PRESS RELEASE

ebmpapst

engineering a better life

Greater efficiency and stable processes

Retrofit at printing plant optimizes ventilation and print quality

Mulfingen, November 16, 2026

A precisely controllable indoor climate is essential for consistent quality in the printing industry. At Mayr Miesbach GmbH, the existing ventilation system was no longer able to effectively regulate the indoor air. Through a retrofit featuring modern EC technology, FanGrid, and intelligent building automation, the system was modernized while remaining in operation.

The existing system, which was approximately 40 years old, operated for about 8,700 hours annually with efficiency levels of only 30 to 40 percent. There was no demand-based control system, so the system operated continuously near full load. In addition to increased energy consumption, wear and tear along with a lack of transparency had a negative impact on operational safety and process stability. However, in the printing industry in particular, even the slightest fluctuations in temperature and humidity lead to quality losses.

Rapid implementation despite complex conditions

The old, belt-driven AC fan alone weighed nearly one metric ton; it had to be disassembled on site and lifted out of the facility by crane. Thanks to precise planning, prefabricated wall and support structures plus compact fan modules, the modernization was completed within three days, and printing operations were maintained throughout the retrofit.

FanGrid increases performance and redundancy

The new system is based on two FanGrid units, each equipped with six third-generation RadiPac EC radial fans from ebm-papst, and now achieves an airflow rate of 80,000 m³/h at approximately 800 Pa. Thanks to the two-unit configuration, the system remains operational even if an individual fan fails: the remaining units take over the load of the failed unit, ensuring operational reliability at all times. EC technology enables system efficiencies of over 70 percent and up to 75 percent per fan. Aerodynamically optimized impellers and the FlowGrid inlet grille reduce noise by 3 to 7 dB(A). At the same time, the combination of EC fans and building automation ensures demand-based control for the first time.

Measurable improvement in operation

Electrical power consumption at the printing plant was reduced by approximately 50 percent. At the same time, temperature and humidity can now be controlled much more stably and precisely—a key prerequisite for consistent print quality. The project demonstrates that retrofit solutions can be implemented even during ongoing operations and enable significant efficiency gains. Especially in sensitive applications, the combination of FanGrid, RadiPac, and intelligent control becomes a decisive factor for stable and sustainable processes.

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Image 1: The fan unit from the old system weighed nearly one metric ton and had to be lifted out of the system using a crane: the fan alone weighed about 600 kg and the motor about 350 kg.



Image 2: Thanks to its blade geometry and FlowGrid guide vanes, the RadiPac also optimizes the system's noise emissions.

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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.

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