

## Intelligent fans

### Presentation at SPS IPC Drives

**The SPS IPC Drives trade show will take place at the end of November in Nuremberg, and is set to play host to informative and exciting discussions on current industry trends under the direction of specialist publishers and associations. Danijel Debak from ebm-papst will present the RadiCal centrifugal fans in a scroll housing for use in industrial applications.**

Under the title of "Decentralized intelligence – smart centrifugal fans in a scroll housing", Product & Market Manager Danijel Debak will present the centrifugal fans on Tuesday, November 27, 2018 from 14:40-15:00, at the forum in Hall 3, Stand 3-668. Entry is free of charge for visitors to the trade show, and the presentation will be held in German.

#### Integrated central control electronics

In addition to their outstanding properties in terms of air performance and noise emissions, the RadiCal units come equipped with intelligent IoT features as standard. The central electronics integrated in the blower offer further options in addition to motor control. A vane anemometer positioned in the outlet of the scroll housing continuously records the actual air flow and transmits the data to the integrated central control electronics of the fan. These control electronics adapt the speed of the EC motor to the desired setpoint value, thus regulating the air volume.

#### Option to read out motor operating data

Furthermore, three external sensors can also be connected to record additional individual parameters. Alongside the values detected by the sensors, it is also possible to record the operating data of the motor via the central fan electronics. This enables recording of the running time of the blower in order to determine when the filter needs to be changed, for example. All information can be communicated conveniently via the MODBUS-RTU interface and can be managed and monitored remotely.

#### Centrifugal fans with utmost versatility

The RadiCal units in a scroll housing were originally developed for use in central residential ventilation units. In his presentation Danijel Debak will discuss new industry applications, for example forced ventilation or cooling of variable frequency drives.

#### Profile of Danijel Debak

Danijel Debak has a degree in industrial engineering (University of Applied Sciences) and has been employed at ebm-papst in Mulfingen since 2016. In his role as Product & Market Manager he is responsible for centrifugal fans in Sales.

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Fig. 1: Danijel Debak from ebm-papst will present the RadiCal units in a scroll housing for use in industrial applications at the forum at SPS IPC Drives.

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Fig. 2: The forum in Hall 3, Stand 3-668 at SPS IPC Drives is set to play host to a range of fascinating presentations.

Fig. 1 ebm-papst  
Fig. 2 Mesago/Thomas Geiger  
Characters approx. 2,400, including headings and sub-headings  
Tags EC technology, centrifugal fan, energy saving, RadiCal  
Link <https://www.ebmpapst.com/radical4home>

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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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