Safety and Cost-Effectiveness in Supplying Potable Water in Buildings

KEMPER Hygiene System KHS

More values. One system. KEMPER KHS.

KEMPER

DRIVING PROGRESS

We make the supply of potable water in your building safe and efficient.

KEMPER Hygiene System KHS

The fact is: potable water must be supplied in buildings hygienically and perfectly at all times while meeting high legal standards.

We have made a virtue out of necessity and established a pioneering overall system on the market in the form of KEMPER Hygiene System KHS. This system not only satisfies the highest hygienic standard, but also offers operators many more advantages: it is extremely crisis-proof, flexible with changes of use, economical and also particularly resource-friendly.

As a result, the innovative KEMPER Hygiene System KHS has become an ideal solution for the hygienic supply of potable water in buildings with a large number of bathrooms, for example for hospitals, residential and old people's homes, schools, nurseries, venues or hotels.

In brief: KEMPER Hygiene System KHS – a system that pays for you as an operator.

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Make a virtue out of your operator duties.

In Germany, laws and regulations govern hygiene standards for potable water in all buildings. For good reason because contaminated drinking water can quickly become a health risk.

In 2019 alone, 1,547 cases of legionnaire's disease were reported in Germany. Studies estimate that the actual cases of legionnaire's disease are actually up to 30,000 per year. Caused by? Often, the drinking water installation, because stagnation and a temperature rise in the installations can result in an explosive increase in germs.

Drinking water as a health risk: If individual bathrooms or tapping points are used very rarely or not at all there is no water exchange in conventional domestic water installations. This leads to stagnant water. A temperature rise to over 25°C can also lead to increased germ contamination, for example from dangerous legionella bacteria.

Particular obligations are imposed on operators of public buildings: they must guarantee perfectly hygienic drinking water in the entire building installation. This is a major challenge because the complexity of buildings in increasing constantly and demands on sustainability goals also continue to rise.

By choosing a suitable installation type, you can make your operator's duty into a virtue: we have further developed conventional installations into loop installations for the KEMPER Hygiene System KHS. The optimised installation type is a prerequisite for our holistic solution. Our system helps you to prevent stagnation economically and intelligently, to conserve the drinking water resource while reliably and efficiently complying with the relevant legislation.

You as an operator create legal certainty – and your sustainability goals: The KEMPER Hygiene System KHS ensures operational reliability and greatly minimises the health risks for building users. The resource-friendly operation of the overall system also ensures that you can meet your sustainability goals more easily, for example efficient temperature maintenance, economical use of drinking water or the use of ECO water.

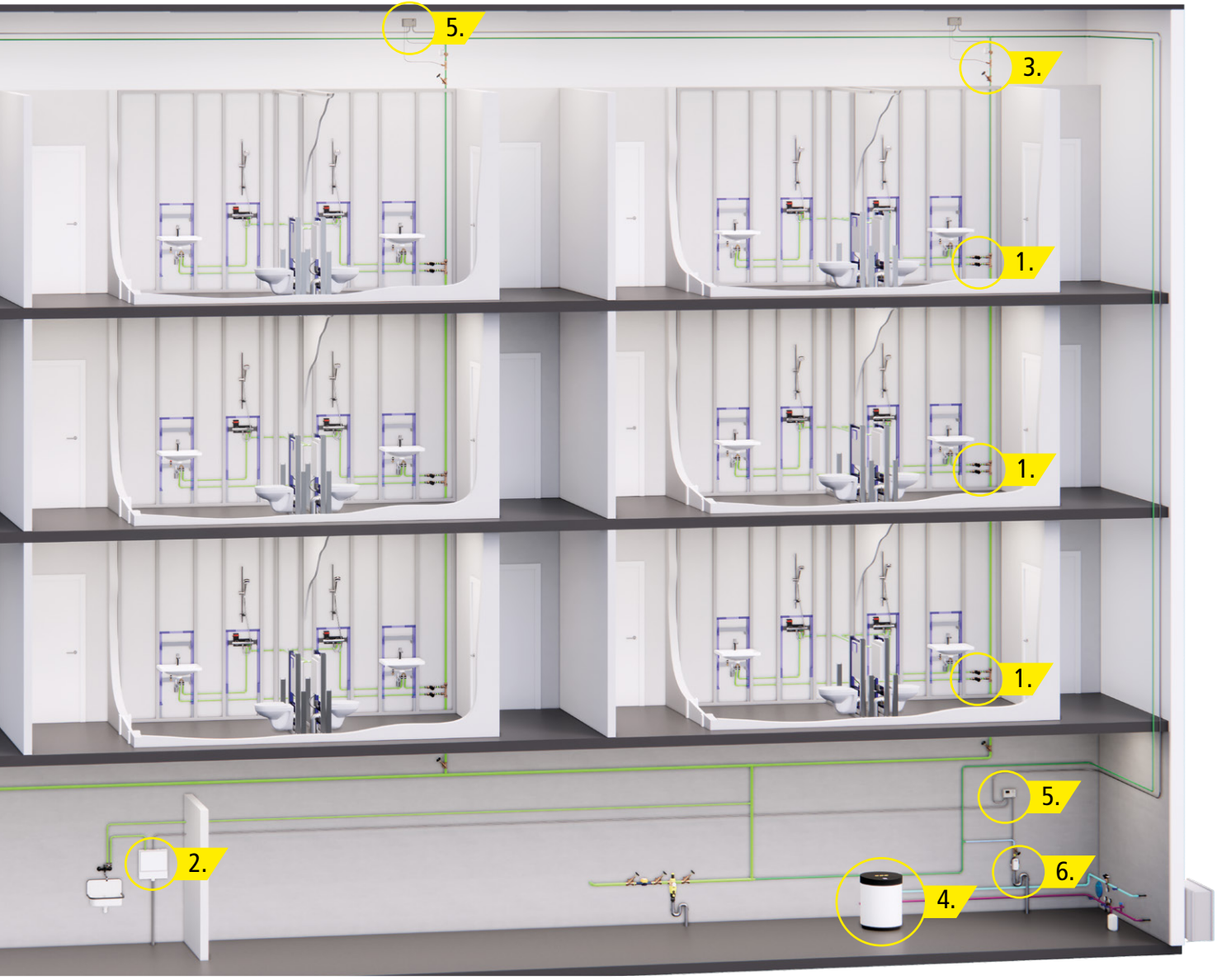
The KEMPER Hygiene System KHS.

We developed the KEMPER Hygiene System KHS for buildings in which a large number of bathrooms are needed – such as hospitals, care homes or hotels. The basis of our solution is the further development of the conventional installation into a loop installation. Here, the pipe is routed back to the distribution pipe after the last tapping point and connected by our patented KHS Flow-Splitter.

Thanks to the optimised installation type, the KEMPER Hygiene System KHS becomes a game changer in the hygienic drinking water supply in buildings. And for you as an operator, this pays in the long term in several ways: your potable water supply in the building also becomes reliable, economical and sustainable.

KHS Flow-Splitters

The Flow-Splitter ensures frequent water exchange in all pipes by means of natural consumption or automated processes – without additional auxiliary energy, noiselessly and maintenance-free.



Components KEMPER Hygiene System KHS

1. **KHS Venturi Flow-Splitters**
Figure 650

2. **KHS Hygiene Flush Box**
Figure 689 03

3. **KHS CoolFlow cold water balancing valve**
Figure 615 0G

4. **KHS CoolFlow cooler**
Figure 610 01

5. **KHS control systems**
Figure 686 02 008
Figure 686 02 006

6. **KHS Flush Point**
Figure 684 05

This is how you as an operator benefit from the KEMPER Hygiene System KHS.

Operational Safety

Stagnation is prevented by normal consumption and the water content of the bathroom pipework is exchanged much more frequently than required by law. Your operator risk falls greatly in comparison to conventional installation types.

Temperature Maintenance

Thanks to the natural water exchange in the loop pipe, the prescribed temperature maintenance can be realised efficiently. The regularly replenishing fresh water can reduce the water temperature in the bathroom installation by up to **5 K** in comparison to series installation.

Design Reliability

Thanks to an innovative installation, natural and planned water usage ensure reliable water exchange even with varying uses and unused bathrooms. You can also freely choose the arrangement of the installations – WC to shower or washbasin. Simply seal the connections to decommission the tapping points.

Economy

The KEMPER Hygiene System KHS already pays for itself because a flush is no longer needed in every bathroom. Together with the saved flushing volumes, active temperature maintenance and greatly reduced operating costs in comparison to other installation types, the KEMPER Hygiene System KHS is an investment that is often amortised after less than two years.

Saving Resources

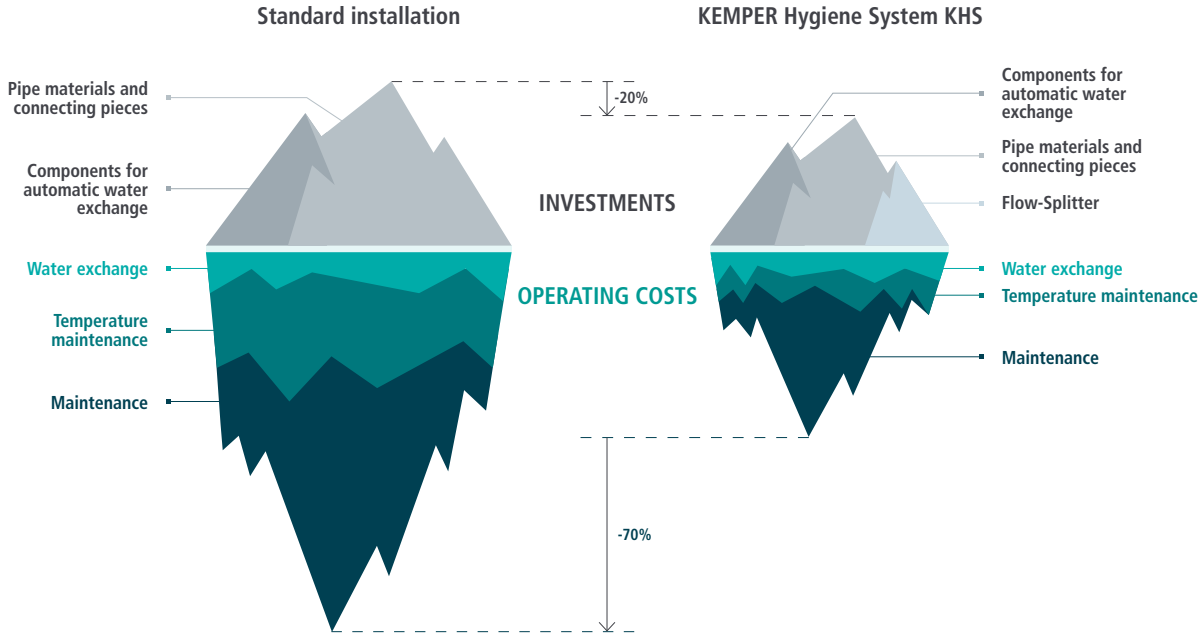
More than **3 m³** potable water can be saved per year and bathroom in comparison to conventional installation types. Remaining flushing volumes can be used as ECO water – for example, for watering gardens, green roof and green façade areas or for WC flushes.

Crisis Flexibility

With the KHS Hygiene Flush Box or KHS CoolFlow system components, water exchange and temperature maintenance can be automated – thus ensuring drinking water hygiene even in the event of interruptions to operation.

The KEMPER Hygiene System KHS is extremely hygienic – and economical.

The investment costs can be up to 20 per cent lower than in series installation. With the up to 70 percent lower operating costs thanks to lower drinking water consumption, lower maintenance and energy costs or the use of ECO water, we offer the best reasons that speak for the KEMPER Hygiene System. Good to know: the investment often pays for itself in less than two years.



Read our references if you need any more convincing!

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