ECOFIT

ECOFIT & ETRI® PRODUCTS

100% ErP ready according to ecodesign ventilation directive

The ErP Directive

That´s what you should know and consider in future

HISTORY

The European Union has defined the 20-20-20 target, with the aim to reduce energy consumption by 20%, reduce carbon emissions by 20% and increase the share of renewable energies by 20%, by 2020.

The ErP directive (Energy Related Products – 2009/125/EC) has replaced the EuP directive 2005/32/EC. The Commission Regulation (UE) Nr 327/2011 implement requirements for fans driven by motors with an electric input power between 125 W and 500 kW.

REGULATION

The commission Regulation (UE) 327/2011 defines 2 stages : An "N" overall energy efficiency grade is attributed to each fan type. The first efficiency target is set for the 1st January 2013, followed by a stricter stage set for the 1st January 2015. The energy efficiency grade "N" allows to calculate the energy efficiency target, and therefore to check the fan compliancy to ErP.

The energy efficiency target is calculated according to instructions from the 327/2011 regulation, which defines tests conditions & requirements.

All fans with input power at the best efficiency point being 125Wa and above are subject to the regulation, up to 500kW.

The compliancy to the energy efficiency target will be the condition for the fan CE marking, allowing operation within the EU.

ErP at ECOFIT

70% of the Ecofit range conforms to ErP, partly because the input power at the highest efficiency point is below 125Wa, or because the efficiency target is reached for 2013 and/or 2015 requirements.

Ecofit R&D has been pro-active working on both motors and impellers for non-ErP references, in order to achieve the 2013/2015 requirements. If the development work is not sufficient to achieve the targets, Ecofit offers an extensive range of EC solutions.

NOTE

EC fan motors are sometimes the only solution for ErP compliancy. However, the solution brings many more advantages : In most cases, the energy efficiency target is comfortably achieved. In comparison with AC motors, EC solutions offers considerable gains in efficiency at medium speeds and **up to 70%** at low speeds! These savings in energy consumption compensate largely the difference in cost between EC and AC fans.

You will find further information on our EC standard fans in our brochure "**EC FANS powered by G9 and V8 motors**": you will be able to find the pdf version on **www.ecofit.com, News section** for download.

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Frequently Asked Questions

ECOFIT & ETRI PRODUCTS

When is ErP implemented ?

The first stage is applicable from the **1st January 2013**
The second stage is applicable from the 1st of January 2015.

Are there exceptions?

Yes, some fan types are excluded

- Fans which have their maximum efficiency operating point at less than 125Watts or above 500kW
- Fans for tumble dryers up to 3kW
- Fans for cooker hoods with power up to 280Watts
- Fans for railway technology or other mobile application
- Fans for Explosive atmospheres (ATEX)
- Fans for emergency extraction situations
- Fans for temperature handling above 100°C and below -40°C
- Fans with motor outside the airstream operating at temperature above 65°C or below -40°C.
- Fans used in toxic, highly corrosive or flammable environments, or handling abrasive substances.
- Fans with energy efficiency point obtained above 8000rpm.

How are ErP fans identified ?

From the 1st January 2013, only the ErP compliant fans will have a CE mark. From this date, there are 3 possibilities :

- Fans which have their maximum efficiency operating point at less than 125Watts will have a **CE** marking for supply within the EU. The ErP status on Ecofit technical and commercial documents is classed as "**NA**" (Non applicable).
- ErP conforming fans which have their maximum efficiency operating point at more than 125Watts will have a CE marking for supply within the EU. The ErP status on Ecofit technical and commercial documents is classed as "**OK**", the **"ErP ready"** logo is also shown on all technical and commercial documents.
- Non-conforming fans are without CE marking and can only be supplied outside the EU. The ErP status is shown as "**NOK**"

The 2012 catalogue and documents available on www.ecofit.com now specify the Erp 2013 & 2015 status for each product reference.

Please contact ECOFIT or your usual distributor for the References not listed on the catalogue or the website.

Do existing products need replacing?

No, existing product don't need replacing. Only the fans sold within the EU from the 1st January 2013 need to be.

What happens for replacement and spare parts :

A transition period is allowed to replace non ERP compliant products which fail in operation. The new product needs to clearly labelled as replacement use only.

What happens with stock after 1st January 2013 :

Customers can use a fan which has been manufactured before the 01/01/2013 if it is already in stock before that date.
Customers can purchase fans from the local distributor if these were manufactured and sourced before the directive application date.

Is Erp applied internationally ?

The ErP directive applies to fans manufactured or imported, for operation in the EU. The Directive does not apply to export outside the EU.

Will fans become more expensive due to the new directive ?

Prices on already ErP Conforming fans have not changed. Non complying fans being modified may be more expensive as the result, but this will compensated by the lower energy consumption and increased overall efficiency of the product. The fan user will benefit from the reduction of operating cost of the product and the environment will benefit from a reduction of greenhouse gases.

As a customer, what are the benefits of ErP?

The introduction of the ErP Directive will effectively stop the usage of high energy-consuming fans. Only Energy efficient fans will be allowed to be used within the EU. ErP conforming fan solutions can save up to 70% energy savings, depending on applications. ECOFIT EC solutions can offer such savings, please contact ECOFIT for details.

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