



Lower energy consumption, lower operating noise and improved metering New blower boosts efficiency in gas condensing technology

Iris Pioch
Marketing
ebm-papst Landshut
Tel.: +49-871-707-122
Fax: +49-871-707-465
Iris.Pioch@de.ebmpapst.com

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Modern gas condensing technology allows the fuel input, principally gas, to be used extremely efficiently. Despite this, it is important in all forms of combustion for the amount of fuel and the amount of air to be precisely configured and to be compatible with the required boiler output. This means that burners and ancillary components are needed that also require the "noble energy", electricity. This is where the supplier for modern heating systems, ebm-papst Landshut, has improved its blower technology for burner construction. The new, more economical NRG 77 centrifugal blower is configured for heat outputs up to 35 kW.

The innovations in the field of drive systems are based on the used of a modern, three core motor that permits speeds up to 12,000 rpm. This drive solution is not only very compact. It is also more efficient than the predecessor motor and can be controlled better thanks to its broader speed range. The complete fan consumes up to 6% less energy. With dimensions of 148 x 127 x 84 mm, the new blower is about 10% more compact than the predecessor model, despite its superior performance. Moreover, the three core design reduces the natural vibrations, minimising the transmission of additional structure-borne noise, which can be extremely unpleasant in heating installations. An optional integrated mass flow sensor in conjunction with a venturi nozzle and "GasBloc" pneumatic gas valve maintains a constant fuel/air mixture, regardless of atmospheric pressure or of wind or chimney suction. The ignition flame, the starting gas volume and other parameters can be calibrated to the boiler.



Illustration: The new centrifugal blower with GreenTech EC technology combines energy saving with extremely smooth running and very good control



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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 GreenTech EC technology. In the last fiscal year 2009/2010, the company generated turnover of 986 million euro. 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 vehicles engineering.

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