Press release

Energy-saving EC centrifugal blowers with high power density

Press contact:
Caroline Bommes
Head of Marketing A&NZ

ebm-papst A&NZ Pty Ltd
10 Oxford Road
Laverton North VIC 3026
Australia
Phone: +61 3 9360 6400
Fax: +61 3 9360 6464
caroline.bommes@au.ebmpapst.com
http://www.ebmpapst.com.au

facebook.com/ebmpapstANZ
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Up until today, typical uses for modern EC fans mainly included applications involving continuous operation, such as ventilation and air conditioning. However, there are plenty of applications in which the fans are turned on and off. Rapid availability of the required air volume after activation is often desired, requiring fans that reach maximum speed quickly. Such applications include air locks for access to clean rooms, air curtains on truck loading ramps, cooling systems for power electronics, or extractor hoods in kitchens.

For such applications, ebm-papst has developed a new series of EC centrifugal blowers in the size range from 160 to 250mm. In comparison to conventional AC designs, these new fans in compact design are considerably more energy-efficient and have a higher power density, achieving an airflow of approximately 3,300 m³/h with a start-up time of only 3 to 4 seconds.

At the heart of these fast starters is a 0.75kW GreenTech EC motor. The motor electronics are not fitted right on the motor but on the outside of the scroll housing. Bumps on the underside of the electronics housing increase the power density of the control electronics and prevent overheating. The electronics are protected from outside influences such as moisture and dust by a housing made of rugged die-cast aluminum that satisfies the requirements for IP54 protection.

The new EC centrifugal blowers have integrated PFC (power factor correction), which considerably reduces harmonics in the incoming air flow for trouble-free use in applications involving parallel operation of multiple fans. Via a digital RS-485 MODBUS-RTU interface, the units can be controlled as needed for configuration during commissioning, troubleshooting, and service and maintenance.

A complete plug & play solution, EC centrifugal blowers from ebm-papst can be put to work quickly and easily. A further benefit of these ErP-compliant, energy-saving centrifugal blowers is not to be overlooked: sustainability and resource conservation are also priorities in their development and production.

The EC centrifugal blowers are available for delivery now.

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Figure 1: At the heart of these fast starters, available in sizes 160 to 250, is a GreenTech EC motor.

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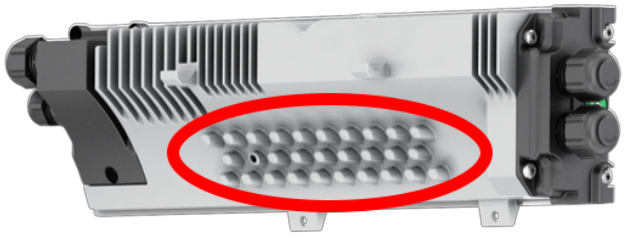

Figure 2: The bumps on the electronics housing (circled in red) improve cooling.

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.

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