

## II. EN - OPERATING INSTRUCTIONS

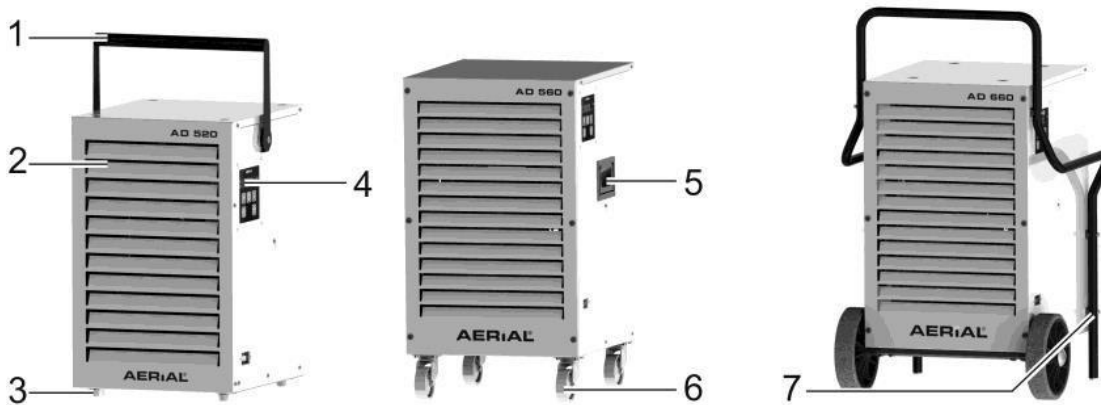
<b>1</b>	<b>Models</b>	<b>12</b>
<b>2</b>	<b>Product overview</b>	<b>13</b>
<b>3</b>	<b>Overview of control panel</b>	<b>14</b>
<b>4</b>	<b>About these operating instructions</b>	<b>15</b>
<b>5</b>	<b>Product description</b>	<b>15</b>
<b>6</b>	<b>Safety</b>	<b>15</b>
<b>7</b>	<b>Unpacking</b>	<b>16</b>
<b>8</b>	<b>Transport and connection</b>	<b>16</b>
<b>9</b>	<b>Operation</b>	<b>18</b>
<b>10</b>	<b>Maintenance and care</b>	<b>19</b>
<b>11</b>	<b>Troubleshooting</b>	<b>20</b>
<b>12</b>	<b>Decommissioning, storage and disposal</b>	<b>21</b>
	<b>EC Declaration of Conformity</b>	<b>21</b>

### 1 Models

These operating instructions relate to various models. The functions and operation are virtually identical. You can find out which model you have from the identification plate. Further information can be found in the Technical Data (page 128).

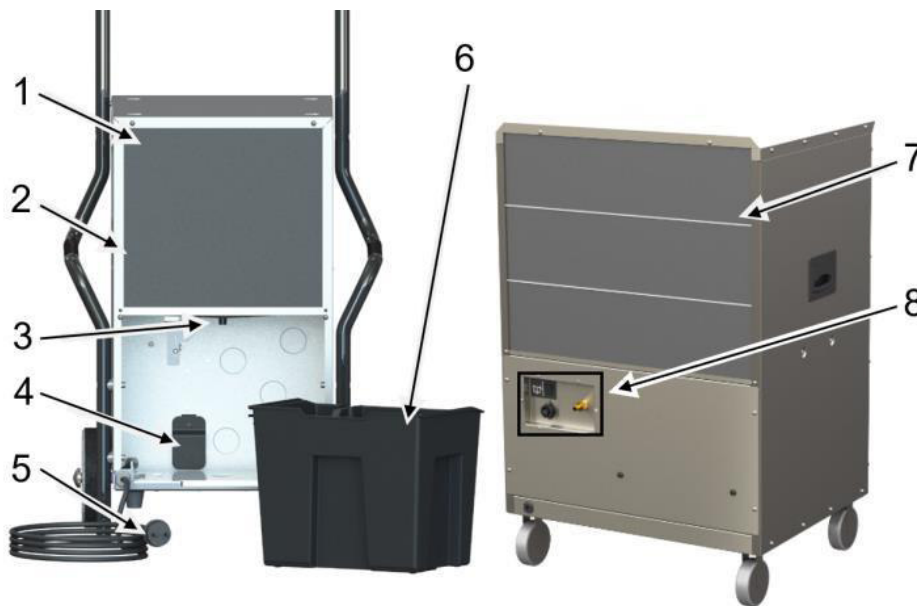
<b>Model</b>	<b>Main characteristics</b>
AD 520 / AD 540	Hinged handle; feet; 7.0 l basin
AD 560 / AD 580	Carry handles; 4 castors 14.0 l basin
AD 660 / AD 680	Frame; 2 large castors; 14.0 l basin
AD 810	Carry handles; 4 castors; built-in pump (no basin)

## 2 Product overview



**Fig. 1: Front view**

1	Hinged handle	5	Carry handle
2	Air outlet	6	Castors
3	Feet	7	Frame
4	Control panel		



**Fig. 2: Back view**






1	Room sensor (behind filter)	5	Mains plug
2	Air intake area with filter	6	Basin
3	Discharge nozzle for an optional discharge hose	7	Filter holder
4	Ports for pump kit/ Dew point kit (optional accessory)	8	Pump control section (AD 810 only) with Amphenol socket for dewpoint kit and connection nozzle

### 3 Overview of control panel



1	Load counter (MID) (not for AD 810, the counter for this is included in the display)
2	Actual room humidity
3	Target room humidity
4	Lower room humidity
5	Info button
6	On/off
7	Fan setting
8	Increase room humidity
9	Operating hours
10	Display

**Fig. 3: Overview of control panel**

Button	Press briefly	Press for 5s	Display						
	Lower/increase room humidity in 1% increments	Lower/increase room humidity in 5% increments							
	In the "Language" menu: select language								
	Switch dehumidifier on/off		<table border="1"> <tr> <td>Start</td> <td>45%</td> <td>12345 h</td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>	Start	45%	12345 h	Stop		
Start	45%	12345 h							
Stop									
	Change fan levels <b>Level 2:</b> Higher fan power <b>Level 1:</b> Lower fan power		<table border="1"> <tr> <td>fan speed high</td> </tr> <tr> <td>fan speed low</td> </tr> </table>	fan speed high	fan speed low				
fan speed high									
fan speed low									
	If the mains plug has been unplugged and plugged in again: displays language.		<table border="1"> <tr> <td>Language</td> </tr> <tr> <td>English</td> </tr> </table>	Language	English				
Language									
English									

## 4 About these operating instructions

These operating instructions must not be reproduced, duplicated or distributed without the written consent of the manufacturer.

**Important:** Read carefully before use. Keep for later reference.

## 5 Product description

The dehumidifier controls the air humidity in the room. The condensate water produced is collected in a basin or pumped away by an internal pump (AD 810 only). The dehumidifier has an automatic defrost function.

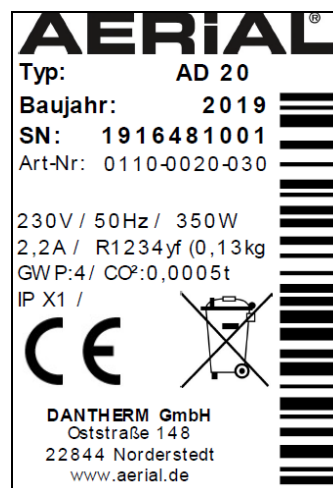
### Package contents

- Dehumidifier
- Basin (in appliance)
- Operating instructions
- AD 810 only: discharge hose 14 x 2 mm; quick connector, hose clamp 10-16 mm

### Optional accessories

- Pump kit
- Dewpoint kit
- Wall bracket for AD 520/540
- Discharge hose

## Identification plate



The identification plate is on the housing.

## 6 Safety

### Intended use and conditions of use

The dehumidifier is used to remove humidity from air where there is atmospheric pressure in closed indoor rooms, such as basements, garages or warehouses.

The dehumidifier must only be set up, used and stored in rooms with larger than 4 m<sup>2</sup>.

The dehumidifier must only be used in compliance with the Technical Data (page 128).

Persons with physical, sensory or mental restrictions and children are not permitted to use the dehumidifier.

Every user must have read and understood the operating instructions.

### Foreseeable misuse

The dehumidifier must not be used:

- In rooms with potentially explosive atmospheres.
- In rooms with an aggressive atmosphere (e.g. caused by chemicals).
- In rooms with water with a pH value below 7.0 or above 7.4.

- In rooms with salt or liquids with a salt content > 1%, e.g. brine baths.
- In rooms with ozone-treated air, high solvent concentrations or high dust pollution.

### General safety information

#### **WARNING! Risk of explosion, burns and poisoning from refrigerants!**

The appliance contains an odourless, flammable refrigerant which, if handled incorrectly, could result in explosions and fire as well as injuries and burns. The refrigerant circuit is pressurised.

- Do not use any objects to accelerate the thawing process.
- Do not store the dehumidifier in rooms with permanent sources of ignition, such as open flames, operational gas appliances or electric heaters.
- Do not drill open or ignite dehumidifiers.
- Only operate the appliance in a room larger than 4 m<sup>2</sup>.
- Any work to the refrigerant circuit must be performed by the manufacturer or the manufacturer's authorised technical personnel. Before working on the refrigerant circuit, it must be depressurised using the designated mechanisms.
- Observe the national regulations for gas installations.
- Do not dump refrigerants or dispose of them as household waste.
- Avoid coming into contact with the refrigerant.

#### **WARNING! Electrocutation!**

Working on live components or water on live components can cause life-threatening electrocution.

- Avoid contact between water and live components.

- Always switch off and unplug the dehumidifier before moving it to another location.
- Always empty the water collection container before moving it to another location.
- Only allow the manufacturer or authorised personnel to carry out work on electric components.

## 7 Unpacking

### Procedure

1. Check that the package contents are complete. Contact your stockist in the event of damage or missing contents.
2. Remove the packaging and dispose of it in accordance with local regulations.

## 8 Transport and connection

### Transport

#### **WARNING! Crushing as a result of instability!**

- Transport the dehumidifier in an upright position and secure it so that it cannot tip over or slip.
- Position the dehumidifier on a stable, even surface.

#### **WARNING! Crushing or cutting from reaching into the grille of the air filter!**

- Use the handles to transport the dehumidifier.
- Do not reach into the air filter.

#### **CAUTION! Crushing or ergonomic damage when transporting the dehumidifier!**

- Use the handles to transport the dehumidifier.
- Heavy appliances should always be transported by two people.

## Procedure

1. Make sure that the basin is empty / the condensate water has been pumped out .
2. Make sure that the discharge hose (optional) and the mains cable have been disconnected from the appliance.
3. Release the brakes on the castors.
4. Transport the dehumidifier to where it is going to be used.  
Heavy appliances that do not have castors/wheels should be carried by two people.
5. Lock the brakes on the castors to secure the appliance.

**NOTE:** The air must circulate freely. Do not cover the air openings. There must be a clearance of at least 1 m in front of the air outlet and the air filter.

### Preparing the basin

Does not apply to the AD 810 or if an optional discharge hose is connected.

## Procedure

Slide the basin into the dehumidifier.

: Connecting the discharge hose

With the AD 810 it is essential to connect the discharge hose provided.

### **Important! Inadequate appliance output!**

- Do not bend the discharge hose.
- Do not place any objects on the hose.

## Procedure

1. Attach the quick connector to the discharge hose and secure using the hose clamp.
2. Attach the discharge hose provided to the back of the appliance at the connection nozzle.

3. Run the discharge hose away from the dehumidifier to a drain or into a suitable container (maximum height difference: 4 m).

### Connecting an optional discharge hose

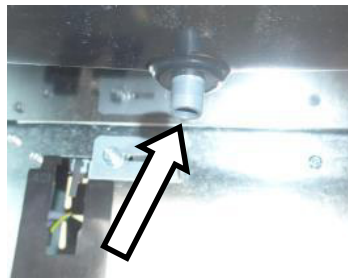
If necessary, with all appliances (except for AD 810) the condensate water can be drained off via a discharge hose instead of into the basin. To do this, proceed as follows:

### **Important! Inadequate appliance output!**

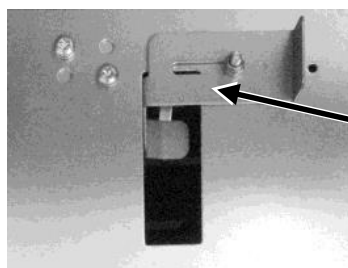
- Do not place the end of the hose in the water (backwater possible).
- Do not bend the discharge hose.
- Do not place any objects on the hose.

## Procedure

1. Remove the basin.
2. Attach a suitable hose (12 x 2 mm) to the discharge nozzle using a pipe clip.



3. Make sure that the end of the hose is lower than the start of the hose at the discharge nozzle. Minimum slope of 5% (5 cm/metre).
4. Slide the top cover sheet in front of the notch. To do this, loosen the screw on the cover sheet and slide the cover sheet to the left.



- Run the end of the hose into a drain or a suitable container.

## Electrical connection




### Procedure

- Make sure that the supply voltage is the same as the connection voltage in the technical data.
- Provide an adequate fuse for the socket and the power supply.
- Install an earth leakage circuit breaker in damp rooms and building sites.
- Make sure that the mains plug is suitable for the socket of the building.
- Make sure that the socket used is earthed.
- Plug the mains plug into the socket.

## 9 Operation

### Setting the language

#### Procedure

- Make sure that the dehumidifier is switched off and the mains plug is pulled out.
- Plug in the mains plug.
- Hold the  key down for 5 seconds.
- The display will show the current language.
- Set the desired language using the arrow keys  .
- Wait 3 seconds until the selected language stops flashing.

The language cannot be changed during operation.

### Dehumidifying the room




**NOTE:** Allow the dehumidifier to rest in its final position for approx. 15 minutes before starting up, after transport and after prolonged storage.

### Procedure

- Make sure that the condensate water can drain off through a discharge hose or into the basin.

- Press the  key.

“Start” will flash in the display. The dehumidifier will start operating. Operation is not possible when “Stop” or “Start” is flashing.

- Set the desired humidity using the arrow keys  . The dehumidifier will only start if the actual room humidity is higher than the target room humidity.
- Select the fan level. To do this, press the  key.

The dehumidifier runs until the target room humidity has been reached or the basin is full, then it will stop running.

### Emptying the basin

The display indicates “Watertank Full”.

#### Procedure

- Empty the basin.

### Humidity reached

The display indicates “Humidity O.K.”. The set target room humidity is lower than actual room humidity.

#### Procedure

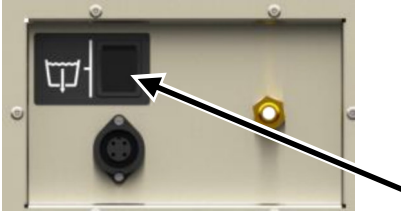
If necessary, reduce the target room humidity or set to continuous operation (continuous operation 31% to 70%).

### AD 810: Pumping out water

The condensate water can be pumped away if necessary as follows:


## Procedure

1. Make sure that the discharge hose runs into a drain or suitable container.
2. Switch on the pump at the pump control section. To do this, press and hold the toggle switch until the condensate water has been pumped away.



## Switching off

### Procedure

1. Empty the basin or pump water out of AD 810 if necessary.
2. Press the  key.

## 10 Maintenance and care

### **WARNING! Damage to health from dust!**

- Only clean the dehumidifier and filter with compressed air in open spaces.
- Wear a protective mask and goggles.

### **Important! Damage to property!**

- Cleaning agents can damage surfaces. Only use mild detergents.
- Only use approved original spare parts.

## Cleaning and inspection

### Procedure

1. Switch off the dehumidifier.
2. Unplug the mains plug.
3. Remove and clean the air filter (e.g. with vacuum cleaner) or replace it.
4. Check the discharge nozzle and discharge hose, if connected.
5. Insert a new or clean filter. Only use an original filter.
6. Plug in the mains cable.
7. Switch on the dehumidifier if necessary.

## Spare parts and customer service

If you have any questions about the dehumidifier or require spare parts, contact your authorised dealer or AERIAL Service.



## 11 Troubleshooting

Please check the following points in the event of a fault. If necessary contact AERIAL Service.

**WARNING!** Poisoning from refrigerant, burns, crushing or electrocution during maintenance work!

- Only allow the manufacturer or authorised personnel to carry out repairs and maintenance work.
- In the event of malfunctions, switch off the dehumidifier and secure it so that it cannot be switched back on again.
- Allow any hot components to cool sufficiently before working on them.

### Error messages

Display message	Possible cause	Remedial action
Error	Filter dirty.	Clean the filter or replace if necessary.
	Appliance faulty.	Contact AERIAL Service.
Pump def	Pump faulty.	Contact AERIAL Service.
Room temp 35 °C	Outside temperature < 1°C or > 34°C (high) or < 1°C or > 31°C (low)	Appliance will automatically restart as soon as the temperature is > 5°C or < 30°C.
Sensor error	Room sensor faulty	Contact AERIAL Service.

### Faults

Problem	Possible cause	Remedial action
The dehumidifier is not performing well/removing moisture.	Air filter is dirty. The dehumidifier is not getting enough air. Dirty filters can damage the appliance in the long term.	Clean the filter or replace if necessary.
The dehumidifier is out of operation / fan and compressor are not working.	Dehumidifier is switched off.	Switch on the dehumidifier.
	There is no power supply to the dehumidifier.	Check the power supply.

## 12 Decommissioning, storage and disposal

### Decommissioning

#### Procedure

1. Switch off the dehumidifier.
2. Empty the basin or pump the water out (AD 810).
3. Unplug the mains plug.
4. Cover the dehumidifier with a cloth to protect it from dust.

### Storage

#### **CAUTION! Injury!**

- Do not stack more than two dehumidifiers on top of each other.
- The AD 810 is not stackable!
- Secure the dehumidifiers so that they do not fall over.

### Procedure

Store the dehumidifier between 0°C and +40°C.

### Disposal


#### **Important! Danger from materials and substances**

- Sort materials according to type and recycle in accordance with local regulations.
- When disposing of auxiliary and operating materials, observe the local regulations and information on the safety data sheets.



Do not dispose of the dehumidifier as household waste but rather in accordance with the legal regulations.

## EC Declaration of Conformity

EC Declaration of Conformity in accordance with Machinery Directive 2006/42/EC Appendix II 1.A			
Manufacturer: Dantherm Gmbh	Oststrasse 148	22844 Norderstedt	
Product: Dehumidifier	Blue Dry		
Product no.: AD 520AD 540/AD560/AD580/AD660/AD680/AD810			
Functional description: The dehumidifier is used to remove humidity from air where there is atmospheric pressure in closed rooms.			
We hereby confirm that the product complies with the relevant provisions of the following directives:			
<ul style="list-style-type: none"> <li>▪ 2006/42/EG Machinery directive</li> <li>▪ 2014/30/EU Directive on electromagnetic compatibility (EMC)</li> </ul>			
The following harmonised standards have been applied:			
EN 60335-1:2012	EN 60335-2-40:2003	EN 60204-1:2006	EN378-2:2016
Person authorised to compile the technical documentation:			
Manfred Föhlisch - Oststrasse 148 - 22844 Norderstedt			
Norderstedt, 16 October 2019		 Manfred Föhlisch - Managing Director	