

INSTRUCTION MANUAL

Air dehumidifier

Series AD 750 / AD 750-P / AD 780-P



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The instruction manual is based on the technical and product-specific parameters. The manufacturer reserves the right to add supplementary information to the instruction manual.

Any use of the dehumidifier outside the specified conditions and contrary to its designated use shall lead to the forfeiture of all guarantee claims.

As of: 05_2018

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1 Notes on this instruction manual

This instruction manual is part of the product. It contains important information on how to transport, install, operate, store and dispose of the air dehumidifier manufactured by **AERIAL** properly and safely. Therefore keep this instruction manual in a safe place. In the section below you will find information about the target groups of this instruction manual and the conventions used in this document.

Target groups

This instruction manual addresses all users / operators of the air dehumidifiers manufactured by **AERIAL**. These persons must have read and understood the instruction manual. The physical and psychological requirements for proper and safety-conscious handling of the dehumidifiers must always be met.

Conventions

In this instruction manual you will find notes preceding the operating steps described to warn you of possible hazards.



Type and source of hazard

This symbol in connection with the word "Danger" warns of a high risk of severe injury or acute danger to life.

- ➔ Measures to avert danger or immediate measures if the risk occurs are described in this way



Type and source of hazard

This symbol in connection with the word "Warning" warns of a risk involving severe injury.

- ➔ Measures to avert danger or immediate measures if the risk occurs are described in this way



Type and source of hazard

This symbol in connection with the word "Caution" warns of a risk of minor or moderate injury and material damage.

- ➔ Measures to avert danger or immediate measures if the risk occurs are described in this way



In this box you find further tips and information concerning the use of the air dehumidifiers.

2 Safety

Safety devices

The air dehumidifier AD 750 / AD 750-P / AD 780-P was subjected to thorough safety testing. Improper operation or misuse will cause danger to:

- the operator,
- the machine and other material property of the user,
- efficient operation of the machine.

All persons involved in the installation, commissioning, operation, maintenance and repair of the air dehumidifiers must

- be properly qualified,
- closely observe the instructions set out in this manual.

Hazards from accessories

Waste water hoses and air filters must be properly installed and must not disable the protection devices of the air dehumidifiers. The operating elements must always be accessible.

Authorized operator

Operation of or other work on the air dehumidifier may only be carried out by persons commissioned and instructed by the user. In the working area the operator is responsible to third parties.

Responsibilities for the various activities on the air dehumidifiers must be clearly defined and observed. Unclear competencies are a safety risk.

The user must:

- make the instruction manual accessible to the operator and
- make sure that the operator has read and understood the instruction manual.

Safety instructions

The air dehumidifier must **not** be used under the following conditions:

- in rooms with potentially explosive atmospheres.
- in rooms with aggressive atmospheres, e.g. ammonia, wood acids, chemicals, excessive chlorine content etc.
- in rooms with water with a pH value outside the range from 7.0 to 7.4.



In case of lower pH values there is risk of corrosion for all metals and risk of damage to mortar-containing materials (joints). Higher pH values cause skin and mucous membrane irritations and increased lime deposits.

- in rooms with salt or liquids with a salt content > 1% (incl. brine baths).
- in rooms with ozone-treated air.
- in rooms with high solvent concentration.
- in rooms with extreme dust load.



Please note that excessive air movements in the room may impair the function of the air dehumidifier because they could disturb the air flow of the dehumidifier.

In addition the following must be observed when using the air dehumidifier:

- Work on electrical equipment may only be carried out by skilled electricians.
- Original spare parts or spare parts approved by the manufacturer shall exclusively be used.
- In the event of any malfunction the air dehumidifier must be switched off and secured against unintended restarting.

3 Performance description

You bought an air dehumidifier manufactured by **AERIAL** and thus decided for a well-proven product "Made in Germany".

Designated use

The air dehumidifiers are designed exclusively for dehumidifying air at atmospheric pressure.

The air dehumidifier can prevent the formation of condensation water, remove excessive humidity and keep humidity at a defined constant level.

Operating the dehumidifiers within the limits of designated use also involves observing the specified operating conditions (refer to page 9).

Any use of the air dehumidifier not in conformity with or going beyond the designated use is considered contrary to its designated use and will result in the forfeiture of all warranty claims.



The operating time of the air dehumidifier until drying of the room and the humidity to be reached depend largely on the ambient conditions in the room in which the air dehumidifier is installed.

Scope of delivery

- Air dehumidifier
- One instruction manual

Device description

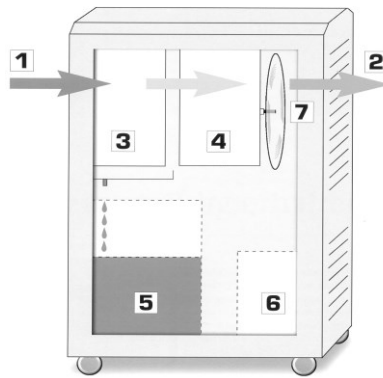


Fig. 1: Air dehumidifier AD 750 / AD 750-P / AD 780-P

1	Moist indoor air	5	Water bucket
2	Dry air	6	Compressor
3	Evaporator	7	Fan
4	Condenser		

The AD air dehumidifier is intended exclusively for air dehumidification in closed rooms. The air dehumidifier can prevent the formation of condensation water, remove excessive humidity and keep humidity at a defined constant level. The operating time of the air dehumidifier until drying of the room and the humidity to be reached depend largely on the ambient conditions in the room in which the device is installed.

The AD air dehumidifier works on the principle of condensation with heat recovery. The fan draws the moist air in through a cooling coil (evaporator). In the cooling coil the air is cooled so far below the dew point that the water steam of the air condenses and flows into a water collecting tank. The cooled and dried air is re-heated at the condenser. Due to the heat pump effect the output air is a few degrees warmer than the room air drawn in. The resulting energy gain can reach 3 times the electrical energy consumption.

Permanent circulation of the room air through the device continuously reduces the absolute humidity of the air. The excessive humidity is removed gently and excessively.

4 Transport and installation

Transport



Danger to life due to electric shock!

Touching live parts can lead to death. Spillage of condensate on live parts can cause electric shock.

- Switch off the air dehumidifier via the On/Off switch, and disconnect the power plug from the socket outlet before moving the unit.
- Empty the water collecting tank!



Crushing hazard due to loss of stability when used on uneven surfaces or ramps, uncontrolled rolling-off, slipping or tipping-over!

Loss of stability or uncontrolled movements may cause serious injuries and material damage.

- The air dehumidifier should be transported upright.
- Always secure the air dehumidifier against tipping or slipping.
- Always place the device on a level and firm surface.
- For models with castors or wheels use, if required, additional devices to prevent uncontrolled rolling-off.
- Avoid use on ramps or inclined planes; use suitable equipment to prevent tipping, slipping or rolling.



Danger of injury due to unfavourable posture and high weight!

The air dehumidifier is heavy.

- Lift the device with a colleague or use suitable lifting and transport equipment, as required.



Material damage!

Pulling the power cable may damage the cable.

- Always disconnect the power plug from the socket outlet before transport.
- Always use the carrying handles to transport the air dehumidifier.
- Free air circulation must be ensured. The air openings – also the rear and lateral openings – must not be covered. The free space in front of the lamellae and air filter must be at least 1 meter; however, for optimum air circulation in the room it should be considerably larger.

1. Report any obvious damage to the carrier, parcel service, postal service etc. immediately on delivery and note down the damage on the shipping document or carrier's document.
2. Remove the packaging material completely and dispose of according to the local regulations.
3. Check the delivery (refer to Scope of delivery, page 5) for completeness.
4. Should any transport damage be detected after unpacking of the air dehumidifier, or should the delivery be incomplete, contact your salesman in charge or specialized dealer without delay.



We recommend to keep the packaging to ensure safe shipment of the air dehumidifier in case of any warranty claim.

TRANSPORT AND INSTALLATION

5. Use the carrying handles to transport the air dehumidifier to the place of installation.

Installation

Proceed as follows to install and transport the air dehumidifier:

1. Install the air dehumidifier in a place in conformity with the operating conditions on a flat surface (see below).
2. Ensure that the condensate can always be reliably collected or discharged.

Operating conditions

Series AD 7 air dehumidifiers are suitable for use on building sites, in water works, residential buildings, indoor swimming pools, garages and storage rooms. AD air dehumidifiers work without problems in the temperature range from +3 to +32 °C and at a relative humidity in the range from 40% to 95% r.h.

Optionally the device can be supplied with an integrated ThermoLogic (optional special equipment). This system will automatically switch off the appliance in case of impermissible temperatures, and automatically switch it on again when permissible temperatures are reached.

Using the appliance in rooms with higher temperatures will cause damage to the compressor. Using the appliance in rooms with lower temperatures is inefficient and can result in icing.

Storage of the dehumidifier at impermissible temperature conditions can result in damage / problems in case of immediate switching-on. Therefore allow the appliance to adjust to the temperature before switching it on. The suitable location for the air dehumidifier features:

- 230 V / 50 Hz power outlet
- Flat ground
- Free space of 1 meter minimum in front of the air outlet lamellae and air filter, better more!

Select the location in a way to ensure optimum circulation of the dehumidifier air in your room. The free space in front of the lamellae and the air filter must be at least 1 metre. The air dehumidifier must be installed on a flat ground.



By using an air dehumidifier humidity values of 30% r. h. can be reached. If lower values are required an adsorption dryer must be used. Ask your technical advisor.

In case of doubts about the operating conditions your technical advisor can help you.

Electrical connection



DANGER

Danger to life due to electric shock!

- ⇒ Prior to commissioning the technical data of the air dehumidifier must be compared with the conditions prevailing in the room of installation!

The following items must be checked prior to electrical connection of the air dehumidifier:

- The mains voltage must be in conformity with the voltage of the air dehumidifier!
- Socket outlet and supply system must be sufficiently fused!
- If indoor swimming pools or damp locations are concerned, has an RCCB been installed?
- In damp locations or on building sites a residual current circuit breaker must be installed!
- The appliance coupler must be suitable for the building socket outlet!
- The socket outlet used must be grounded properly!

Connect the power cable to the power outlet.

Condensate drain 750

Standard equipment of the air dehumidifier AD 750 comprises a collecting tank (12 l) and a 15 mm connection for the drain hose.

The water bucket is located on a rocker in the appliance. The rocker is actuated by the weight of the full bucket, and the device is switched off. Switch the appliance off using the On / Off switch, and empty the water bucket. After the water bucket has been put back into the appliance switch the appliance on again.

TRANSPORT AND INSTALLATION

A 15 mm connection pipe is located above the water bucket. Remove the water bucket if you want to discharge the condensate produced directly into an outlet. Attach a 15 mm hose to the drain pipe and secure it using a hose clip. Proceed carefully in order not to break the drain pipe out of the condensate pan.

Lay the hose with a slope (min. 5 cm / per metre) from the appliance to the outlet.

Condensate drain 780

The air dehumidifiers AD 750-P and AD 780-P come with a condensate pump as standard. Description: refer to next section



Ensure that the condensate can always be reliably collected.

Condensate pump

Appliances with an integrated condensate pump are provided with a connection pipe for a 12 mm single-hand plug or hose on the rear panel.

In addition there is a red button on the rear panel. This button is used to empty the pump manually, for example before transport of the device.

We recommend to empty the pump whenever the air dehumidifier is to be transported, because otherwise water may flow out when the device is tilted.

The integrated pump can pump the condensate up to 4 metres max. above the dehumidifier.

The pump has its own water reservoir, i.e. only when a defined water level is reached the pumping process is automatically started.

In case of a pump fault (= critical water level in the water reservoir is exceeded) the complete dehumidifier is switched off as a precaution. (red pilot lamp – see chapter 5 Operation and operator control, page 13).

Automatic defrosting

In the dehumidification mode ice may build up on the evaporator. The volume of ice depends on the ambient conditions in the room to be dehumidified.

The dehumidifier is equipped with an automatic hot-gas defrosting system. This causes automatic defrosting of the appliance depending on the extent of ice build-up according to the following principle:

- The temperature sensor monitors the status in a critical area of the evaporator.
- It transmits the defrost signal to the DryLogic which will determine the defrosting demand and automatically start the defrost cycle. During the defrost cycle the compressor continues to run whereas the fan is stationary.

Subsequently the air dehumidifier resumes work in the standard dehumidification mode.

5 Operation and operator control



Danger of injury and damage to appliance

Inadmissible ambient conditions or improper operation of the air dehumidifier may constitute a risk.

- ➔ Read the instruction manual before commissioning the air dehumidifier.

Operating elements and operation

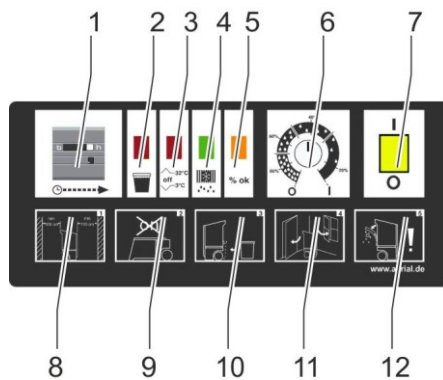


Fig.2: Operating panel AD 750 / AD 750-P and AD 780-P

OPERATION AND OPERATOR CONTROL

1	Operating hours counter	7	On / Off switch
2	red pilot lamp: on AD 750 = appliance has switched off, because water bucket full. on AD 780-P or AD 750-P with pump = fault on condensate pump, appliance has switched off.	8	Note: Observe distance in front of air inlet and outlet.
3	red pilot lamp (optional) = ThermoLogic (opt. extra) has switched off. The ThermoLogic will switch the appliance off when the temperature is outside the permissible range (temperature < +3°C, or temperature > +32°C) and switch it on again when a permissible temperature is reached.	9	Note: Operate appliance only in upright position.
4	green pilot lamp (standard) = appliance is in defrost mode, i.e. the compressor remains in operation while the fan is stationary. (hot-gas defrosting system)	10	Note: Ensure that the condensate is discharged into a tank or drain.
5	orange pilot lamp (standard) = The appliance has switched off because the relative humidity set on the hygrostat has been reached.	11	Note: Close windows and doors during dehumidification.
6	Hygrostat	12	Note: Check and clean air filter regularly!



The operating hours counter must not be used for billing the power consumption. The kWh display of the MID counter HW 66 M is calibrated and can be used for billing.

Hygrostat control

The series AD 7 air dehumidifiers are equipped with a hygrostat on which a desired humidity value can be set. This will cause the air dehumidifier to switch on when the ambient humidity is above the set value. When the humidity drops below this value the appliance will switch off. The hygrostat is arranged in the top part of the operating panel.

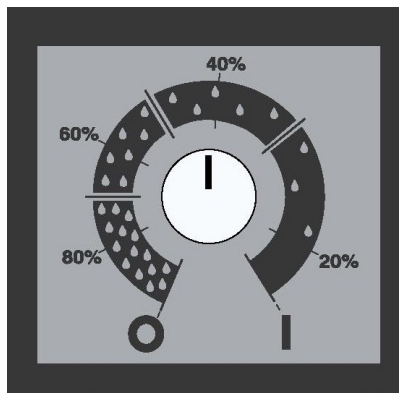


Fig. 3: Operating panel

Pos. 0	Appliance is switched off	60%	The dehumidifier will switch off at a relative humidity of approx. 60%, and switch on again when a humidity of 60% is exceeded.
Pos. 1	Appliance operates in continuous mode	40%	The dehumidifier will switch off at a relative humidity of about 40%, and switch on again when a humidity of 40% is exceeded.
80%	The dehumidifier will switch off at a relative humidity of approx. 80%, and switch on again when a humidity of 80% is exceeded.	20%	The dehumidifier will switch off at a relative humidity of approx. 20%, and switch on again when a humidity of 20% is exceeded.

Continuous adjustment of the hygostat allows for easy humidity control. If very precise setting values are required, use a hygrometer with a precise humidity display to set the hygostat.

Please note:

By using a condensation dryer humidity values of 40 – 45% r. h. minimum can be reached. If lower values are required an adsorption dryer must be used.

Contact your technical advisor.

Comfortable ambient climate:

For living space, climate conditions of 20 – 25 °C and 50 – 60% r. h. are recommended. For quick building drying the hygostat is set to continuous operation (Max pos.). For drying and keeping rooms with wood furnishing (e. g. parquet flooring) or paintings, antiques etc. dry, a minimum humidity of 55 – 60% must be observed.

In case of doubt please contact your technical advisor.

External humidity control (optional):

Optionally the AD 7 series is available with connection facility for external On/Off control, for example via a dew point sensor or an external hygostat.

In this case the appliance will be equipped with our SensorLogic providing a potential-free contact and a supply voltage of 24 V.

Instead of the hygostat, an Amphenol socket is arranged in the operating panel. With the suitable Amphenol connector (accessory) your external control can be easily connected.

Commissioning

The air dehumidifier must have been properly installed and connected before it can be commissioned.



Before commissioning the air dehumidifier allow it to rest in its final position for about 15 minutes after transport. During this time, the oil distributed in the cooling system and churned up by transport will flow back to the compressor. This procedure will extend the service life of the compressor.

OPERATION AND OPERATOR CONTROL

1. Connect the power cable to the power outlet.
2. Check whether the water bucket (AD 750) is installed in the appliance or the drain hose (standard on AD 780, optional on D 750) has been properly fitted and laid to an external collecting vessel or an outlet.
3. Set desired humidity value on hygostat (see hygostat control, page 14).
4. Press the On/Off button (item 7) on the operating panel. If the air dehumidifier has been correctly connected and the existing humidity is higher than the set humidity value, the air dehumidifier will start to work.

Automatic defrosting:

During dehumidification ice may build up on the evaporator. The volume of ice depends on the ambient conditions in the room to be dehumidified.

The air dehumidifier features automatic hot-gas defrosting. If the evaporator ices, the unit will defrost automatically. After defrosting the air dehumidifier works again in the standard dehumidification mode.



For living space, climate conditions of 20 – 25 °C and 55 – 65% r. h. are recommended. For quick building drying the hygostat is set to continuous operation.

For drying and keeping rooms with wood furnishing (e. g. parquet flooring) or paintings, antiques etc. dry, a minimum moisture of 55 – 60% must be observed.

In case of doubt please contact your technical advisor.

6 Maintenance and service



Danger of injury by electric shock and risk of material damage!

- Always observe the general safety instructions when performing any maintenance and service work!
- Switch the air dehumidifier off and pull the power plug before cleaning and inspection.
- Entrust only trained expert staff with inspection and any work inside the air dehumidifier.



Danger of burns due to contact with hot surfaces of the cooling circuit!

- Work on inside components may only be carried out by the manufacturer or personnel authorised by the manufacturer.



Danger of suffocation due to refrigerant leakage in closed rooms during maintenance work!

- Work on inside components may only be carried out by the manufacturer or personnel authorised by the manufacturer.



Dust hazard!

During cleaning with compressed air dust is released into the atmosphere.

- Clean foam filter from outside and inside with a vacuum cleaner, if necessary wash and dry it.
- Clean the device with compressed air only in an open environment;
- wear protective mask and protective goggles during this work.



WARNING

Danger of cuts from the rotating fan blade and grilles during maintenance!

- Do not reach into the air inlet and outlet grilles on the rear and front of the device.
- Repairs or maintenance work may only be carried out by the manufacturer or personnel authorised by the manufacturer.



WARNING

Danger of injury due to flammability of the refrigerant and danger of poisoning due to toxicity!

- Maintenance and repair work may only be carried out by the manufacturer or personnel authorised by the manufacturer.



CAUTION

Damage to the device

- Cleaning agents can cause damage to surfaces. Use only mild detergents.

Cleaning and inspection

The cleaning intervals depend largely on the operating conditions. Therefore check your air dehumidifier regularly.

In order to guarantee trouble-free functioning of the air dehumidifier also in continuous operation the air dehumidifier - in particular the air filter - must be checked and cleaned at regular intervals.

Proceed as follows:

1. Switch air dehumidifier off.
2. Pull the power plug.
3. Remove filter holder.
4. Clean the air filter, if necessary replace it.
5. Remove front panel.
6. Clean device carefully with compressed air (wear protective goggles!). Make sure to clean all components (compressor, heat exchanger etc.).
7. Visual inspection: collecting bucket, drain pipe and connected hose, if any.
8. Mount front panel.
9. Clean casing on the outside with a moist cloth (please do not use any aggressive detergent!).
10. Insert new or cleaned filter. Use only original filters to guarantee proper functioning of the air dehumidifier.
11. Insert filter holder.
12. Connect power cable.
13. Switch air dehumidifier on.

The air dehumidifier is ready for operation again and can be switched on by the On / Off switch, if required.

This cleaning procedure must be performed regularly. When operated on building sites the appliance must be cleaned after each use; in case of longer operation filter cleaning must be performed at least 1 x per week.

Further maintenance work on the blower is not required.

Spare parts and customer service

If you have any question concerning the air dehumidifier, or if you need spare parts, please contact your authorized dealer or the customer service.

7 Troubleshooting

If problems arise with the dehumidifier please check the following points. Should the fault not be located please contact your technical advisor.



Danger of injury by electric shock and risk of material damage

- ➔ The air dehumidifier may only be repaired by trained specialized staff. Within the warranty period, any work on the dehumidifier shall only be carried out by the manufacturer or persons commissioned by the manufacturer. Any work carried out by unauthorized persons shall lead to the forfeiture of all warranty claims!

Troubleshooting

Problem	Possible meaning	Remedy
The dehumidifier shows poor or no humidification performance.	The ambient humidity is lower than 40% r. h. or the ambient temperature is less than +3 °C. Under these conditions operation of the dehumidifier is uneconomical.	We recommend to switch the dehumidifier off. Tip: set the integrated hygostat to an achievable value (e.g. to about 50% r. h.) to ensure that the dehumidifier will switch off in time in respect of the ambient humidity.

	<p>The air filter is severely soiled. The air flow is insufficient.</p>	<p>Clean the filter or insert a new one. In the long run, a soiled filter can cause damage to the dehumidifier. Tip: Check the filter regularly.</p>
<p>The fan of the dehumidifier is out of operation.</p>	<p>The appliance is in the defrost mode. In this case the compressor continues to run, and the red lamp in the operating panel lights up. After a few minutes, the dehumidifier will automatically re-start.</p>	<p>Wait a few minutes.</p>
<p>The appliance is out of operation / fan and compressor are not running.</p>	<p>Has the dehumidifier been switched on?</p>	<p>On/Off switch must be in pos. 1 and light up.</p>
	<p>Is the dehumidifier supplied with power?</p>	<p>On/Off switch must light up be in pos. 1. Check the power cable, any extension cable used, the plug socket and the building fusing.</p>
	<p>The humidity set on the hygrostat has been reached. The dehumidifier will automatically re-start when the set humidity is exceeded.</p>	<p>Wait.</p>

TROUBLESHOOTING

	<p>Only on appliances with optional >>Thermal shutdown system "Thermologic"<< (= red lamp in operating panel): The temperature in the room is $< +3^{\circ}\text{C}$ or $> +32^{\circ}\text{C}$. The red lamp (see Operation and operator control, page 13) lights up. The appliance will re-start when a permissible temperature is reached.</p>	Wait.
	<p>Only on AD 750 >>Water bucket is full<< The red lamp (see Operation and operator control, page 13) lights up. Empty the water bucket and re-insert it into the appliance (see Condensate drain 750, page 10).</p>	Wait.

<p>Severe icing of cooling coil (evaporator). An ice block builds up.</p>	<p>Ambient temperature too low.</p>	<p>Place the dehumidifier in a room with a minimum room temperature of +10 °C, and allow it to defrost completely. Then switch the appliance on and let it run for about 3 hours. Should a new ice block build up, please contact your supplier. Make sure to operate the appliance only in rooms with a minimum temperature of +3 °C. Damage to the appliance may also occur if the appliance is immediately switched on after storage in colder environments.</p>
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TROUBLESHOOTING

The humidity set on the hygostat is not reached or the appliance does not automatically switch off.	Has the hygostat been set to a value below 45% r.h.? Depending on the ambient conditions a dehumidifier can reach a minimum value of 40 – 45% r. h.	Set the integrated hygostat to an achievable value (e. g. to about 50% r. h.) to ensure that the dehumidifier will switch off in time.
	Is the appliance sufficiently dimensioned for the application? The air exchange rate, the number of persons in the room and any open water surfaces are decisive for the humidity load of the room.	Ask your specialised dealer to calculate the capacity required for your application.
	Is there a lot of moisture in the walls, the floor etc. ? In this case the dehumidifier will need some time to remove the water and achieve an acceptable value in the room.	Wait.

8 Shutdown, storage and disposal

Shutdown

If you do not need the air dehumidifier for a longer period of time you can shut it down for some time. To do so proceed as follows:

1. Use the On/Off button (see fig. 2 and fig. 3, item 7 on page 13) to switch the air dehumidifier off.
2. Pull the power plug.
3. If necessary, cover the air dehumidifier with a cloth to protect it from dust.

Storage

To store a single air dehumidifier we recommend to proceed as follows:

1. Package the air dehumidifier using cardboard.
2. Store the air dehumidifier in conformity with the specified operating conditions (refer to page 9).

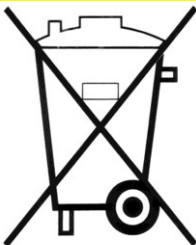
The air dehumidifier can be stacked for storage.



Danger of injury

- ⇒ Never stack more than two air dehumidifiers.
- ⇒ Always secure the air dehumidifiers against tipping.

Disposal



Please do not dispose of this air dehumidifier with the domestic waste. Dispose of this air dehumidifier in accordance with the legal regulations.

SPECIFICATIONS

9 Specifications



Many different components installed in an air dehumidifier decide on its dehumidifying performance.

Since these components can never be completely identical the actual performance according to DIN EN 810 may deviate by up to 5% from the specified performance.

General data		
Power supply	230 V / 50 Hz	
Protection class	IP X4	
Protection for indoor swimming pools	RCCB to be installed by user	
Operating conditions	+ 3 °C to + 32 °C	40% r. h. to 95% r. h.

Type	Unit	AD 750 / AD 750-P	AD780-P
Air circulation rate	cbm/h	820	820
Power consumption	watt max.	1,250	1,250
Noise level	dB (A)	55	55
Refrigerant (for filling quantity refer to type plate)		R407c	R407c
Dehumidifying performance / power consumption at			
30 °C / 80% r. h.	l/24h watt	55.0 900	78.0 1250
27 °C / 60% r. h.	l/24h watt	34.1 780	52.0 1090
20°C / 60% r.h.	l/24h watt	24.5 660	35.0 900
10°C / 70% r.h.	l/24h watt	14.0 550	20.0 720
Dimension	mm	880 x 520 x 495	1000 x 640 x 580
Weight	kg	42	57

10 EC Declaration of Conformity

EC Declaration of Conformity

according to EC machinery directive 2006/42/EC, Annex II, 1.A

Manufacturer

Dantherm GmbH
Oststrasse 148
D - 22844 Norderstedt

Person established within the Community who is authorised to compile the technical documents

Manfred Föhlich
Dantherm GmbH
Oststrasse 148
D - 22844 Norderstedt

Description and identification of the machine

Product	Air dehumidifier
Type	AD750 - AD750-P - AD780-P
Project number	Aerial AD750 - AD750-P - AD780-P
Function	<p>The air dehumidifier serves for dehumidifying air at atmospheric pressure in enclosed indoor rooms. It can prevent the formation of condensation water, remove excessive humidity and keep humidity at a defined constant level.</p> <p>The air dehumidifier is intended for mobile or stationary use in indoor areas, on building sites, in water works, indoor swimming pools, garages and storage rooms.</p>

It is expressly declared that the machine is in conformity with all relevant provisions of the following EC directives or regulations:

2006/42/EC	<p>Directive 2006/42/EC of the European Parliament and of the Council of May 17, 2006 on machinery and amending Directive 95/16/EC (revised version)(1)</p> <p>Published in in L 157/24 dated 09-06-2006</p>
2014/35/EU	<p>Directive 2014/35/EU of the European Parliament and of the Council of February 26, 2014 on the harmonisation of the laws of the Member States relating to the making available of electrical equipment designed for use within certain voltage limits on the market</p> <p>Published in in L 96/357 dated 29-03-2014</p>

EC DECLARATION OF CONFORMITY

2014/30/EU Directive 2014/30/EU of the European Parliament and of the Council of February 26, 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (revised version)
Published in in L 96/79 dated 29-03-2014

Reference to the applied harmonised standards as referred to in Article 7(2):

EN ISO 12100:2010-11	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)
EN 60335-2-40/A1:2006-04	Safety of electric appliances for domestic use and similar purposes - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers
EN 60204-1:2006/A1:2009	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
EN 378-2:2016	Refrigerating systems and heat pumps - Safety and environmental requirements - Part 2: Design, construction, testing, marking and documentation
EN 60335-1:2012/AC:2014	Safety of electric appliances for domestic use and similar purposes - Part 1: General requirements IEC 60335-1:2010 (modified)
EN 60335-1:2012/A11:2014	Safety of electric appliances for domestic use and similar purposes - Part 1: General requirements IEC 60335-1:2010 (modified)

Norderstedt, 22-05-2018

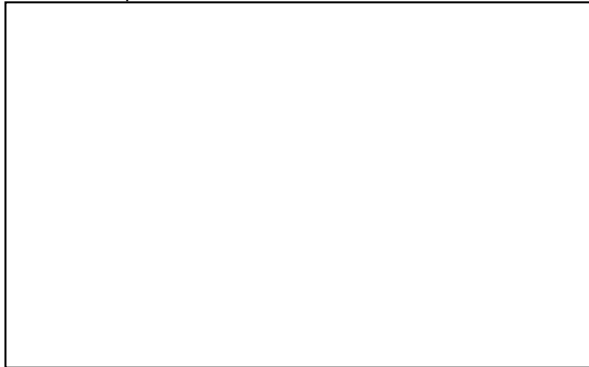
Place, date



Signature
Manfred Föhlisch

CE

Dealer stamp:



AERIAL[®]
THE DRYING EXPERTS

Dantherm GmbH

Oststrasse 148 · D-22844 Norderstedt

Phone 0049 (0) 40 526 879 0 · Telefax 526 879 20

E-Mail: info@dantherm.de · Internet: www.aerial.de