



## Press Release

Family of high-performance fans with environmentally friendly design

### Minimum energy use with maximum flow rate

The compact design of IT/telecommunications and automation equipment, frequency converters, welding machines and solar inverters calls for special fans to convey waste heat away from their densely packed components. The experts at ebm-papst in St. Georgen in the Black Forest have developed a new generation of high-performance fans, the S-Panther, especially for such critical applications. To increase the efficiency with respect to the previous model, the aerodynamics were improved with a refined winglet design and a new strut design. The optimised air conduction permits a lower speed for the same air performance, i.e. at high performance the sound power of the new 172 mm fans is up to 9 dB(A) lower than that of earlier models at the same operating point.

Mechanically, the use of new plastics and connection technology has resulted in a simpler design, including a housing with mechanically simplified vibration properties. Drive is provided by 3-phase multipole motors with 6-, 8-, 10-, or 12-pole magnetised rotor units. Together with the 9-slot stator packs, they provide for efficient conversion of electrical to mechanical energy. The design is based on environmentally friendly production, also taking future disposal into account. The fan family includes versions in 80x80 mm with up to 172 mm diameter and covers all speed variants. Depending on application, low- and high-speed versions are also available.



### ***S-Panther***

Photo 1 New high-performance fan 6300N for demanding applications (photo: ebm-papst)

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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 market standards. Developments have ranged from electronically controlled EC fans (recently launched onto the market), to aerodynamic improvements to fan blades, to resource-conserving selection of materials, including biomaterials. In the 2012/13 fiscal year, the company achieved a turnover of just under €1.4 billion. ebm-papst employs around 11,000 people at 18 production sites (including in Germany, China and the USA) and in 57 sales offices worldwide. Fans and motors from the global market leader are used in many branches of industry, including ventilation, air conditioning and refrigeration technology, household appliances, heating systems, IT and telecommunications, as well as automotive and commercial vehicle applications.

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