

ebm-papst at Chillventa 2022

State-of-the-art technologies for greater efficiency and sustainability

Refrigeration and air conditioning are often subject to challenging ambient conditions. The demands on ventilation and air conditioning devices are constantly increasing, especially in terms of energy efficiency. ebm-papst will be presenting the latest developments in refrigeration and air conditioning technology at Booth 319 in Hall 4A at Chillventa.

Higher air flow rates and pressures thanks to new sizes

The axial fans in the AxiEco series from ebm-papst are also suitable for applications that require high air flows with a relatively high back pressure, meaning that ventilation and air conditioning devices can benefit from higher air flow rates. The AxiEco series has been successfully established on the market for two years and is now being expanded to include sizes 630, 800 and 910. The axial fan now makes air flows of over 25,000 m³/h and pressures of up to 700 Pa possible and is suitable for applications in chillers and evaporators, industrial process cooling, data centers and mobile refrigeration technology, for example.

Compact, powerful and energy-efficient

With the new RadiPac series, ebm-papst has succeeded in significantly improving existing centrifugal fans yet again: they operate with significantly higher efficiency levels and higher speeds ensure more air flow and higher pressures, meaning that even high-pressure applications can be covered. The impeller developed according to the latest aerodynamic findings drastically reduces flow losses and further decreases the noise levels. Furthermore, for the first time, the new, most powerful EC motor, FanDrive DV280, is used in the large RadiPac sizes. This delivers a torque of up to 180 Nm with outputs of up to 24 kW. For example, it is used in the size 800 RadiPac and enables a free-air air performance of up to 50,000 m³/h and maximum pressures of 2,300 Pa.

ebm-papst with expert presentations at Chillventa

The system efficiency of a fan is based on multiplying the efficiency of the individual components. For a fan with EC motor, these are the components of the motor, commutation electronics and aerodynamics unit. The greatest potential for improving the overall efficiency of the fan system is in the aerodynamic part. Under the title "AxiEco - high-efficient fan system", expert Patrick Stern will be presenting various key elements for improving the energy efficiency of axial fans and demonstrating the benefits in their subsequent operation.

Title: "AxiEco - high-efficient fan system"

Speaker: Patrick Stern, Product & Market Manager Axial Fans

Date and time: Tuesday, October 11, 2022, 11 a.m. to 11.20 a.m.

Location: Hall 7A, Booth 7A-616

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The combination of modern aerodynamics, efficient motors and demand-based control systems also offers great potential for savings in existing systems. Expert Martin Schulz demonstrates this in his specialist presentation and uses a few retrofit examples to show how potential for savings can be exploited by upgrading to efficient fans, focusing on refrigeration systems, ventilation systems and cooling towers. Recording and evaluating operating data also play an increasingly important role. With their ability to record and transmit operating and sensor data, this is where EC fans offer interesting options.

Title: "Built-in energy efficiency"
Speaker: Martin Schulz, Global Sales
Date and time: Thursday, October 13, 2022, 11 a.m. to 11.20 a.m.
Location: Hall 4A, Booth 4A-401

Fascinating voyage of discovery

Knowledge transfer of a slightly different type awaits trade fair visitors coming to the escape room truck from ebm-papst. There, information on technologies, selected product solutions and the company is conveyed in a playful way by visitors solving a tricky task. All those interested in going on a fascinating journey of discovery and wanting to experience the products can register for the escape room truck online in advance at www.ebmpapst.com/chillventa or at the trade show booth.



Image 1: State-of-the-art technologies for greater efficiency: at Chillventa, ebm-papst will be presenting its new developments in refrigeration and air conditioning technology, such as the AxiEco and RadiPac product ranges.

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Image 2: Experts Patrick Stern and Martin Schulz from ebm-papst will give two specialist presentations on the efficiency of fans at Chillventa 2022.

Photos ebm-papst

Characters approx. 4,000, including headings and sub-headings
Tags centrifugal fans, RadiPac, axial fans, AxiEco, system solution, gas/air composite system, hybrid systems, EC technology, energy savings, chillventa

Link <https://www.ebmpapst.com/chillventa>

About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen/Germany, is the world's leading manufacturer of fans and drives. Since the technology company was founded in 1963, it has continuously set the global industry standard with its core competences in motor technology, electronics, digitization and aerodynamics. With over 20,000 products in its portfolio, ebm-papst provides the best energy-efficient, intelligent solution for virtually every ventilation or drive-engineering task.

In fiscal year 2020/21, the "hidden champion" generated revenues of € 2.129 billion. The group employs roughly 15,000 people at 29 production sites (in Germany, China and the USA, to name but a few) and in 51 sales offices worldwide. ebm-papst sets the benchmark with their fan and drive solutions which are used in almost all industries, such as ventilation, air conditioning and refrigeration, heating, automotive, information technology, mechanical engineering, household appliances, intralogistics and medical engineering.

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