



Press Release

Ø 172 × 132 mm counter-rotating fan with large pressure increase

Two opposing fans with high flow rate and efficiency

Compact high-performance machines (e.g., for highly integrated electronics in the fields of IT, telecommunications, network technology and renewable energy) require cool air that reliably reaches internal components requiring cooling. In some cases, conventional single fans are too weak. The cooling air specialist ebm-papst has developed the new CR 6300 N (counter rotating) for such cases. Here, two single fans connected by an intermediate piece work together to provide high efficiency with minimal space requirements. The operating noise is up to 4 dB(A) lower than for high-revving single fans. The CR 6300 N can achieve a flow rate of up to 1145 m³/h and a counter pressure of up to 1858 Pa. The counter rotating team consists of two adjustable fans of the CR 6300 N series. These rotate together in opposite directions. The rear fan can thus efficiently convert the residual twist of the front fan into output; the efficiency is greater than individual solutions. Both fans are connected by a 30-mm-wide intermediate ring, which varies depending on the application. With both 51-mm-deep fans, the total unit has a length of only about 132 mm. The fan housing made of die-cast aluminum and the wheels made of glass-fiber-reinforced PA are aerodynamically optimized for each respective direction and each weigh only 875 g. The fans and ring can be purchased as a single unit or as a kit. With 48 VDC operating voltage, the CR 6300 N is well-suited for all applications that require a particularly space-saving cooling fan and/or powerful yet highly efficient air delivery.



Image 1: High pressure increase with excellent efficiency in the smallest space: the CR 6300 N (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. These developments range from electronically controlled EC fans, to aerodynamic improvements to fan blades, to resource-conserving selection of materials, including biomaterials.

In the fiscal year 2014/15, the company achieved sales of just under €1.6 billion. ebm-papst employs approximately 12,000 people at 18 factories (including in Germany, China and the USA) and in 57 sales offices and distribution centers worldwide. Fans and motors from the world market leader are used in many industries, including ventilation, air conditioning and refrigeration technology, household appliances, heating systems, IT and telecommunications, as well as automotive and commercial vehicle technology applications.

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