

KEMPER Hygiene System **KHS**



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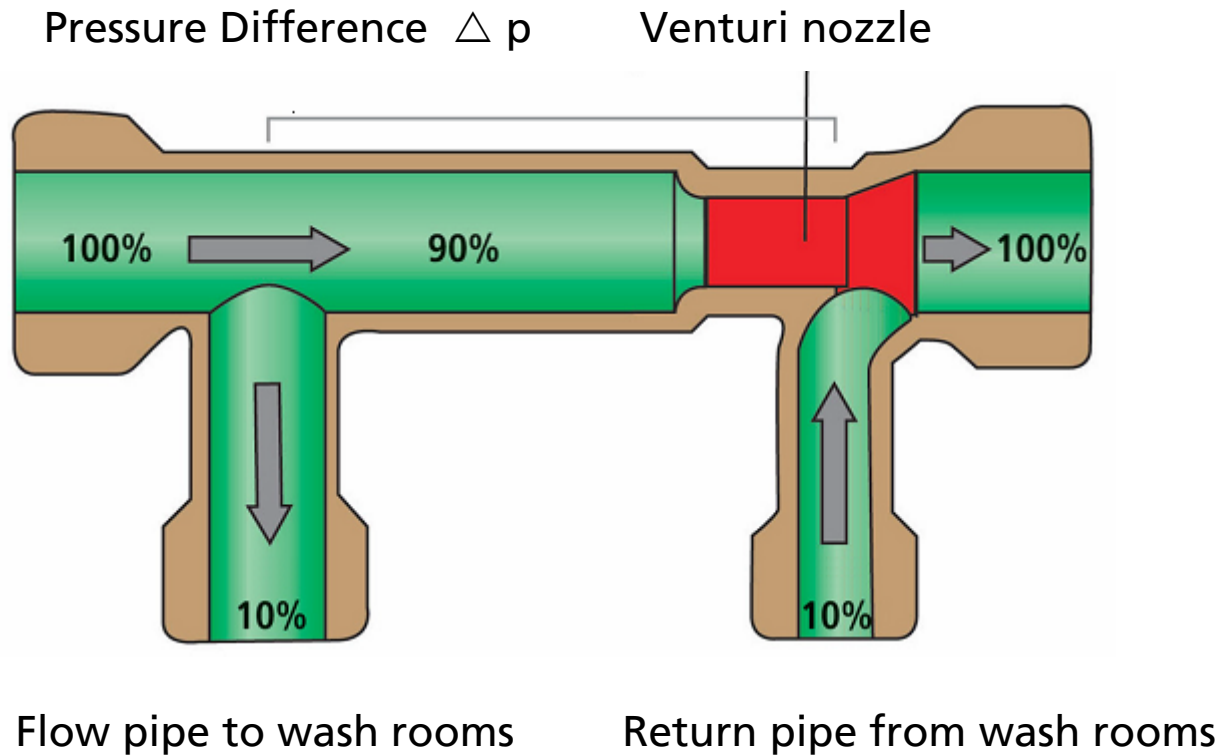
Benefits at a glance!

- ▶ KHS provides and maintains the hygienic quality of the potable cold water service throughout the system
- ▶ It prevents stagnation within the potable cold water network by the implementation of a designed circulatory system with intelligent controls
- ▶ By the use of KHS innovative Multi-Circ Distribution Units and an integrated intelligent controls package, a dynamic pipe work system is created in an otherwise non-circulatory static system.
- ▶ Actuated flushing valves are integrated within a temperature controlled system to prevent undue water wastage
- ▶ By triggering the flushing process this has the additional benefit of avoiding microbiological corrosion and build-up within Copper pipes, (MIC)
- ▶ The automatic KHS system will significantly reduce operational and maintenance costs that will arise when using inefficient manual flushing and inspection methods.
- ▶ Significant amounts of flushing water would be saved, as would expensive system re-design measures.
- ▶ KHS can provide an automatic recording service.



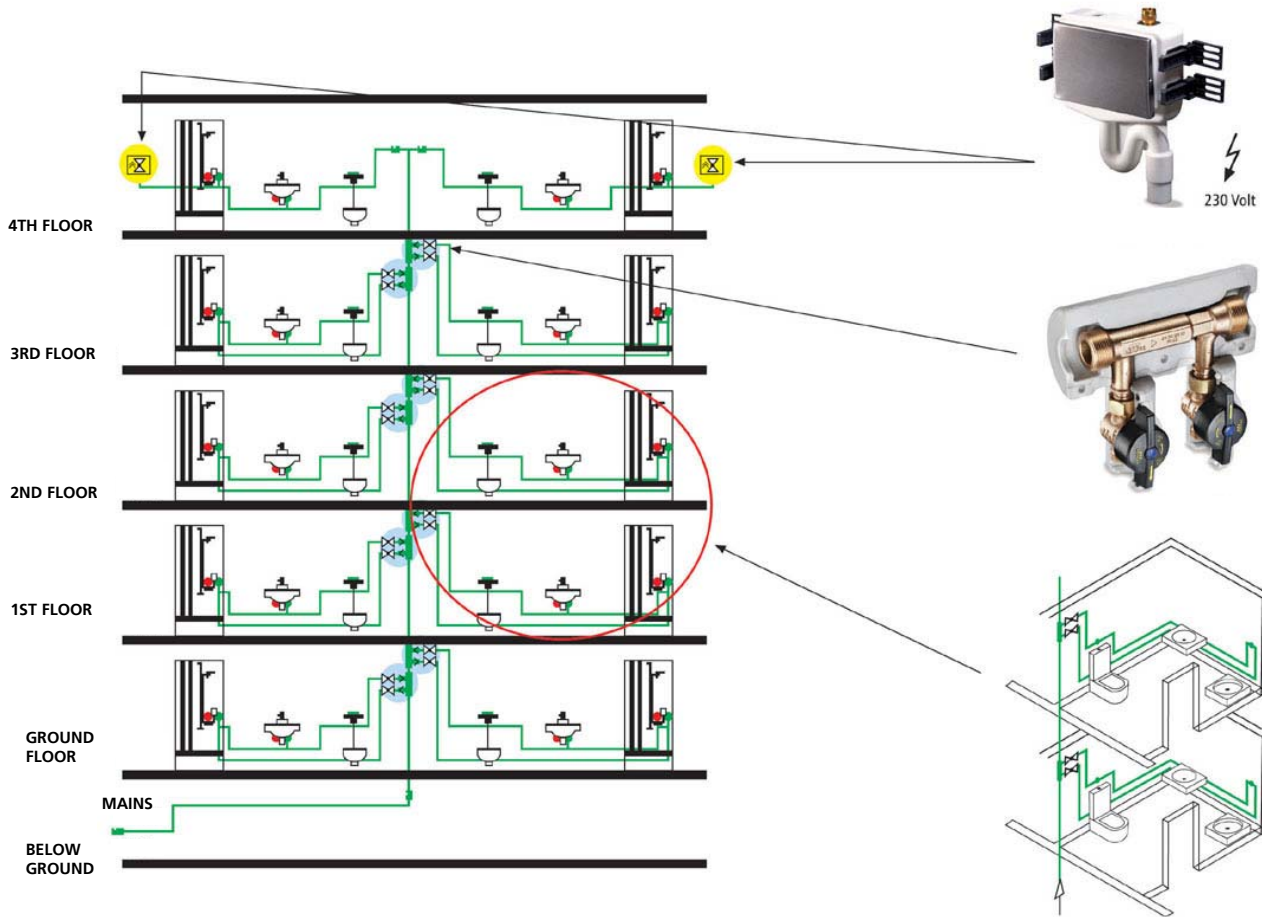
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The design concept of the KHS-Multi-Circ Distribution Unit



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Multi-Circ units in branches, with Flushing Units; in a non metered building

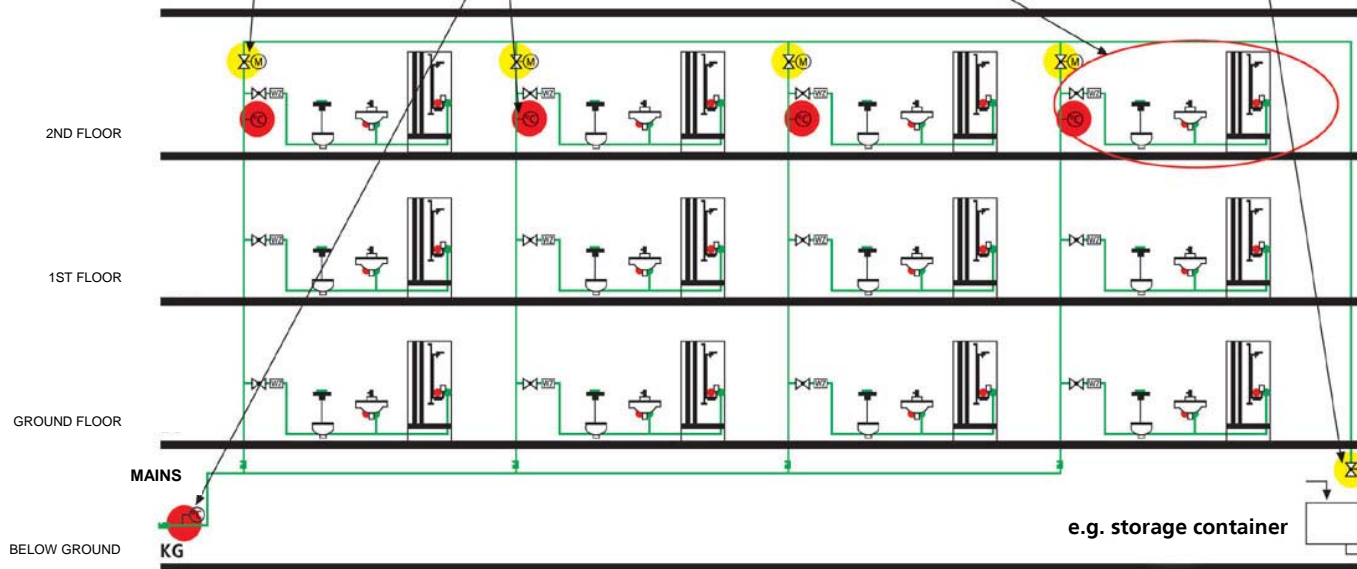
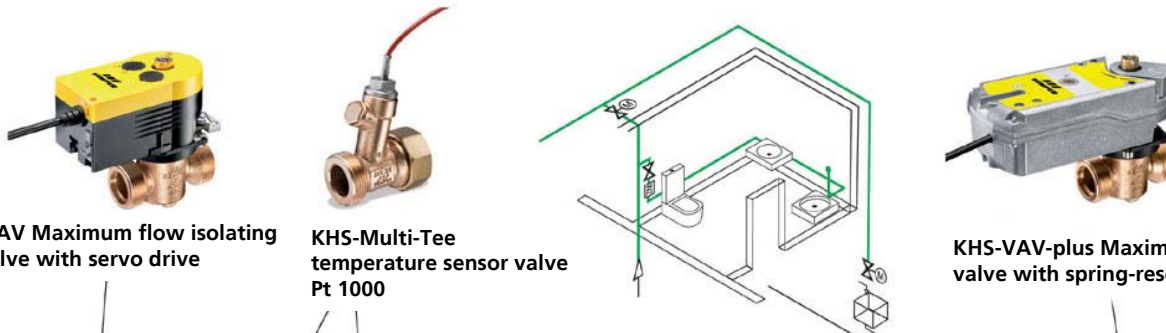


KHS Flushing Units and
KHS-Multi-Circ
distribution units in the
branches



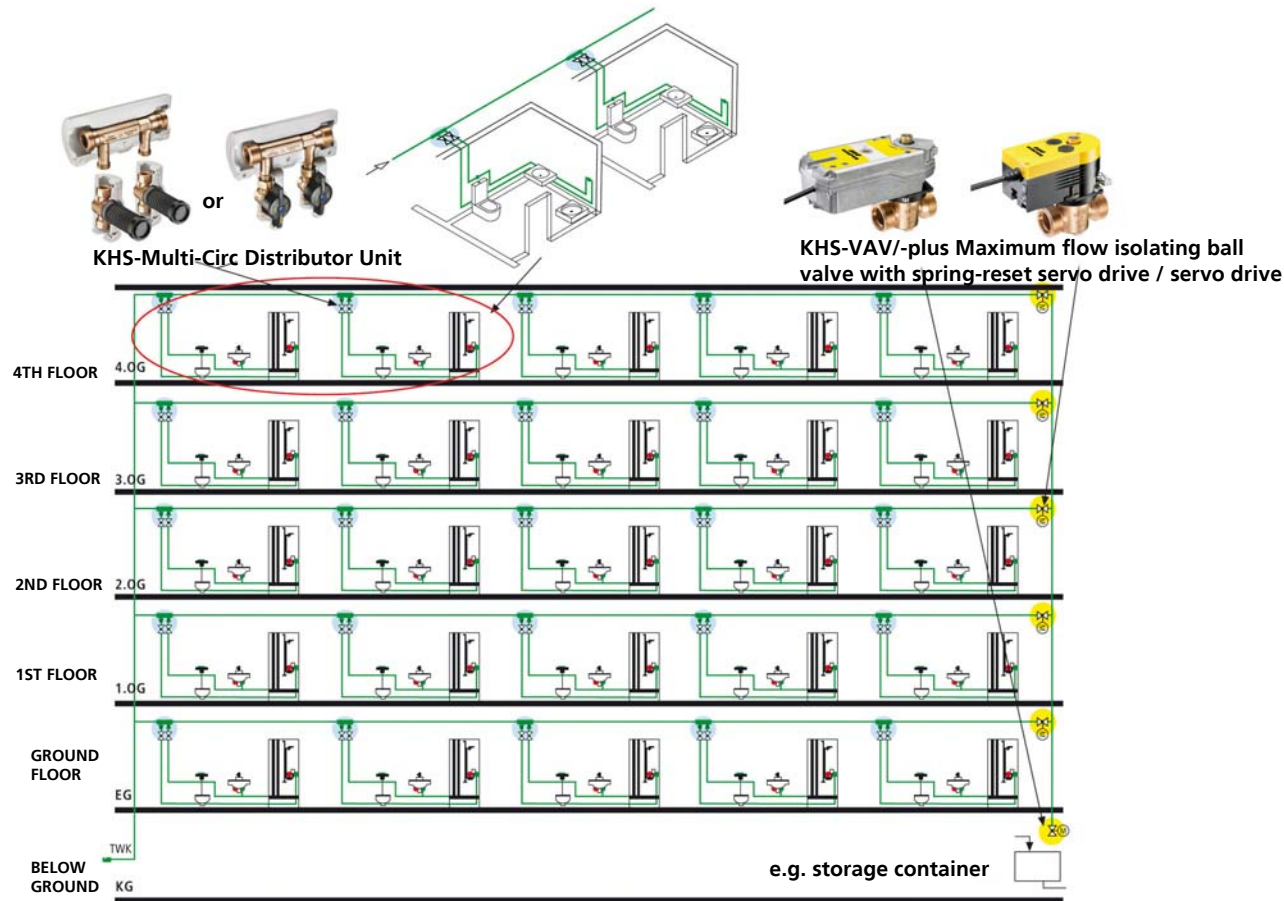
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Automatic riser flushing and water metering - e.g. for use in apartments



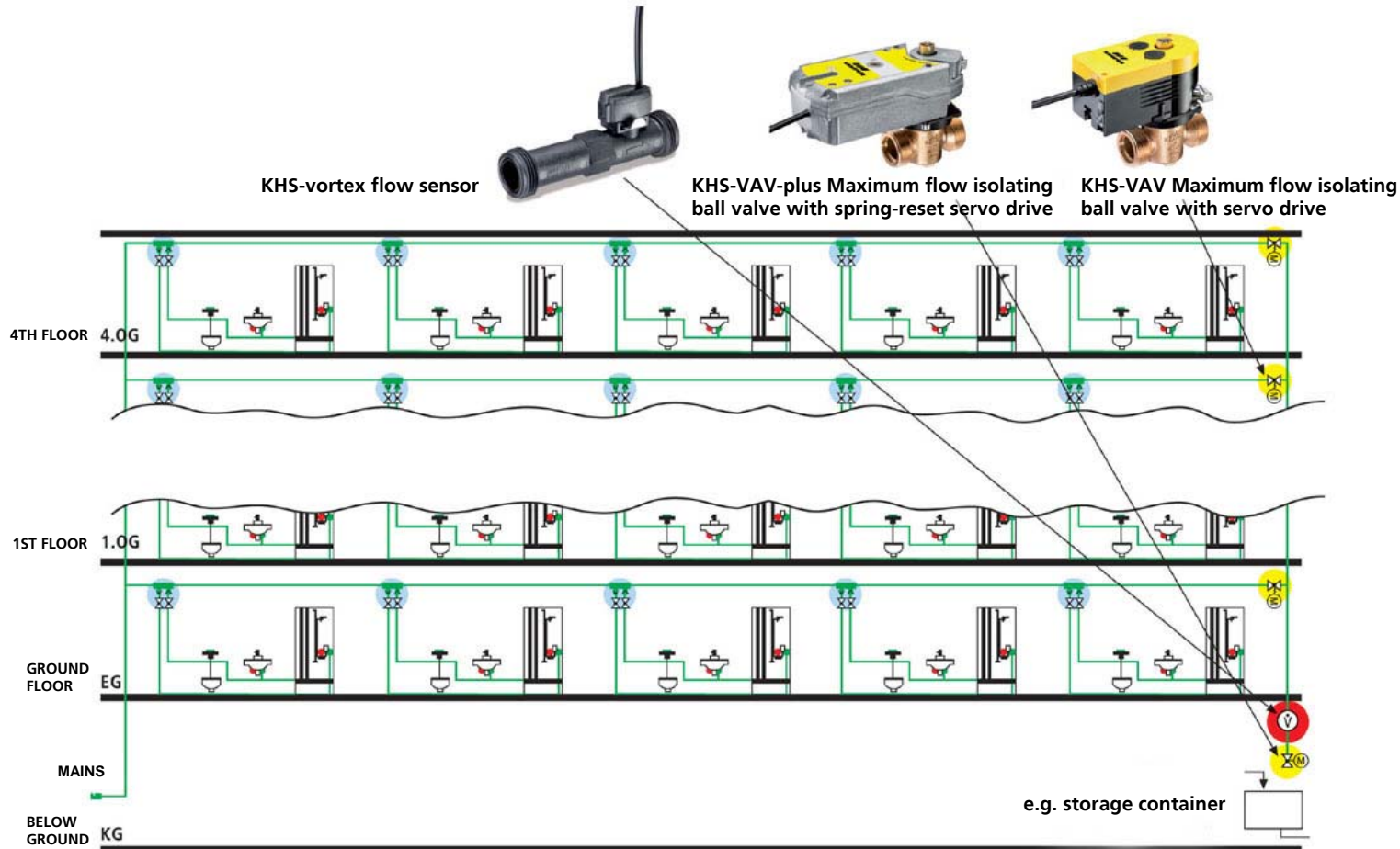
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Multi-Circ units for use in multi-storey buildings - in a non metered application



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The flushing process showing actuated valves, meter and sensor:
by volume or time



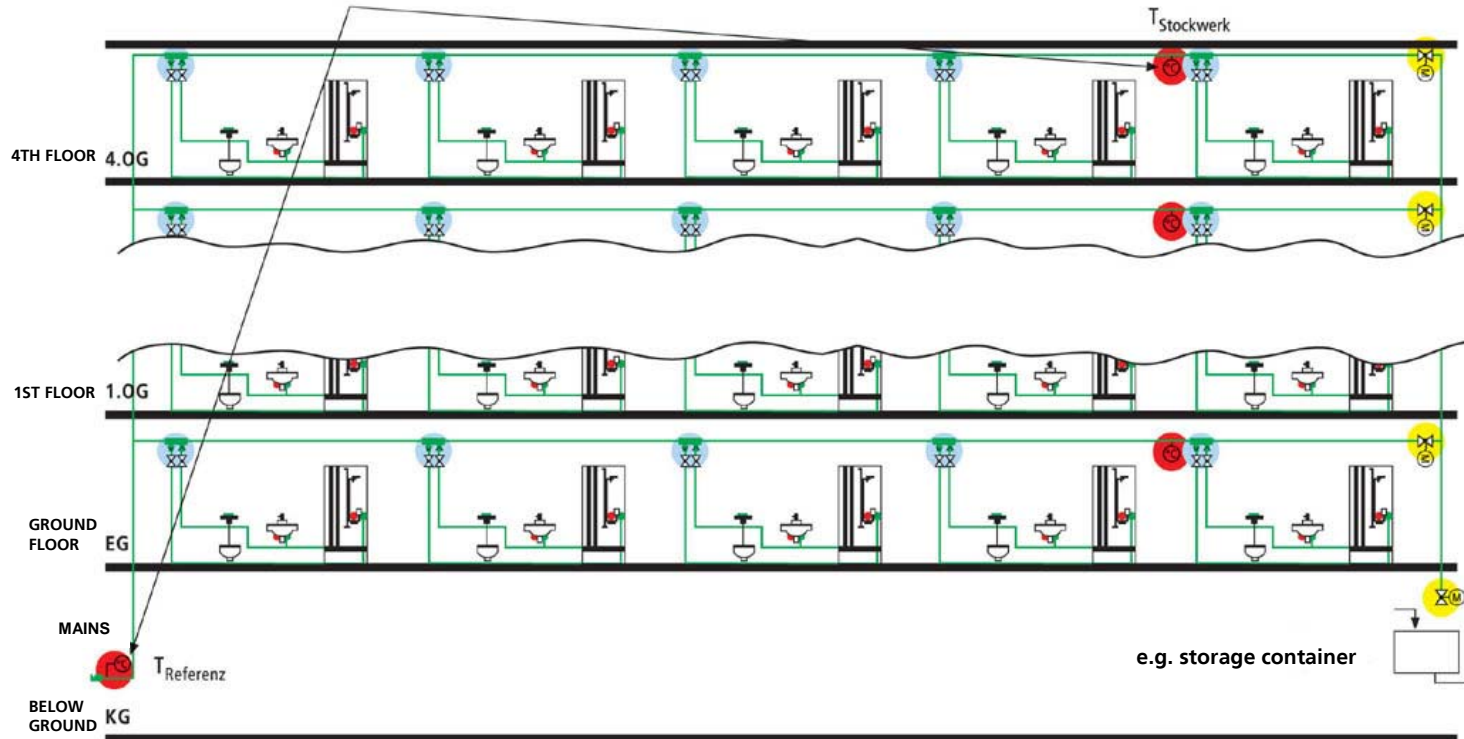
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Temperature controlled flushing process

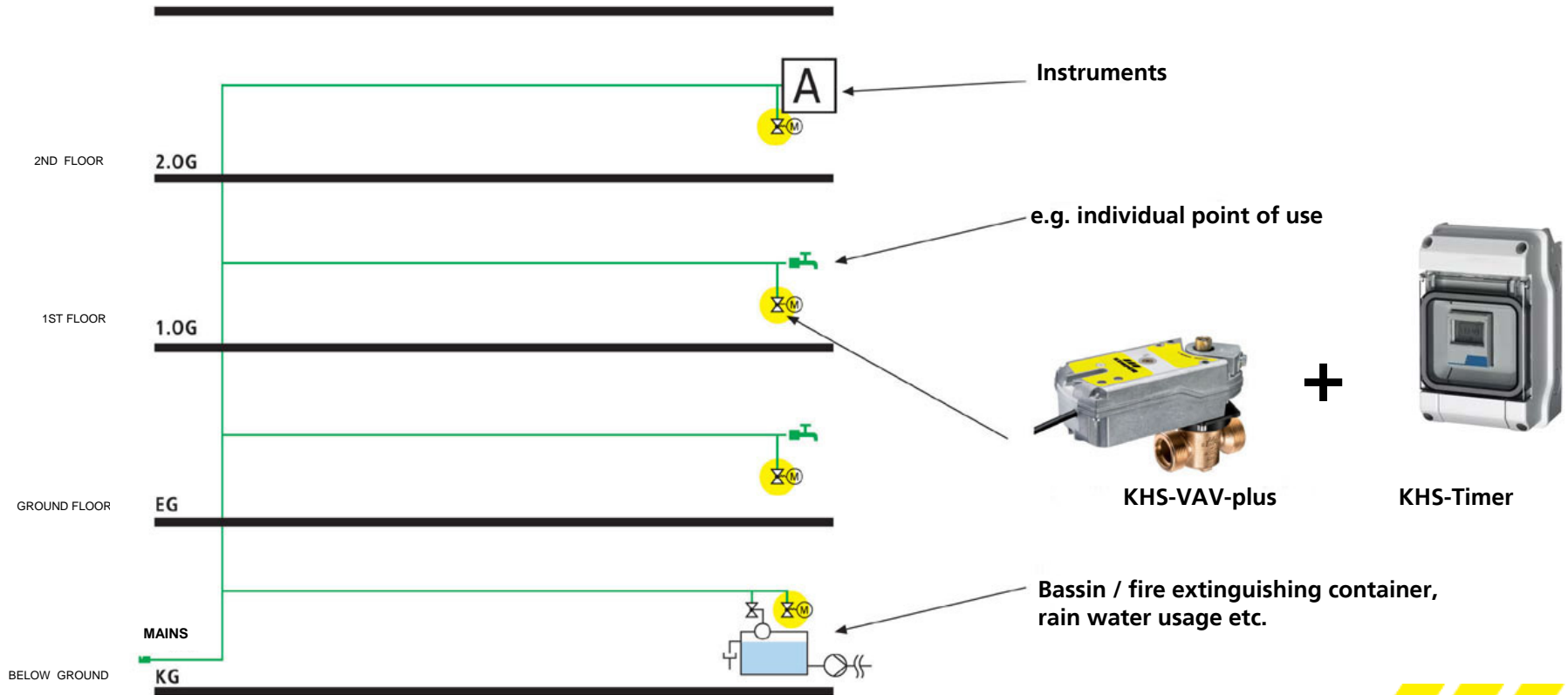


KHS-Multi-Tee temperature sensor valve Pt 1000



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Flushing process for seldom used pipes



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KEMPER Hygiene System - Products



KHS-VAV Maximum flow isolating ball valve with servo drive
Figure 686 00



KHS-VAV-plus Maximum flow isolating ball valve with spring-reset servo drive
Figure 686 01



KHS-Logic Control System
Figure 686 02 001

Includes: configuration software and control modules for the sensors and actuated valves. Offers control by time, volume and temperature



KEMPER Hygiene System - Products



KHS-Timer Set
consisting of digital clock
timer and VAV with
servo drive 230 V



KHS-Drain with
overflow monitor
Figure 688 00



Orifice for KHS-VAV
Maximum flow isolating
ball valve with spring-reset
servo drive Figure 687

KEMPER Hygiene System - Products



KHS-Multi-Tee temperature sensor valve Pt 1000 with male union Figure 628 0G



KHS-Multi-Tee temperature sensor valve Pt 1000 with male union Figur 629 0G



KHS-vortex flow sensor with male threads Figure 638 00

KEMPER Hygiene System - Products



KHS-Multi-Circ Distributor Unit for concealed application within a washing facility, complete with KHS-VAV Maximum Flow Isolating Valve and insulating shell
Figure 640 00



KHS-Multi-Circ Distribution Unit in a concealed application e.g. shafts or corridor areas, complete with KHS-VAV Maximum Flow Isolating Valve and insulating shell
Figure 640 02



KHS-hygienic flushing unit with control valves and cover
Figure 686 03 001

