

New University Hospital | Stavanger, Norway

The New Stavanger University Hospital is one of Norway’s largest healthcare construction projects, relying on extensive hydronic heating and cooling systems. To secure long-term performance and reduce maintenance costs, the project required a robust and chemical-free water treatment solution across all technical installations.



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Ensuring Reliable Climate Systems at One of Norway’s Largest Hospital Projects

The New Stavanger University Hospital (New SUS) is one of Norway’s largest and most advanced healthcare construction projects. Built to support modern medical services and high patient capacity, the hospital relies on extensive hydronic heating and cooling systems that require consistently high water quality to operate efficiently and reliably.

Our Delivery – EnwaMatic®

A Large-Scale Facility Requiring Stable and High-Quality Water Systems

With waterborne heating, cooling, and floor heating extending throughout the buildings, the project required a water quality solution capable of protecting thousands of meters of piping and critical components.

The challenge was to prevent corrosion, sludge buildup, air ingress, and scaling—issues that can cause energy loss, component failure, and costly unplanned maintenance. For a hospital running 24/7, system stability is not optional; it is essential for patient safety, comfort, and operational efficiency.



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Why EnwaMatic® Was the Chosen Solution for Protecting the Systems

To secure reliable operation, more than 30 EnwaMatic water treatment units were installed across the heating and cooling networks.

The EnwaMatic system offers a chemical-free and automated approach to water treatment by combining:

- Sidestream particle and sludge filtration
- Natural regulation of pH, alkalinity, and hardness
- Automatic air separation
- A biological barrier without the use of chemicals

This ensures consistently clean and stable water quality from day one, protecting pumps, heat exchangers, valves, floor heating loops, and cooling systems from long-term damage.

CHALLENGES

- Large hospital with extensive heating/cooling systems
- Need reliable, long-term water quality
- Reduce maintenance and operating costs

SOLUTIONS

- 30+ EnwaMatic® chemical-free units
- Filtration, automatic pH/alkalinity/hardness control
- Natural bacterial barrier and air separation

INTERESTING PARTS OF THE DELIVERY

- One of Norway's largest hospital projects
- Fully chemical-free water treatment
- Energy-efficient and extends system lifespan