

# USER MANUAL

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## Dehumidifiers

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Series	AD 520	AD 580
	AD 540	AD 660
	AD 560	AD 680

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This Manual is based on the technical and product-specific parameters. The manufacturer reserves the right to add additional information to the user manual.

The use of this device under conditions of illegal and improper use will void any warranty claims.

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## 1 About This Manual

This manual belongs to the product. It contains important information about how you properly transport, safely install, operate, use, store and dispose of the dehumidifiers from **AERIAL**. Therefore keep this User Manual safe. Below you will find instructions on the target group of this guide.

### Target Groups

This manual is intended for operators and users of equipment from **AERIAL**. You must have read and understood the user manual. The physical and mental conditions for proper and safety-conscious handling of the equipment must be guaranteed at all times.

### Representation Conventions

In this manual you will find instructions that warn you at the start of a specific operation step of the potential hazards.



#### Type and Source of danger

This symbol in conjunction with the word “DANGER” refers to a life-threatening situation. If this warning is ignored, there is the potential for serious, even fatal injuries.

- ➞ This arrow symbol shows important steps towards safety instructions, which you absolutely must follow.



#### Type and Source of danger

This symbol in conjunction with the word “WARNING” refers to a dangerous situation.

- ➞ This arrow symbol shows important steps towards safety instructions, which you absolutely must follow.



#### Type and Source of danger

This symbol in conjunction with the word “CAUTION” warns you of minor and moderate injury and of impending damage.

- ➞ This arrow symbol shows important steps towards safety instructions, which you should follow.



In this box you will find tips and hints on using the dehumidifiers.

## 2 Safety

### Safety Devices

The dehumidifier AD-5 and AD-6 series has been subjected to a thorough security check. Incorrect operation or misuse can endanger:

- The operator,
- the Device and other property of the operator,
- the efficient working of the device.

All persons who are involved with the installation, commissioning, operation, maintenance and repairing the equipment, must:

- Be qualified,
- follow these instruction carefully.

### Hazards of Accessories

Water drainage hoses and air filters must be professionally installed and that the protective devices of the dryers must not be inoperative. The control elements must always remain freely accessible.

### Approved Operators

The operation of the dehumidifier or other work must be carried out only by persons who were instructed from the operator. The operator's third party in the work area shall be responsible.

Responsibilities for different activities on the dehumidifier must be clearly defined and adhered to. Unclear competences are a safety hazard.

The operator must:

- make the User Manual within reach of the operator,
- ensure that the operator has read and understood the manual.

## Safety Instructions

The dehumidifier must not be used under the following conditions:

- In rooms with explosive atmospheres.
- In rooms with aggressive atmospheres, e.g Ammonia, Acids, Chemical and excessive chlorine content.
- In rooms with water which has a pH outside 7.0 to 7.4.



At lower pH values there is a risk of corrosion for all metals and damage to mortar containing materials (joints), with higher pH levels, it may lead to skin and mucous membrane irritation and increased deposition of lime.

- In rooms with salt or liquids with a salt content > 1% (also brine baths).
- In rooms with ozone-treated air.
- In rooms with high concentration of solvents.
- In rooms with extremely high dust levels.



Note that very strong air circulation within the room can negatively affect the function of the dehumidifier as these can interfere with the air flow of the dehumidifier.

In addition please note the following when using the dehumidifier:

- Work on electric components may only be carried out by appropriately trained personnel.
- For maintenance, only original or spare parts approved by the manufacturers can be used.
- In cases of malfunction, the dehumidifier must be switched off and secured against accidentally being switched on again..



## SPECIFICATIONS

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### 3 Specifications

You have purchased a dehumidifier from the company **AERIAL** and therefore chosen a high quality product "Made in Germany".

#### Intended Use

The dehumidifier may only be used for dehumidification of air at atmospheric pressure in closed rooms.

The dehumidifier can prevent the formation of condensation, reduce high levels of air humidity and hold a consistent level of air humidity.

Intended use also includes compliance with the specified operating conditions (see page 12).

Any use of this device that is not appropriate or an intended use is considered an improper use will void any warranty claims.



The time required of the dehumidifier for drying a room and to achieve a consistent humidity level are strongly dependant on the ambient conditions in the room where the dehumidifier installed.

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#### Supplied Components

- Dehumidifier
- Water collecting container  
AD 520 / 540: 8,0 Liter  
AD 560 / 580 / 660 / 680: 15,0 Liter
- Power cord
- Operating Instructions

#### Optional Components

- Wall bracket
- Pump kit
- FGS-Sensor for detection of moisture
- Condensation drainage hose 12 x 2 mm

## Device Description

The dehumidifier can easily be carried by one person due to its light weight design. For the AD 520 and AD 540 a wall bracket for stationary fastening is available on request.

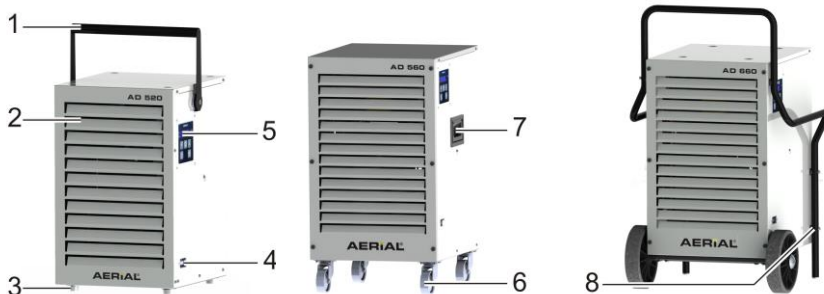


Fig. 1: Dehumidifier series AD 520 / 540, AD 560 / 580, AD 660 / 680  
(isometric view)

1	Carrying handle	5	Control panel
2	Front panel (Air outlet)	6	Rollers
3	Device feet	7	Side handle
4	Mains switch	8	Surrounding frame

The dehumidifiers of the series AD 520/540 feature a carrying handle and four feet (Fig. 1, Pos. 3).

The dehumidifiers of the series AD 560/580 feature a carrying hand, two swivel roller and two fixed rollers (Fig. 1, Pos. 6).

The dehumidifiers of the series AD 660/680 feature a revolving surrounding frame and two wheels.

The water collecting container is located in the dehumidifier (Fig. 2, Pos. 5). The level of the water collection container is measured in all models via a float that will turn off the dehumidifier when the container is full.

## SPECIFICATIONS

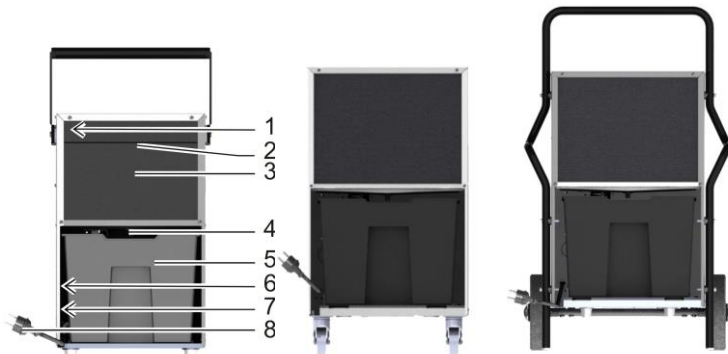


Fig. 2: Dehumidifiers AD Series 520 / 540, AD 560 / 580, AD 660 / 680  
(Rear view)

1	Room sensor	5	Water collecting container
2	Filter holder	6	AMP Connector for connecting pump kits (With blind plugs for operation without the pump)
3	Air intake area with air filter	7	AMP Connector for FGS Sensor
4	Condensation drainage connection piece for condensation drain hose	8	Power cord

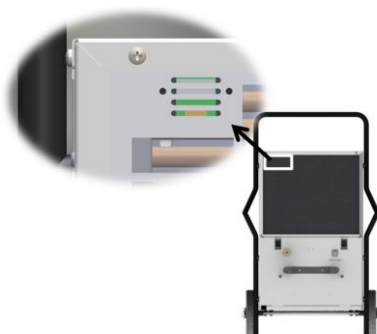


Fig. 3: Room sensor



Fig. 4 AMP plug for connecting pump kits and FGS Sensor

## 4 Optional Components

### Wall Bracket for series AD 520/540

A wall bracket for the dehumidifier can be used for attachment to the wall (available on request).

### Pump Kit for Condensation

Optionally, the dehumidifier can be retrofitted with a pump solution. The “Pump Kit” available from your AERIAL dealer can be easily used with a few simple steps and removed again if desired.

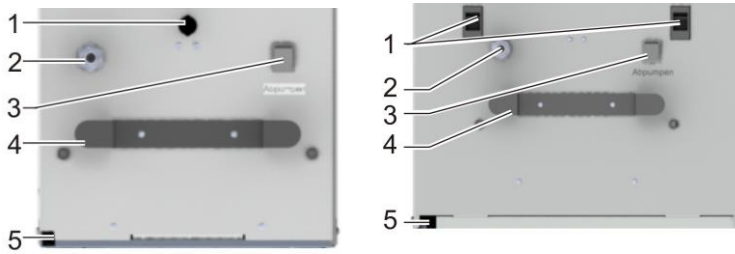


Fig. 2: Pump kit for dehumidifier series AD 520 / 540 (left), AD 560 / 580 und AD 660 / 680 (right)

1	Quarter-turn latch/folding lock	4	Cord storage
2	Drain connection for hose connection 12 x 2mm	5	Port for power cord
3	Button for manual pumping (before transporting the dehumidifier)		

### 5 Transport and Installation

#### Transport



#### **Risk of death by electrocution**

Touching live parts can result in death.

- Before each change of location of the dehumidifier, turn off the device at the on / off switch and unplug the power cord from the wall outlet. Ensure the water collection container is empty!



#### **Risk of injury**

- Preferably carry the dehumidifier individually.
- Always secure the dehumidifier to avoid tilting.



#### **Property damage**

Strain on the power cord may damage it.

- Always unplug the power cord before transporting the dehumidifier.
- The dehumidifier should away be transported with the help of the handles.
- The air must be able to circulate freely. The air vents (the back and side) must not be covered. The space between the plates and the air filter must be at least 1 metre, larger space will give more optimum air circulation in the room.



#### **Damage caused by incorrect operation of the carrying handle**

- Do not apply excessive force, with correct operation of the handles the device can be moved with minimal effort.

1. Report apparent cases of damage immediately upon delivery to the carrier, parcel service, post office etc. also note the cases of damage on the shipping paper or forwarding bill!
2. Remove the packing material and discard it according to local regulations.
3. Check the contents of delivery (See page 6) to ensure all parts are included.
4. If, after unpacking the dehumidifier you suspect damage or and incomplete delivery, please contact your local reseller or dealer immediately.



It is recommended to keep the devices original packaging, so that in a warranty case, you can use that packaging to safely return the product to the manufacturer/reseller.

5. Transport the dehumidifier, preferably using the handles provided.

### Installation

When installing and transporting the dehumidifier, proceed as follows:

1. Place the dehumidifier on an appropriate place on a flat surface according to the terms of use (see page 12)
2. Make sure that the condensation can be safely collected.

### When using a wall bracket (optional for AD 520 and AD 540):



**CAUTION**

#### **Device damage by incorrect conditions of use/incorrect installation**

- Make sure that the wall for mounting the wall bracket is suitable and can support the weight of the dehumidifier.
- Secure the dehumidifier to the wall with the supplied accessories.
- Align the wall bracket with a spirit leveller.

1. Mark the required drill holes for the wall bracket at the appropriate wall location. Align the wall bracket with a spirit level.
2. Attach the wall bracket securely with the supplied plugs and screws to the wall. Alternatively, use your appropriate special fixings for you wall.

### Operating Conditions

Dehumidifiers are designed for mobile or stationary use indoors, on construction sites, in waterworks, swimming pools, garages and storage rooms.

The dehumidifier easily work in the temperature range from +1 ° C to +34 ° C and the humidity range of 35% to 95% relative humidity.

At low or high temperatures, the device switches off automatically. The use in areas with lower temperatures is inefficient and can lead to icing.

The storage of the dehumidifier at inadmissible temperature conditions may result in immediate damage/problems on power up. If stored below 0 ° C, the device must be able to adapt to room temperature before it is used first. Therefore allow the dehumidifier, if necessary, an adjustment period before switching on.

The appropriate location for the dehumidifier provides:

- Power supply of 230V/50Hz
- Flat surface
- Free space of at least 1 meter from the air outlet fins and the air filter, preferably more!

Choose the location so that the air of the dehumidifier can circulate as optimally as possible in your rooms.

The dehumidifier must be placed on a flat surface.



With a condensation dryer humidity, values of 30% r.h. humidity can be reached. Lower values are required for absorption to occur. If you are unsure about this, ask you consultant.

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In case of unclear conditions of use, please contact your consultant.

### Electrical Connection.



#### Risk of death by electrocution

- The specifications of the dehumidifier must be compared with the conditions of the installation room before installing.

Before connecting the dehumidifier the following points must be checked:

- The mains voltage must match the voltage of the dehumidifier!
- The socket and the mains power supply must be adequately secured!
- In damp rooms or on construction sites GFCI must be installed!
- The device plug must be suitable for the buildings plug socket!
- The socket used must be provided with proper grounding!

Plug the power cord into the outlet.

### Connecting the Condensation Drain



#### Damaged/inadequate equipment performance due to incorrect connection of the condensation drain hose

- For use without the water collecting container:  
The hose end must be lower than the beginning of the hose (runoff socket): slope of at least 5%, ie 5cm/m
- The hose end is not connected in the water (water backflow possible).
- Never bend the hose.
- Check no items are in the tube.
- Regularly check the condensation can drain safely.

1. Take out the water container
2. Attach the condensation drain hose to the drainage plug (Fig. 2, Pos. 4) and secure it with a hose clamp.
3. Remove the hose with a slope (min 5%, ie 5cm / per meter) lead into a drain away from the dehumidifier.



If the dehumidifier is mounted on a wall bracket or otherwise at a height, the drain hose can also be connected through the opening in the bottom of the device facing downwards.



## TRANSPORT AND INSTALLATION

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### Connecting the Pump Kit



#### Equipment damage caused by improper installation

- ➔ Never push the pump kit with force into the dehumidifier.
- ➔ Never place the screw caps with force.

1. Remove the water collecting container from the dehumidifier. A socket is located in the water collection tank compartment, in which is a AMP dummy plug (Fig. 2, Pos. 6)
2. Loosen the screw on the top cover plate in front of the recess. Tighten the screw again.

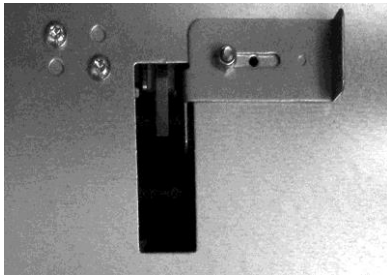


Fig. 6: Upper cover plate in original position

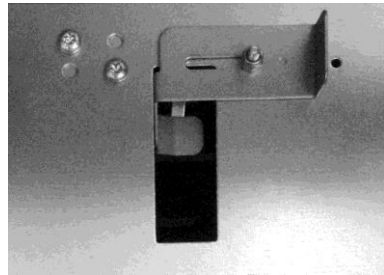


Fig. 7: Upper cover plate before the recess

3. Loosen the screw at the lower cover plate (marked "Pump"). Slide the plate upwards. Pull the AMP blind plug from its slot, it is necessary that you keep this plug. It is require for the operation of the dehumidifier without the pump kit!

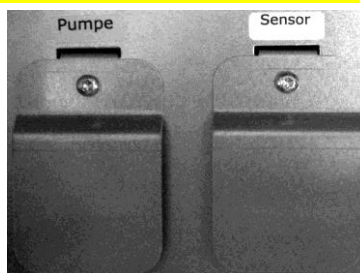


Fig. 8: Lower cover plates for pump kit and FGS sensor

4. Connect the AMP-socket of the pump kit with the now vacant slot.
5. Ensure that the turning bolt (AD 520 and 540) is turned all the way to the left (horizontal position). The lower fold of the pump kit rear panel must engage behind the lower edge of the water collection tank compartment.
6. Place the pump kit in the water collection tank. The pump kit can be effortlessly place into the water collection tank so that the back plate is flush with the casing of the dehumidifier.
7. Turn the turning bolt (AD 520 and 540) to the right or press the slide locks (from AD 560), until the pump kit is securely fastened in the water collection tank of the air dehumidifier.
8. Connect the drain hose to the drain port and redirect it from the dehumidifier away into a drain or outside. The dehumidifier is ready to be used with the pump function. The inserted pump can overcome an altitude difference of up to 4 meters.

There is a button (Fig. 5, Pos. 3) on the rear side of the pump kit. In order for the pump to be emptied manually, for example, prior to the moving the dehumidifier. We recommend the manual pumping before each removal, otherwise flipping of the dehumidifier can cause residual water to leak out of the pump onto the floor.



To remove the pump kit, please proceed in the previous order. Especially do not forget to plug in the AMP-dummy plug back into its slot, since the dehumidifier will not work otherwise.

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## 6 Operation and Control



### Risk of injury and equipment damage

Hazards may present from improper environmental conditions or improper operation of the dehumidifier.

- ➔ Before commissioning the dehumidifier read the operation instructions.

### Controls AD 5 and 6 series



Fig. 3: Control panel AD 5 and AD 6 series

1	Current room humidity	6	Gradual fan setting
2	Target space humidity	7	Arrow for increasing room humidity
3	Arrow for lowering room humidity	8	Operating hours
4	Info button for the display of power consumption and operating hours	9	Power consumption
5	On / Off	10	Display

### Installation

To put the dehumidifier into operation, it must be correctly installed and connected (See chapter 5, page 10).



Before putting the dehumidifier in operation, let it rest for 15 minutes in its final position after being moved. During this period, oil will be distributed in the refrigeration and compressor system. This will extend the life of the refrigeration system.

1. Plug the power cord into the mains socket.
2. Make sure that the water collecting container is in the dehumidifier or a drain hose (optional) is correctly connected a water collector or drain.
3. Turn off the dehumidifier via the mains switch. Then press the on / off switch (Fig 9, Pos. 5) on the control panel. If the dehumidifier is properly connected and the existing humidity is higher than the set humidity value, the dehumidifier will start to operate. The final values of the humidistat, language and fan speed can be optionally taken.

### Operation

1. Using the arrow keys reduce the room humidity or increase the room humidity to the desired level. If the existing humidity is higher than the set humidity value, the dehumidifier will start. If the existing humidity is lower than the set humidity value, the dehumidifier will not start.

Condensation accumulates during the operation. This can either go through to the water collection tank or directly through the hose into a drain. If the water collection tank is full the dehumidifier switches off.

2. Empty the water container. Once the water collection tank is in the dehumidifier again, the dehumidifier switches on again automatically.

#### **Automatic defrosting:**

During dehumidification, ice may form on the evaporator. The amount of ice depends on the ambient conditions of the surrounding space.

The dehumidifier series AD 5 and 6 series are equipped with an automatic hot gas defrost. When freezing of the evaporator occurs, the appliance defrosts automatically. As soon as the ice build-up is defrosted, the dehumidifier starts again in the normal dehumidifying mode. .








Climatic conditions of 20 - 25 ° C and 55 - 65% r.h. are

## OPERATION AND CONTROL

recommended for living spaces. For drying, the humidistat should be set to a continuous operation.




For drying and keeping rooms dry with wood trims (E.g. parquet flooring) or paintings, antiques, etc. humidity should not be less than 55-60%.

For unclear drying tasks, ask your consultant.

Button	Press briefly	5 second press	Display
	Lowers the room humidity in 1% increments	Lowers the room humidity in 5% increments	
	Turning on the dehumidifier  Turning off the dehumidifier		<div style="border: 1px solid black; background-color: #0056b3; color: white; padding: 5px; display: inline-block;">             Start    12345              45%        12345           </div>  <div style="border: 1px solid black; background-color: #0056b3; color: white; padding: 5px; display: inline-block; text-align: center;">             Stop           </div> (flashes)
	Display power consumption and operating hours, even if the power is off.		
	Increase the room humidity in 1% increments	Increase the room humidity in 5% increments	
	Change the fan speeds Stage 2: Increase fan speed  Stage 1: lower fan speed		<div style="border: 1px solid black; background-color: #0056b3; color: white; padding: 5px; display: inline-block;">             fan speed high           </div>  <div style="border: 1px solid black; background-color: #0056b3; color: white; padding: 5px; display: inline-block;">             fan speed low           </div>





If the display show flashing for “Stop” or “Start” no operation is possible.

## Setting the Language

Button	Press briefly	5 second press	Display
		After turning on the power switch	
	Select your language (EN, DE)		deut sch
	Setting your language (EN, DE)		engl i sh

The chosen language is set after three seconds. The language cannot be changed during operation.

## 7 Maintenance and Care

 <b>WARNING</b>	<p><b>Risk of injury from electrical shock and imminent damage</b></p> <ul style="list-style-type: none"> <li>➤ In case of maintenance work, always take note of the general safety regulations.</li> <li>➤ Turn off the dehumidifier before cleaning and inspect and unplug the power cord.</li> <li>➤ Inspection and work on the interior of the dehumidifier may only be performed by trained personnel.</li> </ul>
 <b>WARNING</b>	<p><b>Risk of injury from sprayed particulates such as dirt from compressed air.</b></p> <ul style="list-style-type: none"> <li>➤ When cleaning with compressed air, wear protective goggles!</li> </ul>
 <b>WARNING</b>	<p><b>Risk of injury from sharp-edges</b></p> <ul style="list-style-type: none"> <li>➤ Wear protective gloves when cleaning the heat exchanger.</li> </ul>
 <b>CAUTION</b>	<p><b>Equipment Damage</b></p> <ul style="list-style-type: none"> <li>➤ Cleaning agents can damage surfaces. Use only mild detergent.</li> </ul>

## MAINTENANCE AND CARE

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### Cleaning and Inspection

The cleaning intervals are strongly dependant on the operating conditions. Therefore, check your dehumidifier regularly.

To ensure trouble-free continuous operation of the dehumidifier, the dehumidifier must, especially the air filter, are regularly checked and cleaned.

Proceed as follows:

1. Check the function of the built-in humidistat.
2. Turn off the dehumidifier.
3. Pull out the power plug.
4. Remove the filter bracket.
5. Clean or replace the air filter.
6. Visually inspect: Water collection tank, outlet and the optionally connect drain hose.
7. Insert the new or cleaning filter. Use only original filter in order to ensure the proper functioning of the dehumidifier.
8. Insert filter bracket.
9. Insert power cord.
10. Switch on the dehumidifier.

The dehumidifier is operational again and may be turned on at the on / off switch if necessary.

### Spare parts and customer services

If you have any questions about the dehumidifier or need replacement parts, please contact your dealer or customer services.

## 8 Troubleshooting

If the dehumidifier has a supposed defect, please first check the following points. Should this not solve the issue, contact your consultant.



### Risk of injury from electrical shock and threatened property damage

- ➔ The dehumidifier may only be repaired by trained and qualified personnel. Warranty procedures may only be performed by the manufacturer or by persons authorized by the manufacturer. Intervention by unauthorized persons will void warranty claims.

### Error Messages

Display shows	Possible cause	Solution
Er r or	<ul style="list-style-type: none"> <li>Sensor problem</li> <li>Loss of refrigerant</li> <li>Unclean filter</li> <li>Defective fan</li> <li>Defective compressor</li> </ul>	<ul style="list-style-type: none"> <li>Refer to the <b>AERIAL</b> service</li> <li>Refer to the <b>AERIAL</b> service</li> <li>Clean or replace the filter if necessary</li> <li>Refer to the <b>AERIAL</b> service</li> <li>Refer to the <b>AERIAL</b> service</li> </ul>
Pump Faul t	<ul style="list-style-type: none"> <li>Defective pump</li> </ul>	<ul style="list-style-type: none"> <li>Refer to the <b>AERIAL</b> service</li> </ul>
Empt y Cont ai ner	<ul style="list-style-type: none"> <li>Water collection container full</li> </ul>	<ul style="list-style-type: none"> <li>Empty water collecting container</li> </ul>
Room Temper at ure	<ul style="list-style-type: none"> <li>Outside temperature for 2 min. &lt;1 ° C or&gt; 35 ° C</li> </ul>	<ul style="list-style-type: none"> <li>Device will start automatically again when temperature is between &gt; 5 ° C or &lt;30 ° C</li> </ul>



## TROUBLESHOOTING

### Errors

Problem	Possible Cause	Solution
The dehumidifier has a poor or no dehumidification.	The ambient humidity is less than 35% r.h. or the ambient temperature is less than + 1 ° C. The operation of the dehumidifier is not suitable under these conditions.	Switch off the dehumidifier. Tip: Set the humidistat at an attainable value (e.g. to approximately 50% r.h.) so that the dehumidifier has time to adapt to the ambient humidity.
	The air filter is very dirty. The dehumidifier gets insufficient air. Dirty filters can lead to permanent damage to the dehumidifier.	Clean the filter or replace if necessary. Tip: Perform regular maintenance procedures as described in Chapter 7! Use only original air filters from <b>AERIAL</b> .
	The compressor and / or fan motor is defective.	Let a specialist repair the dehumidifier.
The fan of the dehumidifier is out of operation, the compressor will not operate.	The dehumidifier is in defrost mode. However, the compressor is not running with the fan.	After a few minutes, the fan of the dehumidifier will start again automatically.
The dehumidifier is out of service / fan and compressor not working.	Dehumidifier is switched off	Turn on the dehumidifier.
	The dehumidifier is without the any power.	Check the power cord, the plug connection, any possible extension cables used, the socket and the building power situation by an expert. Plug in the power cord if necessary.
	Water collection container is full.	Empty the water collection container and place it back.
	The humidity set on the hygostat is reached.	The dehumidifier automatically turns on again after set humidity is exceeded
	The AMP dummy plug is	Check the AMP connector.

Problem	Possible Cause	Solution
	not plugged in or a pump kit is not connect correctly.	
Severe icing on the cooling coil (evaporator). It forms a block of ice.	Incorrect ambient conditions or a faulty dehumidifier.	Set in a room with a min. + 10 ° C room temperature and wait until the ice has melted. Then switch on the dehumidifier again and let it run for about 3 hours. If a new block of ice should build up, then contact your dealer. Otherwise, make sure the dehumidifier is used in rooms with min. +3 ° C. When stored in colder environments, then immediately switching rooms may also lead to problems.
The moisture content set on the hygostat is not achieved or the dehumidifier automatically turns off.	Adjust the humidistat to a value of <45% r.h.	Your dehumidifier can reach a minimum of 30% r.h. depending on the ambient conditions. Set the hygostat to a reachable value (E.g. approximately 50% r.h.) so that the dehumidifier switches off in time.
	The dehumidifier is insufficiently sized for the intended use.	The room temperature, the air exchanged rate and any open water surfaces decide on the humidity load, among other things in the room. Let your dealer calculate whether the selected dehumidifier is really sufficient for your circumstances.

### 9 Decommissioning, Storage and Disposal

#### Decommissioning

If you do not need the dehumidifier for a prolong amount of time, you can temporarily take it out of service. Proceed as follows:

1. Turn off the dehumidifier at the on / off switch (Fig. 9, Pos. 5).
2. Unplug the power cord.
3. Cover the dehumidifier if necessary to protect against dust with a cloth.

#### Storage

For storing a single dehumidifier, we recommend the following procedure:

1. Pack the dehumidifier using cardboard.
2. Place the dehumidifier in a location in accordance with the prescribed conditions (See page 12).

The dehumidifier series AD 5 and AD 6 can be stacked for storage purposes.



**CAUTION**

#### **Risk of injury**

- ➔ Never stack more than two dehumidifiers on top of a single dehumidifier.
- ➔ The dehumidifier must always be secured against tipping.



**CAUTION**

#### **Damage caused by incorrect operation of the carrying handle**

- ➔ Do not apply excessive force.  
With correct operation of the handle, it allows an effortless method of moving the unit.

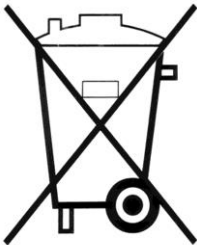


Fig. 4: Dehumidifier AD 520 (also applies to AD 540) and the stacked AD 660

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### Disposal

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Please do not use household waste to dispose of this unit, you must dispose of it in accordance with the statutory provisions.

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## 10 Technical Data



Many different components that are installed in a dehumidifier, among other things, decide about the dehumidification performance of the dehumidifier.

Since these components can never be completely identical, the actual performance according to DIN EN 810 can vary by up to 5% of the specified power.

General		
Power Supply	230 V / 50 Hz	
Protection	IP X4	
Safety Precautions in indoor swimming pool	FI-Circuit breakers required on site	
Operating Conditions	+ 1 °C to + 34 °C	35% r.h. to 95% r. h.

Type	Unit	AD 520	AD 540
Circulating air volume			
Fan Speed 1	cbm / h	300	500
Fan Speed 2	cbm / h	390	625
Power Consumption	Watt max.	450	600
Noise Level	dB (A)	46	51
Dimensions H x W x D	mm	524 / 320 / 360	578 / 329 / 380
Weight	kg	17	24
Refrigerant (see nameplate capacity)		R134a	R407c

### Dehumidification capacity / Power consumption:

30 °C / 80% r.h.	l / 24 h	19	34
	Watt	420	530
27 °C / 60% r.h.	l / 24 h	11	22
	Watt	360	430
20 °C / 60% r.h.	l / 24 h	8	16,6
	Watt	340	390
10 °C / 70% r.h.	l / 24 h	6	11,4
	Watt	280	330

Type	Unit	AD 560	AD 660
Circulating Air Volume			
Fan Speed 1	cbm / h		445
Fan Speed 2	cbm / h		540
Power Consumption	Watt max.		1000
Noise Level	dB (A)		53
Dimensions H x W x D	mm	720 / 400 / 450	900 / 540 / 500
Weight	kg	36	40
Refrigerant (see nameplate capacity)		R407c	R410a
<b>Dehumidification capacity / Power consumption:</b>			
30 °C / 80% r.h.	I / 24 h		54
	Watt		800
27 °C / 60% r.h.	I / 24 h		33
	Watt		710
20 °C / 60% r.h.	I / 24 h		25
	Watt		600
10 °C / 70% r.h.	I / 24 h		15
	Watt		500

## CE-Declaration of Conformity

**CE-Declaration of Conformity  
In the sense of the EG-Machinery Directive 2006/42/EG, Annex. II,  
1.A**

Machinery Guidelines 2006/42/EG  
EMV-Guidelines 2004/108/EG  
Low Voltage Guidelines 2006/95/EG

Manufacturer: AERIAL GmbH - Systeme zur  
Luftbehandlung  
Oststraße 148, D-22844 Norderstedt

Product Description: - Dehumidifier Series AD 520 / 540 / 560  
580 / 660 / 680

The product described is an installation ready dehumidifier.

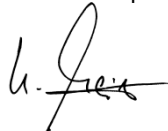
Applicable Standards:	EN ISO 12100	Safety of machinery
	EN 61 000	Electromagnetic Compatibility (EMV)
	EN 60 335-2-40	Safety of household and similar electrical appliances

This declaration of conformity loses its validity if a non-coordinated with the manufacturer change is made to the dehumidifier.

Norderstedt, den 26.11.2015

Signature / Stamp

**Switzerland branch:  
AERIAL GmbH  
Täferstrasse 14  
CH 5405 Baden-Dättwil**



Managing Director

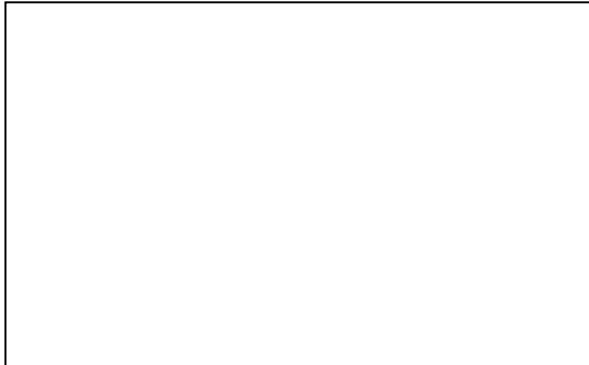
**AERIAL GmbH  
Oststraße 148  
D-22844 Norderstedt**





CE

Retailers Stamp:



**AERIAL®**

AERIAL GmbH ■ Systeme zur Luftbehandlung

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