

Moving air reliably through filter systems and branched duct networks

Compact external-rotor fans turn up the pressure

When the air needed for air conditioning and ventilation is moved over long distances, the fans being used have to work at high pressure to ensure that the required amount of air is delivered in spite of back pressure. ebm-papst has specially adapted its RadiPac centrifugal fan to meet these requirements.

Narrower impeller for more pressure

The impeller has been aerodynamically optimized and the blade outlet width narrowed to enable the higher speeds that result in higher pressure. The new RadiPac are designed for high outlet pressures of up to 2,500 pascals and, depending on their size, enable flow rates of up to approximately 15,000 m³/h.

Space-saving external rotor design

The proven external rotor design has been retained, so the high-pressure models are also axially compact and require little space for installation. The fans are driven by high-efficiency GreenTech EC motors, which can be flexibly controlled and intelligently interconnected. Plug & play is no problem thanks to simple connections and commissioning.

High-pressure fans

There are many situations in which fans have to work at high pressure, including complex air distribution networks or air ducts that have to fit in tight false ceilings and naturally need to have small cross sections. This is also the case for air handling units (AHUs) in airports when incoming air passes through an activated carbon filter to minimize pollutant levels. Steam and droplet separators with many pipe bends also cause high pressure losses and call for corresponding performance from the fans used in them.

Expanded portfolio

ebm-papst has expanded its product portfolio, now supplying reliable centrifugal fans with proven EC external rotor design for applications that have to overcome high pressures to achieve optimum air flow. Sizes 630, 560, 400 and 355 are available now.

Katrin Lindner
Trade press coordinator
Phone: +49 7938 81-7006
Fax: +49 7938 81-97006
Katrin.Lindner@de.ebmpapst.com

Corinna Schittenhelm
Trade press coordinator
Phone: +49 7938 81-8125
Fax: +49 7938 81-98125
Corinna.Schittenhelm@de.ebmpapst.com

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Press office contact
ebm-papst Group

Phone +49 7938 81-7105
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youtube.com/ebmpapstDE
www.ebmpapst.com

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Fig. 1: Now RadiPac centrifugal fans are also available for high pressures up to 2,500 pascals.

Photo ebm-papst
Characters approx. 2,200, including headings and sub-headings
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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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Trade press coordinator
Phone: +49 7938 81-7006
Fax: +49 7938 81-97006
Katrin.Lindner@de.ebmpapst.com

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