

ebm-papst in hall 8, booth F91

Energy-Efficient and Digital Solutions at ISH in Frankfurt

In keeping with the motto of this year's ISH "Solutions for a sustainable future," ebm-papst will be presenting its broad product portfolio for air, air conditioning, and heating technology from March 17 to 21, 2025 in hall 8 at booth F91. Alongside the various products and applications, digital solutions will also increasingly be in the spotlight.

Intelligent fans for residential ventilation

The AxiRev has been designed specifically for push-pull scenarios in decentralized residential ventilation applications and always delivers a constant air flow in both directions of rotation, even if the wind force changes. The new RadiCal 2 series and the RadiCal in a scroll housing have been developed for central residential ventilation units. The vane anemometer in the outlet of the scroll housing enables automatic control to provide a constant air flow. This makes it suitable for intelligent ventilation, which ensures a predetermined amount of air is exchanged in living spaces. This vane anemometer is now also available in 4 sizes as a standalone component for installation in ventilation systems. With the aid of an additional controller, the RadiCal in a scroll housing also acts as a sensor ("Fan as a Sensor"). When the filter becomes soiled, the controller emits a warning in good time to indicate that it needs to be replaced. This helps to make the most of further potential energy savings.

Powerful new RadiPac fan with active PFC

The 3rd-generation RadiPac fans have been developed for use in air conditioning and ventilation units. Most notably, these models stand out with their high level of efficiency and good noise rating. In addition to the RadiPac C featuring an impeller made of composite material, a new RadiPac fan is now being presented in size 800 with a metal impeller and motor size 214. This model is available in a compact support bracket for simple wall mounting and with the FlowGrid air-inlet guard. One of the features is the 3-phase active PFC (Power Factor Correction), which is designed to prevent current harmonics from occurring in the first place. This allows infrastructure components for energy and emergency power supply to be designed to be smaller, making them more cost-effective – an important consideration for FanGrid applications or precision air-conditioning units.

Sustainable heating technology: One step closer to a systems supplier

When it comes to heat pumps, it's not just efficiency that's important, the noise level is also key. To rise to this challenge, ebm-papst has set a benchmark in noise emissions with its AxiTone series. By contrast, the AxiEco plug-in series focuses on a lightweight design and simple installation in heat pump applications. The new inverter electronics not only impress with their quieter compressor actuation, they are also very energy-efficient. In addition, ebm-papst helps manufacturers to develop new generations of heat pumps by providing tailored components and thinking about applications holistically. In terms of gas condensing units, the CleanEco Sense combustion control ensures safe and reliable operation with hydrogen. ebm-papst will also be exhibiting a sustainable, compact, and

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future-proof solution for heating air-driven heating systems, as shown by the hydrogen-powered heat generator.

Digitalization solutions from a single source for a wide range of applications

ebm-papst offers highly efficient hardware for air and heating technology, optimized to meet the needs of each specific application. In order to meet increasing customer demands for lower costs, improved energy efficiency, and sustainability, the company is now taking the next step toward digital solutions. They are tailored to the specific needs of the various customers – from installers and service companies to manufacturers, system operators, and data center operators. No matter whether it's a new or existing system, the digital services make a real difference in numerous ways, including optimized maintenance intervals, improved operational reliability, and further potential energy savings. In data center cooling systems, for example, this can even be seen at system level.

ebm-papst with two expert presentations at ISH:

“Smart-smarter-retrofit – achieve energy savings of up to 60%”

Retrofits can deliver energy savings of up to 60%, huge CO₂ savings, and failsafe performance. This presentation explains how it all works, what is required, when a retrofit makes sense, and what benefits are associated with a digital retrofit.

Speaker: Olf Jännsch (Director Solution Sales at ebm-papst neo) and Simon Echle (Director Global Retrofit ebm-papst)

Language: German

Date: Tuesday, March 18, 2025 at 12:30 – 12:55

Location: Hall 12.1 – E03

“Step into the new era of intelligent air and cooling technology with ebm-papst”

ebm-papst's solutions combine the state-of-the-art hardware found in modern fans with digital functions and services. Additionally, they can even optimize cooling circuits at system level, such as in data centers. Users profit from energy-efficient fans and numerous highly profitable and AI-based additional benefits.

Speaker: Olf Jännsch, Director Solution Sales at ebm-papst neo

Language: German (presentation in English)

Date: Wednesday, March 19, 2025 at 15:00 – 15:25

Location: Hall 12.1 – E03

More product solutions for the various air, air conditioning, and heating technology applications will be on display at the trade show booth. Various functional models will provide visitors with greater insights. You can register for a free trade show ticket at www.ebmpapst.com/ish.

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Fig. 1: Efficient fans for centralized residential ventilation: The RadiCal 2 (left) and the RadiCal in a scroll housing with integrated control to ensure a constant air flow (right). The vane anemometer is now also available separately (front).



Fig. 2: New RadiPac fan in size 800 with metal impeller, new motor size 214, and active PFC



Fig. 3: Digital solutions make a real difference and will be in the spotlight at ISH.

Images	ebm-papst
Characters	approx. 5,400, including headings and sub-headings
Tags	Residential ventilation, AxiRev, RadiCal 2, RadiCal in scroll housing, digital solutions, AxiTone, AxiEco plug-in, CleanEco Sense, hydrogen, retrofit
Link	www.ebmpapst.com/ish

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About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen, Germany, 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.

In the 2023/24 financial year, the Group generated turnover of EUR 2.408 billion. It employs just under 14,000 people at 30 production sites (including in Germany, China, and the U.S.) and in 50 sales offices worldwide. ebm-papst sets the benchmark in almost all sectors, such as ventilation, air conditioning and refrigeration technology, heating technology, information technology, mechanical engineering, intralogistics, and medical technology.

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