

## VG 450 gas blower

### The world's most powerful gas blower

**ebm-papst is adding to its unique portfolio of EC gas blowers and setting a new standard with its VG 450, a compact, quiet, reliable and energy-efficient blower that enables heating output of up to 4 megawatts for the first time.**

#### New top performer

With its VG 450, ebm-papst is introducing its most powerful centrifugal blower yet with EC technology for premix gas boilers. Now, with only a single compact blower, manufacturers can reach heating output of up to 4 megawatts, enough to heat large buildings or housing developments with several hundred units. Such output previously called for the use of multiple cascaded condensing boilers, i.e. boilers operating in series. Now a single boiler is enough, which reduces costs for installation, operation and maintenance.

#### Great performance in a compact package

The blower is very compact and is driven by a powerful and energy-efficient GreenTech EC motor. Its impeller and housing are made of aluminum and have been aerodynamically optimized and adapted to the characteristics of the motor, enabling speeds of up to 4,250 rpm. Thanks to its high modulation level and smooth speed control, the VG 450 is very flexible.

#### Easy integration with MODBUS

Among others, MODBUS serves as an interface for transmitting control signals; this open communications standard has established itself worldwide as a solution for open-loop control of actuators and sensors. This simplifies the integration of third-party components in the bus system.

#### Local heating: the new trend

Space-saving, environmentally friendly and powerful gas-powered central heating units are gaining in importance with growing demand for local heating networks, which do not need to transport heating water over such long distances as In district heating networks and thus have minimal heat losses. In addition, the infrastructure for decentralized heating solutions is less complex. All told, this makes local heating supply more energy-efficient and economical for large buildings such as hospitals or apartment blocks and also for housing developments. With the VG 450, planners now have an entirely new set of options.

Katrin Lindner  
Trade press coordinator  
Phone: +49 7938 81-7006  
Fax: +49 7938 81-97006  
Katrin.Lindner@de.ebmpapst.com

Corinna Schittenhelm  
Trade press coordinator  
Phone: +49 7938 81-8125  
Fax: +49 7938 81-98125  
Corinna.Schittenhelm@de.ebmpapst.com

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Press office contact  
ebm-papst Group

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Fig. 1: The VG 450 is the new top performer – not only in ebm-papst's portfolio but in condensing technology in general.

Fig. 1	ebm-papst
Characters	Approx. 2,300, including headings and sub-headings
Tags	EC technology, energy savings, gas blower, condensing technology
Link	<a href="http://www.ebmpapst.com/vq450">www.ebmpapst.com/vq450</a>

#### 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 industry standards: from the digital interconnection of electronically controlled EC fans to aerodynamic improvements for fan blades to the use of eco-friendly materials.

In fiscal year 2017/18, the company achieved sales of over € 2 billion. ebm-papst employs over 15,000 people at 27 production sites (e.g. in Germany, China and the US) and in 48 sales offices worldwide. Fans and motors from the world market leader are used in many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automotive and drive engineering.

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