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Saving energy with ebm-papst

Having a clear eco-conscience is good. Having a clear eco-conscience and a favourable balance is far better. If you are interested in getting a detailed calculation of your potentials, simply let us know. You will be surprised how quickly your investing in climate control and protection pays off!
We are looking forward to hearing from you – just call **+49-7938 / 81-0 or contact us on our special website: www.eco.ebmpapst.com**

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Economy and ecology going hand in hand

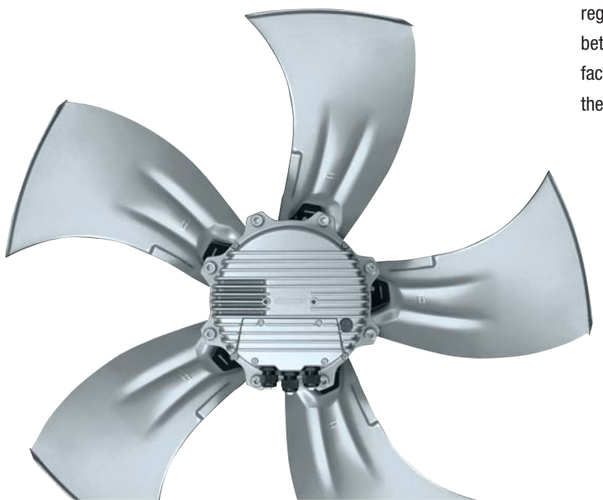
Showing responsibility: Environmental technology made by ebm-papst

Helping to protect our global climate and handling natural resources in a sensible way is a task that needs to be tackled first and foremost by industry. In doing so, any such voluntary acceptance of responsibility for eco-friendliness does not exclude the development of economically successful products – on the contrary!

A promise we keep – and have been keeping!
As globally active manufacturer and distributor of top-quality industrial products, ebm-papst has long since lived and breathed a corporate philosophy of regarding technical progress and environmental care not as juxtapositions, but as inseparable connected entity. When it comes to developing our products under environmental aspects, we allow for no foul compromises and have long since started to exclusively produce energy-saving and long lasting motors and fans – all of them meeting and even surpassing applicable standards!

Using recyclable materials in production and going for eco-friendly packaging and transport make for maximum reduction of ecological damage. But it is not only the products we care about here at ebm-papst: it is the entire production environment we look at. Whatever is technically possible is done to reduce emission in all areas, and we endeavour to operate our plants with an absolute focus on environmental issues – from production to recycling and even waste water and waste disposal, all is subjected to toughest self-imposed standards!

As an enterprise, ebm-papst is certified according to DIN EN ISO 14001. This certificate is a confirmation of the fact that development, production and distribution of our motors and fans are governed by an environmental management system complying with the specifications of the standard mentioned above.



EC-Technology: High-tech for environment and controller
According to the Central Association of the Electric and Electronic Industry (Zentralverband Elektrotechnik- und Elektronikindustrie e.V.), the biggest potential for saving electric power is with electric drives. This means mainly pumps, fans, compressors, centrifuges and other aggregates. Boasting an average of 30 % in energy savings, EC technology is mainly responsible for this saving potential.

ebm-papst was one of the first to recognise the enormous possibilities it offers for environment and user alike. Investing like no other in research and development focussing on EC technology, ebm-papst has maintained its leading role in this technology. It is at the heart of our innovative and energy-saving products. “The green ones”, as our EC motors are also fondly known, are the heart of many fans used in computers, in telecommunications, and also in building management and in high-class clean rooms.

This means intelligent drives with integrated open or closed loop control that are also bus-compatible. Apart from their energy-saving capacity, their efficiency is also impressive at up to 90 %, they offer considerably longer service life and, what is more, they are absolutely maintenance-free.

Naturally, our R&D doesn’t stop here. For modern gas-condensing burner technology, we offer intelligent blowers not only with high efficiency, but also directly resulting in extremely low emission. Noise emission, too, is regarded as environmental damage, which is why the perfect interplay between aerodynamics, motor technology and electronics is the decisive factor in our products. And so we handle air intelligently and quietly, all the time setting new standards in drive engineering.

Four calculations for efficiency with ebm-papst EC-Technology

1 **A3G910** **Axial fan**		**Application:** **Heat exchanger, e.g. for refrigerated storage rooms, VACR**	There are six fans running in a heat exchanger. At an average degree of utilisation of 75 %, the annual saving potential is at more than 24 MWh. This translates into about 14.4 t CO_2 and saves you **2,570 Euros*.**	Saving potential compared to conventional standard models according to this example: **29.1 %**
2 **R3G560** **Centrifugal fan**		**Application:** **Roof fan, AHU, clean rooms**	On top of an office building with a floor space of 1200 m^2, there are four roof fan units. At an average degree of utilisation of 60 %, up to 6.7 MWh can be saved here. This translates into almost 4 t CO_2 and **720 Euros*** per year.	Saving potential compared to conventional standard models according to this example: **21.5 %**
3 **W1G200** **Energy-saving axial fan**		**Application:** **Condensers, cooling cabinets, refrigerated display cases, freezer chests, island freezers**	In a small supermarket 40 fans are used in refrigerated display cases. The small intrinsic heat of the ESM makes for 30 % less operating time. Per year, this results in a saving potential of more than 3.4 MWh and 2 t CO_2. Saving in costs: **365 Euros***.	Saving potential compared to conventional standard models according to this example: **67 %**
4 **G3G146** **Centrifugal blower**		**Application:** **Facade ventilation, home ventilation, ventilation and air-conditioning**	600 fans are fitted into the facade of a high-rise building. At a degree of utilisation of 100 %, annual savings of more than 136 MWh and **14,500 Euros*** are possible. Emission is reduced by 81 t CO_2.	Saving potential compared to conventional standard models according to this example: **54 %**

* 10.7 Cent/kWh, average electricity tariff for industrial use in Germany 2006 (source: VdEW)

Detailed examples and an individual option to calculate your personal savings at: www.eco.ebmpapst.com