

# Frequently Asked Questions

## Eco-Design Directives of fans: ErP Directives

### 1. What is the reason of setting up Directives concerning Ecodesign?

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 ecodesign of motors and fans amongst others.

### 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 ecodesign 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 valid?

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 of 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 for motor and fan efficiency.

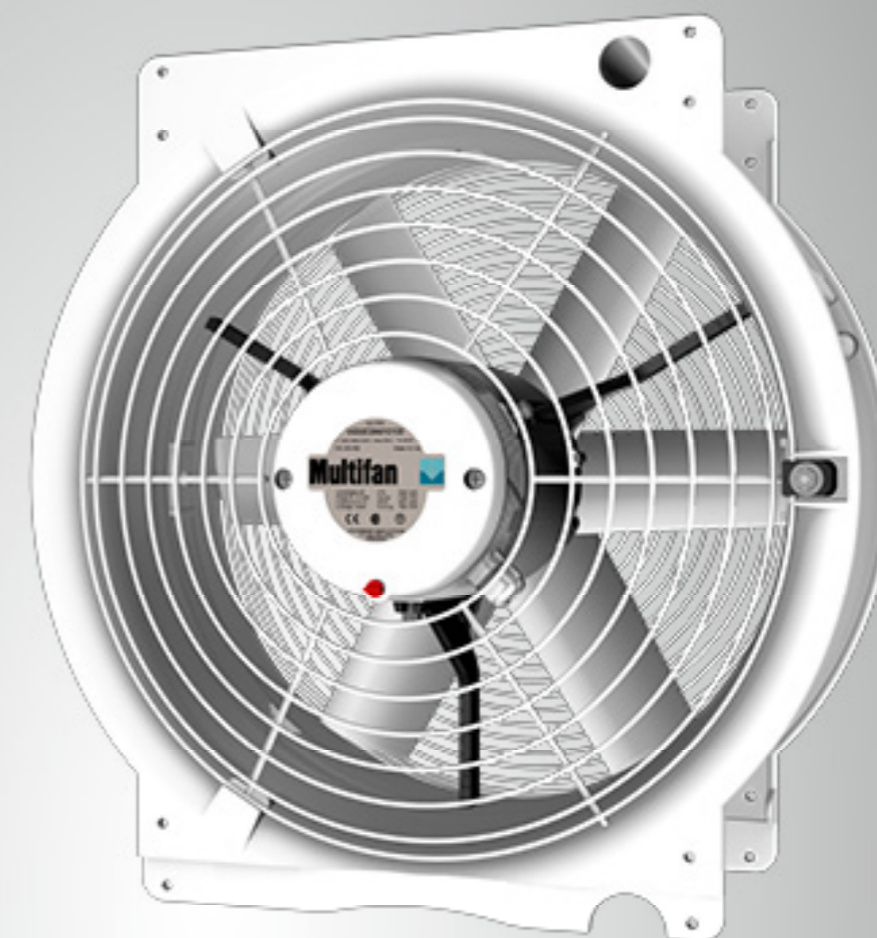
### 11. Are the Directives also valid for importing fans from countries outside the European Community?

Yes, these Directives are also valid for imported fans.

## Recirculation fans

@energyline

ENERGY SAVING VENTILATION SOLUTIONS FOR AGRICULTURAL AND INDUSTRIAL APPLICATIONS



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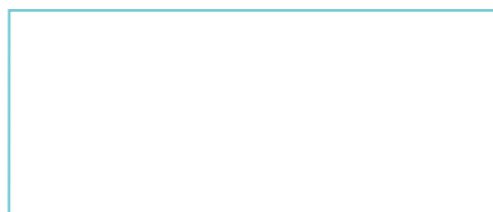
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Vostermans Ventilation B.V. develops, manufactures and distributes the full line of:

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Subject to alterations 03/2015

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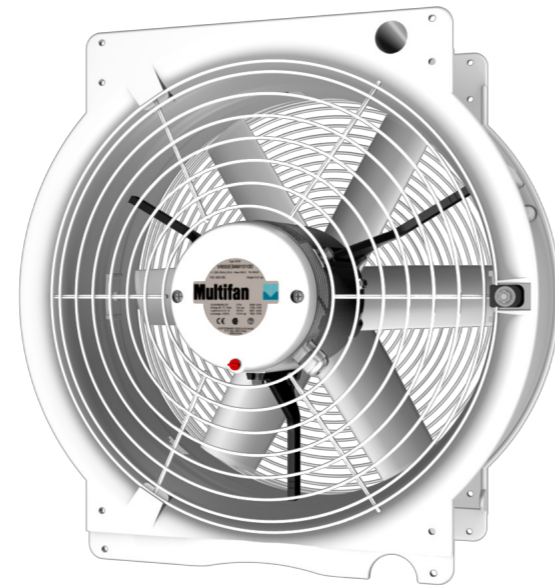


## Recirculation fans

In order to be able to realize an aerodynamic airflow, Vostermans Ventilation developed recirculation fans with a wide inlet radius. These fans have a very efficient performance and high throw. Recirculation fans are resistant against severe climatological conditions, such as high temperatures. Because of the reflecting white colour, recirculation fans are well suited to use in greenhouses for serial- or parallel ventilation systems. Also for poultry houses, dairy houses, small industrial halls or rooms recirculation fans are well suited.

### Facts

- Perfect air distribution by inverse air stream impeller -> motor
- Perfect air distribution by a large aerodynamic inlet radius
- Compact aerodynamic tube with tube fan
- High insulation class F / IP55
- Tube suitable for suspension with profiles or chains
- Double wire guard in accordance with CE-standards
- Complete white execution



### Advantages

- Suitable for serie ventilation systems, parallel ventilation and recirculation systems
- Excellently controllable (transformer/electronic) and energy-saving
- Built-in thermal protection (for single phase)
- Easy to mount/remove wire guards
- Easy to maintain motor/impeller construction
- 3 years warranty on all fans

### Options

- 60 Hz motors
- Three phase motors suitable for frequency control
- Cable + Plug (5 meters) for 230 V
- 3 step controller on the back of the motor for 230 V

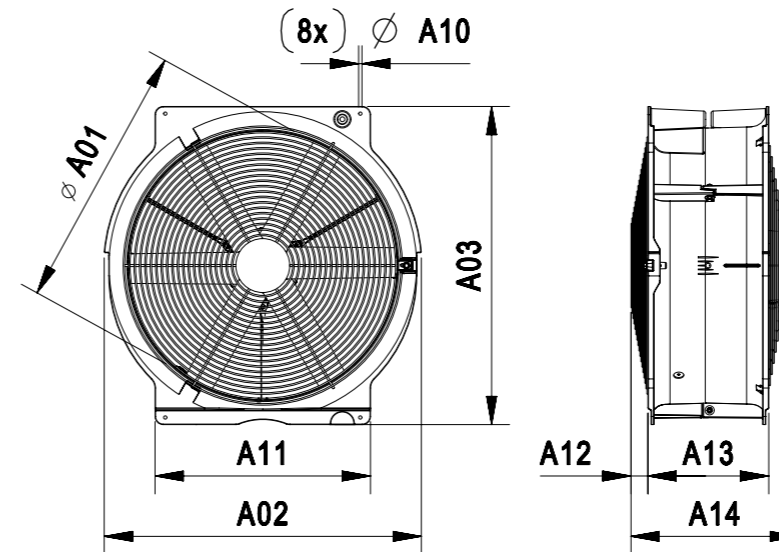


### Technical data

	Ø (mm)	RPM	Item	Type	P <sub>in</sub> (W)	SFP at 0 Pa (W/1000 m³/h)	I <sub>1</sub>	I <sub>2</sub>	I <sub>1 max</sub>	I <sub>2 max</sub>	Q <sub>v</sub> (m³/h)				Controllability*	L <sub>wa</sub> ** dB(A)	Throw**
							(A)	(A)	(A)	(A)	0 Pa	30 Pa	50 Pa	80 Pa			
1 ~230/400V 50 Hz	420	1400	T4E40A3M80100	TB4E40Q-4PP-30Q	150	34,9	0,9	-	0,9	-	4.300	3.700	3.250	-	E/T	45	45
	420	1350	T4E40A0M80100	TB4E40Q	250	48,1	1,2	-	1,3	-	5.200	4.650	4.200	3.050	E/T	50	47
	518	1400	T4E50A0M80100	TB4E50Q	420	49,1	1,7	-	1,9	-	8.500	7.750	7.150	5.900	E/T	55	58
3 ~230/400V 50 Hz	420	1350	T4D40A0M80100	TB4D40Q	240	45,3	1,0	0,6	1,1	0,6	5.300	4.750	4.300	3.350	T	50	47
	518	1400	T4D50A1M80100	TB4D50Q	410	48,0	1,9	1,1	2,0	1,1	8.550	7.800	7.300	5.900	T	55	58

Data according ErP (Energy related Products)-directives (EU Commission Regulation 327/2011). Measurements without wireguard.  
 \* Controllable Electronically (E), by Transformer (T) or by Frequency (F).  
 \*\* Sound pressure level measured at 7 m. free blowing distance.  
 \*\*\* Throw is the distance at which the peak velocity has fallen to 0,5 m/s (measured in an infinite room without obstructions).

### Dimensions



Ø mm	Dimensions (mm)							
	A01	A02	A03	A10	A11	A12	A13	A14
420	420	515	520	6,5	365	26	216	309
518	518	620	620	6,5	420	33	236	327

### Packaging dimensions

Item	Weight (kg)	Packaging dimensions (mm)
T4E40A3M80100	13,0	530 x 530 x 345
T4E40A0M80100	10,8	530 x 530 x 345
T4E50A0M80100	13,4	635 x 635 x 360
T4D40A0M80100	10,6	530 x 530 x 345
T4D50A1M80100	13,4	635 x 635 x 360