

Energy efficiency guarantee complements data-driven plant optimization

Greater certainty for retrofit projects

Rising energy prices and the need to modernize existing HVAC systems are putting increasing pressure on building operators. At the same time, uncertainty about potential energy savings often complicates investment decisions. ebm-papst is therefore expanding its NEXAIRA.Fit retrofit solution to include a guarantee of projected savings through efficiency optimization.

Retrofit and digitalization

NEXAIRA.Fit combines the modernization of existing ventilation systems with digital services. As part of a retrofit, outdated fans are replaced with highly efficient EC fans and connected to the digital NEXAIRA ecosystem. This allows operating conditions, energy consumption, and savings potential to be transparently recorded and continuously evaluated. Simply replacing the fan technology can generate energy savings of up to 50 percent. With additional digital optimization features, savings of up to 70 percent are possible, depending on the application and operating conditions.

Data-driven validation

A new feature of NEXAIRA.Fit is the energy efficiency guarantee, which is based on real-time operating data and analytical methods for evaluating actual system performance. The goal is to address discrepancies between projected and actual energy savings and to make the economic viability of retrofit projects easier to plan. The guarantee model is financially backed by Great Lakes Insurance SE, a subsidiary of Munich Re. However, the guarantee itself is issued by ebm-papst to the customer.

Greater planning certainty

Assessing the actual savings potential often poses a challenge, particularly when it comes to data-driven optimization measures. The combination of retrofitting, digital monitoring, and an energy efficiency guarantee is intended to reduce investment risks and improve the predictability of the return on investment. At the same time, continuous data collection provides transparency regarding system operation and lays the foundation for further optimization measures.

Real-world results demonstrate potential

Real-world projects demonstrate the potential of NEXAIRA.Fit. At the Rathaus-Center Pankow in Berlin, energy savings of 46 percent were achieved through the modernization of the building's HVAC system. Additional applications at Deutsche Messe AG in Hanover and at the Diakonie-Klinikum Stuttgart highlight the capabilities of highly efficient EC fans in combination with digital operational optimization—including in operational reliability.

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Image: With NEXAIRA.Fit, retrofits can yield savings of up to 70 percent through additional digital optimization features, depending on the application and operating conditions.

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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 almost all sectors, such as ventilation, air conditioning and refrigeration technology, 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.

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