

## New heat pump demonstrator from ebm-papst

# Integrated system solution for more efficient and scalable heat pumps

**The transformation of heating technology requires readily available, systematically designed solutions for heat pumps. With a new heat pump demonstrator at its Landshut site, ebm-papst is showing how key components and technologies can be integrated into a single, cohesive system.**

The demonstrator consists of a fully functional air-to-water heat pump (monoblock) serving as a reference and development platform. The focus is on the interaction between the fan, evaporator system, refrigeration circuit and electronics. In addition to ventilation components, ebm-papst integrates key subsystems—such as inverter electronics, a refrigeration control unit and high-speed turbo compressors—into a coordinated overall concept. “Anyone who wants to help shape the heat pump of the future must understand the entire system,” explains Managing Director Dr. Hannes Säubert. “The heat pump demonstrator lays the foundation for this. It helps us build system expertise and support our customers even more effectively as equal development partners in the future.”

### Focus on integrated system solution

From a technical standpoint, the system combines a fan with a microchannel evaporator, in which air is actively guided through the evaporator. This concept is complemented by the compact CompaNamic high-speed turbo compressor and inverter electronics designed for very high rotational speeds. The compressor operates oil-free, reducing vibrations and improving the system’s overall efficiency. The integrated inverter electronics enable precise, highly dynamic control with high levels of efficiency through an intelligent refrigeration circuit control system that networks actuators and sensors while communicating via Modbus. The demonstrator is designed for a heating capacity of 23 kW at hot water temperatures up to 70 °C as well as an operating range of –10 to 30 °C, employing propane (R290) as the refrigerant.

### Transformation of heating technology

“The heating transition is fundamentally changing our market and presenting the industry with major challenges. That is why we are specifically expanding our expertise in Landshut for the heating technology of the future,” says Dr. Klaus Geißdörfer, CEO of the ebm-papst Group. “The heat pump demonstrator is an important step in this direction.” ebm-papst is also underscoring the strategic importance of the technology for Bavaria as an industrial location, a fact highlighted when the demonstrator was commissioned by the Bavarian Minister-President, Dr. Marus Söder, on July 9, 2026. As Söder emphasized, “Advanced engineering and technology make our economy strong.” With the demonstrator and its integration into the Refrigeration Innovation Center, ebm-papst is creating a development environment in which real-world operating conditions can be simulated. The goal is to provide manufacturers of heating and air conditioning technology with comprehensive system expertise and to make the next generation of heat pumps more efficient, quieter and more compact.

Mulfingen, July 21, 2026

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Image 1: Heat pump demonstrator from ebm-papst: The demonstrator combines a fan, evaporator, oil-free refrigeration circuit, high-speed turbo compressor and electronics into a single integrated system.



Image 2 (from left to right): Hans-Joachim Klink, Vice President of R&D for Heating Technology; Dr. Klaus Geißdörfer, CEO of the ebm-papst Group; Bavarian Minister-President Dr. Markus Söder; Dr. Hannes Säubert, CEO of Heating Technology; Thaddäus Hinterberger, Project Manager; and Landshut Mayor Dr. Thomas Haslinger.

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Images ebm-papst  
Characters approx. 3,100, with headlines and sub-headlines  
Tags Heat pumps, evaporators, refrigeration cycle, inverter electronics, high-speed turbo compressors, heat reversal, Dr. Markus Söder  
Link [www.ebmpapst.com](http://www.ebmpapst.com)

### About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors. Since it was founded in 1963, the technological leader has set international industry standards with its core competencies in motor technology, electronics, digitalization and aerodynamics.

ebm-papst offers sustainable, intelligent and tailor-made solutions for virtually every requirement in ventilation and heating technology. ebm-papst sets the benchmark in sectors from ventilation, air conditioning and refrigeration technology to heating technology, information technology, mechanical engineering and medical technology.

In the 2025–26 financial year, the Group generated a turnover of 2.24 billion euros. It employs just nearly 13,000 people at 30 production sites including in Germany, China and the US, as well as around 50 sales offices worldwide.

Within the ebm-papst Group, Landshut is the headquarters of the global heating technology division. This division covers all heat generation and heat distribution applications, regardless of the energy source—be it natural gas, “green gases”, electricity or biomass. ebm-papst Landshut is also working on future-oriented system solutions in the heat pump and heat distribution fields, as well as on relevant electronics.

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