



Press Release

Compact energy-saving fan with diagonal impeller

Flat – but wow!

Fans in refrigerated and deep-freeze cabinets are operated almost continuously, so they offer especially large potential energy savings. The proven energy-saving fan from ebm-papst is now available with a diagonal impeller for especially tight spaces in the rear walls of refrigerated display cases.

Ideal for tight spaces

The axial fans from ebm-papst are designed for installation beneath the shelves in refrigerated and deep-freeze cabinets. The new diagonal fans, on the other hand, are intended for installation in the rear walls of refrigerated display cases. There is only very limited space for installation there, but with its very flat design, the diagonal fan fits in the narrow gap perfectly and conveys the air in spite of the relatively high back pressure.

High reliability

The new diagonal fan features specially optimized noise and air flow characteristics in the medium pressure range at 65 Pa and 500 m³/h. Additional benefits come with its efficient GreenTech EC motor: higher efficiency than AC fans, compact design, and flexible adjustability via a programming interface or an optional ESM plug-in module. The EC motor's minimal self-heating results in further energy savings. Its expected lifetime is more than 40,000 hours, which corresponds to approximately 4.5 years of continuous operation and means high reliability for the operator. The entire, fully harmonized functional unit also features impressively simple plug & play installation and commissioning.

Use in ceiling air coolers

The energy-saving fan with diagonal impeller is also suitable for use in ceiling air coolers, for example in small commercial cold storage rooms such as bakeries or butcher shops. The diagonal positioning of the blades redirects the incoming air radially toward the outlet. The flat design and high pressure insensitivity are additional pluses for this application. Placing a FlowGrid air inlet grill on the intake side can reduce noise emission further. The fan is available now in sizes 200 and 250.

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Fig. 1: The diagonal energy-saving fan for use in the rear walls of refrigerated display cases.



Fig. 2: Space for installation in the rear walls of refrigerated display cases is often very limited. With its flat design, the diagonal fan fits perfectly in the narrow gap.

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|----------------------|---|
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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 market standards. Developments have ranged from electronically controlled EC fans, through aerodynamic improvements of fan blades, on to the resource-conserving selection of materials, with sustainable materials being just one option.

In fiscal year 2015/16, the company achieved sales of almost €1.7 billion. ebm-papst employs approximately 13,000 people at 25 production sites (in Germany, China, the United States and elsewhere) and in 49 sales offices worldwide. Fans and motors from the global market leader can be found in many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automobiles and drive engineering.

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