

Excellence
in Flow⁺

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GF Hycleen Balance

Lower utility costs through smart hydraulic balancing

m2A Habitat - residential buildings in Mulhouse



GF Hycleen Balance ensures the correct temperatures throughout the entire hot water installation - efficiently and hygienically.

Digital balancing for safe hygiene and lower operating costs

In residential buildings, reliably supplying hot water to every point of use while saving energy and complying with all hygiene standards is essential. In Mulhouse, France, the public housing provider m2A Habitat has taken on this challenge: using digital balancing valves, it ensures that hot water temperatures are maintained correctly throughout the system. The GF Hycleen Balance system delivers comfort, energy efficiency and safety.

Project background

Residential buildings with centralized hot water systems face growing challenges: maintaining consistent temperatures across complex circulation networks, meeting strict drinking water hygiene regulations, and reducing rising energy and operating costs. In Mulhouse, France, uneven temperatures, energy losses and limited system transparency increasingly affected efficiency and reliability. At the same time, digital monitoring and remote system control became essential requirements for modern building management. To address these issues, the public housing provider m2A Habitat initiated a pilot project to improve hot water performance, enhance operational safety and lower utility costs for residents.

Selected technical solution

To meet these objectives, m2A Habitat implemented the GF Hycleen Balance valve - an intelligent, digitally controlled solution for automatic hydraulic balancing of hot water circulation systems. Installed on each circulation loop, the valves continuously measure temperatures and automatically adjust flow rates to maintain defined target values. Configuration and monitoring are carried out via an app, with full integration into the existing building management and remote monitoring systems operated by the energy service provider Dalkia. This solution enables precise temperature control, real-time system transparency and remote intervention, while ensuring compliance with hygiene standards.

Achieved improvement

Since commissioning, GF Hycleen Balance has delivered clear operational and economic benefits. Uniform temperature distribution across all risers improves resident comfort and ensures consistent compliance with legionella prevention requirements. Automated balancing reduces energy consumption and heat losses, leading to lower hot water production and distribution costs. Digital monitoring allows maintenance teams to identify deviations early, pinpoint affected zones and respond quickly and efficiently. The pilot project demonstrates improved operational safety, higher energy efficiency and enhanced service quality - providing a strong foundation for broader deployment across additional residential buildings.



Customer benefits

- **Reliable hygiene compliance**
- **Reduced energy and operating costs**
- **Digital transparency and remote control**
- **Improved comfort and operational efficiency**

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