



Press Release

High modulation rates in power range to 50 kW for gas-condensing technology

Compact gas blower as first representative of a new platform

Thermal insulation and recovery lower the amount of energy required to heat buildings. At the same time, the demands on warm water comfort and with them, the required power, are constantly rising. Therefore, heating concepts that flexibly adapt to the relevant building type and the way it is used are in demand. With the VG 100 premix blower, gas blower specialist ebm-papst Landshut has now launched the first representative of a new condensing blower generation.

Its maximum modulation of more than 1:10 covers the broad power range up to 50 kW. It also features an efficiency improvement of around 5% and its operating noise is at least 3dB(A) lower than that of comparable blowers. With a maximum axial installation height of only 81mm, it is compact and can be easily integrated.

Improved efficiency and noise reduction

A new motor was developed for the blower platform. The development aimed to improve efficiency and reduce the material used at the same time. The aerodynamics was improved in the process, resulting in a more compact blower. In turn, the range of options for integrating the blower into instantaneous water heaters was considerably expanded. Another focus of the development work was noise reduction. In addition to reducing the airborne sound, the developers focused on reducing the vibrations (structure-borne sound). State-of-the-art development tools supported the product developers.

Bus interfaces for easy integration into digital systems

The electronics were also completely revised. Now the blower has optional bus interfaces for easy integration into digital systems. The blower is optimized for production and can be produced rationally, with standardized processes. The stable motor cover design decouples the blower from the motor for lower noise levels and can withstand any rough handling in the downstream assembly process. With its wide power range and flexibly adjustable geometry, the new premix blower is ideal for all gas condensing technology applications, significantly reducing device manufacturers' needs for a variety of gas blowers.

Sandra Rademacher
Assistant to the Managing Director
Communication
ebm-papst Landshut GmbH

Phone: +49 871 707-368
Fax: +49 871 707-51368
Sandra.Rademacher@de.ebmpapst.com

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Press office contact
ebm-papst Group
Phone: +49-7938-81-7105
presse@de.ebmpapst.com

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The VG 100 gas condensing blower is easily adjusts to a variety of hot water heaters and heating requirements. (Photo: ebm-papst)

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 2015/16, the company achieved sales of almost €1.7 billion. ebm-papst employs approximately 13,000 people at 25 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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Assistant to the Managing Director
Communication
ebm-papst Landshut GmbH

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Sandra.Rademacher@de.ebmpapst.com

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Phone: +49-7938-81-7105
presse@de.ebmpapst.com

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