

ebm-papst at the Mostra Convegno in Milan

Efficient system solutions in the spotlight

ebm-papst will be presenting its latest products at the Mostra Convegno trade fair in Milan from March 12-15, 2024. It will be presenting the latest developments in the heating technology sector in Hall 3, Stand D31/E40 and also shining a light on fans for ventilation, air conditioning, and refrigeration technology in Hall 9, Stand H11/K20.

Powerful and quiet in heat pumps

ebm-papst developed the three-blade AxiTone EC axial fan specially for use in air/water heat pumps or condensers and thanks to its optimized blade geometry, it is particularly quiet. It is also designed for applications with flammable refrigerants. On the other hand, the AxiEco Plug-in impresses in cases where high pressure stability is required. These fans are supplied as a ready-to-install plug & play solution, including nozzle plate and FlowGrid, meaning the fans are easy to integrate into the application. Users will not have to worry about nozzles or distance from the impeller, nor concern themselves with conducting their own ErP assessment.

The newly developed inverter electronics also offer further advantages, as, among other things, they are suitable for speed-controlled permanent-magnet synchronous machines (PSM), which are typically used in compressors, e.g. in heat pumps. The ebm-papst commutation method, which has been optimized over decades, considerably reduces noise development and at the same time, efficiency is increased.

Future-proof condensing technology

The combination of gas blower, Venturi, gas valve, and controller always supplies gas condensing units in the power range up to 150 kW with the optimum quantity and composition of gas and air. The combination of the BCU 110 burner controller and the smart gas valves of the G01 series results in the CleanEco Sense combustion control system, which enables a switch, for example, from natural gas to 100% hydrogen at any time without any modifications. Therefore, with the new control system, condensing technology is ready for the future and ensures an almost silent start to the burner, regardless of which gas is used for heating.

New blade design improves aerodynamics

Ever lower energy consumption is required for devices for central residential ventilation and air conditioning, switch cabinet cooling, as well as for use in heat pumps and air purifiers. The opportunities in plastic production have enabled a second generation of RadiCal centrifugal fans with innovative blade geometry, which also contributes to a significantly higher efficiency and lower noise levels. With compact dimensions, they achieve high air flow rates and are available in various designs.

You can register for a free trade show ticket for Mostra Convegno at www.ebmpapst.com/registration.

Contacts Trade press

Pascal Schöpf
+49 7938 81-7006
Pascal.Schoepf@de.ebmpapst.com

Corinna Schittenhelm
+49 7938 81-8125
Corinna.Schittenhelm@de.ebmpapst.com

Katrin Lindner
+49 7938 81-4224
Katrin.Lindner@de.ebmpapst.com

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Press office contact
ebm-papst Group
Phone +49 7938 81-7105

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Fig. 1: AxiEco Plug-in (left) and AxiTone (right) are particularly quiet when used in heat pumps.



Fig. 2: The new CleanEco Sense combustion control system enables a fuel switch, for example from natural gas to 100% hydrogen, without any modifications.

Photo 1 ebm-papst
Characters approx. 2,700, including headings and sub-headings
Tags AxiTone, AxiEco Plug-in, inverter electronics, CleanEco Sense,
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Link <http://www.ebmpapst.com/registration>

About ebm-papst

The ebm-papst Group, a family-run company headquartered in Muldingen, 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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Pascal Schöpf
+49 7938 81-7006
Pascal.Schoepf@de.ebmpapst.com

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+49 7938 81-8125
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