

Press release

New generation of AC fans features greatly expanded capabilities Intelligent industrial fans for all supply voltages

Recent decades have hardly seen any new developments in AC fans. However, speeds that are dependent on the power supply frequency, low efficiency and large output fluctuations at even minor supply voltage deviations no longer meet the demands of today's automation systems. Now, a new concept for AC fans brings a convincing improvement in performance. High energy efficiency saves money while, at the same time, providing an enormous improvement in service life. Maintenance costs decrease rapidly, and the logistics effort for motors with different supply voltages or frequencies is no longer necessary. Old AC fans can be replaced with the new ones without any problems; the dimensions and electrical connections remain the same.

Today's AC fans also provide a wide variety of new possibilities for connecting to the power supply directly. For easy conversion, St. Georgen, Germany-based fan specialist, ebm-papst, now offers the new generation of ACmaxx fans with standard dimensions of 92 x 92 mm, 120 x 120 mm and with a diameter of 172 mm. Depending on installation requirements, the system of protection ranges from IP00 to IP54; fan versions are available by customer request with moisture-proof winding, or a motor completely potted in plastic. The wide operating voltage range from 85 to 265 VAC allows them to be used in any installation, anywhere in the world, without any drop in output. The fans also set new benchmarks in their performance data. For example, the AC4300, with a diameter of 120 mm, features up to 40% higher air performance with about 75% less power consumption. This creates cooling power reserves for applications such as control cabinets in tropical regions. The improved motor efficiency also lowers the motor temperature, which protects the bearings and allows almost double the service life of conventional AC fans.

The energy consumption and noise level can be decreased even further with additional optional functions, such as demand-oriented speed control using internal or external NTC sensors. An integrated microprocessor also allows independent open loop speed control according to a preset speed profile. Additional options, such as standby operation, night shutoff and peak-load reserve, are a breeze with these fans. A speed signal output with two or three pulses per revolution and an alarm output provide accurate information about the operating state at all times. Because all functions are incorporated in each fan, in multiple-fan applications, complete cooling redundancy in the installation is ensured.

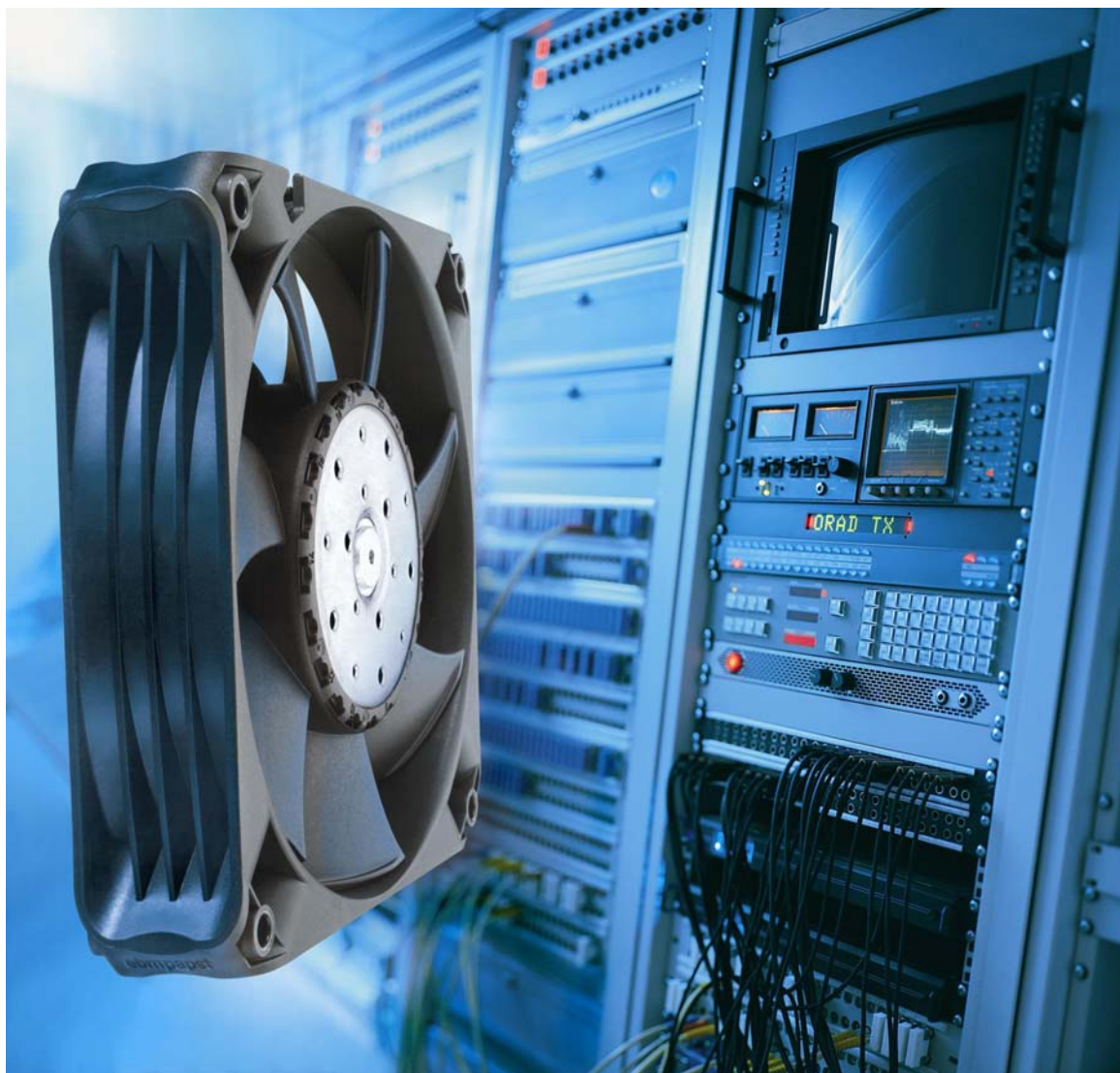
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Image 1: The new ACmaxx fans offer more: output, service life, additional options

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Image 2a + 2b: Safe cooling for advanced high-power electronics

Text and images/graphics are stored on the accompanying CD-ROM.

ebm-papst St. Georgen will provide paper copies by request.

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