L/Day
Operating Temperature	5°C - 35°C	5°C - 35°C	5°C - 35°C	5°C - 35°C	5°C - 35°C
Refrigerant	R134A	R134A	R407C / R410A	R407C / R410A	R410A
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary
Continuous Drain Out Option	Yes	Yes	Yes	Yes	Standard
Washable Air Filter	Yes	Yes	Yes	Yes	Yes
Sound Level dB (A)	≤ 40	≤ 43	≤ 46	≤ 49	≤ 60
Casters	Yes	Yes	Yes	Yes	Yes
Auto Defrost	Yes	Yes	Yes	Yes	Yes
Electronic Control	Yes	Yes	Yes	Yes	Yes
Soft Key Button	Yes	Yes	Yes	Yes	Yes
Display Screen	LED	LED	LED	LED	LED
Microprocessor Self Check at Start Up	Yes	Yes	Yes	Yes	Yes
Fan Speed	2	2	2	2	2
Auto Timer	Yes	Yes	Yes	Yes	Yes
Water Container Size	2.3L	6.5L	6.5L	8.5L	Direct discharge
Unit Dimension (W x D x H) mm	308 x 229 x 478	360 x 285 x 564	350 x 295 x 597	397 x 330 x 630	480 x 440 x 970
Net Weight (Kg)	11	14	18	24	45
Warranty	2	2	2	2	2
Packaging Dimension (W x D x H) mm	360 x 280 x 520	410 x 320 x 640	550 x 320 x 640	440 x 550 x 650	550 x 490 x 1080
Shipping Weight (Kg)	13	15	20	27	50
Power Supply	240V/1Ph/50Hz	240V/1Ph/50Hz	240V/1Ph/50Hz	240V/1Ph/50Hz	240V/1Ph/50Hz
Power Consumption (W)	245	265	460	720	1350

TYPE	Industrial Mobile Dehumidifier	Industrial Dehumidifiers			
BRAND	<u>DEWOODS</u>	<u>DEWOODS</u>	<u>DEWOODS</u>	<u>DEWOODS</u>	<u>DEWOODS</u>
MODEL	MDH - 100	MDH - 120	MDH - 180	MDH - 240	MDH - 480
PRODUCT					
Moisture Removal Capacity (30°C,80%RH) (L/Day)	100L/Day	120L/Day	180L/Day	240L/Day	480L/Day
Operating Temperature	5°C - 35°C	5°C - 35°C	5°C - 35°C	5°C - 35°C	5°C - 35°C
Refrigerant	R410A	R410A	R410A	R410A	R410A
Compressor Type	Rotary	Rotary	Rotary / Scroll	Rotary / Scroll	Rotary / Scroll
Continuous Drain Out	Yes with pump	Yes	Yes	Yes	Yes
Washable Air Filter	Yes	Yes	Yes	Yes	Yes
Sound Level dB (A)	≤ 60	≤ 60	≤ 65	≤ 65	≤ 68
Casters	Industrial Grade Large Wheels	Commercial	Heavy Duty	Heavy Duty	-
Auto Defrost	Yes	Yes	Yes	Yes	Yes
Electronic Control	Yes	Yes	Yes	Yes	Yes
Soft Key Button	Yes	Yes	Yes	Yes	Yes
Display Screen	Digital LCD	LED	Digital	Digital	Digital
Microprocessor Self Check at Start Up	Yes	Yes	Yes	Yes	Yes
Fan Speed	1	2	2	2	2
Auto Timer	Operating Hours	Yes	Yes	Yes	Yes
Water Container Size	Direct discharge	Direct discharge	Direct discharge	Direct discharge	Direct discharge
Unit Dimension (W x D x H) mm	530 x 515 x 830	600 x 380 x 1000	774 x 470 x 1685	774 x 470 x 1685	1190 x 450 x 1750
Net Weight (Kg)	45	51	110	130	230
Warranty	2	2	2	2	2
Packaging Dimension (W x D x H) mm	610 x 580 x 870	670 x 450 x 1100	900 x 580 x 1860	900 x 580 x 1860	1300 x 610 x 1980
Shipping Weight (Kg)	49	58	163	163	271
Power Supply	240V/1Ph/50Hz	240V/1Ph/50Hz	230V/1Ph/50Hz	415V/3Ph/50Hz	415V/3Ph/50Hz
Power Consumption (W)	1150	1190	2400	3900	6500

Ceiling Ducted Refrigerant Dehumidifiers

TYPE

BRAND

DEWOODS

PRODUCT



MODEL	MDH-CD-100	MDH-CD-140	MDH-CD-170	MDH-CD-240	MDH-CD-360
Moisture Removal Capacity (30°C,80%RH) (L/Day)	90L/Day	138L/Day	168L/Day	240L/Day	360L/Day
Operating Temperature	5°C - 38°C	5°C - 38°C	5°C - 38°C	5°C - 38°C	5°C - 38°C
Power Supply	240V/1Ph/50Hz		415V/3Ph/50Hz		
Rated Power (W)	1150	1300	2280	3400	4900
Rated Current (A)	5.3	6	4.6	6	9
Refrigerant	R410A	R410A	R410A	R410A	R410A
Pressure (PA)	150	150	150	150	150
Filtering Level	G4	G4	G4	G4	G4
Humidity Setting (RH%)	30 ~ 95	30 ~ 95	30 ~ 95	30 ~ 95	30 ~ 95
IP Rating	IPx4	IPx4	IPx4	IPx4	IPx4
Drainage Mode	Continuous drainage pipe can be connected externally				
Compressor Protection	High and Low Pressure Protection/Compressor Three Minutes Delay Start Protection				
Air Inlet Flange (mm)	150 diam x 2	150 diam x 2	630 x 505	630 x 505	1080 x 490
Air Outlet Flange (mm)	150 diam	150 diam	610 x 310	610 x 310	1155 x 290
Air Outlet Mode	Front: Air Inlet, Back: Air Outlet				
Unit Dimension (W x D x H) mm	1050 x 620 x 465		1085 x 820 x 600		1300 x 1188 x 600
Net Weight (Kg)	63	70	110	140	235

Climate Control Dehumidifiers

TYPE

BRAND

DEWOODS

PRODUCT



MODEL

	MDH-FA-50GD	MDH-FA-90GD	MDH-FA-120GD	MDH-FA-168GD	MDH-FA-240GD	MDH-FA-480GD	MDH-FA-600GD
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Moisture Removal Capacity
(30°C,80%RH) (L/Day)

	50L/Day	90L/Day	120L/Day	168L/Day	240L/Day	480L/Day	600L/Day
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Operating Temperature

	5°C - 38°C	5°C - 38°C	5°C - 38°C	5°C - 38°C	5°C - 38°C	5°C - 38°C	5°C - 38°C
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Power Supply

	240V/1Ph/50Hz				415V/3Ph/50Hz			
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Rated Power (W)

	620	1050	1280	2400	3700	7800	10200
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Rated Current (A)

	3	4.6	5.8	5.2	6	13	19
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Refrigerant

	R410A	R410A	R410A	R410A	R410A	R410A	R410A
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Max Power (W)

	950	1480	2630	3630	5360	11100	15000
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Max Current (A)

	4.2	6.8	12	6.9	8.5	18	30
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Display Screen

	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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Timer On / Timer Off

	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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Drainage Mode

Continuous drainage pipe can be connected externally

Compressor Protection

High and Low Pressure Protection/Compressor Three Minutes Delay Start Protection

Temperature and Humidity
Display

	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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Unit Dimension
(W x D x H) mm

	800 x 500 x 390	900 x 680 x 420	900 x 680 x 420	1000 x 800 x 550	1000 x 800 x 550	1200 x 1100 x 550	1400 x 1100 x 550
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Net Weight (Kg)

	47	64	66	89	105	180	240
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DST Seibu Giken Dehumidifier

**Consorb CS
CSA-5/5L**



Capacity kg/h
(20°C/60%RH)
Airflow
(m3/h)

0.35 - 0.4
65 - 90

**Consorb
DC-5**



0.5
120

**Recusorb DR
DRA-010B**



0.6
190

**Consorb
DCA-10**



0.6
190

**Aquasorb
AQ-30B/31B/31L**



0.85 - 1.55
330 - 370

**Recusorb DR
DR-20B/30D**



0.8 - 1.1
330 - 360

**Consorb
DC-20/30T10,T16**



Capacity kg/h
(20°C/60%RH)
Airflow
(m3/h)

1.1 - 1.5
310 - 400

**Recusorb DR
DR-31 T10**



1.6
310

**Recusorb DR
DR-40 T10,T16**



1.6 - 2.3
550 - 600

**Recusorb R
DCA-31 T10,T16**



1.4 - 2.1
300 - 490

**Recusorb DR
DR-50R**



2.8
600

**Consorb
DC-50R**



3.0
550

**Recusorb R
RLA-60/60LR**



Capacity kg/h
(20°C/60%RH)
Airflow
(m3/h)

4 - 5
850 - 1000

**Recusorb R
RA-51R/61R**



7.3 - 10
1250 - 1450

**Recusorb R
RLA-61/61L-
RLA-71/71LR**



7.5 - 17
1300 - 3200

**Recusorb R
RLZA-81/82/101/102
/102L/104**



19 - 54
2900 - 12 000

**Consorb
CZ-82/102/102/104**



22 - 69
3200 - 12 000



**Consorb, Econsorb,
Frigosob, Recusorb
Flexisorb**

CFA Dehumidifiers

Capacity at 20°C / 60%
8 - 238 kg/h

Airflow
1200 - 36 000 m3/h

DST Seibu Sorption Dehumidification

- HOW DOES IT WORK?

In sorption dehumidification, the basic principle is that a rotating rotor in the dehumidifier continuously adsorbs moisture from the process air. Then through a regeneration cycle the moisture is driven out of the rotor and exhausted in different ways, the principle pictures are demonstrating how.



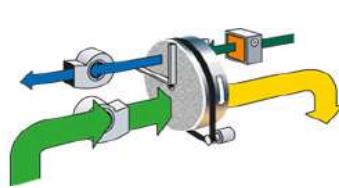
Incoming moist air



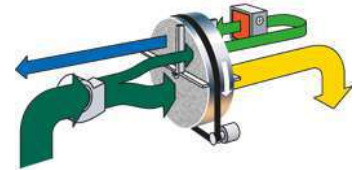
Outgoing dry air



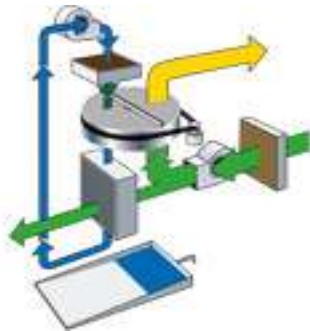
Outgoing wet air, either passed or condensed out



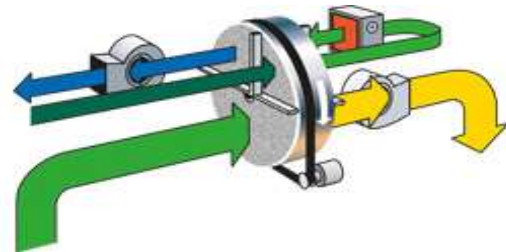
The **Consoorb** principle is best used at lower regeneration temperatures, typically where waste heat is available or where the air inlet moisture content is very high. The Consorb principle is also used in balanced 'closed' type systems where the dry process air is recirculated.



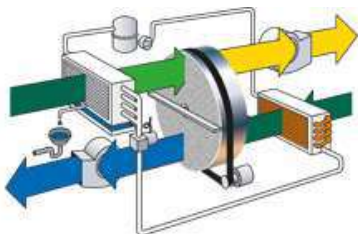
Recusorb DR has an internal heat recovery with one fan that produces both the dry airflow and the wet airflow. Used for introducing dry fresh air into a process or to an 'open' or 'total loss' system where the dehumidified air is ducted into the object. Can be used on both 'open' and 'closed' type systems.



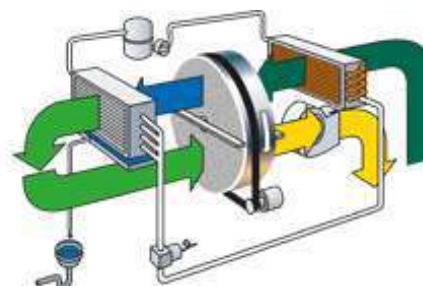
Aquasorb basically functions as a Consorb but moisture in the wet air is condensed through an air cooled condenser. One centrifugal fan is used for both the dry air and the condenser cooling air, so all energy released during the process accumulates in the room. Commonly used where it is impractical to use ducting for the reactivation air system.



Recusorb R has an internal heat recovery to improve operating efficiency. Heat transferred to the rotor during regeneration is effectively recovered by the incoming regeneration air, thus reducing the amount of energy required by the generation heater. The process air outlet is both cooler and drier when compared to other dessicant dryers.



Econosorb combines a heat pump with the sorption rotor in a unique way, providing very low energy consumption with a low dry air temperature. It's probably the most energy efficient dehumidifier on the market, with approximately 25% of the total energy consumption of regular sorption dehumidifier. Econosorb has both condensation and wet air flow.



Frigosorb is used in applications where it is difficult to remove a wet air flow. Thanks to the heat pump function Frigosorb is very energy efficient, using approximately 33% of the total energy consumption of regular sorption dehumidifiers.



Eliminate Moisture With Dehumidifier

Humidity Problems

Corrosion

Merchandise manufactured in materials such as iron and steel, demand low humidity. Vehicles, aircraft, machines and tools do not rust if the surrounding air is kept at a relative humidity below 50%.

Mold

Organic materials such as leather and paintings, contain micro-organisms. These can develop into fungus and mould, but will not occur if the relative humidity level is kept below 70%.

Bacteria

Bacteria require a high humidity to survive and to multiply. If the humidity level of the surrounding air is kept below 50%, most bacteria will not survive. The limit is especially important when storing food products which are susceptible to bacteria.

Dry Products

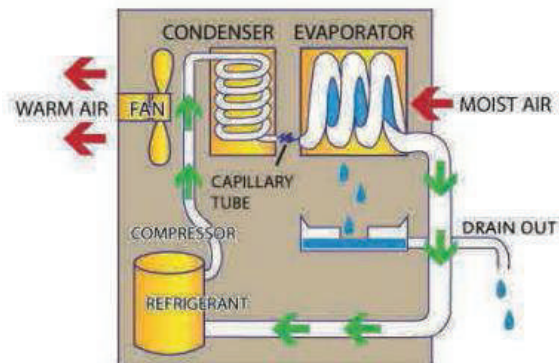
When manufacturing dry products like soups or sauces, it is important to dehumidify the production premises. The right climate can help ensure the ingredients do not stick together during mixing or in the packets. Production quality is ensured to maintain the same production speed all year around.

- Condensation
- Flood Restoration Recovery
- Product Drying & Conditioning
- Mould & Fungus Prevention

How it works

Condensation Principle

The air is laden with moisture. The dehumidifier works to remove this moisture by changing it from its vapor state to liquid state. Air is drawn through an air filter and passes through an evaporator which cools it to a temperature below dew point. Water vapour in the airstream condenses and is collected in a reservoir. Dehumidified air continues through the condenser and is warmed and recirculated back into the room as dry air.



AAQ has been serving Indoor Air Quality requirements for over 30 years. We specialize in the field of improving the air that you and your product breathes, from moisture control applications to indoor climate control and from air pollutants filtration to industrial oil fumes treatment.

AAQ's brand assurance offers complete confidence to our customers as all our products and technologies are from renowned partners from Sweden, USA, France, Japan and China. Our customers benefit from extra warranty package and maintenance is assured with the largest service team in the industry in Malaysia.