PRESS RELEASE

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Digital retrofit reduces energy costs

Energy consumption at the Pankow Town Hall Center cut nearly in half

Rising energy costs, regulatory requirements, and climate targets are increasing the pressure on commercial building operators to modernize. HVAC systems in particular offer significant potential for savings. A retrofit project at the Pankow Town Hall Center in Berlin demonstrates how existing systems can be optimized without costly new construction.

With NEXAIRA, ebm-papst offers a digital ecosystem for ventilation and refrigeration systems. The solution combines highly efficient EC fans with data-driven analysis and control methods. In ventilation systems, savings of up to 70% of fan-related energy costs are possible.

Efficiency, transparency, and operational reliability

NEXAIRA primarily relies on existing operational and fan data, supplementing it with additional sensors only when necessary. Features such as demand-based airflow control, condition monitoring, vibration analysis, and the detection of contamination in filters and heat exchangers provide a clear overview of the system's condition. This allows maintenance measures to be planned as needed and helps prevent unplanned downtime. Unlike conventional monitoring solutions, which typically trigger an alarm only when a defined differential pressure threshold is reached, this approach enables operators to predict how much time remains before a threshold is reached.

Modernization during operation

At the Pankow Town Hall Center, ventilation systems dating from the late 1990s were modernized. A total of 61 RadiPac EC fans in nine systems replaced the previous belt-driven blowers. The fans are arranged in redundant FanGrid structures and ensure a high level of supply reliability. The integrated EC technology enables demand-based, stepless speed control with high efficiency stability even in the partial-load range, which is the most common operating condition in real-world system operation.

Measurable results

In addition to the hardware modernization, NEXAIRA.Fit allowed for a digital expansion. Operational data such as power consumption, speed, and operating hours are recorded via a gateway, supplemented with temperature, CO_2, and VOC values, and transmitted to the cloud in encrypted form. A central dashboard provides transparency into plant operations. Since implementation in 2021, the town center has achieved energy savings of 46% through 2025. In addition, 130.41 metric tons of CO_2 and approximately 76,000 euros were saved. The payback period is less than three years. Based on these results, the operator is already planning further modernization steps.

Mulfingen, November 11, 2026

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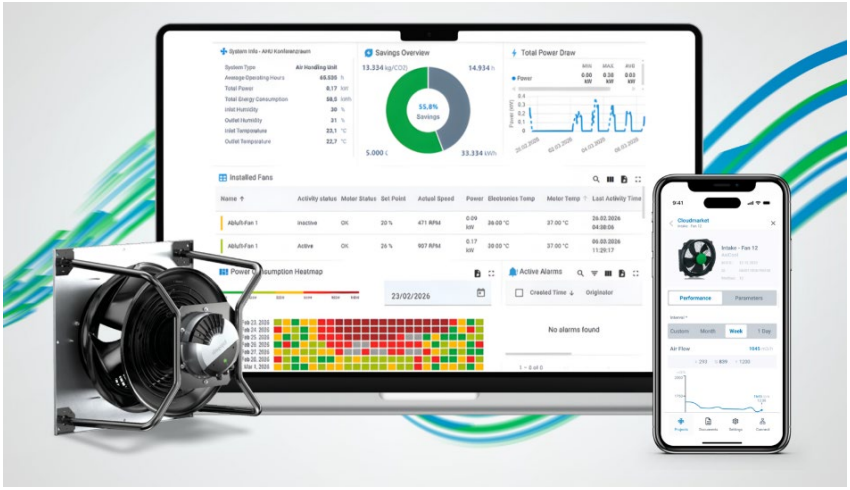


Image 1: With NEXAIRA, ebm-papst offers a digital ecosystem for ventilation and refrigeration systems. The solution combines highly efficient EC fans with data-driven analysis and control methods.



Image 2: The phased replacement of the ventilation systems at the Pankow Town Hall Center energy consumption and maintenance costs by nearly 50%.

Image 1	ebm-papst
Image 2	image from www.mvzpankow.de
Character	approx. .2.600, with headings and sub-headings
Tags	Retrofit, NEXAIRA, EC technology, centrifugal fan, energy saving, RadiPac
Link	www.ebmpapst.com/retrofit Digitales Retrofit spart Energie und Kosten | mag

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About ebm-papst

The ebm-papst Group is a leading global provider of innovative ventilation solutions for air, refrigeration and climate technology, headquartered in Mulfingen, Germany. The company develops and manufactures components for HVAC and cooling applications, combining advanced fan and blower technology with electronics, controls and software & service. For more than 60 years, ebm-papst has set technological standards in aerodynamics, motor technology, electronics and digitalization.

With its energy-efficient and intelligently connected solutions, ebm-papst supports the reduction of CO_2 emissions, digitalization and the development of future-ready infrastructure worldwide. Its technologies are used in a wide range of applications, including data centers, building and heating technology, industrial applications, cleanrooms, cold chains and renewable energy.