

RadiFlow 630: High airflow capacity in a compact design

Greater efficiency and power density in HVAC units and data centers

Modern HVAC technology faces rising energy costs, limited installation space and increasing performance requirements. With the RadiFlow 630, ebm-papst introduces a fan solution that addresses these challenges head-on. High airflow rates, significantly improved efficiency in the application, and an exceptionally compact design open up new possibilities for manufacturers of HVAC units, CRAH units and fan wall units (FWU)—especially in data centers.

Compact design as a system advantage

The RadiFlow 630 was specifically developed for applications with low to medium back pressure. Thanks to the axial flow, high airflow rates can be achieved even in narrow air ducts—without the performance losses typically associated with such designs. In FanGrid concepts, the fan design enables more efficient use of space as well as significant space savings.

Application-specific optimized impeller

At the heart of the concept is a newly developed impeller made of glass-fiber-reinforced composite material. The diagonal impeller with six blades significantly reduces flow losses. The result is up to 10% higher efficiency in the application compared to market competitors—especially in the lower speed range, which is crucial for many HVAC applications.

Integrated drive technology for quiet operation

The highly efficient EC motor is integrated into the impeller in a space-saving design, significantly reducing the fan's overall length. A specially designed motor suspension distributes forces evenly across multiple mounting points and ensures smooth, quiet operation. The integrated resonance detection protects the bearings during startup and enhances operational reliability in the respective installation scenario.

Efficiently networked for demanding infrastructures

RadiFlow fans support demand-based speed control via 0–10 VDC or MODBUS RTU and are designed for continuous operation in HVAC and data center applications. Variants with Active PFC (Power Factor Correction) reduce grid disturbances and minimize the need for external filters and infrastructure components. In combination with integrated EMC filters, international approvals, remote monitoring functions and the compact design, scalable climate control concepts with high power density can be implemented—from space-optimized air handling units to FanGrid systems in modern data centers.

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Figure 1: The new RadiFlow fan with a diameter of 630 mm.

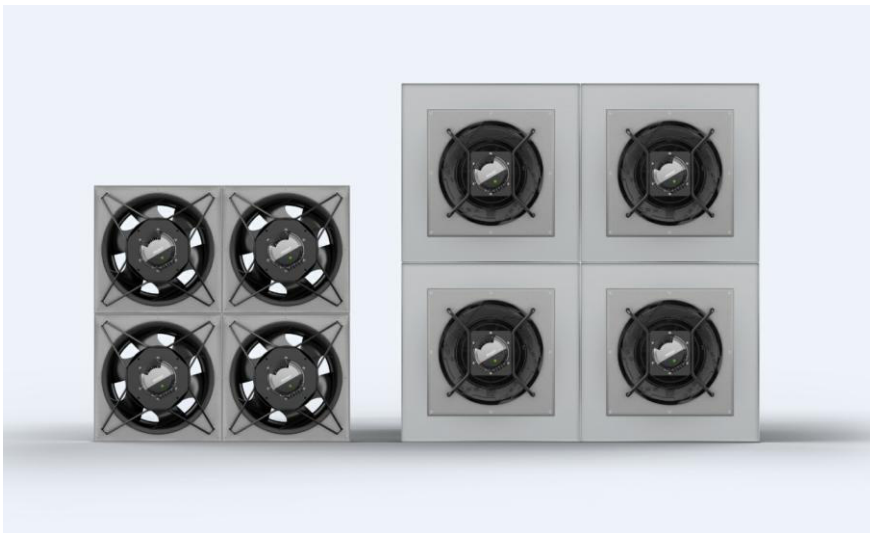


Figure 2: In modular designs, the new fan design enables significant space savings and more efficient use of space.

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Photos	ebm-papst
Characters	approx. 2,400, including headings and sub-headings
Tags	RadiFlow, Active PFC, Data Centers, HVAC, CRAH Units, Fan Wall Units, FWU
Link	www.ebmpapst.com/radiflow

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About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen, Germany, is the world's leading manufacturer of fans and motors. Since it was founded in 1963, the technological leader has set international industry standards with its core expertise in motor technology, electronics, digitalization and aerodynamics.

ebm-papst offers sustainable, intelligent and tailor-made solutions for virtually every requirement in ventilation and heating technology. ebm-papst sets the benchmark in almost all sectors, such as ventilation, air conditioning and refrigeration technology, heating technology, information technology, mechanical engineering and medical technology.

In the 2024–25 financial year, the ebm-papst Group generated a turnover of 2.1 billion euros. It employs around 13,500 people at 30 production sites, including in Germany, China and the U.S., as well as in 50 sales offices worldwide.

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