



Energy-efficient solutions from a single source

At the ISH, a major worldwide industry trade fair held in Frankfurt from 15 to 19 March 2011, motor and fan specialist ebm-papst (www.ebmpapst.com) is presenting its latest products in the heating and ventilation technology area in Hall 11, Stand B90.

Corinna Schittenhelm
Subject Specialist
Press and Public Relations
Phone: +49 7938 / 81-634
Fax: +49 7938 / 81-9634
Corinna.Schittenhelm@de.ebmpapst.com

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ebm-papst is offering its customers the latest development in gas condensing boiler technology. This innovation is a flexible system in which the built-in finished components can be selected by the customer – from the new, even more efficient NRG 77 EC centrifugal blower to additional components such as the venturi and gas manifold to the complete solution with burner controller and electronic networking. This combination of blower and control technology from a single source is one-of-a-kind in condensing boiler technology.

To cover air performance ranges up to 20,000 m³/h, the existing plug fan series has been expanded for use in ventilation and air-conditioning technology by adding the 630, 710, 800 and 900 mm sizes. The "spider mount" allows a variable installation position of the fans – installation with a horizontal or vertical motor shaft position is possible. The large sizes are intended for horizontal installation, where vibration elements can be attached to the base frame to provide isolation from the environment.

For the area of air/water heat pumps, the high-efficiency RadiCal centrifugal fan in size 500, in addition to the HyBlade® series of axial fans, is the ideal solution. With its "radically" aerodynamically optimised impeller geometry, the noise behaviour could be reduced by more than half – with energy savings of up to 50 %. The existing RadiCal series has been expanded by adding the 280, 310 and 355 mm series. This means that even more applications in ventilation and air-conditioning technology will now benefit from this new technology.

In addition to the highlights mentioned above, other efficient solutions for heating and ventilation technology will be on display at the ISH, such as fans and blowers for pellet heaters, high-efficiency solutions for fan coil applications, energy saving fans for home ventilation, and many more.

Figure 1: New high-efficiency NRG 77 EC centrifugal blower

Figure 2: Selection from the plug fan series in GreenTech EC technology

Figure 3: RadiCal ensures energy-efficient operation in heat pumps

About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and



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motors and is a pioneer and pacesetter for ultra-efficient GreenTech EC technology. In the last fiscal year 09/10, the company generated turnover of 986 million EUR. 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 vehicle engineering.