



Press release

Modularity for customised solutions

New generation of axial fans

In addition to the required airflow, high energy efficiency and low noise emissions are also crucial for fans in ventilation and air conditioning systems. To achieve improvements in these areas the overall fan system comprising impeller, motor, housing and control electronics must be considered.

Using its expertise in aerodynamics, motor technology and electronics, ebm-papst has developed a new series of EC axial fans with diameters from 400 to 910 mm that sets new standards. With single- and three-phase designs, these EC fans cover the power range from 250 W to 1.3 kW with noise emissions that are up to 3 dB(A) lower than previously – with increased air performance.



Figure 1: New generation of axial fans

At the foundation of the new generation of fans are two new EC motors. Thanks to their improved heat dissipation and use of the latest materials they achieve a higher power density. The new generation's modularity in terms of motors and electronics allows selection of the best combination for a given operating point and power supply requirement. The high efficiency of the GreenTech EC fans is an added benefit.

These fans satisfy the requirements for IP54 protection rating and the relevant international standards for industrial and household use. The air performance can be regulated as needed via the 0 - 10 V / PWM interface or the serial RS485 MODBUS interface. The interface also features a 10 V output for connecting sensors (e.g. pressure or temperature sensors) and a floating alarm relay output as standard. An optional module is available with an expanded interface and the familiar ebm-papst EC fan functionality such as a PID controller, a 20 V output or digital inputs for extended parameter sets.

Typical applications are any air-cooled heat exchangers such as condensers or chillers. This new generation exceeds the ErP 2015 environmental design requirements by far and represents an attractive alternative to those inefficient multi-pole AC fans that are phased out as part of the ErP 2015 environmental design directive. The next-generation axial fans are available from October 2014.

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27/10/14- Page 1 of 2



Press release

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 EC technology. ebm-papst fans and motors are represented in many industries, including ventilation, air-conditioning and refrigeration technology, household appliances, heating engineering, in IT/telecommunications, in medical technology and in applications in automotive and commercial vehicles engineering. ebm-papst EC motor technology, and the market leader's engineering and logistics expertise will add value to your business.

Find out more about ebm-papst A&NZ on www.ebmpapst.com.au.

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27/10/14- Page 2 of 2