

Hycleen Automation System

Champions League of drinking water hygiene

Peter Dach FC Koblach, Austria



Legionella prevention in sports facilities

Enhanced safety thanks to the automation of sanitary technology



During the planning of a new sports facility, the focus was not only on the typical construction challenges but also on the drinking water system and minimizing the health risks posed by legionella. The sports facility "im Lohma" of Peter Dach FC Koblach, completed in 2023, now benefits from the Hycleen Automation System, ensuring a hygienically optimized and digitally controllable sanitary installation.

Project background

Construction of the new sports facility "im Lohma", home of Peter Dach FC Koblach in the Vorarlberg Rhine Valley, began in 2021. FC Koblach, whose first team plays in the fourth tier of professional football in Austria, places a special focus on promoting young talents. Over 300 children and young people have played football at FC Koblach in the last 10 years. The health of the young talents and all players is always a priority, which is why special attention was paid to a drinking water system that meets the highest hygiene standards.

Selected technical solution

To minimize the risk of legionella contamination in the drinking water installation, FC Koblach opted for the Hycleen Automation System from GF Piping Systems. Legionella are environmental bacteria that can be hazardous to health in high concentrations. They spread mainly via aerosols in the air and are then inhaled when showering, for example. To prevent them from spreading, the right temperatures and regular water exchange are required. However, especially in showers in sports facilities that are used irregularly during the winter break, the water often stagnates over a longer period of time. This is where the Hycleen Automation System comes in.

Improvements achieved

The installation involved the integration of eight valves, all linked to the central control unit, the so-called "master". The plug & play solution facilitated a swift and seamless installation process. Additionally, the "Hycleen Connect" cloud platform enables remote access for digital monitoring and control of the drinking water system. Immediate alerts are triggered in the event of deviations, such as abnormal temperature conditions, ensuring prompt intervention. Furthermore, the circulation valves ensure optimum hygienic temperatures and automatic hydraulic balancing. These measures effectively protect against the formation of biofilm and the proliferation of legionella bacteria.



Benefits of the Hycleen Automation System

- **Hygiene:** protection against biofilm formation and infestation by legionella bacteria
- **Connectivity:** remote access and digital verification of critical system parameters
- **Easy to use:** automatic detection of the sensors and simple installation
- **Energy savings:** optimization recommendations thanks to long-term monitoring
- **Comfort:** no long waiting times for cold or hot water thanks to the simplified hydraulic balancing calculation



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