



## Press Release

**80 × 80 × 80 cooling cube more efficient than two single fans**

### **“Tandem fan” for more air throughput**

Modern servers, routers, network storage and telecommunications systems with high packing density – and hence high air internal resistance – require highly efficient cooling. Even high-performance fans quickly reach their limits. In difficult situations, the fan specialist ebm-papst therefore relies on a “twin tandem”. Two serially connected S-Force fans give rise to the CR 8200 J (co-rotating) fan (Figure 1). With up to 232.5 m<sup>3</sup>/h and 1268 Pa, it provides more air flow volume and pressure than special solutions. Unlike parallel operation for which an intermediate distance between the fans is required, the cubic fan saves valuable space and measures only 80 × 80 × 80 mm.

The “tandem” is based on two J 8200 S-Force fans connected via a 4-mm-wide honeycomb composite structure. The fan, which weighs only 370 grams, moves air very efficiently. The two fans are completely identical – the motors run in the same direction, and the fan blades of the rotors are curved in the same direction. Because of the swirl reducing effect of the honeycomb structure, the second fan can again contribute efficiently to the increase in air pressure. Both engines are individually adjustable and thus allow for the optimal adjustment of air quantity or pressure increase for each cooling requirement (Figure 2). The new fan is available in the 12, 24, or 48 VDC version.



**Image 1:** The high-performance CR 8200 J tandem fan also moves large amounts of air against high back pressure (ebm-papst)

#### **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

Anja Nießner  
Public Relations

ebm-papst St. Georgen  
Hermann-Papst-Straße 1  
78112 St. Georgen

Telefon: +49 7724 81-1311  
Telefax: +49 7724-81-51311  
anja.niessner@de.ebmpapst.com

17. August 2015- Page 1 of 2

Press office contact  
ebm-papst Group

Phone: +49-7938-81-7105  
presse@de.ebmpapst.com  
twitter.com/ebmpapst\_NEWS  
facebook.com/ebmpapstFANS  
youtube.com/ebmpapstDE  
www.ebmpapst.com  
www.greentech.info/ec-technologie



## Press Release

**80 × 80 × 80 cooling cube more efficient than two single fans**

### **“Tandem fan” for more air throughput**

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.

Anja Nießner  
Public Relations

ebm-papst St. Georgen  
Hermann-Papst-Straße 1  
78112 St. Georgen

Telefon: +49 7724 81-1311  
Telefax: +49 7724-81-51311  
anja.niessner@de.ebmpapst.com

17. August 2015- Page 2 of 2

Press office contact  
ebm-papst Group

Phone: +49-7938-81-7105  
presse@de.ebmpapst.com  
twitter.com/ebmpapst\_NEWS  
facebook.com/ebmpapstFANS  
youtube.com/ebmpapstDE  
www.ebmpapst.com  
www.greentech.info/ec-technologie