

**NEW**

## EC-Fan technology



### Highly efficient centrifugal fans for energy-saving plant operation

#### Advantages

- » Reduction of noise emission
- » Lower power consumption compared to AC fans
- » Highest energy saving potential
- » Intelligent communication
- » No requirement for an additional/cost-intensive frequency inverters thanks to integrated power electronics

The EC fans installed in the ESTA extraction units ensure highly efficient plant operation. Thanks to the EC technology, the energy supply of the EC motors is exactly adapted to the desired rotary movement of the fan.

The installed EC motors comply with the energy efficiency guidelines of the EU. They exceed the minimum efficiencies required for the IE4 (Supreme Premium Efficiency) class.

The EC motors have integrated MODBUS communication. This enables optional predictive maintenance of our extraction systems. This way faults are detected at an early stage and potential failures of the systems can be prevented.

In combination with a high performance radial impeller, the motors have a particularly low noise level, minimum power consumption and highest system efficiency.

### Special features of the EC fans

- » Integrated power electronics for efficient speed control of the engine
- » Highest efficiencies
- » A motor for almost all applications

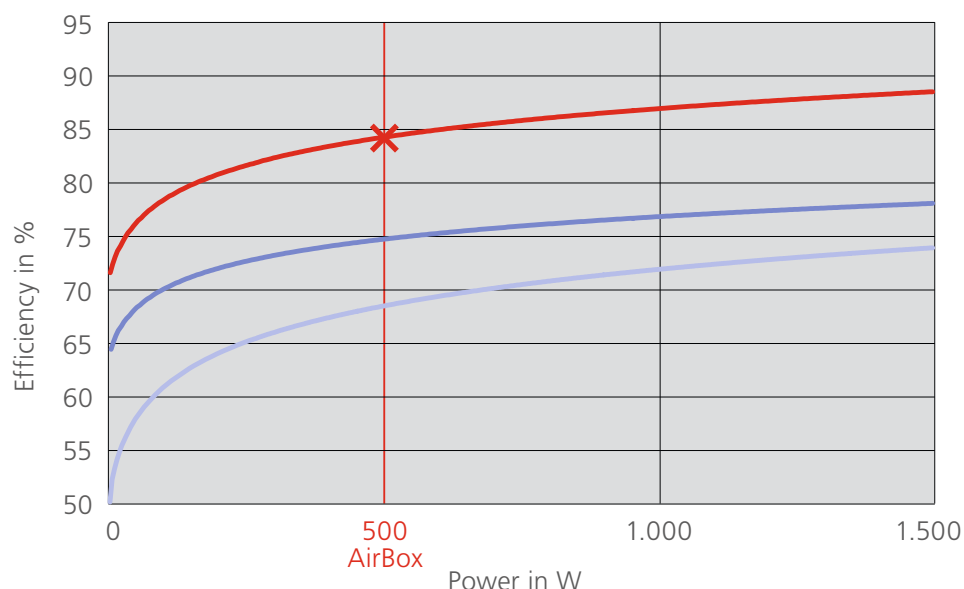
### Special features of the centrifugal fans

- » Significant weight reduction, thus protecting the engine mounts and increasing system service life
- » Significant increase in impeller efficiency, thereby reducing power consumption

### Technical data

EC-ventilators		
Nominal voltage	VAC	230
Frequency	Hz	50/60
Speed	min <sup>-1</sup>	4300
Power consumption	W	510
Pressure increase	Pa	1278
Weight	kg	2,7
Protection Class		IP54
Overall efficiency	Is	74,1 (Default 2015: 47)

### Comparison Efficiency (AIRBOX)



- EC Motor
- AC Motor 3~
- AC Motor 1~



**ESTA Apparatebau GmbH & Co. KG**  
 Gotenstraße 2–6 · 89250 Senden/GERMANY  
 Phone +49 (0) 7307 3409680-0  
 Fax +49 (0) 7307 804-500  
 E-Mail [export@esta.com](mailto:export@esta.com)

## ESTA Extraction Technology

For over 45 years ESTA extraction technology has offered solutions for a multitude of industries and trades. From stand-alone units for the most diverse applications to complex extraction systems – we consistently ensure a clean working environment. ESTA equipment not only protects your high-tech machinery investments but also creates the prerequisites for highly efficient and quality oriented work results.

Contact us and request our complete catalogue free of charge.

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