

Smaller, lighter, better

FanGrid Solutions for High Air Performance

To achieve high air performance in ventilation technology, several smaller fans are combined to create a FanGrid. ebm-papst now has FanGrid modules with RadiPac centrifugal fans in its product range – with automatic resonance detection for more operating reliability.

Many applications require high air performance. Data centers, large industrial building complexes, hotels, residential complexes and hospitals are all typical examples.

Cubes prevent installation loss

At ebm-papst, fans for a FanGrid are installed in a support structure. The cube has extra-generous dimensions to prevent the undesirable installation loss that arises when fans are positioned too close together and can influence each other.

Automatic resonance detection for more operating reliability

Depending on the installation situation, resonance can cause vibrations within specific speed ranges. Such vibrations can damage the bearing system of electric motors and lead to fan failure. This is why ebm-papst has developed automatic resonance detection that minimizes the effects of vibration – vibration velocity – for its RadiPac centrifugal fans.

Energy-efficient EC technology with convenient closed-loop control

The driving force behind the fans installed in the fan grid are modern EC motors, which are highly energy efficient in both full- and partial-load operation. The FanGrid line is rounded out by a new controller that easily activates fans operated in parallel. It requires minimal wiring work. ebm-papst FanGrid modules are available as plug & play-compatible units or as complete kits consisting of the fans, air inlet grill, support plate, corner connectors and spacer profiles for direct installation on site.

Smaller, lighter, better: FanGrid

In practice, FanGrids have many benefits. The individual fans can be arranged next to or above each other to save space. They significantly improve air distribution and ensure a more even airflow through upstream or downstream components such as filters or heat exchangers. Their redundancy also increases operating reliability, since the other fans compensate for missing air performance. The relevant redundancy requirements can be taken into account during the selection process.

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Fig 1: ebm-papst now offers FanGrid modules with RadiPac centrifugal fans with automatic resonance detection for more operating reliability.

Fig. 1 ebm-papst
Characters Approx. 2,200, including headings and sub-headings
Tags FanGrid, AHU, air performance, resonance, vibration, EC motors, redundancy
Link <http://www.ebmpapst.com/radipac>

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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