



More power and less consumption for the same physical design

New GreenTech compact EC fan scores in practical use

With its advanced ACmaxx generation of fans, ebm-papst St. Georgen sets new standards in reliability, service life and energy consumption. Going under the name imaxx, the new fans offer for the first time the complete integration of drive, fan and converter electronics in the hub of the motor. This full integration of all drive components can also be seen in the compact dimensions.

The ACi 4400 (119 x 119 x 38 mm) with GreenTech EC technology (Fig. 1) needs a power consumption of just 4.4 W (65% efficiency of the drive motor) to generate a volume flow of 180 m³/h and a maximum pressure of 74.7 Pa with 42 dB(A) operating noise. It is available off the shelf in various speed versions (Fig. 2). The service life is more than 65,000 hours (at 40 °C).



Fig.1 ACi 4400 with GreenTech EC technology

Strands or flat plugs that can be configured as necessary and a weight of 250 g make it suitable for many different applications. Approvals in accordance with VDE0850, UL, CSA and CCC standards have been obtained.

The operating temperature of the fan ranges from -40 to +75 °C. With 85 to 265 V (50/60 Hz), the input voltage range covers all commonly used mains voltages around the world. Because the standard dimensions are the same as those of the old AC fans, it is just as straightforward to upgrade the fan by retrofitting as it is to integrate the fan into a new system.

And it pays to switch: a comparison of the high efficiency ACi 4400HH EC fan with a standard AC fan shows energy-savings of 73% and a payback period of 11.5 months (calculation based on an electricity tariff of 0.16AU\$/kWh, purchase of 10 fans and an operating time of 24hrs/day).

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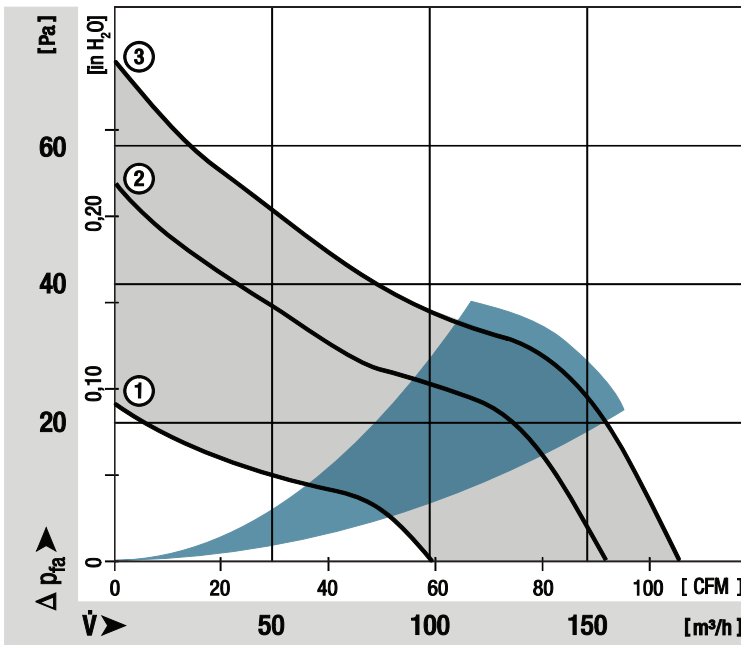


Fig. 2 Characteristic curve of the fan

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