



### ebm-papst achieves the impossible with the new 2200F

Market leader and Europe's largest motor and fan manufacturer, ebm-papst, has introduced the new 2200F fan which offers a 65% higher cooling capacity, a lower noise level and reduced power consumption than fans traditionally installed within servers, switch cabinets, and drives.

Traditionally, to dissipate heat and maintain performance within such environments, a significant amount of air is forced through the equipment, often by increasing the fan speed, which in turn drives energy consumption and cost. However, the new 2200F compact axial fan solves such cooling problems through its totally new fan development technology.

Clearly demonstrating ebm-papst's GreenTech philosophy, which aims to significantly improve the efficiency of all new developments, the 2200F delivers improved performance, lower noise pollution and is contained within a smaller package than that of previous generations.

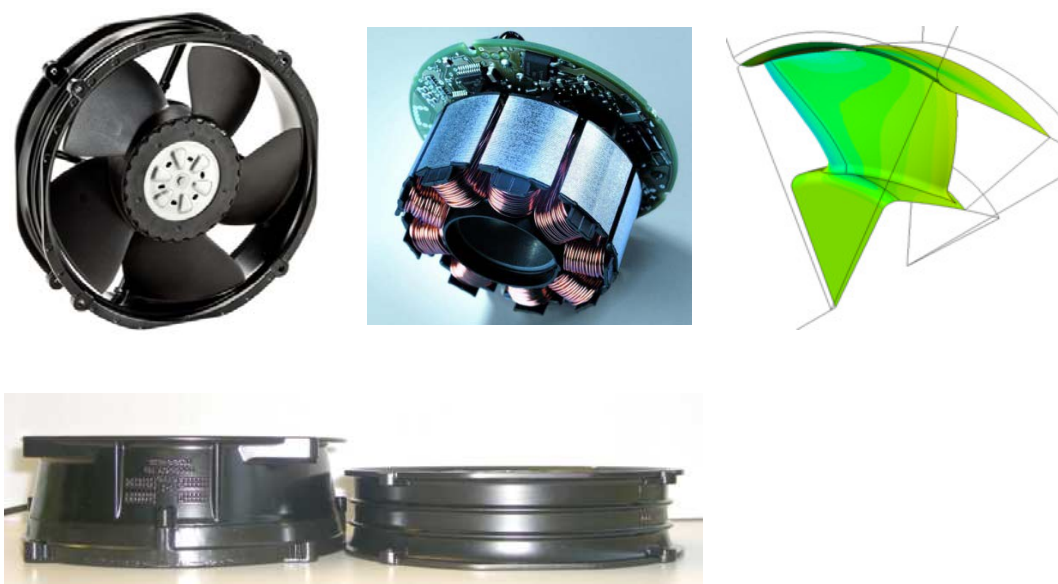
By reducing the size of the compact fan and its thickness, ebm-papst has achieved a 65% higher cooling capacity. However, this reduction in size has not compromised performance, instead increasing it by 30%.

Using fluid dynamic modelling, a new axial fan impeller was developed for the 2200F, which increased performance and reduced noise levels by 8 decibels, while still delivering 30% more airflow and continuing to use less energy. To complement the impeller, a new motor with a unique skew slot angle and commutation software was designed, lowering motor noise and running consumption, with an overall design that achieves 85% motor efficiency.

**Geoff Lockwood, Technical Director** at ebm-papst, comments: "Our new 2200F is a leading class achievement that uses cutting edge technology. Combining the motor efficiency with the fan efficiency, offers an overall efficiency of 60%, and the ability to provide this level of performance in a smaller package delivers the 65% increase in cooling capacity, which exemplifies the continual development process that ebm-papst is dedicated to achieving. This totally new fan can not only be used across servers, switch cabinets, and drives, but will also become intrinsic within the use of new technologies such as solar energy, fuels cells and high efficient lamps."

**Photo**

Hi-resolution image available upon request.



**Photo caption**

2200F compact axial fan from ebm-papst.

**About ebm-papst**

The ebm-papst Group is the world's leading manufacturer of fans and motors and is a pacesetter for the ultra-efficient EC technology. In the last fiscal year 10/11, the company generated turnover of over 1.3 billion EUR. ebm-papst employs over 11,000 people at 17 production facilities (including Germany, China and the USA) and 57 sales locations worldwide. Fans and motors of the global market leader are represented in many industries, including ventilation, air-conditioning and refrigeration technology, household appliances, heating engineering, in IT/telecommunications as well as applications in automotive and commercial vehicle engineering.