



## The "small" HyBlades feature outstanding efficiency and noise behaviour

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In air-conditioning and refrigeration systems, axial fans are frequently used that are subject to strong temperature fluctuations and, in some cases, rough operating conditions. At the same time, they impose stringent requirements on efficiency and service life. In recent years, ebm-papst developed the innovative HyBlade® axial fans for this application area, which have since established themselves successfully in the market.

The existing series has now been extended by adding the sizes 300, 350, 400 and 450. As the name implies, the new HyBlades® feature a new, dimensionally stable hybrid design that incorporates the latest insights into aerodynamics and permits three-dimensional styling. In addition, winglets reduce unwanted air flow between the circumferential blade and wall ring. This allowed a dramatic improvement in both efficiency and noise behaviour.

Thanks to an optimised heat dissipation concept of the motor, these fans are much more compact than their predecessors. With the new dimensions, easy replacement of existing AC solutions is possible any time and without a hitch.

Moreover, the new HyBlade® fans feature impressive energy savings. Here are the numbers: Two now HyBlade® fans with GreenTech EC technology and an average duty cycle of 60 % feature an outstanding savings potential of 680 kWh and 408 kg CO<sub>2</sub> per year compared to a conventional AC solution. The integrated power electronics enables open loop speed control of the fans. This ensures demand-oriented adjustment of the air volume. Durability and light weight from the use of robust high-performance plastics are additional advantages of these axial fans. The fans are designed for country-specific supply voltages and thus are suitable for worldwide use, regardless of whether the power frequency is 50 or 60Hz.



Picture: New HyBlade® in size 300 with GreenTech EC technology for use in evaporators.



### About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors and is a pioneer and pacesetter for ultra-efficient GreenTech EC technology. In the last fiscal year 09/10, the company generated turnover of 986 million EUR. ebm-papst employs over 10,000 people at 17 production facilities (including Germany, China, USA) and 57 sales offices worldwide. Products of the global market leader are represented in many industries, including ventilation, air-conditioning and refrigeration technology, household appliances, heating engineering, in IT/telecommunications applications, as well as those in automotive and commercial vehicle engineering.