

# Maximize Efficiency with Cofimco EC Fans



EC Fans

# Redefining excellence in airflow solutions



With over 50 years of experience in the field of Axial Fans for advanced cooling systems and large airflow management solutions, Cofimco has leveraged its extensive knowledge to develop a dedicated line of EC Fans.

This product range incorporates decades of expertise in airflow dynamics and cooling efficiency, delivering cutting-edge solutions that set new standards in energy efficiency and sustainability.

## Why our EC Fans stand out



**Maximum Efficiency = Maximum Energy Savings**

High-efficiency EC motors, aerodynamic blades, and variable speed control work together to optimize airflow, cutting energy consumption and reducing operating expenses. More efficiency means more savings.



**Built to Last**

Engineered for durability with robust components, our EC Fans deliver long-term performance, lower operational costs, and faster ROI.



**Smart, Compact Design**

Rugged yet space-saving, our fans excel in HVAC, industrial, and data center applications.



**Sustainable by Design**

Optimized for airflow with minimal environmental impact, supporting your sustainability goals.

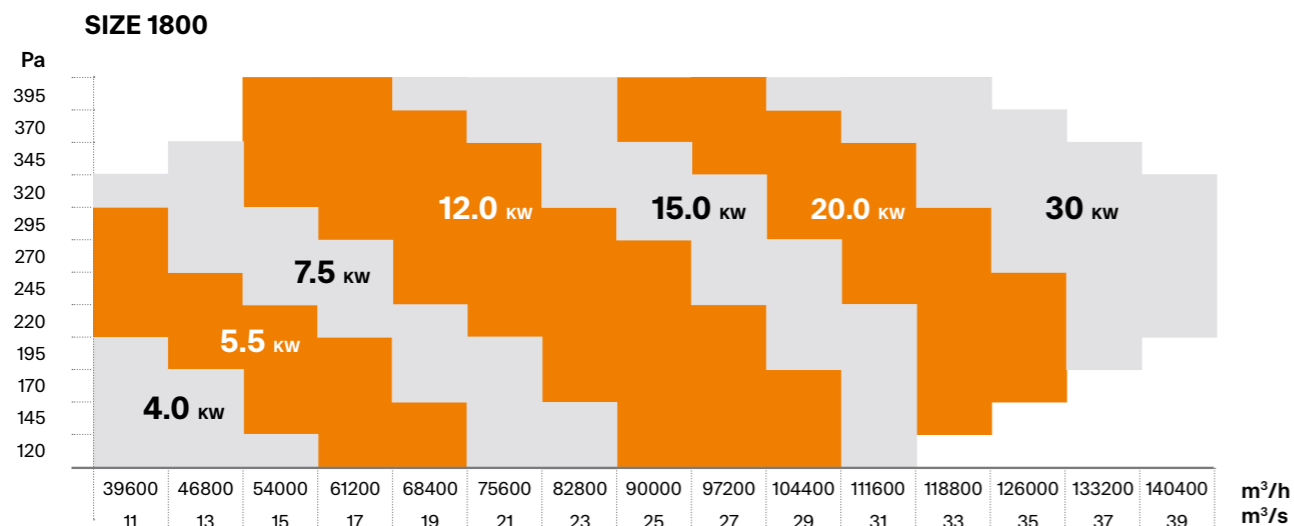
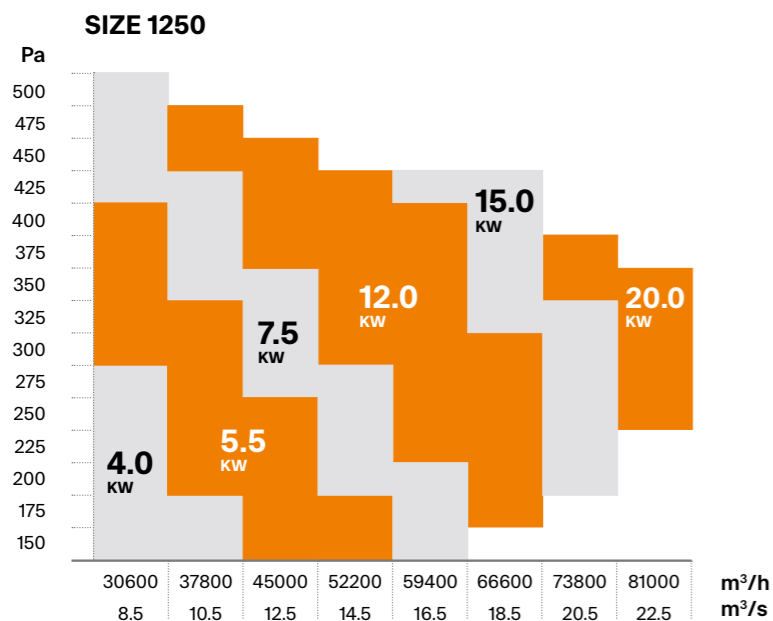


**Tailored to Your Needs**

From industrial processes to extreme conditions, we customize solutions to match your exact requirements.

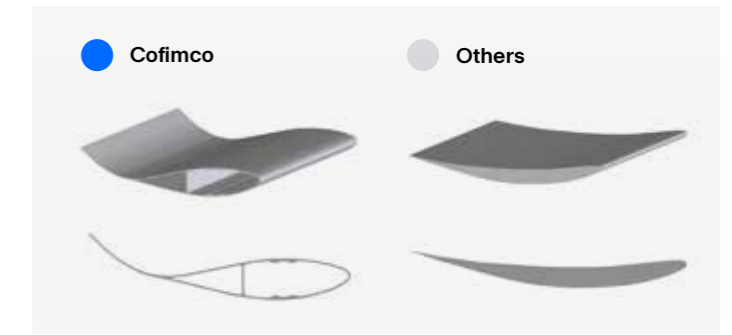
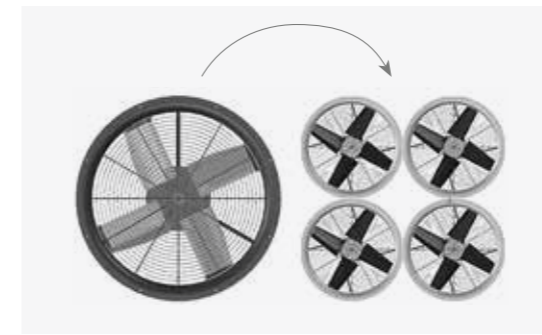
## Performance Chart – Power Map (kW) at 65 m/s Tip Speed

- **High-Efficiency, Variable-Speed EC Fans** for optimized performance and energy savings
- **Available Sizes:** 1250 mm to 1800 mm
- **Precision Engineering:** 3- and 4-blade configurations with extruded aluminum airfoils
- **Superior Balance:** ISO 21940 Grade 6.3 for minimal vibration and maximum reliability
- **Flexible Configurations:** Fixed or adjustable-pitch options to meet specific airflow needs



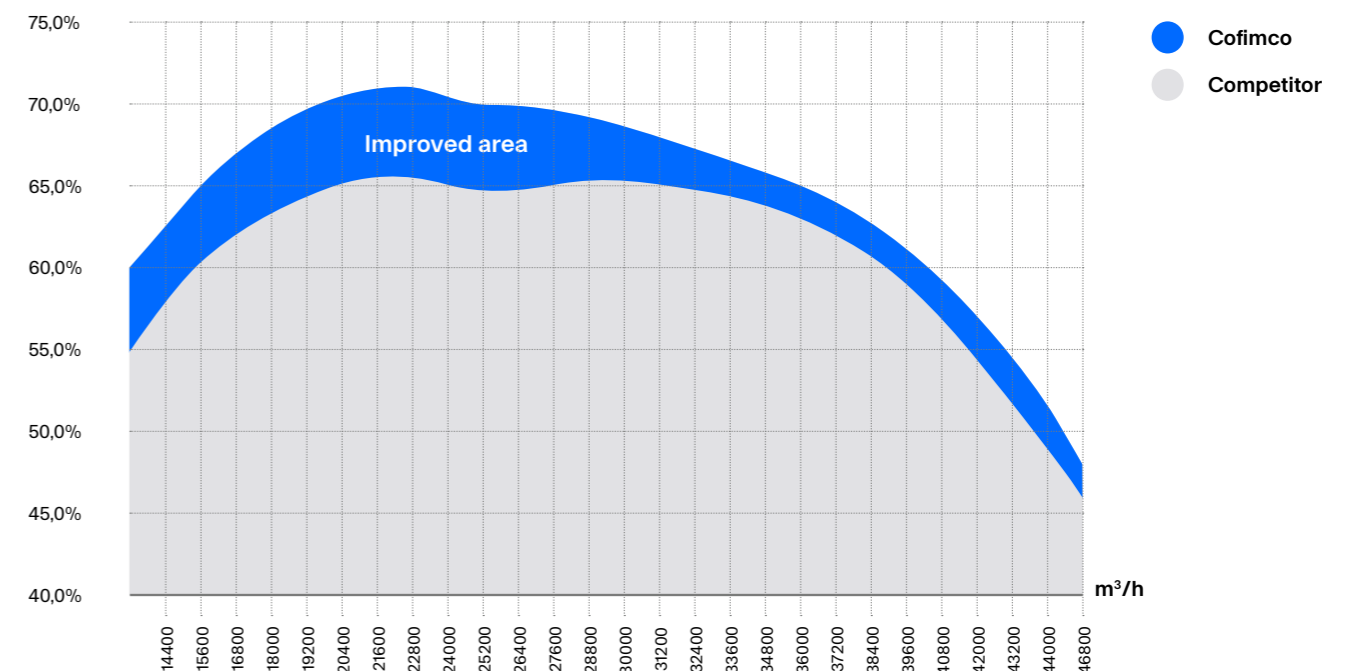
## Large Scale and Aerofoil Blades

- Large-Scale advantage with One large fan replacing Four smaller ones, reducing energy consumption and operating costs.
- The extrusion technology enables the optimization of blade shapes, achieving exceptional levels of performance.
- NACA-shaped airfoils guarantee stall-free operation and high efficiency in a wide range of duty points.



## Static efficiency chart

- Unmatched Efficiency: Outperforms top competitors in efficiency benchmarks.
- Size 1250: Impeller Static Efficiency at 840 RPM, demonstrating exceptional energy performance.



Available configuration

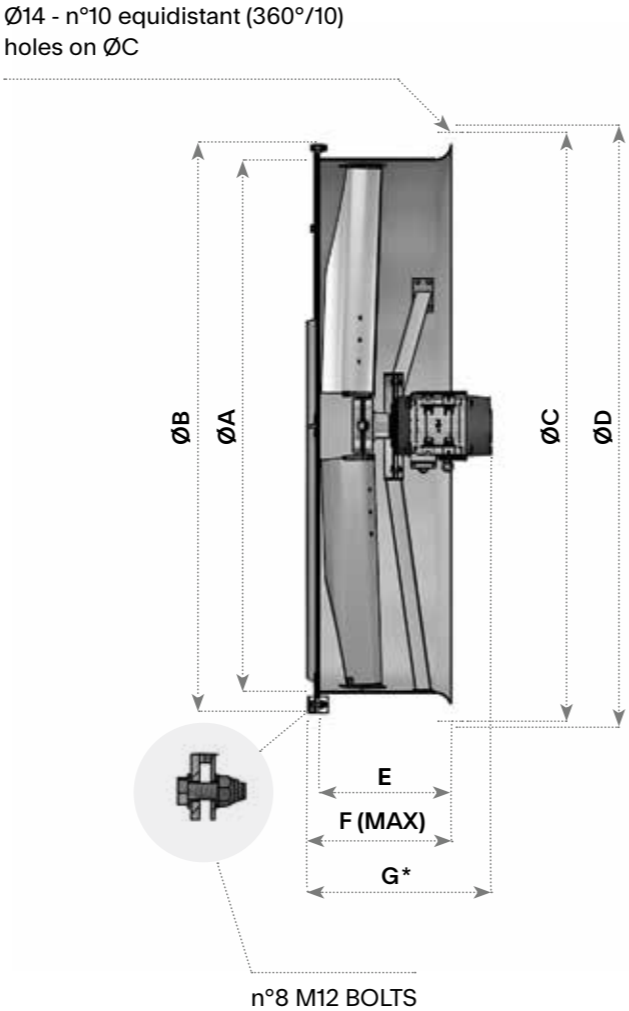
- Inlet bellmouth
- Inlet/outlet flanges (customizes sizes available)
- Safety grid on impeller side or motor side
- Painted or HDG Fan stack and structure

Dimensions

Dimensions and weight can change depending on motor size and brand.

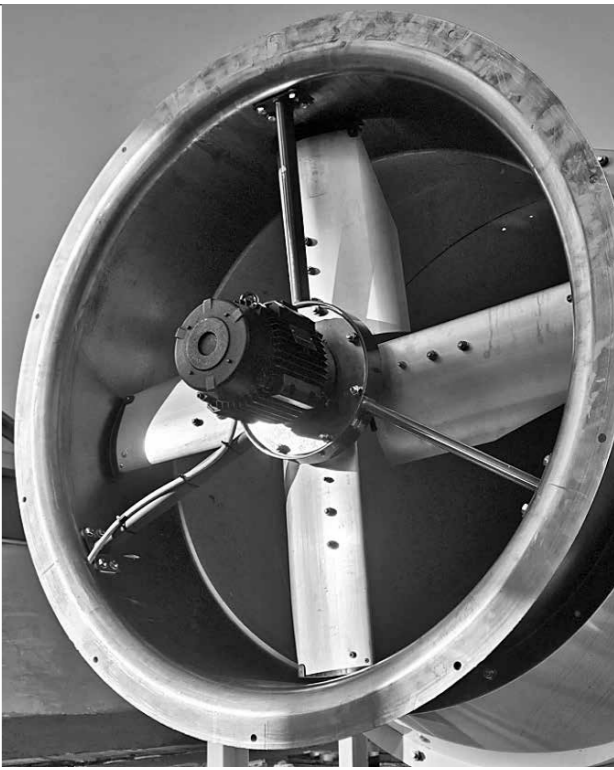
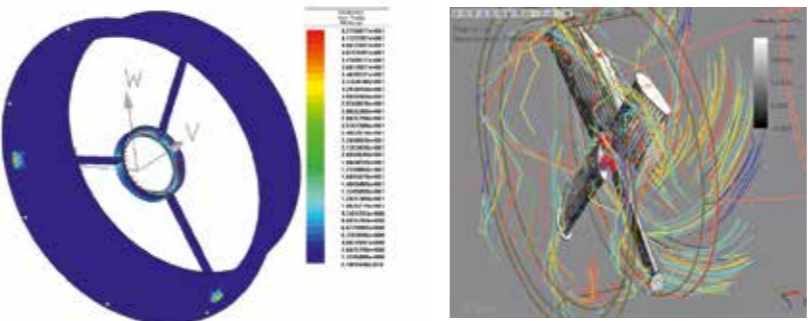
Dimensions table (mm)

Unit Size	ØA	ØB	ØC	ØD	E	F	G	Weight
1250	1250	1370	1436	1476	433	520	630,5	145 kg
1800	1800	1915	1981	2021	433	520	587	180 kg



R&D

- Full-scale test rig and CFD analysis for performance & noise
- FEA and Test rig measurements for Vibration, Natural frequencies & Stress



Fields of operation

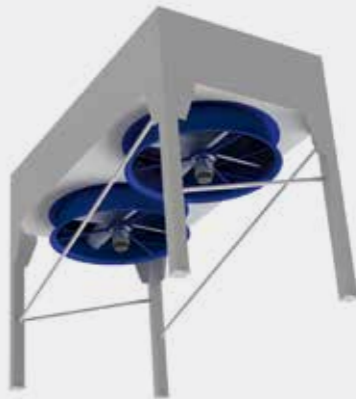
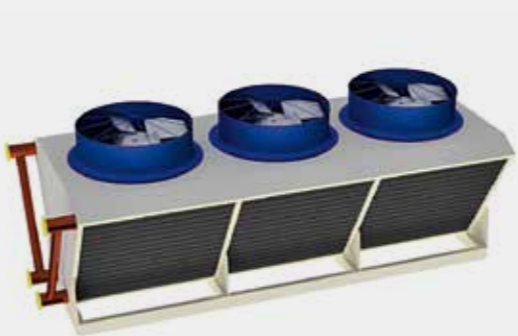
- Data Center Cooling
- HVAC
- Industrial cooling
- Carbon Capture & Utilization (CCUS)



Applications

Forced/Induced draught orientations for:

- Process Air Coolers and Air-Cooled Condensers
- Package or Factory Assembled Cooling Towers
- Hybrid or Adiabatic Coolers
- Carbon Capture and Sequestration (CCUS) modules





**Certifications:** CE, UL

**cofinco**    **Fantastic 6.2.0**

Input

Selected Fan

Project Information

Customer Name

Job Name

Job Reference

Item Number

Item Revision  City  Date

Application Type

Notes

Duty Point Data

Required Volume

Required Static Pressure

Inlet Air Density

Calculated Air Density from the following data

Air Temperature

Site Elevation

Inlet Air Humidity (0 - 100 %)

Fan

**CX Fans** ☐

Blade Airfoil

☒ Alu ☒ Frp

☐ All

N. Blades

Min.

☐ All

Configuration

Pitch Adjustment

☒ Manual (AP)

☐ Automatic (AV)

Rotational Speed

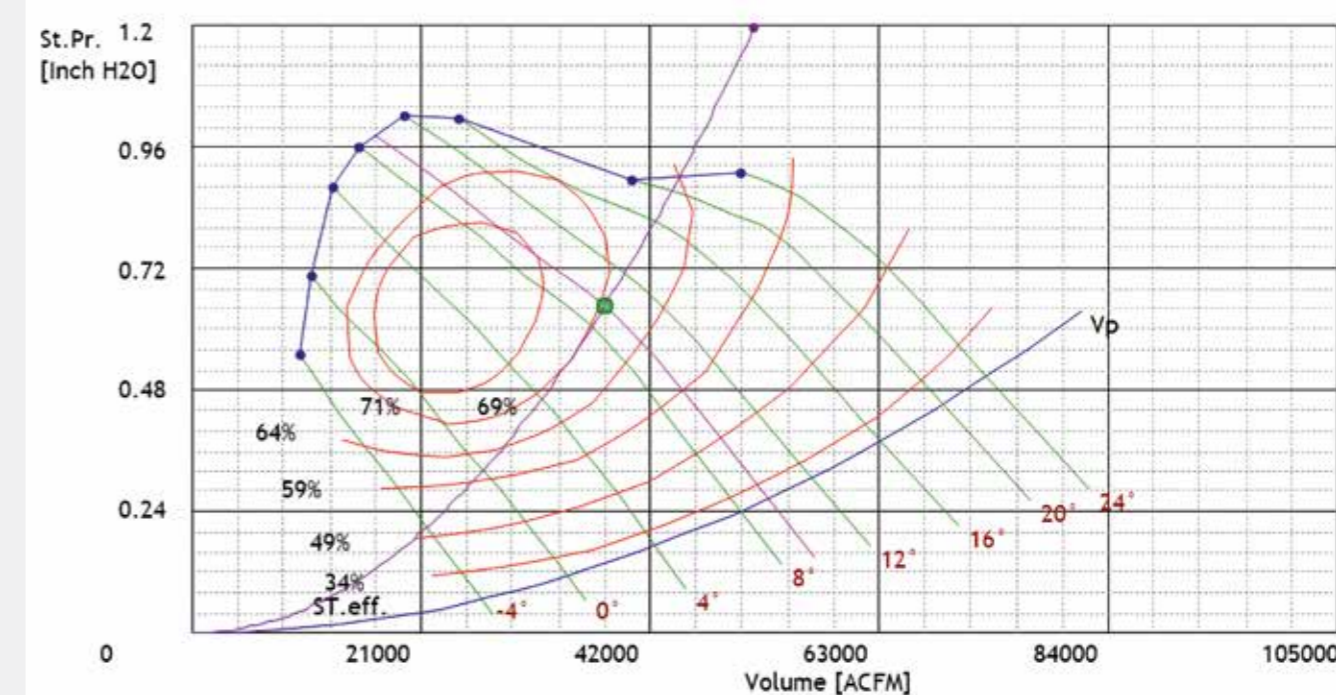
☐ RPM

☒ Blade Tip Speed

☐ Optimal Speed Selection

Reynolds
Standard

107553





## Designing for efficiency

At Cofimco, we engineer axial fans with the future in mind. Our goal is to deliver high-performance solutions that meet diverse customer needs while optimizing resource use. By maximizing efficiency, we ensure superior functionality with minimal waste.



## Responsible development

We prioritize smart resource utilization, energy reduction, and continuous process optimization to lower environmental impact. This commitment drives every aspect of our design and manufacturing, reinforcing our role in advancing the industry.



## Cofimco – Five Decades of Excellence

For over 50 years, Cofimco has been a leader in axial fan technology for industrial applications. We provide **tailored solutions** to major global corporations, specializing in **large-scale projects** across the extractive and energy sectors.

Renowned for **quality, innovation, and manufacturing excellence**, Cofimco is the trusted partner for industry leaders, delivering **advanced cooling systems and high-performance airflow solutions** worldwide.

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