

## ebm-papst at InnoTrans 2024

### Smart solutions for the rail sector

**InnoTrans, the international trade fair for the rail transport industry, will take place in Berlin from September 24 to 27, 2024. Located at Stand 180 in Hall 3.1, ebm-papst will be presenting smart and innovative solutions for rail transport applications.**

#### Higher power density and efficiency

The latest generation of RadiPac centrifugal fans from ebm-papst is characterized by its high energy efficiency and low noise levels. In the RadiPac C, maximum efficiency is ensured by the aerodynamically optimized impeller made of a high-strength, glass-fiber reinforced composite, combined with the latest generation of EC motors. The new generation was designed so that existing older fans can be replaced one-to-one in order to benefit from the improved efficiency and lower energy consumption of the plug-and-play centrifugal fans. In railway technology in particular, the RadiPac C fans in sizes 310 to 450 perform impressively in applications such as cooling auxiliary converters.

#### Optimized aerodynamics thanks to new blade design

The RadiCal Gen. 2 centrifugal fan is another new development that is ideal for use in trains thanks to its pleasant noise levels, compact dimensions and high air flows. In the optimized RadiCal product range, the innovative, three-dimensional blade geometry ensures a smaller tip gap compared to its predecessor, resulting in reduced losses, greater efficiency and less noise. The RadiCal in sizes 190 to 280 is used in cabin cooling applications, for example. Depending on their size, the fans are available in 24 V DC, 110 V DC and 400 V AC variants.

#### Axial power – specifically for rail transport applications

The AxiEco Track brings the strengths of the familiar axial fan series to the tracks as well and impresses with its compact dimensions, highly efficient EC motors, plug-and-play capabilities and high resistance to vibration and shock – making it ideal for use in trains. Until now, inefficient AC fans have often been used but, in contrast to modern EC fans, they are difficult to regulate as required and thus consume a lot of electrical energy. The noise-optimized AxiEco Track combines pleasant noise characteristics with the required efficiency. It goes without saying that it meets the standards normally applied in railway technology, such as EN 44545 for fire safety or EN 50121-3-2 for electromagnetic compatibility. The AxiEco Track is available in sizes 300 to 500 and its pressure-resistant characteristic curve makes it suitable for many uses, e.g. in the condensers for air conditioners or for cooling electronics and inverters.

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Image: ebm-papst has developed a wide range of fan solutions for railway technology applications.

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#### About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen, Germany, is the world's leading manufacturer of fans and motors. Since it was founded in 1963, the technological leader has set international industry standards with its core competencies in motor technology, electronics, digitalization, and aerodynamics. ebm-papst offers sustainable, intelligent, and tailor-made solutions for virtually every requirement in ventilation and heating technology.

In the 2022/23 financial year, the Group generated turnover of EUR 2.540 billion. It employs just under 15,000 people at 30 production sites (including in Germany, China, and the U.S.) and in 50 sales offices worldwide. ebm-papst sets the benchmark in almost all sectors, such as ventilation, air conditioning and refrigeration technology, heating technology, information technology, mechanical engineering, intralogistics, and medical technology.

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