

Better and quieter thanks to new impeller geometry and high-performance electronics

New EC centrifugal fans for more power and efficiency

Ventilation and air conditioning fans are constantly being developed, as users demand for control options and energy efficiency in particular are increasing rapidly. Legal requirements, increasing awareness of environmental issues and possible potential for savings in operating costs also contribute to this.

With the new RadiPac series, ebm-papst has succeeded in significantly improving the existing centrifugal fans yet again. The latest generation of RadiPac fans operates at considerably higher efficiency levels. Higher speeds ensure greater air flow and higher pressures, enabling even high-pressure applications to be covered.

New impeller: more efficient and quieter

The impeller developed according to the latest aerodynamic findings means that flow losses are drastically reduced and noise generation is decreased further. Depending on the operating point, this is between 3 and 7 dB(A) lower than those of the previous series. A high-strength, glass-fiber reinforced composite material was used, enabling a complex shape and ensuring the impeller's stability.

GreenTech EC motors: more powerful, more flexible and even more compact

The EC motors integrated into the fans in the power range from 500 W to 8 kW achieve efficiency levels in accordance with the requirements for efficiency class IE5 set in IEC/TS 60034-30-2. The new 8 kW drive sets high standards in terms of its high-performance electronics and more compact dimensions. It has been expanded to include a configurable interface, including a MODBUS RTU interface and an integrated resonance sensor. This resonance sensor measures oscillations and vibrations and reports disturbances before the fan is damaged - truly in the spirit of GreenIntelligence.

Flexible options and suitable for retrofitting

In order to suit different installation situations, the new RadiPacs are available in a standard and short version. Both versions are available as a motor-impeller combination or as a ready-to-install plug & play solution in a sturdy support bracket for easy wall mounting. As an option, there is a completely enclosed FlowGrid air inlet grille that reduces noise-generating turbulence in the inflow and also functions as a guard grill. Retrofitting is generally possible in the application without any modifications to the design, as the new fans are geometrically smaller despite higher power in the same design size. Sizes 310 to 630 with air performance of up to 20,000 m³/h and a static pressure increase of well over 2,000 Pa will be available from October 2021. Sampling is possible on request as of now.

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Fig. 1: The new RadiPac as a ready-to-install plug & play solution in a compact support bracket for simple wall mounting.

Characters approx. 2,600, including headings and sub-headings
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Link <https://www.ebmpapst.com/radipac>

About ebm-papst

The ebm-papst Group, a family-owned company in Mulfingen, Germany, is the world market leader in fans and drives. Founded in 1963, the technology leader with its core competences motor technology, electronics and aerodynamics, has set international market standards ever since. With over 20,000 products, ebm-papst offers customized, energy-efficient and intelligent solutions for virtually any ventilation and drive technology requirements.

In fiscal year 2019/20, the hidden champion achieved a turnover of 2.188 billion euros and employed almost 15,000 people in 29 production sites (e.g. in Germany, China and the US) as well as in 48 sales locations. With their fan and drive solutions, ebm-papst defines and sets the benchmark in practically all industries, such as ventilation, air-conditioning and refrigeration, heating, automotive, IT, mechanical engineering, catering and household appliances, intralogistics and medical engineering.

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