

High-performance axial fans for refrigeration and air conditioning technology

More power, more flexibility

Fan and motor specialist ebm-papst is expanding its proven AxiBlade series with the new AxiBlade.Perform fans in EC technology. The powerful axial fans are custom designed for applications in refrigeration and air conditioning technology, such as evaporators, condensers, and chillers, while offering increased air performance and flexible installation options.

High air flow with new sizes

The new AxiBlade.Perform fans are available in sizes Ø 860 mm and Ø 950 mm and now enable even higher volume flows. The newly developed plastic wall ring ensures stable air flow in both delivery directions, i.e. suction or pressure. At the heart of the AxiBlade.Perform fans are efficient impellers crafted from high-quality composite material. Their profiled blade geometry, featuring integrated winglets, guide vanes, and a diffuser, achieves high energy efficiency over a wide operating range, while keeping noise at a minimum.

Flexible installation with intuitive features

The plug-and-play design ensures quick and easy installation and direct 1:1 replacement of the fans. Additionally, the new wall ring provides versatile mounting options - whether used as a flat top, on the suction or pressure side, or in a vertical or horizontal orientation. Other practical features include the side-mounted terminal box, four pressure taps for differential pressure or volume flow measurement, and preparation for the use of a flow grid, which effectively reduces tonal noise. Optionally, a heating band can be installed in the wall ring to prevent ice formation, especially for use in evaporators.

Intelligent communication and connectivity

AxiBlade.Perform fans support both MODBUS-RTU and the ebm-papst NEXAIRA cloud connection. This allows operating data to be recorded and evaluated in real time and used for predictive maintenance, which is an ideal prerequisite for intelligent HVAC systems.

Future-proof and ErP compliant

With IP55 protection, an operating range from -40 °C to +60 °C, environmental class H2, and a compact design, the new AxiBlade.Perform fans are designed for a wide range of applications and demanding environmental conditions. They already meet the requirements of the Ecodesign Directive and Fan Regulation 2026, offering a long-term, future-proof solution for OEMs and plant operators.

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Image: New AxiBlade.Perform fan for increased airflow and flexible installation

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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. ebm-papst sets the benchmark in almost all sectors, such as ventilation, air conditioning and refrigeration technology, heating technology, information technology, mechanical engineering and medical technology.

In the 2024/25 financial year, the ebm-papst Group generated a turnover of 2.1 billion euros. The company employs just around 13,500 people at nearly 30 production sites, including in Germany, China, and the U.S., as well as at approximately 50 sales offices worldwide.

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