

ebm **papst**

HEATING

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Heating engineering

Ideas and technologies for keeping warm

Playing an active part in creating the future of heating engineering- this is both our claim and our commitment at ebm-papst. Our products are known for their groundbreaking and extremely reliable solutions, such as the first tangential fans for electric storage heating units or the first EC centrifugal blowers for the new gas condensing boilers.

In close cooperation with leading heater manufacturers, we are constantly working to make modern heating more powerful, economical and better for the environment.

Most of our customers begin direct contact with our development engineers in the early stages of development; they then delve into the customer's tasks in great depth. With their experience and our broad basic product line, they create optimum solutions. Thus we provide our customers with blower solutions that take into account all the ambient conditions and specific uses of the particular application, allowing the optimum combination of performance, size cost-effectiveness to be attained.



Applications

Burners

Robust solutions for industry

For large outputs, it is necessary to have a pressure-stable blower in an elliptical burner. Here, too, ebm-papst products demonstrate their reliability and performance.

Blower burners are used in heating plants for large buildings and in drying systems used in industry and industrial laundries, for example. The burner adapts to the required quantity of heat. When used in simple solutions in the heating industry, the burner runs at the highest speed at all times.

An asynchronous motor (AC motor) with frequency inverter is built into advanced models. However, the ebm-papst EC motors used in the very latest generation of burners consume substantially less energy and are significantly quieter, since they are air-controlled, and thus power-regulated. The compact and especially powerful EC motor requires much less space, thanks to the omission of the frequency inverter.

Join the trend. The outstanding quality of our EC motors will convince you.

Fuel cells

Clean energy for the future

Fuel cells have a wide range of applications. Because of the wide range of fuel cell types and their wide performance spectrum, these applications range from use in cell phone and laptops to mobile applications in cars or buses to supplying energy for multifamily homes or commercial buildings. Based on the wide range of centrifugal blowers for the heating industry, we are working intensively to create components with a performance spectrum to match the requirements of fuel cell technology.

To make fuel cell technology competitive, it is necessary to consume as little energy as possible in the system components. Therefore, an important goal for us is to achieve the highest possible overall efficiency of the motor/blower unit. Due to the low energy consumption of the latest EC drive motor and the use of optimized, highly efficient fluid flow engines, this goal has already been reached in various projects from a variety of application areas. Efforts are also being made to optimize noise emissions of the ebm-papst systems, so that requirements in this area for mass-produced products are already taken into consideration in development. Because we maintain intensive contacts with industry and research institutions, our systems always reflect the latest state of development of fuel cell technology. Our solutions range from blowers for electronics and capacitor cooling to pure supply blowers for cathode air to blowers for fuel gas supply.



Fan heaters and thermal storage heating stoves

ebm-papst tangential blowers guarantee maximum output with minimum noise

Since 1963, ebm-papst has been a supplier of tangential blowers for electric storage heaters and remains the market leader in this segment to the present day. The exceptional features of our tangential blowers are their high air flow at relatively low counterpressures, very good noise characteristics and unsurpassed service life.

Depending on the specific application, fans with asymmetric shaded-pole motors, capacitor motors or EC motors are available.

Traditional centrifugal fans are also used in these units. Since the units are constantly being made more compact, the high maximum pressure at low speeds and small dimensions of these fans are often the ideal solution.



Oil and gas heaters

Blowers and fans that set new standards



We have been a part of modern oil and gas condensing boiler technology, with its lower level of harmful emissions and improved energy utilization, from the very beginning. In 1989, we were the first supplier of EC centrifugal blowers for gas condensing boilers and today remain market leaders in the field with the most comprehensive line of blowers for this application.

Condensing boiler technology requires special blowers with backward curved impellers and motors with EC technology.

The operation of these motors and communication with the burner control system require our vast experience in electronics.

Furthermore, our skills and knowledge in ebmpapst, and will allows us to create optimized yet economical blower solutions that fulfill the difficult requirements for air flow, pressure, low-noise performance, compactness and service life.

Heat pumps

The energy source of the future

Energy prices are rising, with no end in sight. Ecological considerations are another argument for using environmentally conscious solutions such as the heat pump. It makes skillful use of the energy potential that the environment provides to us free of charge.

This is how it works: In a refrigerator, heat is led out from the inside. A heat pump does exactly the opposite:

It taps the energy present underneath the earth's surface and in the air and groundwater, and converts it into heat. A heat pump can be used as the sole supplier of heat in a house for the heating system and the hot water.

ebm-papst offers axial and centrifugal fans with backward curved blades that are low-noise and have an outstandingly compact design.

The high efficiency of our EC motors results in an even greater reduction in energy consumption.



Controlled home ventilation

Working to make ventilation quieter



Everyone likes peace and quiet-that is why we are doing everything in our power to continuously reduce the noise level of ventilation systems. Because in home ventilation, the ventilation and exhaust of each room uses a pipe system that extends through the house, the vibrations caused by the motor could be heard as a humming sound in other rooms. To solve this problem, we developed a motor with low-noise commutation. In controlled home ventilation, two fans (ventilation and exhaust blowers) are operated, usually around the clock. Therefore, the fan units need to be correspondingly robust. The best example: our centrifugal fans for home ventilation, available in combination with either AC asynchronous motors or electronically commutated motors. The trend in this area favors the latter, the energy-efficient EC motors. This is because requirements for buildings have changed greatly over the last few years-the focus today is on saving energy. Energy savings of up to 50% can be attained using our EC fans.

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