

Two presentations: residential ventilation and avoiding resonance

Expert lectures from ebm-papst at ISH

ebm-papst will be in attendance at the ISH trade fair, held in Frankfurt from March 11-15, 2019, where it will showcase the latest air conditioning and condensing technology solutions in Hall 8.0, Stand F91. Experts from ebm-papst will hold two lectures as part of the "Skills@ISH" program of supporting events.

Avoiding resonance-induced damage

Every mechanical device with a rotating mass has a residual imbalance that stimulates vibrations. If the stimulation force coincides with the device's natural oscillation, this produces a state of resonance. The deflections in the resonant range may be so high that they damage the device, for example the fan. Speaker Uwe Sigloch will present fan solutions that can detect resonance and reduce its harmful effect. In this way, EC centrifugal fans can be operated across the entire speed range without becoming damaged.

"Fans for AHUs – solutions to avoid resonance-induced vibrations"

Speaker: Uwe Sigloch, Head of Product & Market Management at ebm-papst Mulfingen

Date: Monday, March 11, 2019, 15:30

Venue: Air-Conditioning Forum in Hall 8.0 A19 / A31

Residential ventilation helps to improve the quality of ambient air

Special fans that control both air intake and exhaust are needed for residential ventilation in both new and renovated buildings. Thanks to its precisely controllable air flow, the RadiCal centrifugal fan in a scroll housing is ideal for residential ventilation. The integrated volume constancy control enables effective residential ventilation without an overpressure or underpressure occurring in the living space.

The speakers will also present a fan for monotube ventilation systems, designed to ensure a supply of fresh air in bathrooms and WCs that do not have a window. The air is exchanged through a central duct, which is why these systems are referred to as monotube ventilation systems. To meet the needs of this particular application, ebm-papst has developed an efficient system solution with EC fans and sophisticated on-board electronics.

"Quiet and efficient system solutions for residential ventilation"

Speakers: Lena Kern and Nikolai Lukin, both Sales Engineer Industrial Ventilation Technology at ebm-papst Mulfingen

Date: Friday, March 15, 2019, 10:30

Venue: Building Forum in Hall 10.3 B10/B20

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ebm-papst will be holding two expert lectures at ISH 2019, including in the Air-Conditioning Forum. This Forum is the information and communication platform for the air-conditioning, refrigeration, and ventilation sector at ISH.

Image 1 Messe Frankfurt Exhibition GmbH/Petra Welzel
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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 industry standards: from the digital interconnection of electronically controlled EC fans to aerodynamic improvements for fan blades to the use of eco-friendly materials.

In fiscal year 2017/18, the company achieved sales of over € 2 billion. ebm-papst employs over 15,000 people at 27 production sites (e.g. in Germany, China and the US) and in 48 sales offices worldwide. Fans and motors from the world market leader are used in many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automotive and drive engineering.

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