



Press release

Energy-efficient, high-performance and quiet

Axial fan with integrated diffuser

Modern heating calls for new concepts based on renewable energy instead of fossil fuel. This is why heat pumps are enjoying increased popularity. Modern EC fans make a significant contribution to ensuring that they operate efficiently, economically and extremely quietly. Motor and fan specialist ebm-papst has once again set new standards in this area.

The size 500 axial fans from ebm-papst were specially engineered for use in outdoor heat pumps and now they have been optimized for energy efficiency and noise reduction. The ready-to-connect plug & play unit consists of the new, patented fan housing system with an integrated diffuser, motor, electronics and HyBlade® impeller – all perfectly harmonized. With its pressure-raising effect, the diffuser integrated in the fan housing lowers outlet losses significantly, allowing an air performance increase of up to 10% while reducing noise by up to 3 dB(A). For the entire fan system, this adds up to 23% more efficiency than conventional solutions – the best prerequisite for a high COP (coefficient of performance) value for the entire heat pump.

The GreenTech EC motors can also be controlled via their serial RS485 MODBUS RTU interfaces or 0-10 V DC control inputs, enabling high efficiency even in partial-load operation. The fans can run at lower speeds at night, for example. This is especially important for heat pumps used in residential buildings, where sound emission must be kept as low as possible. The new axial fans will be available in summer 2016.

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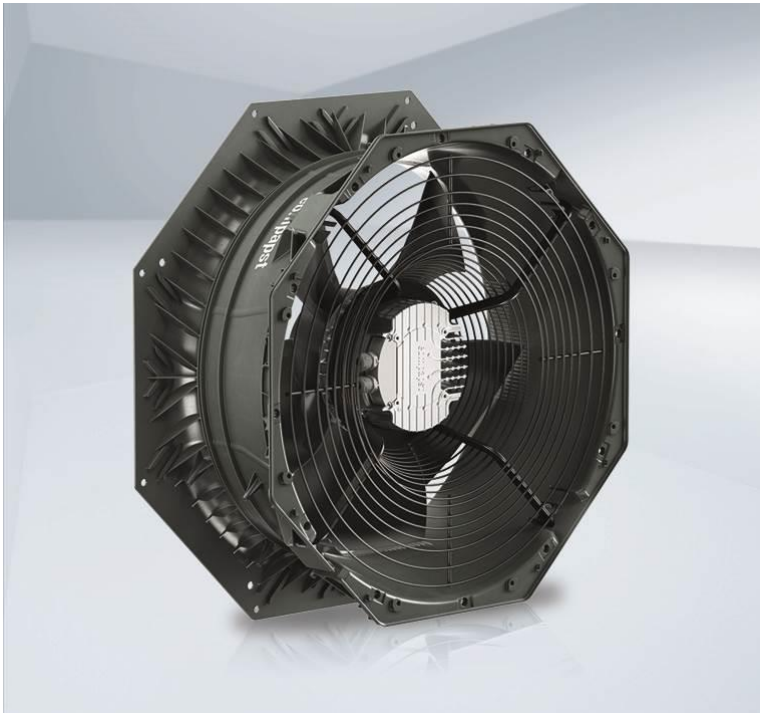


Fig. 1: Energy efficient, high performance and quiet – size 500 axial fans with integrated diffusers.

Photo: ebm-papst

About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors. Since it was founded, the technology company has continuously set global market standards.

Developments have ranged from electronically controlled EC fans, through aerodynamic improvements of fan blades, and on to the resource-conserving selection of materials, with sustainable materials being just one option.

In fiscal year 2014/15, the company achieved a turnover of almost €1.6 billion. Throughout the world, ebm-papst employs around 12,000 people at 18 production sites (including in Germany, China and the USA) and in 57 sales offices. Fans and motors from the global market leader can be found in many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, IT and telecommunications, as well as automotive and commercial vehicles.

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