

Movement by Perfection



The Royal League in ventilation, control and drive technology



FE2owlet in ZAcube

Simple and flexible for configuration
of high-efficiency fans

Welcome to the technology leader

ZIEHL-ABEGG SE is the world's leading system supplier in the area of fans and drive technology as well as the corresponding control technology. With its innovative products, the company impresses in a wide range of application areas. ZIEHL-ABEGG products are optimized for the most varied of applications. In order to simplify the use and design of a fan configuration, we have expanded our product range with the FE2owlet fan in the ZAcube. This simultaneously reduces the costs for assembly and installation.

Global manufacturing network

ZIEHL-ABEGG has 28 subsidiaries worldwide. More than 100 of our own sales offices ensure proximity to our customers, all around the world. They take in trends, developments, and customer wishes all at the same time, so that these can be incorporated in product development. 18 international production sites represent product quality that is globally consistent.

ZAplus

The ZAplus housing allows for optimal air flow, which was developed using the most up-to-date CFD simulations. The housing was produced by means of high performance composite injection moulding. The production process ensures the exact reproducibility of all shapes. On the suction side, the air feed is decisive for optimal fan operation. The well-known FE2owlet blade design and ZAplus nozzle interact in perfect harmony.

On the pressure side, an axial fan generally contains a large portion of rotating air flow, which is disadvantageous for efficient and low-noise operation. ZAplus possesses guide vanes and a short diffusor to counteract this flow behaviour resulting in a consistently noticeable improvement in performance data and acoustics.

ZAplus Benefits

Advantage in terms of performance

- More air power
- Reduction in operating costs
- Short payback period
- Reduced and redirected sound emission
- Meets the highest demands with regard to UV stability and durability
- Add-ons possible thanks to extensive accessories (diffusor, heating tape, control engineering and much more)

Advantage in terms of environmental protection

- No transport packaging
- 100% speed controllable
- ErP2020 compliant, also with regard to AC motor technology
- Acoustics directed upward
- Simple retrofitting of existing systems (RETRO-FIT)

FE2owlet vs ZAplus Comparison

Standard fan frame size 800 mm,
EC technology
Speed 1,101 rpm
Power consumption 2,536 W
Acoustic power 85.7 dB



Example calculation:
Device Condenser
Pressure loss 109,987 Pa
Volume flow rate 25,000 m³/h

VS



ZAplus fan frame size 800 mm,
EC technology
Speed 1,033 rpm
Power consumption 2,032 W
Acoustic power 83.8 dB

**A saving of 504 watts | at 0.10 EUR/kWh | at 6,000 operating hours/year
= 312,05 EUR/yr/fan**



FE2owlet in ZAcube – a fan system for highly efficient, modern ventilation in a variety of configurations



Applications

In agriculture

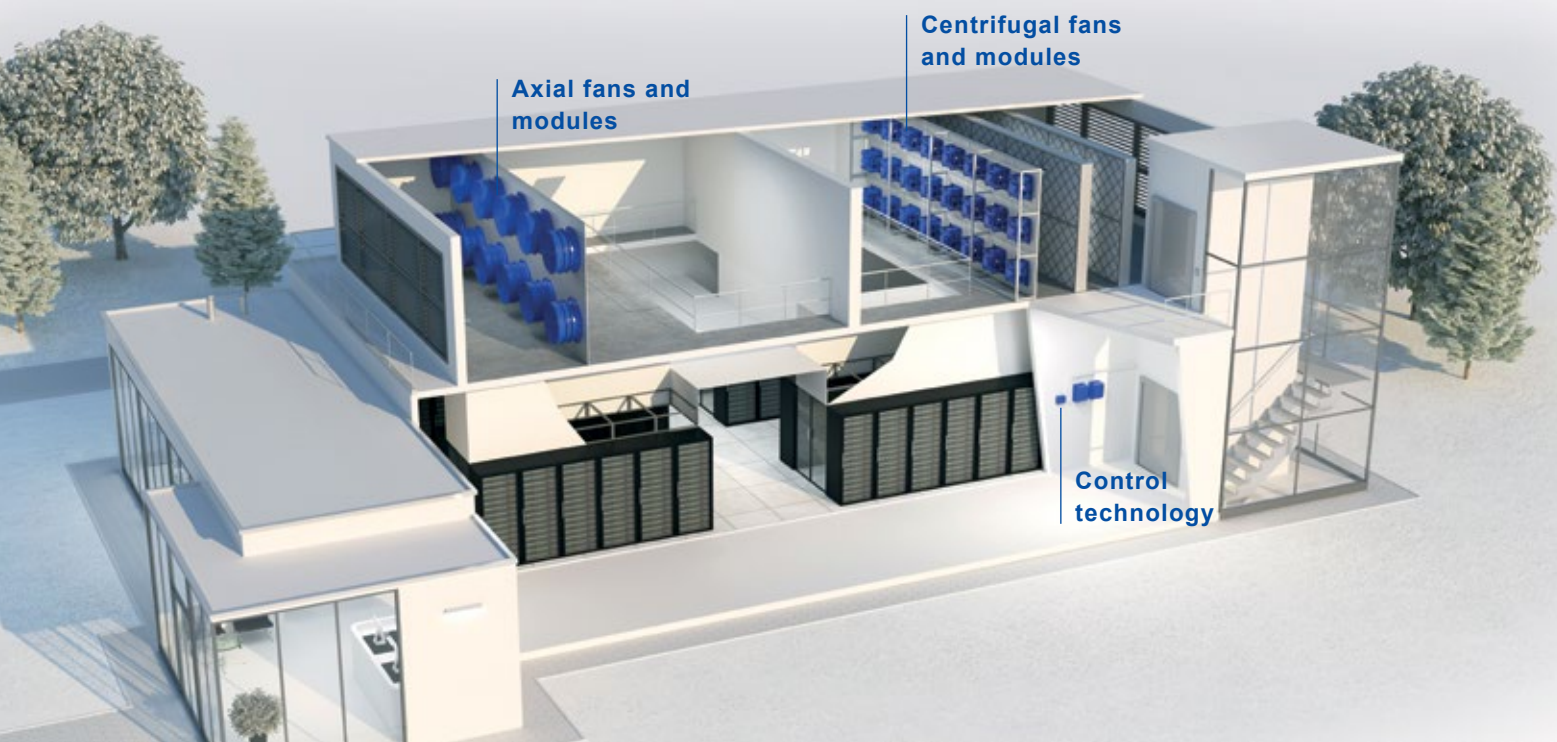
Regular air exchange in agriculture buildings is essential for achieving optimal conditions, animals and stored products. Fans have to withstand the toughest ambient conditions in the environment.

In order to meet these challenges and achieve the best possible result, ZIEHL-ABEGG fans have been specially designed for agriculture.

In Data Center

Free cooling uses outside air to cool the data center and avoids the use of compressors as much as possible, achieving a large amount of energy savings. The fans that are used need to generate large volume flow rates and are often installed, controlled and monitored in a large group. ECblue fans and control technology from ZIEHL-

ABEGG perfectly meet the corresponding requirements. The fans have a high level of energy efficiency, can be mounted in a modular fashion, are easy to control and can be quickly replaced as necessary. Our control technology provides the right solution for easy networking and monitoring of the fans.



The Royal League

