



## ErP Directive demands high minimum efficiency ratings for fans

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### Minimum efficiency ratings for fans in the EU

By adopting the Kyoto Protocol, the European Union has undertaken to reduce CO<sub>2</sub> emissions by at least 20 percent by 2020. To achieve this climate goal, the EU adopted the EuP Directive (Energy-using Products Directive) in 2005. Renamed as the ErP Directive (Energy-related Products Directive) in 2009, it will help with studying the savings potential of numerous energy-related products and stipulating minimum requirements. Limits for fans were defined in June 2010 and are mandatory now.

### Which fans are affected?

Fans of all types (axial fans, centrifugal fans with forward or backward curved blades, cross-flow and diagonal fans) between 0.125 kW and 500 kW electrical power input are affected. This applies to fans that are operated as "stand-alone" devices and those which run as components integrated in a device or system.

### From what point on is the directive binding?

1st stage starts January 2013

2nd stage starts January 2015

### How will it be implemented?

The EU defines the minimum efficiency levels in the ErP implementation regulation for fans. These are defined at best operating point based on electrical power input. To decide whether a fan satisfies the ErP Directive, the efficiency of the complete fan is assessed, i.e. the unit of control electronics (if fitted), motor and fan impeller.

### To which countries does the directive apply?

The directive will be mandatory for all 27 EU countries. The directive applies to all fans sold or imported in Europe as well as those integrated as components of other devices that are imported into Europe.

### Why has this law come into being?

With the aim of reducing CO<sub>2</sub> emissions considerably!



## The future belongs to GreenTech EC technology

In light of these facts, the innovative GreenTech EC technology developed by ebm-papst for fans with an electric drive exhibit all their strengths. Compared to fans with AC motors, GreenTech EC motors from ebm-papst attain an efficiency of over 90 percent. This enables achievement of significant energy savings compared to conventional AC solutions. In addition, GreenTech EC fans have a controllable speed, so it is possible to adapt the air volume to the respective requirements. The positive consequence is even more substantial energy savings. Thanks to the perfect interaction of motor, electronics and aerodynamics, the ebm-papst GreenTech EC fans not only make an impression by their energy efficiency, but also operate extremely quietly due to the optimised commutation technique and the aerodynamic design of the impellers. And if that's not enough, their other benefits include their reliability and durability.

### About ebm-papst

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