

Press release

Viega at the ISH 2025: Hall 4.0, Stand B02/B20

Viega connects the energy transition in buildings.

Intelligent and economical system solutions for more energy efficiency

Frankfurt/Attendorn, 17 March 2025 - Climate change is probably the greatest challenge of our time. The construction and housing industry in particular is faced with the challenge to significantly reducing climate-damaging CO₂ emissions. This can be achieved above all through the intensive use of renewable energies and the reduction of energy consumption for heating and hot water. Viega contributes to the highly efficient connection of the necessary systems and installations with tailor-made press connector and heat distribution systems as well as solutions in the field of potable water.

In the European Union, buildings account for around 40 % of energy consumption and 36 % of CO₂ emissions (source: European Commission). Most of this energy is used for space heating (64 %) and hot water (16 %) (source: Destatis 2024). To reduce this energy demand, heat generation, distribution and use must be considered much more holistically than before and implemented in more efficient technical building equipment. As one of the global market and innovation leaders in the installation industry, Viega offers intelligent system solutions based on its expertise in installation technology, potable water and digital construction. They link the entire process from regenerative heat generation to heat utilisation in both new and existing buildings - from heat pumps, solar thermal systems, eco-heating or gas networks, through distribution and storage, to heat transfer, cooling or hot water preparation.

Press connector systems for every application

Piping systems play a particularly important role in the energy transition. They are the essential link between heat sources and heat use, whether in the form of space heating or water at the tap.

With a wide range of press connector systems made of copper ("Profipress"), stainless steel ("Temponox"), galvanised steel ("Prestabo") or unalloyed steel

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("Megapress") as well as dimensionally stable multi-layer composite pipes ("Raxofix"), Viega offers planners and installers all the options for heating and cooling installations in both new and existing buildings. What they all have in common is the economical and reliable press connection technology, which, depending on the press connector system and nominal diameter, saves up to 80 % of working time compared to welding or soldering. In addition, no open flame is required for pressing pipe connections. This ensures additional safety during installation. Just like the Viega SC-Contur, which ensures that any connection points that are accidentally not pressed will visibly leak.

The numerous tailor-made components that simplify the connection of heat pumps or radiators, for example, also make a significant contribution to fast and thus economical installation with Viega press connector systems. These installation components replace time-consuming (and therefore costly) individual adjustments on site. The customised components are also very easy to install. This means that the work can also be carried out by trained personnel - helping to combat the shortage of skilled labour.

Energy-saving "Fonterra" heat distribution

The lower the flow temperature in the heat distribution system, the more efficient renewable energies are. As a system provider, Viega offers an appropriate range of "Fonterra" surface temperature control systems: In contrast to conventional heat distribution via radiators or heaters, the flow temperature can be reduced to an energy-saving approx. 35 °C with the "Fonterra Base" nubbed panel system or the "Fonterra Reno" system specially developed for renovations, for example. The radiant heat allows the room temperature to be lowered by around one to two Kelvin. Together with the lower supply temperature, this saves over 20 % of primary energy. The lower temperature range makes the "Fonterra" systems ideal for heat generators such as heat pumps.

Viega offers the intelligent individual room control systems "Fonterra Smart Control" and "Fonterra Heat Control" to save energy without great effort when renovating the heat distribution in existing buildings. The easily retrofittable control systems ensure an even supply to all rooms or heating circuits by means of automatic hydronic balancing - and thus reduce energy costs by up to 20 %.



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Hot water in thermal balance

Especially in well-insulated buildings, the heating load is increasingly shifting from heat generation to hot water production. There is a simple physical reason for this: the heat requirement for heating decreases due to lower transmission heat losses, but the energy requirement for hot water preparation remains the same or even increases due to higher comfort requirements. Viega offers a multi-stage approach to this heat sink as part of its holistic view of energy flows in buildings.

The first step is to design the domestic hot water installation to meet demand minimising the volume of potable water hot (PWH) that needs to be stored. As a result, less potable water generally needs to be heated. Clearly structured, simple potable water networks without superfluous circulation pipes also reduce the volume of hot water in the pipelines and therefore the amount of energy required to heat water. The innovative "AquaVip circulation regulating valves" ("AquaVip Zirk-e") should also be used in necessary circulation pipes. Equipped with a temperature sensor and their own control system, the "AquaVip Zirk-e" from Viega then keep the temperature of the potable water virtually constant. This works even without a dedicated calculation of the volume flows in existing potable water installations. The energy benefit: the temperature difference between the outlet and reentry temperature of the storage tank, which is a maximum of five Kelvin and is required by standards for hygiene reasons, is maintained throughout the entire distribution network.

Huge potential in existing buildings

Figures from the European Commission show the urgent need for such energy-saving installation systems, especially for the energy-efficient renovation of existing buildings. According to these figures, around 35 % of buildings in the EU are more than 50 years old and almost 75 % of the building stock is energy inefficient. At the same time, the average annual rate of energy renovation is only around one per cent. According to a study by the real estate company McMakler, more than 75 % of all existing buildings in Germany, for example, are in efficiency classes D to H. This means that they have a primary energy requirement of 100 to sometimes even more than 250 kWh/m²a. The market potential here is immense and will keep the industry busy for many years and decades to come. However, isolated solutions such as the simple installation of a heat pump, photovoltaic system or panel heating with a lower flow temperature will not be effective in driving forward the energy



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transition in these properties. Instead, what is needed are overall concepts for resource-saving building technology that can only be developed in close cooperation with experts and implemented with intelligent system solutions such as those from Viega.

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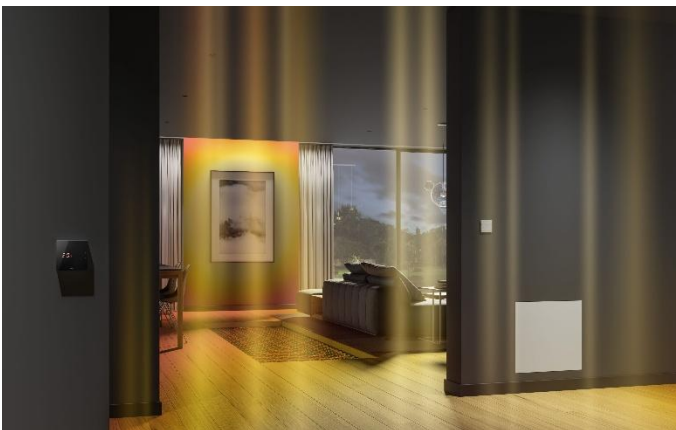


Image 1 (PR_ISH_Waerme-und-Energieeffizienz_202501.jpg): Viega ensures precise heat distribution and a pleasant room climate - with intelligent technologies that also save energy and thus help to reduce CO₂ emissions. (Photo: Viega)



Figure 2 (PR_ISH_MegapressS_EN_202503): For the secondary connection of compact heating systems, Viega offers the "Megapress S" press connector system, which can withstand high thermal loads and can also be pressed with the steel pipes typically used in district heating networks. (Photo: Viega)

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Image 3 (PR_ISH_Connection_HeatPump_EN_2025-03): Monobloc heat pumps installed outdoors can be easily connected to the hydraulic station in the house thanks to the appropriate connection sets from Viega's "Temponox" stainless steel press connector system. (Photo: Viega)

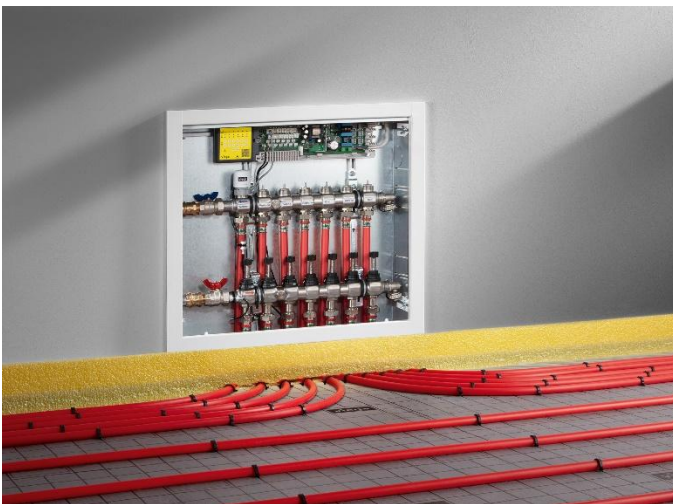


Image 4 (PR_ISH_FonterraHeatControl_202501.jpg): The plug-in "Fonterra Heat Control" individual room control system automatically and dynamically balances the hydraulic systems of up to twelve heating circuits. This reduces energy consumption and thus energy costs by 20 %. (Photo: Viega)

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Image 5 (PR_ISH_Zirk_e_Eching_EN_2024_05): "AquaVip electronic circulation regulating valves" keep circulation pipes in a thermal-hydraulic balance. This helps to maintain potable water hygiene and saves energy at the same time.

About Viega:

Viega is an expert in healthy potable water in buildings and a global market and technology leader in the installation sector. As a quality-focused family business employing more than 5,500 people throughout the world, the company has over 125 years of experience in building technology. Its core areas of expertise include maintaining and developing potable water hygiene, energy efficiency, comfort and safety in buildings. With ten locations around the world, the company group produces more than 17,000 products and systems.

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