

Efficient control cabinet cooling

New EC diagonal modules for filter fans

To ensure effective cooling of enclosures, all components of the filterfan - from the grilles and filters to the internal components - must be taken into account in the design. The new EC diagonal modules from ebm-papst deliver consistently high air performance and cool enclosures more evenly and energy-efficiently than traditional axial fans.

Long-lasting, next-generation EC motors

Filterfans are the proven solution for cooling enclosures, as they enable the use of filtered ambient air and thus save costs for external air conditioning units. The new EC diagonal modules from ebm-papst offer better performance than axial solutions, are easy to install and highly energy efficient. In contrast to AC modules, EC modules are infinitely variable and require less energy thanks to efficient brushless motor technology. A significantly higher level of efficiency is achieved with the same air output. In sizes 165, 200 and 250, the new modules ensure reliable cooling with low noise levels and provide reliable protection against dust, dirt and moisture.

Diagonal instead of axial

Diagonal fans draw in air axially, but use centrifugal forces for a diagonal outflow and higher compression of the air. Despite the high compression, noise emissions remain low. This diagonal flow guarantees uniform cooling of the entire enclosure and reduces heat pockets. Unlike axial fans, which lose efficiency as resistance increases, diagonal fans deliver consistently high air performance even with higher static back pressure. In combination with filter media and protective grilles, this efficiency ensures longer maintenance intervals. The improved aerodynamics and the preguide grille (FlowGrid) significantly reduce the noise behavior of the diagonal modules even further.

Easy handling and worldwide use

The compact module design with low installation depth facilitates quick and easy installation thanks to plug & play in any installation position. In addition, the diagonal modules often require less installation space and leave more room for the electronics. They can also be integrated on both the suction and discharge sides. Thanks to efficient EC technology and a wide voltage range (100 V to 240 V), they can be used worldwide in applications that require a high air flow rate.

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November 12, 2024 - Page 1 of 2

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Photo 1 New EC diagonal modules for filter fans
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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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November 12, 2024 - Page 2 of 2

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