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Ventilation, Air-Conditioning and Refrigeration Industry

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Ventilation, air-conditioning and refrigeration technology

The fine art of moving air

ebm-papst is passionate about ventilation, air-conditioning and refrigeration technology. For four decades this field of has been close to our hearts, so it is no wonder that it has become a strong traditional focus within the range of services we provide. In this area, we have set worldwide standards as the leading experts in moving air, and with our external rotor motor: in quality, technology, innovation and, no less importantly, in the reliability of our products.

Our motors and fans have a wide range of applications in ventilation, air-conditioning and refrigeration systems.

As the manufacturer of the real heart of a system-the fan unit-our customers demand nothing less from us than continuous progress and innovation.

In response, we have continuously set new standards, particularly in increasing the service life of ventilation, air-conditioning and refrigeration systems, reducing their energy consumption, developing absolutely low-noise fans and taking advantage of all the possibilities of modern integrated electronics.

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Exemplary: The Post Tower in Bonn, Germany

The challenge

In the 535-foot-tall Post Tower, the tallest office building in the German federal state of North Rhine-Westphalia, a ventilation concept was required which would provide an ideal combination of solutions for energy savings, flexibility of use and workplace comfort.

The solution

This requirement was met by using decentralized FSL floor units that take in external air from the space between building and facade, condition it and feed it to the room. The key to these FSL floor units is the innovative combination of EC centrifugal fan, filter, trap flap, heat exchanger and electric cables, including the distributor box. Intelligent EC technology at the highest level.

The result

Workplaces that are individually supplied with fresh air and in which ventilation, heating and air-conditioning can be individually controlled. With a single device! It is only natural that this device should set new standards for low maintenance, energy consumption, noise and service life. After all, we ourselves demand nothing less of our solutions.

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Applications

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General ventilation and exhaust systems

The objective is always to use move air as efficiently as possible, whether in the tightest spaces, in large dimensions or under extreme ambient conditions. Thus ebm-papst centrifugal and axial fans have a long history of successful use in bathroom ventilation, HVAC systems, façade ventilation and roof fans.

In these applications, ebm-papst fans move the required volume of air in residences, offices and buildings. Intelligent control for single rooms is possible, as is bus connection of all systems, for example in multistory buildings.

Thanks to their durability and high efficiency, and the energy savings this provides, our fans meet the need for a long-lasting pleasant climate at home and a work.

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Cold storage areas and refrigerated cases

They keep running, and running, and running...

Refrigeration systems have to be up and running 24 hours a day. Therefore, both energy costs and
reliability are essential requirements. The cooling systems inside these units use compact and robust axial fans from ebm-papst. They are operated either with conventional shaded-pole motors or-as is the case in ventilation and air-conditioning systems-our high-efficiency EC motors are being used in this application more and more often.
The high efficiency and the significantly lower intrinsic heat of the motor provide substantial energy savings. Further outstanding features of our energy-saving motors are their small installation depth combined with high air performance.

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Air-conditioning units and installations

Cool air for everyone

A comfortable indoor climate, whether in private or commercial buildings, is by no means a luxury. Rather, it has lasting positive effects on the entire human organism. In offices and at home, the ebm-papst fans in air-conditioning units and installations work as quietly as a whisper and around the clock if necessary.

In air-conditioning units and installations, our centrifugal and axial fans in AC or EC technology are used with excellent results. The advantages our clear. Our fans are extremely quiet and very efficient.
With its integrated electronics, the EC technology guarantees easy controllability with minimum energy consumption.

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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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Filter fan units for clean rooms

The standard of perfection in cleanliness

Filter fan units are primarily found in roof systems for clean rooms in chip fabrication plants, in bottling plants, the pharmaceutical industry, microstructure technology or plastic injection systems. The are used to supply extremely clean air in production and filling systems. Doing so requires perfect interaction with reliable and durable fans.

Particularly in EC technology, ebm-papst centrifugal fans for clean room technology offer many advantages for the customer.

A new commutation technique makes the fans extremely low in noise and vibration. The compact external rotor design and integrated electronics keep the space requirements of the fan unit to a minimum and guarantee extremely low energy consumption.

In addition, all fans can be conveniently controlled, monitored and visualized using a central computer.

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Evaporators and condensers

When the name is ebm-papst,

quality and reliability are built in. Our equally robust and space-saving axial and centrifugal fans for refrigeration technology are prized around the world for their high efficiency. Evaporators and condensers equipped with our fans provide optimum refrigeration capacities, for example in cold storage areas of supermarkets.
Thanks to the durability of our products, you never have to worry about failures and the resulting damage. In addition, our fans are extremely quiet and energy-efficient. You can depend on it!

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