AIRWATERGREEN
Air Technology Sweden

Smarter dehumidification, lower energy consumption

Our energy-efficient dehumidifiers maintain ideal humidity levels, prevent costly moisture-related damage, and cut energy usage by up to 70% compared to conventional technologies.

What sets Airwatergreen apart?

Our dehumidifiers protect your infrastructure, reduce operating costs, and maintain a stable, healthy climate in all environments – whether hot, cold, or humid.

Intelligent and energy-efficient solutions

Moisture removal at any temperature – powered by CVP
Airwatergreen's patented Controlled Vapor Pressure (CVP) technology offers reliable dehumidification across all temperature ranges – unlike conventional systems.

Sustainable and cost-efficient air treatment
Proven reliability, minimal maintenance, and robust performance make our solutions ideal for sustainable and cost-effective indoor climate control.

Easy integration
All models support cloud-based remote monitoring to minimise service costs and enable real-time performance optimisation. They also integrate with existing building automation systems.

Try it first – on site
Unsure of your exact requirements? Consult our experts and arrange a trial installation tailored to your environment. After the test, we provide a detailed performance report.

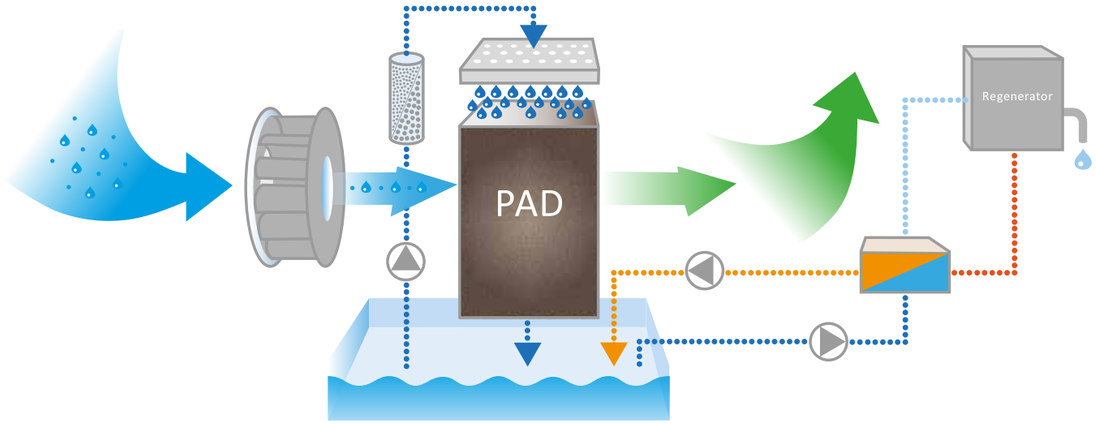
Representative industries we serve


Food Industry & cold storage


Industry & logistics


Water Industry


Cultural Buildnings & Properties



The NEXT dehumidification system, utilizing a liquid desiccant, operates on the principle of water vapor absorption from ambient air.

From traditional to modern Controlled Vapor Pressure

Airwatergreen introduces a new generation technology to a market in need of lower energy consumption and reduced CO_2 emissions. Our patented CVP technology sets a new benchmark for effective and sustainable humidity control.

Warm condensation
A traditional technique using granulated desiccant. The method relies on oversaturation to generate condensation in a sealed space.
Related products: FLEX and REX.

CVP (Controlled Vapor Pressure)
These systems use a food-grade, liquid-absorbing agent (BAS) that is non-toxic, non-evaporative, chloride-free, and resistant to airborne pollutants. Air is dehumidified or humidified by contact with BAS.
Related products: The NEXT series.

30–70% lower energy consumption
Our patented technology allows for effective humidity control while consuming up to 70% less energy than traditional systems.

Smart and energy-efficient dehumidification for today's demands
Our advanced technology enables precise humidity control in temperature-sensitive environments such as cold storage facilities and technical spaces. Combining smart automation with exceptional energy efficiency, we deliver a future-ready solution that lowers energy consumption without sacrificing performance – ideal for operations demanding superior climate control and long-term sustainability.

FLEX – Intelligent and portable

This plug-and-play dehumidifier is ideal for moisture control in various environments and delivers energy efficiency even at sub-zero temperatures.

FLEX is available in 4 models, Basic, Smart, Cloud, and Integrate.

FLEX – TECHNICAL SPECIFICATIONS

Color options	Black or White
Operating temperature range	–20°C to +40°C
Dehumidification capacity	5 kg/24 h
Humidity control range	20–100% RH
Electrical connection	230 V, 1–50 Hz 10 A
Average power consumption	< 400 W

Energy-efficient and smooth dehumidification

No negative pressure created

FLEX does not create negative pressure in the room, as no air is vented out. Negative pressure can draw in new, humid air that would also need to be dehumidified. All supplied energy remains inside the space.

Facilities used infrequentlys

This means you can reduce heating in facilities that are seldom used – offering significant savings for both your operations and the environment.

Flexible configuration

FLEX is typically configured to maintain a predefined relative humidity level but can also be set for dew point control or integrated via Modbus.

Integration

FLEX Cloud and FLEX Integrate can connect to your internet or building management system. With the Temp Guard function, the dehumidifier ensures an optimal indoor climate at minimal cost.

Simple plug-and-play installation

Only a power supply and condensate drainage are required. Each FLEX-series dehumidifier features self-regulating humidity control and provides full operational oversight through an integrated display interface.

REX – Powerful and compact

REX is mobile and simple to install without ductwork.

REX is available in two models: Basic and Integrate. Several dehumidifiers can be installed to work in parallel.

REX – TECHNICAL SPECIFICATIONS

Color options	Black or White
Operating temperature range	0°C to +40°C
Dehumidification capacity	30 kg/24 h
Humidity control range	20–100% RH
Electrical connection	3–50 Hz, 16 A
Average power consumption	< 1,600 W

Effective moisture control even at low temperatures

Dehumidifies large air volumes

With high capacity and durability, REX is ideal for efficiently dehumidifying large air volumes in environments such as industrial facilities, rock caverns, treatment plants, and large buildings. REX operates energy-efficiently at all temperatures.

Real-time control

REX can be configured to operate based on various parameters such as relative humidity. It can easily be connected to external systems via Modbus, enabling real-time monitoring and control via the web.

Connections

REX delivers a continuous flow of dry air and is designed for easy connection to ventilation ducts.

Simple plug-and-play installation

All you need is a power supply and drainage for the condensate water. REX is mounted on wheels and can be easily placed where needed. Permanent ducting is not required, as the unit produces dry air and extracts moisture directly on-site. This often results in significantly reduced installation costs in existing buildings.

Accessories for demanding environments

A range of REX accessories is available for particularly dirty environments as well as for large and complex buildings.

The NEXT Series

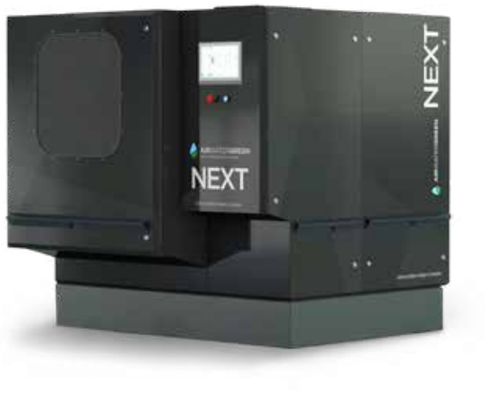
The NEXT series comprises high-performance dehumidifiers engineered for demanding applications with substantial moisture loads and large air volumes – ideal for environments such as the food and process industries, cold storage warehouses, ice arenas, and other large-scale facilities.

Engineered for very high moisture loads

NEXT dehumidifiers feature integrated intelligence with advanced functionality, including:

- Optimized performance to reduce energy consumption
- Remote monitoring and control capabilities
- Self-diagnostics and predictive maintenance

The NEXT series is available in multiple configurations to meet varying capacity demands for effective humidity control.



Food Industry & Cold Storage

Effectively minimizes condensation on cold surfaces, prevents ice buildup, and supports a safe, hygienic work environment.

Warehousing & Logistics

All Airwatergreen units are equipped with cloud-based remote monitoring, significantly reducing service costs and enabling real-time operational adjustments. Seamless integration with existing building management systems is also supported.

Industrial Facilities

Protects critical infrastructure from corrosion, mold, and other moisture-related damage. Ensures long-term asset preservation, reduces maintenance expenses, and enhances indoor air quality through precise humidity regulation.

30 –70%
lower energy consumption

Maximum efficiency – minimal consumption

Our patented technology consumes significantly less energy than conventional solutions. A lifecycle analysis shows that the investment often pays off within 1–3 years.

Longer lifespan – healthier environment

By maintaining proper humidity and temperature levels in your premises, you can avoid corrosion and mold growth. This also creates a healthier indoor environment.

Easy installation – smart features

Flexible installation options allow commissioning with or without air duct connections, simplifying the installation process. NEXT can also be monitored online for support and maintenance.

Step up to the NEXT level of energy efficiency – a smart choice for sustainable operations

NEXT – SYSTEM INTEGRATION

Communication	Remote control via AWG Cloud API and/or offline control with Modbus
Airflow connection	Duct connection or free air discharge
Air filter	Cassette filter or external bag filter

NEXT – OPTIONS

Advanced applications	Cooling, heating, humidification
Operating modes	Tariff control, dew point regulation, turbo mode

NEXT SERIES – MODELS

	NEXT 200	NEXT 300	NEXT 400	NEXT 800
Technical Specifications				
Airflow	< 8,000 m³/h	< 10,000 m³/h	< 10,000 m³/h	< 10,000 m³/h
Capacity	200 l/24 h	300 l/24 h	400 l/24 h	800 l/24 h
Operating range	0° to + 40°C	0° to + 40°C	0° to + 40°C	0° to +40°C
Connection	400 V, 3-phase, 50 Hz, 32 A	400 V, 3-phase, 50 Hz, 32 A	400 V, 3-phase, 50 Hz, 32 A	400 V, 3-phase 50 Hz 2x32 A
Average power	10 kW	12 kW	17 kW	28 kW

NEXT – Case Study

A brewery from a leading global group reduced its energy use and now operates exclusively on solar electricity.

Previously, several sorption dehumidifiers were used, resulting in very high energy consumption and the use of natural gas. For much of the year, humid air enters the cooled areas used for beer production and storage in various stages.

Key challenges

- Reduce energy consumption
- Moisture condensing on cold surfaces, leading to corrosion, mold, and slip hazards
- Efficiently remove water at the low temperatures typical of cold storage
- Avoid complex piping and drilling through external walls

The solution

Initial Phase:

A pilot installation of two NEXT units was carried out to validate moisture load assessments, which fluctuate seasonally.

Full Implementation:

Following successful validation, five additional NEXT units were deployed – bringing the total to seven strategically positioned units throughout the facility. Controlled by external dew point sensors, the system now maintains optimal indoor conditions to effectively eliminate condensation risks.

Results

- Energy consumption reduced by at least 70% compared to the previous system
- Stable humidity levels year-round – improved working environment
- Plug & Play installation – saves time and money
- Low maintenance – remote monitoring reduces service costs

Powered by our patented CVP technology, the NEXT series delivers a highly energy-efficient and adaptable solution for managing humidity across diverse applications – from food production and logistics centers to industrial plants and commercial properties.

Find the right dehumidifier for your operations

Airwatergreen offers three powerful dehumidification solutions tailored to different industries, environments, and needs. Whether you require a compact and flexible unit, an industrial-grade dehumidifier, or a scalable, intelligent solution, Airwatergreen has the right model to support your climate control needs.

COMPARE – FLEX, REX AND NEXT

Feature	FLEX – Compact and Flexible	REX – Powerful Industrial Dehumidifier	NEXT Series Scalable and Smart
Best for	Small to mid-sized spaces, pump stations, storage, archives	Large industrial sites, warehouses, treatment plants	Large facilities process industry, ice rinks, logistics centers
Technology	Patented Airwatergreen airflow dehumidification	High-capacity adsorption	CVP technology with continuous liquid regeneration for optimal energy efficiency
Energy Efficiency	Operates in all temperatures with low consumption	Optimized for high-capacity performance	Up to 70% lower energy use than conventional systems
Temperature Range	–20°C to +40°C	0°C to +40°C	0°C to +40°C
Humidity Control	20–100% RH	20–100% RH	30–100% RH
Capacity	5 l/24 h	30 l/24 h	200–800 l/24 h
Airflow	400 m^3/h	1,000 m^3/h	Upp till 10,000 m^3/h
Installation	Plug & Play, easy installation	On wheels, can be connected to ventilation systems	Ducted or free-blowing, Plug & Play installation
Smart Features	Temp Guard, optional dew point control	Modbus interface for remote control	Remote monitoring, Turbo mode, Tariff control, Predictive maintenance
Maintenance	Simple, minimal maintenance	Service-friendly, long lifespan	Modular design for easy service and durability

Service and support

We ensure that your dehumidification system operates optimally over time. We support you from installation and remote monitoring to service and maintenance. Our solutions deliver maximum efficiency, reliability, and extended operational lifespan.

Maximum performance and energy efficiency

We ensure your dehumidification system operates at peak performance through precise installation, proactive remote monitoring, and scheduled maintenance – reducing energy consumption and extending system lifespan.

Prevent downtime and reduce costs

With preventive maintenance and remote monitoring, we identify and resolve potential issues before they lead to costly interruptions. Our service agreements offer predictable maintenance costs and minimal disruption.

Expert guidance – we train your team

We provide your team with the right technical knowledge through hands-on training and digital resources to help optimize system use and ensure long-term performance.

Seamless system integration

Our plug & play solutions simplifies installation, and with Modbus and API connectivity, our systems integrate smoothly with existing ventilation and automation infrastructure.

Basic Service & Support Agreement

Remote Monitoring & Diagnostics
- Cloud connection for real-time access
- Regular online system checks
- Alarm notifications

System & Software Updates
- Basic software upgrades

Maintenance & Consumables
- Replacement of consumables
- On-site service visits

Optional Add-ons & Upgrades

Advanced Connectivity & Monitoring
- 4G connectivity for enhanced remote access
- Cloud-based interface for real-time data visualization
- Quarterly performance and system health reports

Software & System Optimization
- Software upgrades to enhance system performance
- Access to the Airwatergreen application for improved control and insight

Enhanced Service & Support
- Technical training and certification for on-site personnel
- Spare parts kit to ensure rapid maintenance and minimized downtime

” This summer, for the first time, we were able to maintain a good indoor climate! With the NEXT dehumidifiers in place, I no longer have to worry about how the indoor environment will handle the summer!”

Alf Jacobsson
Property Coordinator, Martin & Servera

” At Wohlins, we are constantly looking for energy- and environmentally smart solutions to provide our customers with the best possible outcome!”

Tomas Wohlin
CEO and Property Manager

” Our goal was to become energy self-sufficient and eliminate carbon emissions. Today, we’ve achieved that goal and we’re extremely proud! Everyone can contribute! My part is to inspire others – that’s how I see it.”

Johan Strömberg
CEO and Founder of 3C

Read more under references at www.airwatergreen.com

Airwatergreen is classified as a sustainable activity according to the EU Taxonomy Aligned, a clear recognition that our technology and product portfolio actively support a sustainable future. We enable our customers to reduce energy consumption and significantly lower their carbon emissions.

Airwatergreen develops, manufactures, and supplies advanced solutions for air dehumidification and treatment across all climate zones, from +40°C down to –20°C. Our products deliver energy-efficient indoor climate control to preserve the quality and longevity of buildings, products, and equipment – while promoting a healthy and safe working environment.

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