



Press release

More compact, quieter-running, more efficient, high modulation rate

New 0.5 to 150 kW condensing blowers

Heating and hot water supply systems can only operate efficiently if they have an ideal heat source. Boilers and gas blowers of many different sizes used to be necessary to provide economical heating on account of the great diversity of output levels required to cover the whole spectrum from low-energy homes to apartment blocks.

With the new RadiMix platform, an alternative concept is now available from the gas blower specialists at ebm-papst Landshut. The platform as a whole permits broad modulation ranges from 1:10 to 1:15 and so reduces the number of different types by a good 20%. Boiler manufacturers now require just three versions to cover output levels from 0.5 to 80 kW, and a fourth blower will be coming onto the market next year to fill the gap up to 150 kW. Together with the standardized motor design, this means fewer stocks and less qualification work for equipment manufacturers.

Efficient and ecological

The motor developed specially for the platform is particularly smooth-running and offers considerably enhanced efficiency as compared to its predecessor. Representative of the product range is the VG 100 (output range 3 to 50 kW), providing a whole 5% higher overall efficiency and around 3 dB(A) quieter operation than other blowers on the market.

Lower operating noise

Aerodynamic improvements to the blower impeller and fan scroll ensure a lower operating noise level throughout the entire modulation range. Thanks to extensive simulation and testing it also proved possible to restrict the majority of the resonance occurring to non-disturbing frequency ranges. Another step was to completely revise the commutation electronics. This makes it possible to incorporate the blowers into digital heating concepts via optional bus interfaces such as LIN or CAN.

Easily integrated

The compact blowers can easily be integrated into existing gas boiler concepts, not least on account of the great flexibility offered by 360° motor positioning. In future they will also be available as part of a complete system together with venturi and gas valve for optimum, low-pollution combustion and heat output.

<http://radimix.en.ebmpapst.com/>

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Fig. 1: The RadiMix platform with the gas blower versions VG 71, VG 100 and VG 108 offers heat outputs from 0.5 to 80 kW. (Source: ebm-papst)



Fig. 2: The motor developed specially for the platform is particularly smooth-running. (Source: ebm-papst)



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About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors. Since it was founded, the technology company has continuously set global market standards. Developments have ranged from electronically controlled EC fans, through aerodynamic improvements of fan blades, on to the resource-conserving selection of materials, with sustainable materials being just one option.

In fiscal year 2016/17, the company achieved sales of almost €1.9 billion. ebm-papst employs approximately 14,000 people at 26 production sites (in Germany, China, the United States and elsewhere) and in 49 sales offices worldwide. Fans and motors from the global market leader can be found in many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automobiles and drive engineering.

About ebm-papst Landshut

ebm-papst Landshut is a specialist and market leader for developing and manufacturing fans, fractional hp motors and pumps for energy-efficient heating and household appliance technology. In collaboration with customers, the company realizes optimal solutions that take quality, economic efficiency, safety and environmental protection into consideration. The products from ebm-papst Landshut stand for pioneering, highly reliable solutions – for example, as blowers in condensing boilers, hot-air fans for stoves and condensate pumps for tumble driers.

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