AIRWATERGREEN
Air Technology Sweden

INSTALLATION IN OSLO KOMMUN

Reference case Water and Sewage

BAKGROUND

The Oslo municipality was in the process of reorganizing its management infrastructure. A significant portion of the plants is currently under review, with a focus on enhancing energy efficiency, improving the work environment, and implementing automation. The capital's wastewater management grid consists of approximately 150 plants located throughout the city.

To control the climate and indoor environment within the pump stations, a heating and ventilation system has been employed. This is notable considering that the pump stations function as service buildings with only patrolling staff as their sole visitors. As a result, there are significant opportunities to lower the temperature and, consequently, save energy. However, to achieve this temperature reduction without risking elevated humidity levels, additional investments in dehumidification are necessary.

> ***The measures we are implementing now streamline and improve our management grids.***
>
> Lars-Olov Orre
> Senior Engineer, Water and Sewerage at Oslo municipality.

WHAT PROBLEMS DID AIRWATERGREEN'S DEHUMIDIFIERS SOLVE?

In the spring of 2017, an evaluation was conducted on Airwatergreen's FLEX dehumidifier to assess its performance in the challenging plant environment. The evaluation demonstrated that lower humidity significantly improved the indoor environment, protecting equipment and components, and enhancing the overall working conditions.

In September, a second Airwatergreen FLEX dehumidifier was ordered, this time for an uninsulated concrete pump station.

Previously, this station relied on direct-acting electric heating (with an installed power of 4650W) and ventilation, yet it still faced moisture issues. The pump station, measuring 40m², houses three pumps, each capable of pumping 160L of wastewater per second.

QUICK FACTS

Product: 2 pc FLEX

Installation year: 2017

Reason: To get a better and safer indoor climate with focus on energy efficiency.

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