

Movement by Perfection



The Royal League in **ventilation**, control and drive technology



## Retrofit saving potentials

In the short, medium and long-term

# Worthwhile investment through saving potentials in the short, medium and long-term

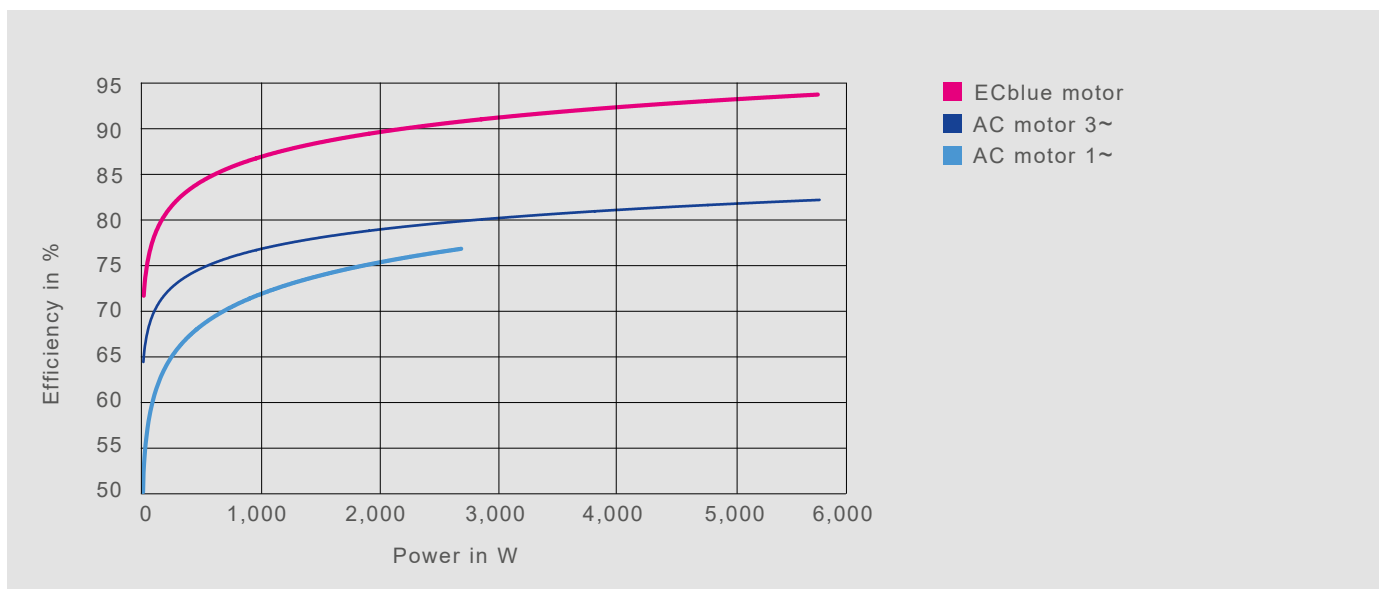
As agricultural costs rise and competition increases, yields fall. ZIEHL-ABEGG fans allow you to achieve saving potentials in the short, medium and long-term by converting old fans into new efficient systems.

- Permanent saving of running costs due to high overall efficiency
- Operation in partial load range with the aid of speed control (frequency inverter as a 1:1 replacement of existing voltage controllers or integrated with EC technology)
- Significant increase in efficiency through ECblue technology
- Efficient blades, also with sickle-shaped design and profiled blades, designed for low pressures
- Additional efficiency increase with ZAPLUS nozzle
- low maintenance in the long term: high corrosion protection, extensive laboratory and field tests, over 40 years of experience in agriculture

## Efficiency

The efficiency of a fan consists of motor, blade (aerodynamics) and electronics together. Especially in the drive area, a highly efficient motor can significantly increase overall efficiency. The ECblue external rotor motor is ideal here, being 15% more efficient over the typical power range.

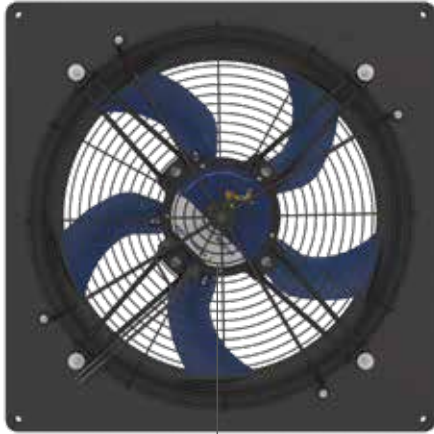
With the highly efficient ECblue drive, energy consumption and thus operating costs can be considerably reduced. The following chart shows the difference.



Motor efficiency depending on electrical power



## Selection from the range of fans for agriculture



Fully encapsulated IP55 ECblue motor with integrated controller



Robust die cast aluminium blade

Stack suspension



ZAplus fan for maximum efficiency

Size:	approx. 13,8" – 42,2"
Volume flow rate:	up to 31400 LFM
Pressure:	up to 450 Pa
Motor technology:	choice of efficient ECblue or successful AC technology
Installation location:	Stack, wall, ceiling, free-hanging
Supply voltage:	ECblue 1~ 200-277V, 3~ 380-480V; AC 1~ 230V; 3~ 400V; other voltages on request
Ambient temperature:	at least 104 °F up to 158°F possible
System components:	Guard grille, wall ring plate, guide vane, diffuser
Control technology:	Frequency inverters, air-con control modules, voltage controllers, motor protection devices, main switches, sensors

ZIEHL-ABEGG is the only fan manufacturer that develops processes for speed adjustment itself and produces the corresponding control units. These include voltage controllers, frequency inverters and EC controllers.

Durability, reliability, simple operation and energy efficiency are required for optimum interaction. This leads to individual solutions, which offer crucial benefits in special applications. The criteria associated with the relevant system are taken into account, thus producing the best result.



With ZIEHL-ABEGG control units, fans can be controlled as required

### Selection of products:

- Consultation: our large number of local partners will actively advise you in order to find the right system for your application. We put together a selection of regional partners.
- Savings: low operating costs thanks to high efficiency.
- ZAenergy saver: Our easy-to-use software showing the operating costs of the different control types.

# The Royal League

