



# Air dehumidification in water management plants

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**AERIAL**<sup>®</sup>  
THE DRYING EXPERTS

## Good to know

Development, production, sales and customer services are all operated from our headquarters in Norderstedt near Hamburg.



### The making of a name

Formed in 1990, AERIAL quickly became known throughout Germany and beyond as a manufacturer of air dehumidifying systems.

Its headquarters, which house development, production, sales management and customer services, is located in Norderstedt near Hamburg (Germany). It is from there that sales and projects are managed, and service coordinated, inside Europe.

Extra support came along in May 2004 in the shape of a new subsidiary: AERIAL GmbH Switzerland, based in Baden-Dättwil near Zürich – another centre for dehumidification and air conditioning, and one which has already evolved into a central port of call for the whole of Switzerland.

### You are the focus of our ideas

And that isn't just a promise. Our developments and products are continuously adapted to your wishes and areas of work. The result is: user-friendly equipment that not only impresses with the latest technology and quality, but is easy to service, durable and convenient for day-to-day use.

We also solve customers' specialised problems.  
**You have the questions, we have the answers.**

### Quality builds trust Trust builds strength

We offer everything from a single source in the field of air conditioning and cooling, and in the construction of equipment. That has proven the only way to fulfil our promise of Precision, Quality and Reliability in our work and in our products. And this promise builds trust among our customers and suppliers, which is the **driving force behind our success.**

### The beginning of a fantastic partnership

Working closely with our customers comes naturally to us. Whether you simply phone up or require a meeting on site, you will always be advised competently by our experts. We deliver quickly and punctually on the agreed date and at the agreed price.

**Convinced? Why not hold us to it: today!**

▶ AERIAL is Germany's biggest manufacturer of condensation air dehumidifiers for commercial and industrial use.

# Why dehumidify the air?

AERIAL dehumidifiers prevent condensation on cold system components



## ■ Preventing condensation

Condensation on pipes and fittings is caused by the difference in temperature between water-carrying pipes, containers, etc. and the air surrounding them. Air dehumidifiers prevent this problem from arising.

## ■ Preventing corrosion

Corrosion in water supply systems is not a visual problem. It is the resultant damage which can incur costs and extra maintenance work. Act against it: acquiring and operating air dehumidifiers is much more economical than mechanical methods of protection (such as anti-corrosive coatings).

## ■ Protection of data transmission systems

Telecommunications, electronics and other sensitive systems must be protected especially carefully. Too much moisture hinders reliable function considerably, and in the end will lead to breakdowns.

## ■ Preserving building structures

Building structures can also be seriously damaged by too much humidity. Preserving the value of buildings, furnishings and fittings is a major theme nowadays. Protection cuts costs and helps preserve value.



Environmentally friendly, high-performance air dehumidifiers – equipped with the new BlueDry technology.

# The space-saving, super-quiet solution for small spaces

- Compact space-saver
- Stainless-steel casing
- Low-noise
- Hot-gas defrosting
- Operating hours counter
- Built-in hygrostat

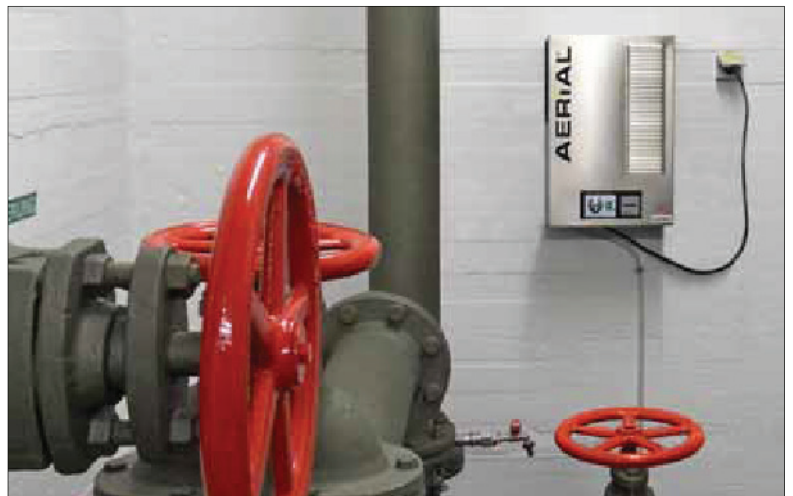


## In small shafts, pump stations and pump chambers

The AD 110 has proven its worth in numerous water treatment plants over recent years. It works reliably and efficiently using the condensation principle, especially in small shafts, upper reservoir fore-chambers, pump and pressure boosting stations and slide valve chambers up to approx. 60 m<sup>3</sup>.

It is designed for wall-mounting to save space. The condensate produced is fed directly to an outlet.

Development and production takes place exclusively in our factory in Norderstedt near Hamburg, Germany.



# Wall-mounted units with high air circulation

- High air flow that spreads up to 10 metres into the room
- Energy-saving heat recycling
- Optimum condensate drainage on the heat exchangers with BlueDry technology
- Hot-gas defrosting, controlled by DryLogic
- Low-maintenance



## For long corridors

Dry air from our new AD 2 series spreads up to 10 metres, making it particularly suited to long corridors and rooms. These condensation dryers are designed for wall-mounting, and thanks to their new design they require very little space.

Both units are easily serviced and are largely maintenance-free. Only the intake filter needs cleaning from time to time. The condensate produced is fed directly to an outlet.



### | Technical specifications |

Type		AD 110	AD 230	AD 250
For room sizes in waterworks up to approx.*	m <sup>3</sup>	60	500	650
Dehumidifying performance/power consumption at**				
30 °C/80% RH	l/24 h	8.5 / 198 watt	30.0 / 660 watt	51.0 / 1,000 watt
20 °C/60% RH	l/24 h	2.7 / 160 watt	16.8 / 515 watt	23.5 / 820 watt
10 °C/70% RH	l/24 h	1.7 / 142 watt	–	–
Max. power consumption	watt	198	660	1,000
Air circulation rate	m <sup>3</sup> /h	250	870	1,000
Working temperature range	°C	+3 °C to +32 °C	+3 °C to +32 °C	+3 °C to +32 °C
Noise level	dB(A)	46	75	75
Power supply	V/Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Dimensions (height/width/depth)	mm	498 x 330 x 241	795 x 650 x 260	795 x 650 x 260
Weight	kg	24	40	42
Arrangement	Wall-mounted			
Condensate drainage	Condensate drained directly via tube			

\*Guideline figures/based on experience · \*\*Based on DIN EN 810 · Subject to technical changes · Made in Germany

# Quiet, light and powerful

- Energy-saving rotary compressor
- Large water tank with automatic shut-off when full
- Built-in hygostat
- Operating hours counter
- Air filter
- Optional power counter



AERIAL condensation dryers have been making a name for themselves for years in water management plants, in industry, and in the tough world of building sites.

## The new AD 420 and AD 430

Modern, fresh look combined with easy handling and high performance. The ideal tool for many drying tasks:

- High performance, even at low temperatures
- Lightweight
- Simple to operate
- Super-quiet operation



Stapelbar



Water tank included as standard



Pump-out kit available as accessory

► These units can be fitted with AERIAL pump-out kits at any time. In just a few steps the pump-out kit is installed – and it can be removed just as quickly, too.

# Easy to use and top performance



AD 420-VA (stainless steel casing)



At only 12 and 19 kg, the condensation dryers of the AD 4 series are the lightest professional dryers in their performance class.

With their practical carrying handle the units can easily be carried by just one person and still remain stackable.

Small and light, but with high performance – developed and produced by AERIAL in Norderstedt near Hamburg, Germany.



Environmentally friendly, high-performance air dehumidifiers – equipped with the new BlueDry technology.

## | Technical specifications |

Type		AD 420	AD 420-VA	AD 430
For room sizes in waterworks up to approx.*	m <sup>3</sup>	200		300
Dehumidifying performance/power consumption at**				
30 °C/80% RH	l/24 h	19.0 / 420 watt		30.5 / 540 watt
20 °C/60% RH	l/24 h	8.0 / 340 watt		12.0 / 400 watt
10 °C/70% RH	l/24 h	6.0 / 280 watt		8.0 / 320 watt
Max. power consumption	watt	420		540
Air circulation rate	m <sup>3</sup> /h	315		600
Working temperature range	°C	+3°C to +32°C		+3°C to +32°C
Power supply	V/Hz	230 V / 50 Hz		230 V / 50 Hz
Dimensions (height/width/depth)	mm	520 x 332 x 360		580 x 340 x 380
Noise level	dB(A)	46	45	51
Weight	kg	12	19	19
Arrangement		On the ground, optional wall mounting (wall bracket available as accessory)		
Condensate drainage		Water tank (8.3 l) with integrated complete switch off (when water bucket is full) or tube connector		
Equipment levels (optional)		Pump-out kit		

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# Proven condensation dryers with the latest technology

- High air circulation
- Optimal dehumidifying performance
- Dependable and durable
- Built-in hygostat
- Hot-gas defrosting
- Operating hours counter



AD 550

AD 580



Environmentally friendly, high-performance air dehumidifiers – equipped with the new BlueDry technology.

## More power

Using the latest rotary compressors and special BlueDry components we have once again improved the performance and energy efficiency of our popular AD 5 and AD 6 series.

The updated casing design still utilises strong sheet metal with a high-quality powdered coating. The dehumidifiers are of course easy to service and take apart for cleaning.

Pump-out kits are now available for the latest AD 5 and AD 6 units. Depending on the application these can be added and removed without tools, meaning the dryers are now even more flexible.



Simple to operate



Water tank included as standard



Pump-out kit available as accessory



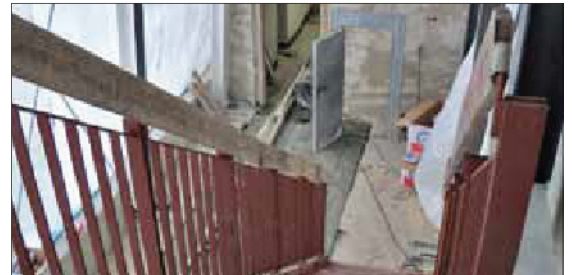
# Tough, mobile units for long-term use in waterworks



- Sturdy surrounding transport frame
- Two large, fully rubberised wheels
- Numerous ways to handle

## Easy handling

The AD 650 and AD 680 models incorporate a sturdy surrounding transport frame and large wheels. This offers a variety of possibilities for pushing, pulling and carrying.



### | Technical specifications |

Type		AD 550	AD 650	AD 580	AD 680
For room sizes in waterworks up to approx.*	m <sup>3</sup>	500		700	
Dehumidifying performance/power consumption at**					
30 °C/80% RH	l/24 h	54.0 / 900 watt		78.0 / 1,400 watt	
20 °C/60% RH	l/24 h	23.5 / 660 watt		35.0 / 1,010 watt	
10 °C/70% RH	l/24 h	14.0 / 550 watt		20.0 / 800 watt	
Max. power consumption	watt	900		1,400	
Air circulation rate	m <sup>3</sup> /h	660		820	
Working temperature range	°C	+3°C to +32°C		+3°C to +32°C	
Noise level	dB(A)	53		55	
Power supply	V/Hz	230 V / 50 Hz		230 V / 50 Hz	
Dimensions (height/width/depth)	mm	710 x 400 x 500	795 x 540 x 510	815 x 480 x 500	910 x 650 x 550
Weight	kg	38	42	55	58
Mobilität		2 pivoting wheels, 2 fixed wheels and push-handle	Stable transport frame, 2 fully rubberised wheels	2 pivoting wheels, 2 fixed wheels and push-handle	Stable transport frame, 2 fully rubberised wheels
Condensate drainage		Water tank (12 l) on level (automatic switch off when bucket full) or tube connector			
Equipment levels (optional)		Pump-out kit, wall console		Pump-out kit	

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# Robust equipment in a modern design



- Economical and powerful
- Resistant to impacts and breakages
- Easy to service
- Operating elements, including hygrostat, positioned clearly on the user side
- Energy-saving rotary compressors
- Hot-gas defrosting
- Operating hours counter

## Quality builds trust

The AD 7 series are the result of many years of experience and development, and are among the most advanced air dehumidifiers currently available on the market.

The rotation-moulded PE casing is extremely resistant to impacts and breakages. The material is recyclable and UV stabilisation protects against brittle surfaces. It is also flame-retardant and physically indestructible.

These units are especially easy to service and clean after use and can be transported in any position – upright or laying down.

The perfect products: powerful dehumidifying performance based on the condensation principle – developed and manufactured by AERIAL in Norderstedt, Germany.

- ▶ All electrical components protectively housed in a central control box
- ▶ Big wheels for maximum mobility combined with optimum stability



AD 750  
with integrated water tank



Environmentally friendly,  
high-performance air dehumidifiers –  
equipped with the  
new BlueDry technology.

# Maximum mobile performance



- Two axial fans
- Energy-saving rotary compressor
- Efficient condensation with BlueDry technology
- Hot-gas defrosting
- Built-in condensate pump as standard
- Operating hours counter

## Reliable drying of the highest standard

With dehumidifying performance of over 100 litres a day, the new AD 810 is especially suited to larger rooms and demanding drying tasks. With the automatic hot-gas defrosting, the AD 810 can also be operated at low room

temperatures. A built-in condensate pump comes as standard on the AD 810, so draining large amounts of water is quick and easy.

### | Technical specifications |

Typ		AD 750	AD 780	AD 810
For room sizes in waterworks up to approx.*	m <sup>3</sup>	500	700	1,100
Dehumidifying performance/power consumption at**				
30 °C/80% RH	l/24 h	55.0 / 900 watt	78.0 / 1,400 watt	105.0 / 1,500 watt
20 °C/60% RH	l/24 h	24.5 / 660 watt	35.0 / 1,010 watt	50.0 / 1,120 watt
10 °C/70% RH	l/24 h	14.0 / 560 watt	20.0 / 800 watt	26.0 / 900 watt
Max. power consumption	watt	900	1,400	1,500
Air circulation rate	m <sup>3</sup> /h	710	820	1,300
Working temperature range	°C	+3 °C to +32 °C	+3 °C to +32 °C	+3 °C to +32 °C
Noise level	dB(A)	53	55	60
Power supply	V/Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Dimensions (height/width/depth)	mm	880 x 520 x 495	1,000 x 640 x 580	990 x 635 x 530
Weight	kg	42	57	70
Condensate drainage		Water tank (12 l) on level (automatic switch off when bucket full) or tube connector, optional pump-out kit	Built in condensate-water pump, max. pump capacity: 4 m height difference.	
Arrangement		On the ground, two large casters, various handles		Floor-standing. Mobile with 4 lockable pivoting wheels (D = 100), and 2 fold-away handles.

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- Condensation dehumidifiers
- Adsorption dehumidifiers
- Swimming pool dehumidifiers
- Dehumidifiers for domestic use



Environmentally friendly,  
high-performance air dehumidifiers –  
equipped with the  
new BlueDry technology.

# The dehumidifying specialists

  
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