



## Focus on energy efficiency at the Hannover Messe

From 4 - 8 April 2011, the motor and fan specialist ebm-papst ([www.ebmpapst.com](http://www.ebmpapst.com)) will be presenting its product range in Hall 15, Stand F29 of the Hannover Messe industrial trade fair.

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The straightforward 1:1 mechanical replacement of existing AC units will be demonstrated using the new "RadiCal" centrifugal fan line featuring GreenTech EC technology. A new motor concept makes these fans with integrated electronics as compact as conventional AC fans. Users of this new technology will benefit from the familiar advantages of GreenTech EC technology in conjunction with the efficient RadiCal fan impellers. Energy savings of up to 50% and a halving of noise emissions are possible in operation.

Reliability, service life, energy consumption – the new i-maxx generation of AC fans satisfies the very highest standards in all these areas. For the first time, both the drive and the fan and converter electronics are integrated directly into the motor hub.

The new 630 series has been specially developed for applications in harsh environmental conditions, such as outdoor applications in telecommunications or solar inverters. The compact DC fan satisfies all standards for salt spray resistance. The fan also sets benchmarks in terms of efficiency – some 15% higher than the predecessor models.

The VDC-3-49.15 series of electronically commutated external rotor motors with operating electronics now has a new addition. The version with integrated CANopen communication interface, which goes by the name "K5", takes the step into the world of bus communication – ideal for use in automation systems.

As an efficient solution and replacement for conventional shaded-pole motors, ebm-papst offers the iQ motor line, which has now been expanded with the iQ<sup>2</sup>. The IP54 motors of insulation class H for 230 V connections now offer substantially more. Besides optimised efficiency, other practical characteristics have been incorporated into the motor. Modern electronics allow a special control technology and thus additional functions.

In addition to these product highlights, other innovative motor and fan solutions will be on show for a range of applications, such as operating tables, control cabinet cooling, cold/hot air door curtains, pump drives, Fan Coils, heat pumps etc. The focus of the presentation at the fair will be a world first in the field of "green" fans. More detailed information will follow in mid-March 2011.



Fig. 1: "Salt-resistant" compact fans of the 630 series are suitable for use under harsh environmental conditions.

Fig. 2: Electronically commutated external rotor motors of the VDC-3-49.15 series with integrated CANopen interface

Fig. 3: New iQ<sup>2</sup> motors supersede conventional shaded-pole motors and inspire with their great efficiency

### **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 2009/2010, the company generated turnover of 986 million euro. 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 vehicles engineering.