



Press Release

Efficient induced draft fan from ebm-papst

New induced draft fans

ebm-papst has expanded its existing range of EC induced draft fans specially for the large heating outputs required for use in biomass heaters. The size 250 blower completes the range of single-side intake centrifugal fans for wood pellet, wood chip or firewood heating systems. Sizes 140 to 210, used above all in ovens in residential buildings, were until now the only blowers available.

The size 250 blowers ensure the extraction of hot combustion gases in applications like wood chip heating systems of up to 250 kW. In this process, the blower achieves an air performance of up to 1,000 m³/h. These systems are required for heating and hot water in public and commercial buildings.

Together with the fan, the GreenTech EC external rotor motor forms a compact, space-saving unit which is also robust and durable. The EC motor also features a 0–10V control input and an additional MODBUS-RTU interface. This interface makes monitoring the motor (e.g. temperature or speed monitoring) simple.

The EC motor has been modified so that the commutation electronics are located as far away as possible from the hot combustion chamber. As a result the electronic components are better protected against the inevitable very high temperatures. An optional special shaft seal prevents flue gas from leaking through the shaft gap. This is particularly important in balanced flue operation, as the air quality in the room would otherwise suffer. The hood of the induced draft fan is made from hot-dip galvanised sheet steel, ensuring a robust construction. The cooling vents also ensure optimum heat dissipation for the motor. The fans conform to protection class IP54 and also feature maintenance-free ball bearings.

Users of the new induced draft fan can choose between AC and EC motors. However induced draft fans work considerably more efficiently with GreenTech EC motors. At full load, the EC blowers use up to 30 percent less energy, even less in the partial load range, reducing the cost to both operators and the environment. The new size 250 blowers will be available from mid 2015.

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Fig. 1: The new generation of induced draft fans with energy-efficient EC technology

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 bio-materials being just one option.

In fiscal year 2013/14, the company achieved a turnover of €1.5 billion. Throughout the world, ebm-papst employs around 11,500 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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