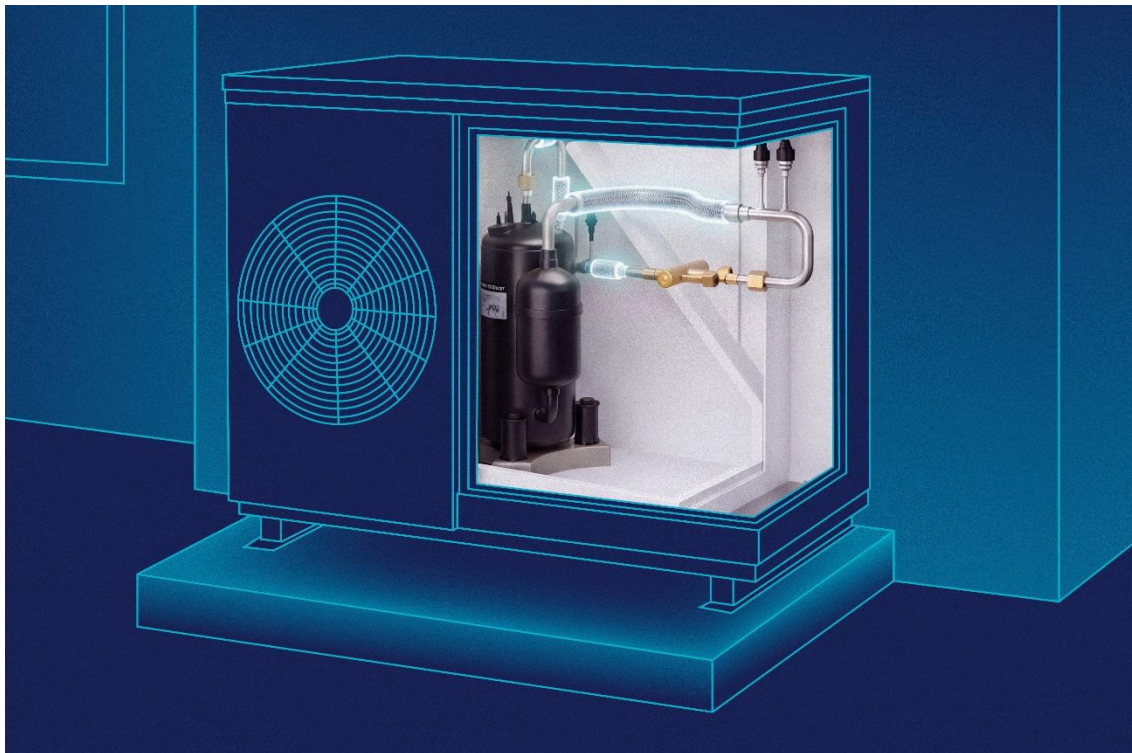


Press Release

Pforzheim, 22 October 2026

Chillventa 2026 recap: Witzenmann presented solutions for the industrialisation of heat pumps

As the heat pump become the dominant heating technology in the building sector, manufacturers face the challenge of producing higher-performance units that are both economical and industrially scalable. At Chillventa 2026 in Nuremberg, Germany, Witzenmann – a specialist in flexible metallic piping systems – showed from 13 to 15 October how the refrigeration circuit can be made more production-friendly: with flexible pipes for the compressor connection and an innovative, detachable screw-fit connection, which was unveiled to the public for the first time at the event.



With flexible pipes and a screw-fit connection solution in the refrigeration circuit, Witzenmann supports the industrialisation of heat pumps. (Image source: Witzenmann)

The heat pump is regarded as one of the key pillars of the energy transition – and manufacturers are accordingly under growing pressure to produce it economically in large volumes. This also puts the piping of the refrigerant circuit in the spotlight: alongside efficiency and tightness, it has a direct bearing on installation space, weight, noise emissions and assembly effort – precisely the factors that determine whether a unit is fit for series production. The connection to the compressor is particularly critical: during operation, the compressor generates vibrations that can be transmitted

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through the pipework to the rest of the unit. The conventional response is generously bent copper pipes, which take up space, use more material and extend assembly time. Witzenmann's flexible stainless steel pipes take a different approach: they absorb the movement directly within the pipe itself, allowing for a considerably more direct and therefore more compact pipe routing. "Compared to copper pipework, this saves up to 80 per cent in installation space and weight," explained **Johannes Schweitzer, Head of Sales Building Solutions at Witzenmann**, at the trade fair. It also cuts material costs and reduces noise emissions thanks to improved vibration decoupling. Visitors to the booth could experience the difference first-hand: an interactive motion model compared rigid copper piping with a flexible pipe, demonstrating vibration isolation on a compressor mounted on a shaker plate.

New screw-fit connection makes the refrigeration circuit modular

With government subsidies for heat pumps declining, manufacturers are under growing pressure to make production more cost-effective. One clear trend in response is modularisation. So far, this has been held back by conventional brazing: while it creates leak-tight connections, it also turns the refrigeration circuit into an inseparable unit – resulting in long process chains, labour-intensive flame or induction brazing, extensive testing requirements and little scope for parallel assembly. At Chillventa, Witzenmann therefore presented a newly developed, screw-fit connection solution that is easy to assemble, tight, and compliant with the refrigeration standard EN 14903. It is also designed for the natural refrigerant R290. The key advantage: the detachable connection makes it possible to divide the refrigerant circuit into pre-assembled, individually testable modules – making it a trailblazer for modular series production. Alongside solutions for the refrigerant circuit, Witzenmann also presented components for the heating circuit at Chillventa 2026.

Development partner from design to series production

Whether a heat pump can be produced cost-effectively is decided early on, during the development phase of the unit. If manufacturers want a more compact, modular compressor assembly, flexible piping systems need to be factored into the design from an early stage. Witzenmann therefore supports heat pump manufacturers as an experienced development partner from the very start – from the analysis of specific load cases through prototyping to lifetime and leak-tightness testing on its own test rigs. With its presence at Chillventa 2026, Witzenmann underlined its role as a development partner for the industrialisation of heat pump manufacturing.

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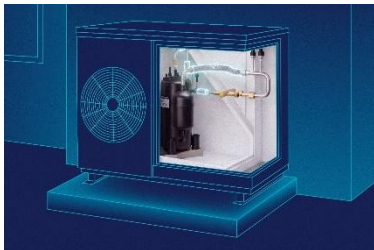
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Images and captions



Caption: With flexible pipes and a screw-fit connection solution in the refrigerant circuit, Witzenmann supports the industrialisation of heat pumps.

Image source: Witzenmann GmbH



Caption: Installed in the refrigerant circuit, the flexible pipes effectively decouple compressor vibrations, reducing noise emissions, installation space, assembly effort and the risk of leaks while maintaining high efficiency and tightness (schematic, anonymised illustration).

Image source: Witzenmann GmbH



Caption: Flexible stainless-steel lines absorb movement and vibration by design, rather than having to dissipate it through the pipe geometry.

Image source: Witzenmann GmbH

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Caption: Witzenmann's booth at Chillventa 2026 in Nuremberg – featuring the interactive motion model.

Image source: Witzenmann GmbH

Image material can be downloaded here:

<https://share.followred.com/index.php/s/bfeYG7NT2JWNbKc>

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