

# The AxiTop diffuser.

Listen to the difference.

**ebmpapst**

The engineer's choice



## The whispering power pack.

The breakthrough for greater efficiency and less noise: our AxiTop diffuser provides a substantial improvement in efficiency and at the same time reduces operating noise. Its pressure-boosting effect minimises discharge losses and makes it easier to adapt the fan to commercially available heat exchangers. With the diffuser, a large part of the dynamic airflow energy is converted into static pressure. This greatly improves efficiency making it possible to reduce operating speed and thus noise.

In practice, the new diffuser offers far more design freedom for users and developers, only adding an additional 18 cm to the 800 mm fan height. The AxiTop does not exceed the base dimensions of the attached fan. The straightforward adaptation on an existing wall plate permits a simple retrofit on existing systems, without the customer having to make any modifications. Currently the AxiTop diffuser is available in sizes 800 and 910.



For example: a size 800 fan. It is still within the conventional dimensions even with the AxiTop.

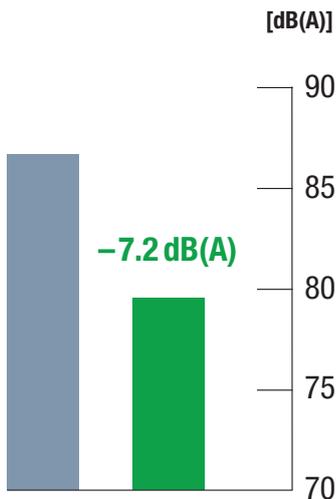
## Inner values that impress.

AxiTop is a gain for every refrigeration system. But how you make use of this benefit is your decision. The greater efficiency allows you to reduce the speed, lowering the acoustic pressure by up to 7.2 dB(A) and energy consumption by up to 27 % with unchanged airflow. That could save you up to € 411 in energy costs per fan per year.\* Alternatively, you could make use of the greater efficiency to boost air performance by up to 9 % with comparable energy consumption. That would enable the area of the heat exchanger to be reduced, for example. With AxiTop you have never been so flexible in the design of your refrigeration application!

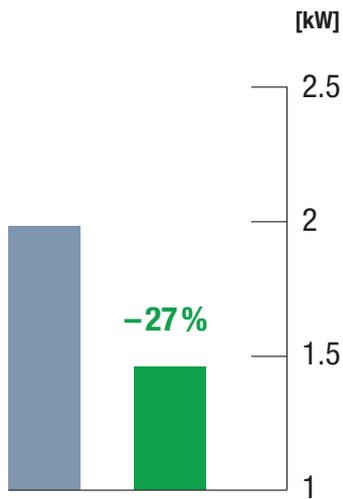
\* with a running time of 6,000 hours per year per fan and a kWh price of € 0.13

**Find your added value. Comparison: EC fan without AxiTop and EC fan with AxiTop:**

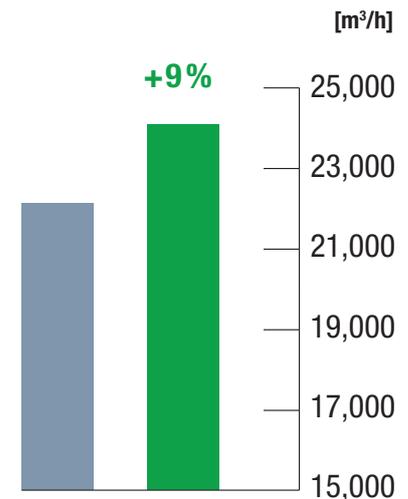
**Reduced noise at same air volume**



**Less energy consumption at same air volume**



**Increased air volume at comparable energy consumption**



Comparison figures measured in application, each with EC fans of size 800.

## Your benefits at a glance:

# AxiTop



Noise reduced by up to  
7.2 dB(A)

Up to 27 % lower  
energy consumption

Up to 9 %  
greater air performance

Compact dimensions



No need for design modi-  
fications by the customer

Straightforward retrofit

= Maximum customer benefit!

## Efficiency taken further.

As the market leader in ventilation and drive technology, it is our daily challenge to improve our products even further. For years, we have been developing the most energy-efficient drives. We use integrated electronic components to regulate energy consumption down even further – literally. Innovative materials make our products ever lighter and permit aerodynamic optimisation at the tips of the blades. All together, that makes fans made by ebm-papst the quietest and most efficient in the world.

How can we go one better? Literally with a plug-on diffuser which diverts the airflow in the right direction after it has exited the fan. This is where the greatest potential for optimising noise behavior and efficiency can be found – potential which until now has hardly been tapped. With the AxiTop diffuser, you can now use this potential for your cooling and refrigeration applications – in the simplest manner feasible: plug on and benefit.



The new AxiTop diffuser can easily be retrofitted to existing systems such as this one.

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