



Movement by Perfection



The Royal League in ventilation, control and drive technology

# ErP Directive

What you should know

**Information**

# The ErP Directive

## Important customer information from Ziehl-Abegg AG

### Purpose of the ErP Directive

The aim of the ErP Directive (Energy related Products Directive) is to protect the environment by increasing the total share of renewable energy in the EU to 20% by 2020 and by increasing energy efficiency by 20%.

### Requirements in the ErP Directive with regard to fans

The ErP implementation measure for fans defines the minimum efficiency for fans in the 125 Watt to 500 kW power range. When assessing if a fan meets the requirements, the efficiency of the entire system, comprising the motor, power train (e.g., belt drive) and the impeller, is evaluated.

The ErP Directive is being implemented in 2 steps: in 2013 Step 1, and in 2015 Step 2 become effective. The minimum efficiency requirement placed on the system efficiency is the prerequisite for a CE mark and is thus mandatory for utilisation in EU member



states. It is generally assumed that, seen in total, about 50% of fans in the market will not be compliant with 2015 ErP requirements and will have to be replaced with more energy efficient systems.

## With Ziehl-Abegg you are perfectly prepared

If you have decided in favour of Ziehl-Abegg, you can look to the future with complete confidence. As with all other issues, in the case of ErP, Ziehl-Abegg will do justice to its role as a trailblazer and is offering fans that already now exceed tomorrow's requirements!

### Ziehl-Abegg exceeds the minimum requirements

A large portion of our existing products exceed the minimum efficiency requirements of ErP. With Ziehl-Abegg you are on the safe side for both AC as well as EC technology: In the AC technology sector, Ziehl-Abegg already provides ErP 2015

compliant fans, making them the perfect solution for the future. For instance, in high temperature applications, where the use of EC fans is restricted, AC fans with an external Ziehl-Abegg frequency inverter (e.g. Fcontrol) is the intelligent alternative! Furthermore, Ziehl-Abegg inspires with the latest generation of EC technology, "ECblue" – the highly efficient, innovative solution, which greatly exceeds the ErP efficiency thresholds even today.

Ziehl-Abegg systems of today already provide the fan technology for tomorrow.

### Energy consumption



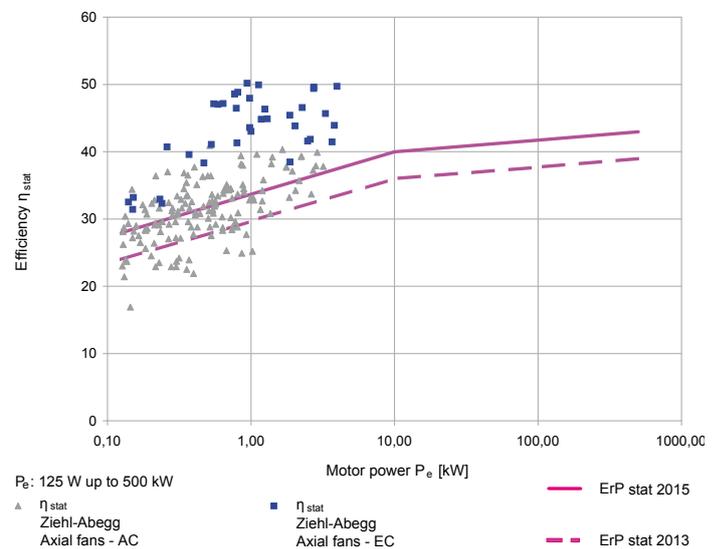
### Greenhouse gas emission



### Total share of renewable energy



EU 20-20-20 targets





### Together with Ziehl-Abegg: ErP implementation securely under control

Low-noise and highly efficient fan systems in all application areas are and always have been our strength. Our responsibility for our environment also includes having detailed knowledge of the latest ErP Directives, their practical implications, and supporting our customers with intelligent ideas; perfect solutions in existing fan systems and equipping new plants.

#### Play it safe: ask us

In the confusion of the new requirements, our experienced, competent team of experts quickly and reliably check the status of your current fans, to see if they meet the ErP requirements. We take care of this area and are glad to advise you about the possible necessity for product replacements or required measures. **We look forward to your call.**

#### Your most important questions - our answers

##### Does an existing system have to be retrofitted?

The directive does not require replacement of systems put into operation before the ErP start date. There is a period of transition for replacement fans, meaning, non-compliant fans may be installed as retrofits up to 31/12/2014: Starting 01/01/2015 however, these also have to comply with the ErP requirements.

##### Are fans going to become more expensive?

No, the fans which already meet the requirements will not become more expensive. Although new technologies usually also include more complex components and more development costs, they refinance themselves quickly through higher energy efficiency. That means in the final analysis, a win-win situation evolves for everyone: Energy efficiency saves money and is eco friendly.

##### Are motors also going to fall under the directive?

Yes! The directive affects all products that consume energy in any form. Decree No. 640/2009 sets minimum efficiency requirements for electric motors. Starting 16/06/2011, motors according to ISO 60034 must achieve the criteria of "Efficiency Class IE2".

##### Are there any exceptions?

Yes. Products used in the Ex-area, and fans for high temperatures or those used in transportation applications, meaning the carriage of people or goods, are all excepted.

##### What does the directive mean with regard to Ziehl-Abegg AC fans?

More than 50% of our AC products will comply perfectly with the 2015 ErP Directive requirements when used with matched intelligent Ziehl-Abegg technology.

##### How can you tell if a fan complies with the requirements?

Starting 2013, respectively 2015, you can tell by the CE mark, which will only be awarded to fans that meet the ErP Directive.

##### Where can the exact data on the fans be obtained?

Through the personal advice provided by our sales staff. Our Ziehl-Abegg field service representatives are ready to assist you.

##### Does the directive apply globally?

The ErP Directive is limited to the EU member states. However, importers in these countries are also required to meet the requirements.

##### Who can be contacted if there are any questions?

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

#### To sum up

The consequence of the ErP Directive is that manufacturers and users of fans will have to review their product range. Ziehl-Abegg fans, as far as efficiency and safety are concerned, already now vastly exceed the minimum requirements of tomorrow. Furthermore, products from Ziehl-Abegg products impress with their long service lives, low life-cycle costs as well as their ecological and economical credentials, justifying their leading position in the market. Ziehl-Abegg – Eco-friendly and Economical - The Royal League.

# The Royal League

