

AxiForce – more power, less noise Latest generation of tubeaxial fans

The AxiForce tubeaxial fans are the latest generation of fans from ebm-papst, delivering more power with less noise. They are used in industrial applications and to cool electronics and telecommunications power modules.

The new fans are based on the successful S-Force series of tubeaxial fans from ebm-papst. The series of new AxiForce fans starts at a size of 80 mm. They are used to cool automation equipment such as variable frequency drives and robot controllers, LED displays, power modules for 5G mobile network infrastructure, electronics in video streaming servers, or data center equipment.

More power, less noise

The new AxiForce fans have the same dimensions as their predecessors but with aerodynamically optimized impellers and housings. At an operating point of 108 m³/h at 285 Pa back pressure, the AxiForce 80 delivers an increase in efficiency of 42% and reduces noise emission by 7 dB(A); the new generation delivers more power with less noise.

High pressure, small space

The new AxiForce 80 tubeaxial fan was developed for applications with high back pressure (up to 1,400 Pa). It has a steeper characteristic curve as needed for applications such as cooling automation equipment with densely packed components whose waste heat must be removed with axial air flow. The characteristic curve's saddle area is nearly twice as high, enabling greater air flows in spite of higher back pressures and achieving considerable performance increases in the applications.

Strong IP68 protection

A special environment-resistant variant was developed for the new AxiForce, satisfying the requirements of protection class IP68 – dustproof and protected against powerful water jets. This variant can also pass a 30-day salt spray test. Also available is a version that satisfies stricter EMC requirements according to DIN EN 55032 class B.

The new AxiForce fan series begins with size 80/80/38 mm, which will be available from March 2020. Other sizes are to follow in the summer of 2020.

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Fig. 1: The new AxiForce tubeaxial fans from ebm-papst deliver more power with less noise.

Fig. 1 ebm-papst
Characters Approx. 2,400, including headings and sub-headings
Tags tubeaxial fan, electronics cooling, cooling, switch cabinets, salt spray resistance, EMC requirement
Link <https://www.ebmpapst.com>

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 the technology company was founded in 1963, it has continuously set the global industry standard. With over 20,000 products in its range, ebm-papst provides the best energy-efficient, intelligent solution for virtually every ventilation or drive engineering task.

In fiscal year 2018/19, industry leader ebm-papst generated revenues of 2.18 billion euros. It employs over 15,000 people at 28 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 most industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automotive and drive engineering.

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