

Movement by Perfection



The Royal League in ventilation, control and drive technology



## FE2owlet-ECQ

The quiet and smart solution for refrigeration technology



## Maximum efficiency, minimum energy costs for supermarkets

To ensure that fresh goods are available in the supermarket the whole year round, suitable cooling and storage is required. This task is performed by different refrigeration units, such as refrigerated displays, meat counters or fridges and freezers.

In order to ensure the high quality of fresh products, the cold chain must be maintained consistently – 24 hours a day, 365 days a year. This involves a high energy consumption and cost expenditure. In addition, reduced noise emissions from the machines are becoming increasingly important to provide a relaxed shopping environment.

Efficient and energy saving fans are in demand, and ZIEHL-ABEGG has the perfect solution: the low-noise FE2owlet fans combined with the latest ECQ motor technology.



# Pioneering cooling technology

## The ECQ energy saving motor: efficiency is everything

In the past, fans used in refrigeration units were predominantly powered by shaded pole motors. These motors have a very low energy efficiency of around 18%, meaning that 82% of the energy is transmitted to the cold chamber as waste heat. This results in increased cooling requirements and energy consumption.

In contrast, the extremely efficient ECQ motor range from ZIEHL-ABEGG has an efficiency rate of up to 65%. As a result, these motors produce minimal waste heat and and considerably reduced energy consumption.

## More efficiency with demand-based control

Fans used in refrigeration units generally have two speed settings. The new ZIEHL-ABEGG ECQ energy saving motors offer a new level of flexibility in application with three possible speed settings.

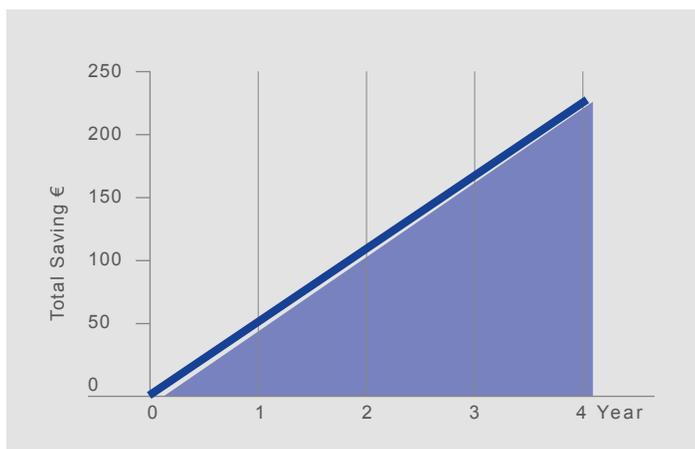
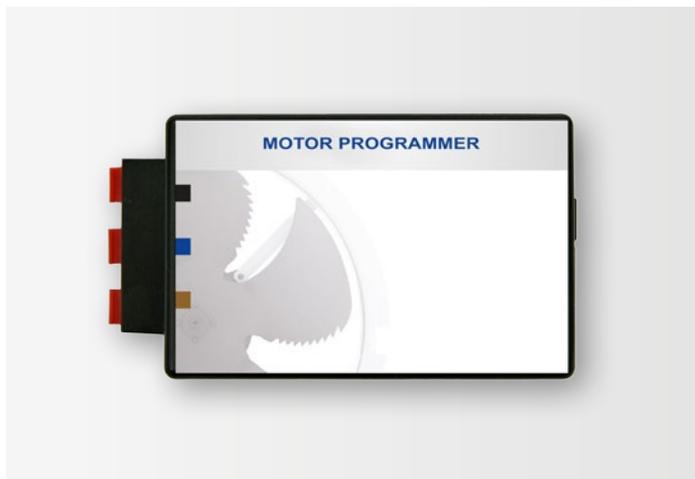
These can be freely programmed by using the USB connector of the PC which is a great benefit especially in the field of retrofitting. Existing units can be converted easily to the new energy saving technology, thereby saving money.

## Energy saving bionic blade design for outstanding aerodynamic characteristics

FE2owlet fans offer a unique performance and excellent aerodynamic properties. The development of the innovative wing geometry was inspired by nature: owls served as a model for the aerodynamically optimised blade design.

The combination of FE2owlet fans and the latest ECQ motor technology provides many more advantages:

- Extremely low noise level
  - Reduction in operating costs
    - High-performance composite material for outstanding resistance to corrosion and a high level of durability
    - Exceptional quality and reliability
    - Economical use of natural resources



**Example:** ECQ fan with ECQ motor compared to traditional 254 mm fan with shaded pole motor at full time operation and € 0.15/KWh

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