



Movement by Perfection



The Royal League in ventilation, control and drive technology

# Information on the ErP Directive

What you should know

# The ErP Directive

## Important customer information from ZIEHL-ABEGG SE

### Goal of the ErP Directive

The goal of the ErP Directive (Energy-related Products Directive) is to protect the climate by increasing the overall share of renewable energy in the EU to 20% by **2020** and to increase energy efficiency by 20%.

### ErP Directive requirements for fans

The ErP implementing measure for fans defines the minimum efficiency requirements for fans with an output range of 125W to 500kW. When assessing whether a fan fulfils these requirements, the efficiency of the entire system is evaluated – this consists of the motor, transmission (e.g. belt drive) and impeller. The ErP Directive is being implemented in two stages: stage 1 in 2013 and stage 2 in 2015. The system efficiency requirements are the premise for the CE marking and therefore must be met for use in the EU member states. On the whole,



it is generally estimated that around 50% of fans currently on the market will no longer fulfil the requirements of ErP 2015 and will have to be replaced by more energy-efficient systems.

## Be prepared for anything with ZIEHL-ABEGG

Choose ZIEHL-ABEGG and face the future with confidence: ZIEHL-ABEGG also plays its pioneering role when it comes to the ErP, offering fans that already exceed the requirements of tomorrow!

### ZIEHL-ABEGG exceeds the minimum requirements

The majority of our products exceed the minimum efficiency requirements of the ErP. ZIEHL-ABEGG ensures that you play it safe when it comes to AC or EC technology: ZIEHL-ABEGG offers fans in the field of AC technology that easily meet the requirements of the ErP 2015, thus providing the ideal solution even in years to come. For example, if the restricted temperature range of the integrated EC fans is critical, an AC fan with external ZIEHL-ABEGG frequency inverter (e.g. Fcontrol) represents the intelligent alternative! ZIEHL-ABEGG also impresses with the latest generation of EC technology – “ECblue” is the highly efficient, innovative solution that already exceeds the ErP regulation requirements by some distance. The systems from ZIEHL-ABEGG already represent the fan technology of tomorrow.

### Energy efficiency

Energy efficiency + 20 %

### Greenhouse gas emissions

CO<sub>2</sub> emissions - 20 %

### Overall share of renewable energy

Renewable energy + 20 %

*EU 20-20-20 targets*





## Your most important questions – our answers

### What is the difference compared to the regulation for motors?

Since 16 June 2011, only fans with IE2 motors have been allowed on the market in the European Economic Area (EEA). This demand originates from the ErP Implementing Regulation No. 2009/640/EC, which only stipulates the efficiency of the electric motor. The difference with the ErP Implementing Regulation (EU) No. 327/2011 is that the efficiency of the entire, ready-to-use “fan” system, consisting of control electronics (if any), motor and impeller, is taken into account, regardless of whether the fan is used as an individual unit or as a component in a larger system.

### To whom does the Directive apply?

The Directive is mandatory in all EU countries. Manufacturers, system manufacturers and system operators are all affected by this regulation. The ErP regulation covers products produced in the EEA as well as imports from third countries. Products intended for export outside the EU do not fall under the regulation, however it is likely that other countries will also address this topic.

### Are there any exceptions?

Yes, some products are exempt e.g. ATEX fans, fans for short-term emergency use, fans for high temperatures or fans used in the transportation of people or carriage of goods.

### Will existing systems need to be converted?

No, the Directive does not dictate that existing systems need to be converted. The only fans affected are those that have been placed on the market in the EEA since 1 January 2013.

### What happens in the event of a replacement?

There is a transitional period for replacement fans. Devices placed on the market before 1 January 2013 may be replaced by identical devices until 31 December 2014, although these replacement fans will then need to be labelled accordingly. From 1 January 2015, any replacement devices placed on the market will have to comply with the ErP.

### When is a product considered to be placed on the market?

According to ErP Directive 2009/125, a product is placed on the market when it is made available on the market for the first time and is intended for use or resale.

### Who is responsible for the compliance of fans with the ErP regulation?

If the fan manufacturer or importer places a fan directly on the market then they are responsible for compliance. If the manufacturer of an energy-related device incorporates the fan into their device then they are responsible for compliance with the fan regulation. The principle applies that whoever places a fan on the market (as an individual component or incorporated into an energy-related device) is responsible for ensuring that it complies with Regulation 327/2011.

### Who is responsible if the impeller and motor are assembled separately?

If the motor and impeller are additional purchases, then whoever assembles these two parts is responsible for ensuring compliance with Regulation 327/2011. The assembler must issue the corresponding CE marking and manufacturer's declaration.

### What if an in-house nozzle or housing is used?

In the CE documentation, the fan manufacturer must specify which flow-conducting components (nozzle, housing, guide vane etc.) are used to determine the efficiency. If a component that is not included in this documentation is installed, the installer then becomes the fan manufacturer and must demonstrate that the new fan fulfils the minimum efficiency requirements.

### Which requirements apply to fans that are installed in other energy-related devices?

The fans must fulfil the minimum efficiency requirements for fans. The requirements for the devices themselves are set out in lot 6.

### What happens to a stockpile of fans?

Fans that were placed on the market and stocked within the EEA before 1 January 2013 do not need to be replaced and can be processed without time constraints. Fans that are in stock outside the EEA and are to be placed on the market through import into the EEA must fulfil the current requirements of the ErP Directive when they are placed on the market.

### How can I tell if a fan fulfils the requirements?

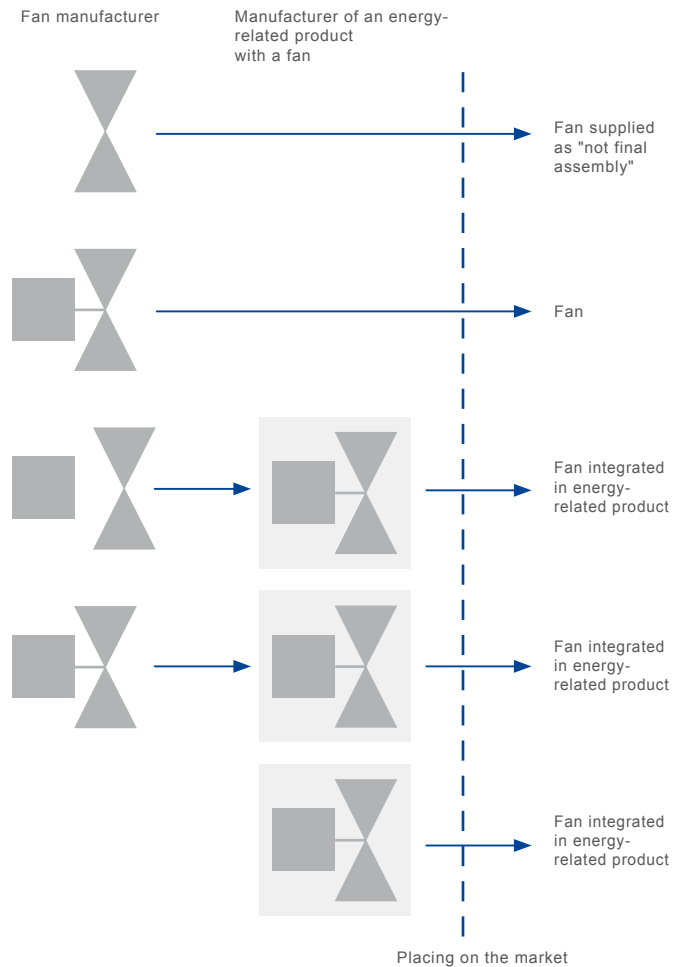
As of 2013, one way of recognising the products is through the CE symbol, which is only assigned to fans that fulfil the minimum requirements of the ErP. In addition to this, ErP-compliant fans from ZIEHL-ABEGG have an ErP rating plate containing all of the relevant information.

### Where can I obtain specific data about the fans?

Through personal consultation with our sales department. Our ZIEHL-ABEGG field representatives will be happy to help you.

### To whom should I direct questions?

You can find your competent contact's information at [www.ziehl-abegg.com](http://www.ziehl-abegg.com).



## Summary

The result of the ErP Directive is that both manufacturers and users of fans will have to review their products. In terms of efficiency and safety, ZIEHL-ABEGG fans already go well beyond the minimum requirements of tomorrow. Moreover, with their long service life and low life-cycle costs, ZIEHL-ABEGG products impress when it comes to ecology as well as economy and thereby justify their leading position on the market.

**ZIEHL-ABEGG – The Royal League when it comes to environmental awareness and cost effectiveness.**

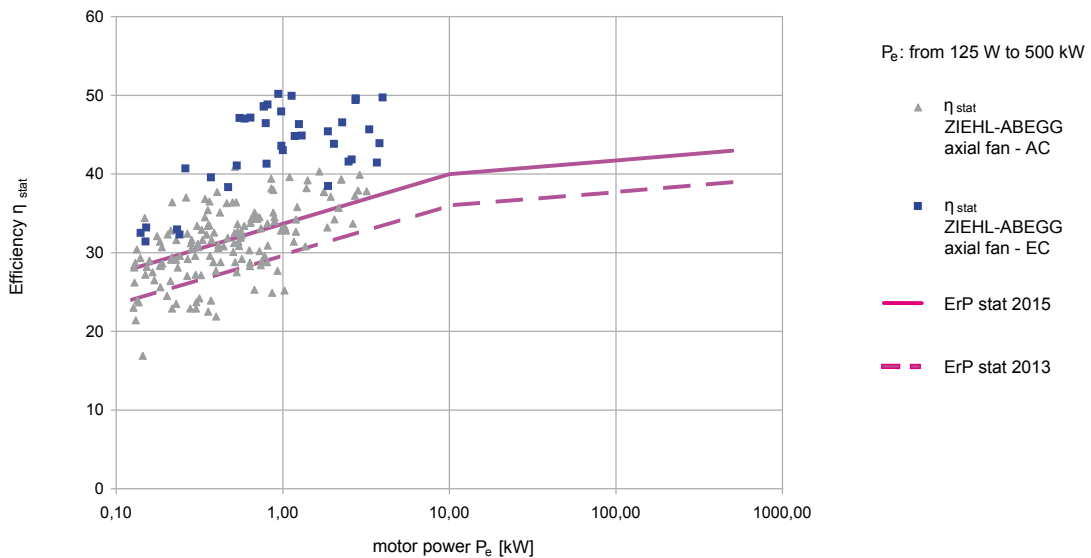


## Innovative products from ZIEHL-ABEGG significantly surpass the ErP 2015 requirements

### ErP implementation under control with ZIEHL-ABEGG

Low-noise, highly efficient fan systems for use in all areas – this is and always has been our strength. Our responsibility towards our environment involves having a detailed knowledge of the latest ErP Directives, implementing these in a practical

and sensible manner and supporting our customers with intelligent ideas and perfect solutions – whether with existing fan systems or by upgrading to new ones.



### Play it safe and ask us

If you are unsure about any aspects of the new directives, our experienced and competent team of experts can check reliably and swiftly whether your current fans satisfy the requirements of

the ErP. We will take care of this area and advise you of any necessary product changes or necessary measures.

**We look forward to hearing from you.**



# The Royal League



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