

## Frequently Asked Questions (FAQ)

Eco-Design Directives of fans:  
ErP Directives

**1. What is the reason of setting up Directives concerning Eco-design?**

The main goal of these directives of the European Community is reducing energy consumption. In order to realize this, there have been set Directives concerning the eco-design of amongst others motors and fans.

**2. Which Directives are applicable for fans?**

On 11th of June 2010 the fan directives in the European Parliament were validated. In general terms, the directives are known as ErP Directives.

**3. For which fans is this directive valid?**

This Directive defines the eco-design for fans driven by motors with the following characteristics:

- An electrical power input between 125 W and 500 kW.

**4. When will the Fan Directive be active?**

The first phase will be implemented from 1st of January 2013; the second phase, with higher efficiency goals, will be valid as from 1st of January 2015.

**5. What do the efficiency requirements concerning fans include for complying the first phase?**

The minimum efficiency is defined per fan type, measuring system and the energy consumption.

**6. Is it required for fans of Vostermans Ventilation to comply to the Directive?**

Yes, almost all fans being produced by Vostermans Ventilation have to comply.

**7. Do the fans of Vostermans Ventilation already meet the requirements?**

A great number of fans from Vostermans Ventilation already meet the requirements of the Directive. Because the development of fans has always been focused on the optimal motor-impeller combination, most of the fans already meet the strict requirements valid as from 1st of January 2015.

**8. Which price adaptations do both Directives have on prices of motors and fans?**

The efforts of Vostermans Ventilation are focused on reducing cost-price increases to a minimum.

**9. How can you tell if a fan complies with the requirements?**

By the CE-mark. Only fans which meet these requirements are allowed to use this CE-mark. Besides this, the total efficiency has to be mentioned on the product label and as an appendix in the manual.

**10. Are the Directives also valid for export to countries outside the European Community?**

No, the Directives are only valid for countries within the European Community. However, non-EC countries already have set own rules or planning to set these in the near future concerning motor and fan efficiency.

**11. Are the Directives also valid for importing fans from countries outside the European Community?**

Yes, these Directives are also valid for imported fans.

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ENERGY SAVING VENTILATION SOLUTIONS FOR AGRICULTURAL AND INDUSTRIAL APPLICATIONS



(Subject to alterations)



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SHAPING THE FUTURE

**Where does Multifan stand for?**

Vostermans Ventilation develops and produces complete Multifan fans (motor-impeller combinations) since several decades. The fans are developed in such way that they function optimally in and for a special application.

Multifan stands for:

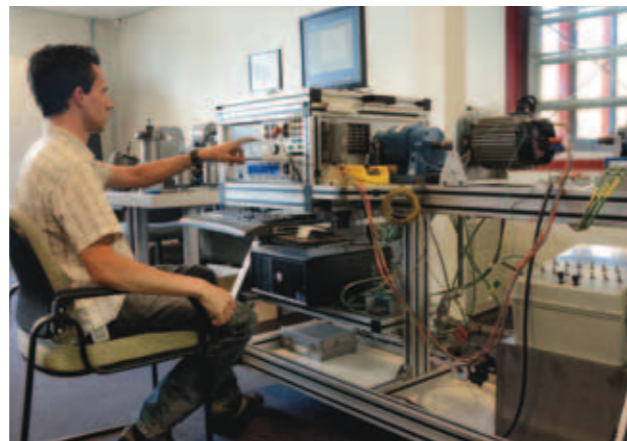
- Durability
- Reliability
- Flexibility
- Controllability
- Quality

Vostermans Ventilation has its own R&D factory with the following characteristics:

- Technological state-of-the art windtunnel
- Modern measuring and controlling systems
- Measurements take place on the fan or on the fan application
- High accuracy
- Experienced and highly skilled R&D team



State-of-the art windtunnel



Modern measuring and controlling systems

**LESS ENERGY CONSUMPTION** **-20%**

**LESS CO<sub>2</sub> EMISSION** **-20%**

**MORE ENERGY RECUPERATION** **+20%**

Saving energy is one of the most important characteristics on which fans are developed and tested since decades. Parameters from motor and impellers, which are used with the developments regarding energy saving, are:

- Material choice
- Windings
- Concept
- Tolerances
- Tip clearance
- Aerodynamics

Besides the possibilities of the fan itself, it is important for Vostermans Ventilation that the product functions optimally according customer specific requirements. The company offers custom based solutions for a wide range of industrial and agricultural applications. Another advantage of the ventilation solutions Multifan fans offer, is the controllability of the fans. Because of the wide range of applications, the fans offer a standard controllability for most applications.

**Why a Multifan Energy Line?**

There is a strong demand for energy savings solutions, also caused by increasing energy costs. Besides that, the European Union (and also countries outside the EU) sets more and more regulations regarding energy saving solutions. As from 1st of January 2013, the so-called Erp Directive (Energy related Products) will be valid, in which efficiency requirements are set, for amongst others fans.

Recently, further improvements are made to the fan efficiency of the Multifan concept:

- Further improvement of motors and impellers and especially motor-impeller combinations.
- The periphery of the fans plays a vital role for fan efficiency. The company invested to achieve an optimal result in this area.
- The company offers a wide range of control options such as (amongst others intelligent) fan drives for Multifan fans.

**What regulations do the fans have to meet?**

*Directive EC 327/2011 (Ecodesign of fans)*

This Directive concerns the ecodesign of fans. Almost all fans being produced by Vostermans Ventilation meet this Directive. In order to meet this Directive, Vostermans Ventilation offers correct solutions in its program. This regulation includes the ecodesign of fans, driven by motors with the following characteristics:

- An electrical input power between 125 W and 500 kW
- Further requirements can be found in the FAQ

The first phase will be active as from 1st of January 2013; the second phase, with higher efficiency goals, will be valid as from 1st of January 2015.

Because of the wide range of available fans, your specific questions can be answered by our sales team. They are pleased to help you answering your questions.



Overview Multifan fans