AIRWATERGREEN
Air Technology Sweden




# NEXT 400

## Energy-efficient dehumidification for industrial applications

## Reliable performance in the toughest conditions
## Less energy, more capacity, wider temperature range

Where traditional systems lose capacity, the NEXT Series maintains full performance, from cold storage to production floors, using patented technology and built-in intelligence to minimize energy consumption.

**Maximal efficiency**
**– Minimal consumption**

**Longer lifespan**
**– Healthy conditions**

**Easy installation**
**– Smart features**

# Why choose NEXT over traditional dehumidification?

| Your challenge | Condensation systems | Adsorption systems | NEXT technology |
|---|---|---|---|
| **Cold environments** (<10°C) | Significant capacity loss | reduced performance | consistant capacity accross 0°C to + 40°C |
| **Energy consumption** (at 60% RH) | 0,8–3,0 kWh/kg | 1,4–3,0 kWh/kg | 0,8–1,2 kWh/kg |
| **Installation flexibility** | free-blowing or ductwork required | ductwork required | free-blowing or duct connected |
| **Air quality** | No filtration benefit | No filtration benefit | Air scrubbing + filtration |
| **Maintenance** | Refrigerant service, drainage upkeep | Desiccant replacement, frequent filter changes | Self diagnosis, preventive maintenance alerts |

# Solving humidity challenges across industries

**Food production**

- Prevent condensation on packaging lines and production equipment.
- Humidity peaks during cleaning sessions handled automatically without overloading the system.
- Food-grade BAS solution safe for production environments.

**Breweries & beverage**

- Maintain stable humidity in fermentation and ageing rooms where precise climate control directly affects product quality.
- Manage humidity spikes from cleaning cycles between batches without manual intervention.

**Logistics & cold storage**

- Protect goods and infrastructure during temperature transitions between cold storage and ambient loading areas.

**Water treatment plants**

- Safeguard electrical panels, motors, and control equipment from corrosion in persistently high-humidity environments.

**Ice rinks & sports facilities**

- Eliminate ceiling drip onto ice surfaces and reduce structural corrosion caused by permanent temperature differentials.

**Cultural heritage buildings**

- Precise humidity control for long-term preservation of artifacts, documents, and artworks in sensitive environments.

# NEXT 400

400 kg/24h | 10 000 m³/h air flow | 0°C to +40°C | 400V 3-phase 50Hz

**Return on Investment**

- Energy consumption: 1.2 kWh/kg standard configuration
- With liquid cooling heat recovery: 0.8 kWh/kg, representing 40% energy savings
- Average power consumption: 17 kW for 400 kg/24h capacity
- Lower maintenance requirements with self-diagnosis and preventive maintenance alerts
- Consistent performance eliminates capacity loss experienced with traditional systems at low temperatures

**1–3 Years**
Typical Payback

## Cleaner and drier air in one system

The NEXT Series combines dehumidification with air purification. The CVP process scrubs the air flow, removing airborne pollutants, while the process air inlet filtration captures particles. Different configurations exist to match your environment.



**Panel filter**
Standard air quality environments.
Integrated filter holder with first set of filters included.
Easy replacement access.



**Bag Filter**
High-particulate industrial environments.
Extended filter surface area for longer service intervals.



**Duct Connection — Ø 500mm**
When external pre-filtration is already in place.
Requires customer-supplied ductwork.

**Better air quality, healthier work environment, equipment protection from dust contamination, and consistent dehumidification performance all from a single system.**

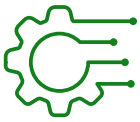
## Built-in intelligence adapts to your conditions



The NEXT Series includes multiple operating modes that optimize performance for specific applications and energy objectives:

- **Auto Run:** Balanced efficiency for general-purpose dehumidification. Always active as base operating mode.
- **Eco Mode:** Energy-optimized operation for stable humidity environments. Minimizes consumption through intelligent PID control.
- **Tariff Mode:** Adapts regeneration to real-time electricity spot prices. Shifts consumption to low-price periods, promoting green energy usage.
- **Target Mode:** Aggressive dehumidification for initial dry-out or consistently high-moisture environments.
- **Wash Handler:** Manages sudden humidity spikes from industrial cleaning or washing operations with automatic sleep-and-boost cycles.

## Connected. Monitored. Optimized.



Every NEXT unit comes with built-in connectivity for remote access and system integration. Monitor performance, adjust settings, and receive maintenance alerts without being on site.

- **AWG Cloud API:** Real-time performance tracking with 24/7 access to operational data. Monitor humidity levels, energy consumption, and system status remotely.
- **Modbus Integration:** Seamless connection to existing building management systems for centralized facility control
- **4G / WiFi Connectivity:** Multiple connection options ensure reliable communication regardless of site infrastructure.
- **Self-Diagnosis:** Predictive maintenance notifications reduce unplanned downtime and optimize service scheduling

## Professional support from day one



Installation and service packages ensure your NEXT system performs optimally throughout its lifecycle.

- **Installation:** Baseline and customized packages available, including on-site setup, test run, and final configuration. Customized installations include a 3-month evaluation period with online monitoring and continuous optimization.
- **Service Agreements:** Annual on-site service, BAS filter and solution included, software upgrades, and remote support starting from 246 €/month. Priority service and all-inclusive packages available on request.

*For complete technical specifications, dimensional drawings, CVP technology details, and system configuration options, download the NEXT Series Technical Data Sheet or contact our sales team.*