

## Media Release

Frankfurt/Main, 17 March 2025

### **Hycleen Balance: digital hydraulic balancing for safe and sustainable hot water distribution**

The new digital Hycleen Balance valve solves the issue of uneven hot water distribution by accurately and efficiently balancing the hot water circulation within a building. This avoids growth and proliferation of pathogens like Legionella, lowers energy consumption and improves safety and comfort. By documenting the temperatures, the valve and its sensors not only facilitate but also proof regulatory compliance. The system is easy to install, commission and operate via mobile phone or the building management system. Digitally controlled hydraulic balancing ensures fast availability of water at the desired temperature while providing up to 25 % energy savings. Ideal for retrofits and new constructions of all types of buildings, such as multi-family homes, hotels, public or health & care facilities.

Alone in Germany, up to 30,000 cases of legionella infection are estimated per year<sup>1</sup>. Temperatures between 25-50°C often caused by uneven hot water distribution or longer stagnation times provide the environment for the growth and proliferation of legionella and other bacteria. In most countries, temperatures of  $\geq 55^{\circ}\text{C}$  are therefore required by laws and guidelines in the hot water circulation.

#### **Instant water safety even in problematic existing building**

Hycleen Balance optimizes the equal distribution (hydraulic balancing) of the hot water circulation through continuously measuring the temperatures and digitally controlling the water flow. It performs a safe temperature-based balancing immediately after implementation. This prevents legionella growth throughout the building. Automatic temperature documentation means that compliance with regulations can be verified quickly and easily. Regular automatic function checks and maintenance procedures ensure reliable performance and peace of mind. Alarm messages and protocols facilitate quick error detection and clear documentation.

#### **Increasing comfort, decreasing energy consumption**

Beyond safe temperatures, Hycleen Balance ensures that hot water is quickly available at any point in the building with minimum waiting time, e.g. in the shower. The precise temperature control and distribution minimizes heat loss in the circulation system, ensuring hot water preparation and pumps can consistently operate at their optimum performance point without wasting energy. Up to 25 % energy savings can be achieved in hot water preparation and distribution.

#### **Automated documentation, consistent performance**

With state-of-the-art connectivity and operating software, the new valve ensures continuously optimized hydraulic balancing and automatic documentation. In this way, important tasks such as compliant as well as efficient temperature distribution in each circulation line, monitoring, alarming and documentation are automated and performed reliably and consistently.

#### **Fast set-up, immediate improvements**

The flexible cabling with prefabricated cables simplifies the installation and saves valuable time. Implementation and control are carried out via smartphone, tablet or BMS in simple 'plug & play' fashion. After commissioning, Hycleen Balance immediately starts to adjust and optimize the circulation. Hycleen Balance connects effortlessly with any building management system (BMS). The Modbus interface enables monitoring, parameterization and direct control of the valve when needed.

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<sup>1</sup> Deutsches Kompetenznetzwerk für ambulant erworbene Pneumonien (CAPNETZ)

**Hycleen Balance:**

- Hygiene: by setting temperatures  $\geq 55^{\circ}\text{C}$ , Hycleen Balance prevents the growth and proliferation of legionella
- Compliance: fully automated operation and temperature control that is documented, ensures visibility, compliance and peace of mind
- Sustainability: thanks to a constantly optimized hot water circulation, Hycleen Balance minimizes heat loss and energy consumption in the hot water system by up to 25%
- Plug & Play: commissioning is done in under 5 minutes/valve

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**About GF Building Flow Solutions – Leading with Water**

With the construction industry accounting for a major part of the global CO<sub>2</sub> emissions, and the need for clean and safe drinking water to serve a growing population, GF Building Flow Solutions' mission is to solve the challenges of our time: the increasing demand for energy-efficient and affordable buildings, inviting and safe homes as well as access to clean and safe drinking water. GF Building Flow Solutions is Leading with Water, unleashing water's great potential as a resource to make buildings better, facilitate progress and enable our customers to be more productive and sustainable, ensuring comfort, health, and efficiency. Combining the best of the industry-leading brands GF, Uponor, and JRG, based on trusted Swiss, Finnish and German quality under one umbrella, customers get access to the broadest technology platform for a wide range of applications, ensuring customer satisfaction and performance. The portfolio comprises of safe solutions for hot- and cold-water supply and control, noise-reducing wastewater systems, as well as energy-efficient heating and cooling. A division of GF, GF Building Flow Solutions – formerly known as Uponor (Uponor Inc. in the U.S., Uponor Ltd. in Canada) and GF Building Technology – has sales companies in 30 countries and production sites in 12 locations across Europe and the Americas.

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**GF\_BFS\_Hycleen\_Balance\_1**

The new digital Hycleen Balance valve solves the issue of uneven hot water distribution by accurately and efficiently balancing the hot water circulation within a building.

**Source: GF Building Flow Solutions**



#### **GF\_BFS\_Hycleen\_Balance\_2**

Hygiene: by setting temperatures  $\geq 55^{\circ}\text{C}$ , Hycleen Balance prevents the growth and proliferation of legionella.

**Source: GF Building Flow Solutions**



#### **GF\_BFS\_Hycleen\_Balance\_3**

The flexible cabling with prefabricated cables simplifies the installation and saves valuable time. Implementation and control are carried out via smartphone, tablet or BMS in simple 'plug & play' fashion. After commissioning, Hycleen Balance immediately starts to adjust and optimize the circulation.

**Source: GF Building Flow Solution**