

# USER MANUAL

## Dehumidifiers

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



BlueDry®

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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.

Stand: 03\_2017

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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.

## SAFETY

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### 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 9.0.



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.

#### Supplied Components

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

#### Optional Components

- Wall bracket
- Pump kit
- Dew point kit for detection of moisture
- Condensation drainage hose

## 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.

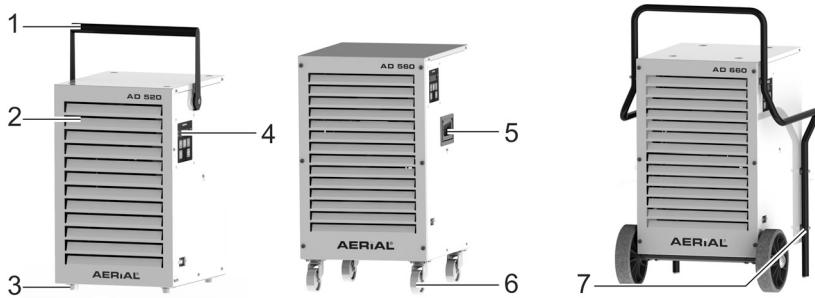


Fig. 1: Dehumidifier series AD 520 / 540, AD 560 / 580, AD 660 / 680  
(isometric view)

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

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

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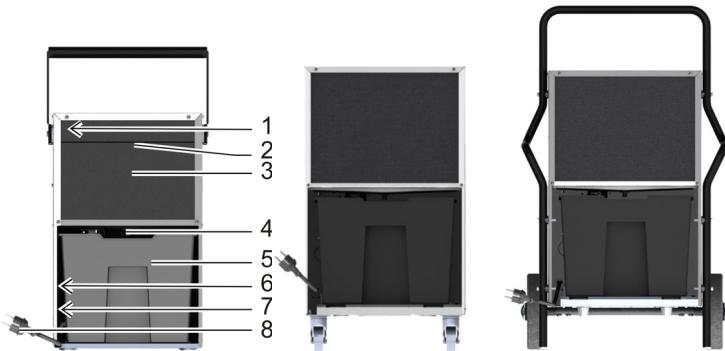


Fig. 2: Dehumidifiers AD Series 520 / 540, AD 560 / 580, AD 660 / 680  
(Rear view)

1	Room sensor	5	Water collecting container
2	Filter holder	6	Connection for connecting pump kit
3	Air intake area with air filter	7	Connection for connecting dew point kit
4	Condensation drainage connection piece for condensation drain hose	8	Power cord

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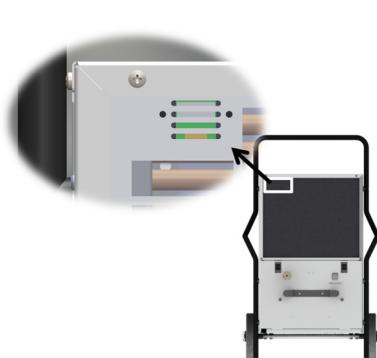


Fig. 3: Room sensor



Fig. 4: Connection for connecting pump kit or dew point kit

## 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.

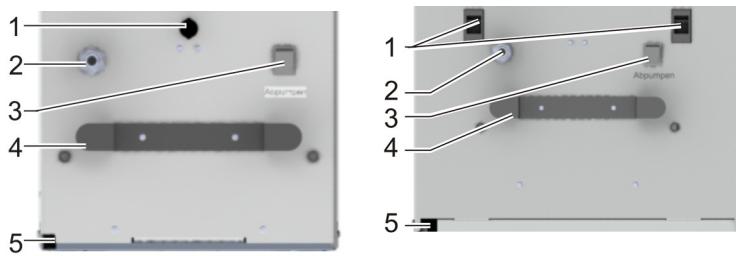


Fig. 5: Pump kit for dehumidifier series AD 520 / 540 (left), AD 560 / 580 and AD 660 / 680 (right)

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)		

## TRANSPORT AND INSTALLATION

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### 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 always 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 device's 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):



##### 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 your wall.

## TRANSPORT AND INSTALLATION

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### 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 your 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%, i.e. 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. Loosen the screw on the top cover plate in front of the recess and slide the cover plate in front of the recess (Fig. 6 and 7, page 14). Tighten the screw again (Fig. 6 and 7, page 14). Tighten the screw again.
3. Attach the condensation drain hose to the drainage plug (Fig. 2, Pos. 4) and secure it with a hose clamp.
4. Remove the hose with a slope (min 5%, ie 5cm / per meter) lead into a drain away from the dehumidifier.

## TRANSPORT AND INSTALLATION



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.

### 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.
2. Loosen the screw on the top cover plate and slide the cover plate in front of the recess. Tighten the screw again.

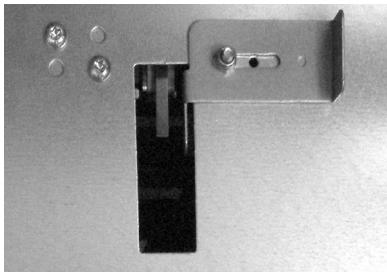


Fig. 6: Upper cover plate when using a water collecting container

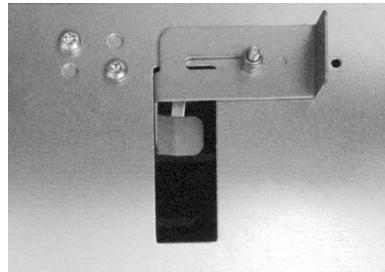


Fig. 7: Upper cover plate when using a pump kit or dew point kit

3. Loosen the screw at the lower cover plate ("Pump"). Slide the plate to the left.

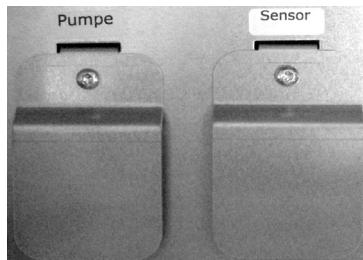


Fig. 8: Lower cover plates for pump kit or dew point kit

4. Connect the plug of the pump kit to the free slot.

## TRANSPORT AND INSTALLATION

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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.

## OPERATION AND CONTROL

### 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. 9: Control panel AD 5 and AD 6 series

1	Power consumption	6	On / Off
2	Current room humidity	7	Gradual fan setting
3	Target space humidity	8	Arrow for increasing room humid
4	Arrow for lowering room humidity	9	Operating hours
5	Info button	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. 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.

## OPERATION AND CONTROL

Climatic conditions of 20 - 25 ° C and 55 - 65% r.h. are 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		<b>Start</b> 45%      12345h  <b>Stop</b>  (flashes)
	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		<b>fan speed high</b>  <b>fan speed low</b>

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

## Setting the Language

Button	Press briefly	5 second press	Display
	Turn off the dehumidifier		Stop (flashes)
		Pull out the power plug and reconnect it before pressing.	
	Select your language (EN, DE, FRA, ITA, SWE, NOR, FIN)		deutsch
	Select your language (EN, DE, FRA, ITA, SWE, NOR, FIN) <i>Wait 3 sec until the flashing stops</i>		english
	Turn dehumidifier on again		

When the flashing (start) stops, the selected language is applied. The language cannot be changed during operation.

## 7 Maintenance and Care

**Risk of injury from electrical shock and imminent damage**

- ⇒ In case of maintenance work, always take note of the general safety regulations.
- ⇒ Turn off the dehumidifier before cleaning and inspect and unplug the power cord.
- ⇒ Inspection and work on the interior of the dehumidifier may only be performed by trained personnel.

**Risk of injury from sprayed particulates such as dirt from compressed air.**

- ⇒ When cleaning with compressed air, wear protective goggles!

## MAINTENANCE AND CARE

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**WARNING**

### Risk of injury from sharp-edges

- ⇒ Wear protective gloves when cleaning the heat exchanger.



**CAUTION**

### Equipment Damage

- ⇒ Cleaning agents can damage surfaces. Use only mild detergent.

## 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. Turn off the dehumidifier.
2. Pull out the power plug.
3. Remove the filter bracket.
4. Clean or replace the air filter.
5. Visually inspect: Water collection tank, outlet and the optionally connect drain hose.
6. Insert the new or cleaning filter. Use only original filter in order to ensure the proper functioning of the dehumidifier.
7. Insert filter bracket.
8. Insert power cord.
9. 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
Error	Sensor problem Loss of refrigerant Unclean filter Defective fan Defective compressor	Refer to the <b>AERIAL</b> service Refer to the <b>AERIAL</b> service Clean or replace the filter if necessary Refer to the <b>AERIAL</b> service Refer to the <b>AERIAL</b> service
Pump Fault	Defective pump	Refer to the <b>AERIAL</b> service
Empty Container	Water collection container full	Empty water collecting container
Room Temperature	Outside temperature for 2 min. <1 °C or > 35 °C	Device will start automatically again when temperature is between > 5 °C or <30 °C

## 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 hygrostat is reached.	The dehumidifier automatically turns on again after 5% of the set humidity is exceeded.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Severe icing on the cooling coil (evaporator). It forms a block of ice.	Incorrect ambient conditions or a faulty dehumidifier.	Refer to the <b>AERIAL</b> service.
The moisture content set on the hygrostat 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 hygrostat 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.

## DECOMMISSIONING, STORAGE AND DISPOSAL

### 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 (Page 16, 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.



#### Risk of injury

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



#### 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.

## DECOMMISSIONING, STORAGE AND DISPOSAL

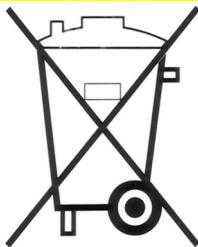
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Fig. 10: Dehumidifier AD 520 (also applies to AD 540) and the stacked AD 660

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### Disposal



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

## TECHNICAL DATA

### 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	m³ / h	250	500
Fan Speed 2	m³ / h	340	625
Power Consumption	Watt max.	400	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 (filling capacity)	kg	R134a (0,14)	R407C (0,35)
- GWP		1430	1774
- CO <sub>2</sub>	t	0,2	0,62

#### Dehumidification capacity / Power consumption:

30 °C / 80% r.h.	I / 24 h	19	34
	Watt	330	530
27 °C / 60% r.h.	I / 24 h	11	22
	Watt	295	430
20 °C / 60% r.h.	I / 24 h	8	16,6
	Watt	260	390
10 °C / 70% r.h.	I / 24 h	5	11,4
	Watt	210	330

## TECHNICAL DATA

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Type	Unit	AD 560	AD 660
Circulating Air Volume			
Fan Speed 1	m³ / h	425	
Fan Speed 2	m³ / h	700	
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 (filling capacity)	kg	R407C (0,55)	R407C (0,55)
- GWP		1774	1774
- CO <sub>2</sub>	t	0,975	0,975
Dehumidification capacity / Power consumption:			
30 °C / 80% r.h.	I / 24 h	60	
	Watt	810	
27 °C / 60% r.h.	I / 24 h	37	
	Watt	700	
20 °C / 60% r.h.	I / 24 h	26	
	Watt	550	
10 °C / 70% r.h.	I / 24 h	15	
	Watt	450	

## TECHNICAL DATA

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Type	Unit	AD 580	AD 680
Circulating Air Volume			
Fan Speed 1	m³ / h	600	
Fan Speed 2	m³ / h	886	
Power Consumption	Watt max.	1200	
Noise Level	dB (A)	65	
Dimensions H x W x D	mm	790 / 450 / 450	975 / 600 / 520
Weight	kg	40	45
Refrigerant (filling capacity)	kg	R410A (0,6)	R410A (0,6)
- GWP		2088	2088
- CO²	t	1,25	1,25
<b>Dehumidification capacity / Power consumption:</b>			
30 °C / 80% r.h.	I / 24 h	78	
	Watt	1070	
27 °C / 60% r.h.	I / 24 h	56	
	Watt	910	
20 °C / 60% r.h.	I / 24 h	40	
	Watt	740	
10 °C / 70% r.h.	I / 24 h	13	
	Watt	530	

## CE-DECLARATION OF CONFORMITY

### EU-Declaration of Conformity

#### **EU-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 2014/30/EU

Low Voltage Guidelines 2014/35/EU

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 55 014-1:2006 + A1: 2009 + A2:2011	Electromagnetic Compatibility (EMV)
	EN 61 000-3-2:2014	
	EN 61 000-3-3:2013	
	EN 60 335-2-40: 2014-01	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



Managing Director

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

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



Retailers Stamp:

A large, empty rectangular box with a thin black border, intended for a retailer's stamp or signature.

**AERIAL®**

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