

# AxiEco 200 (200x70)

*Powerfull. Efficient. Noise optimized.*

**ebmpapst**

engineering a better life



Forced flow changes cause turbulence.  
Uncontrolled turbulence reduces  
efficiency and increases noise.

## AxiEco 200

- + reduces swirls  
and turbulence
- + maximizes efficiency and  
improves noise in your application





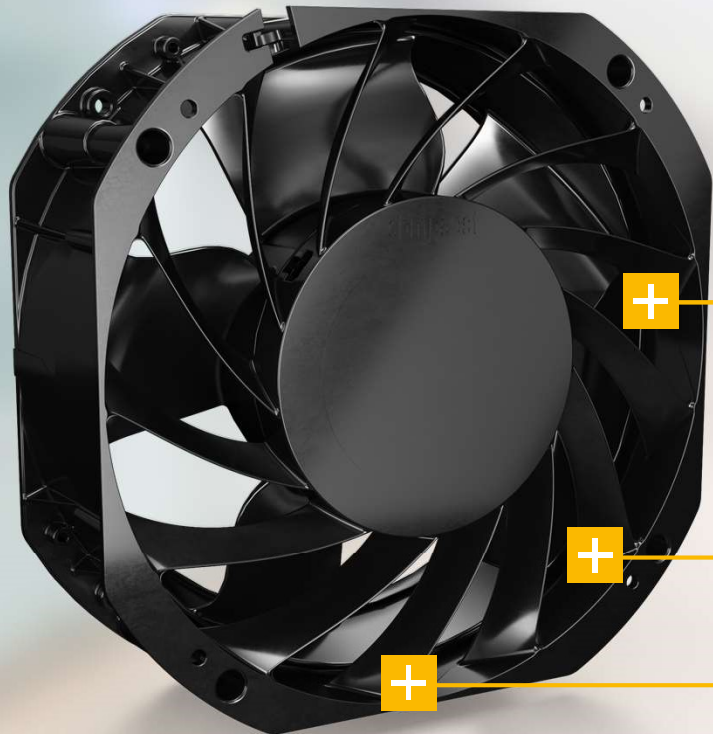
## Axieco 200

Sticking out is the new impeller design.  
It reduces turbulences and swirls.

In combination with our GreenTec motor Axieco 200 achieves **enormous performance** combined with **increased efficiency** and **reduced noise** compared to existing products in this dimension.

**ebmpapst**

engineering a better life



New aerodynamic design

No gap between impeller and housing

Diagonal housing shape

3phase-multipole motor technology

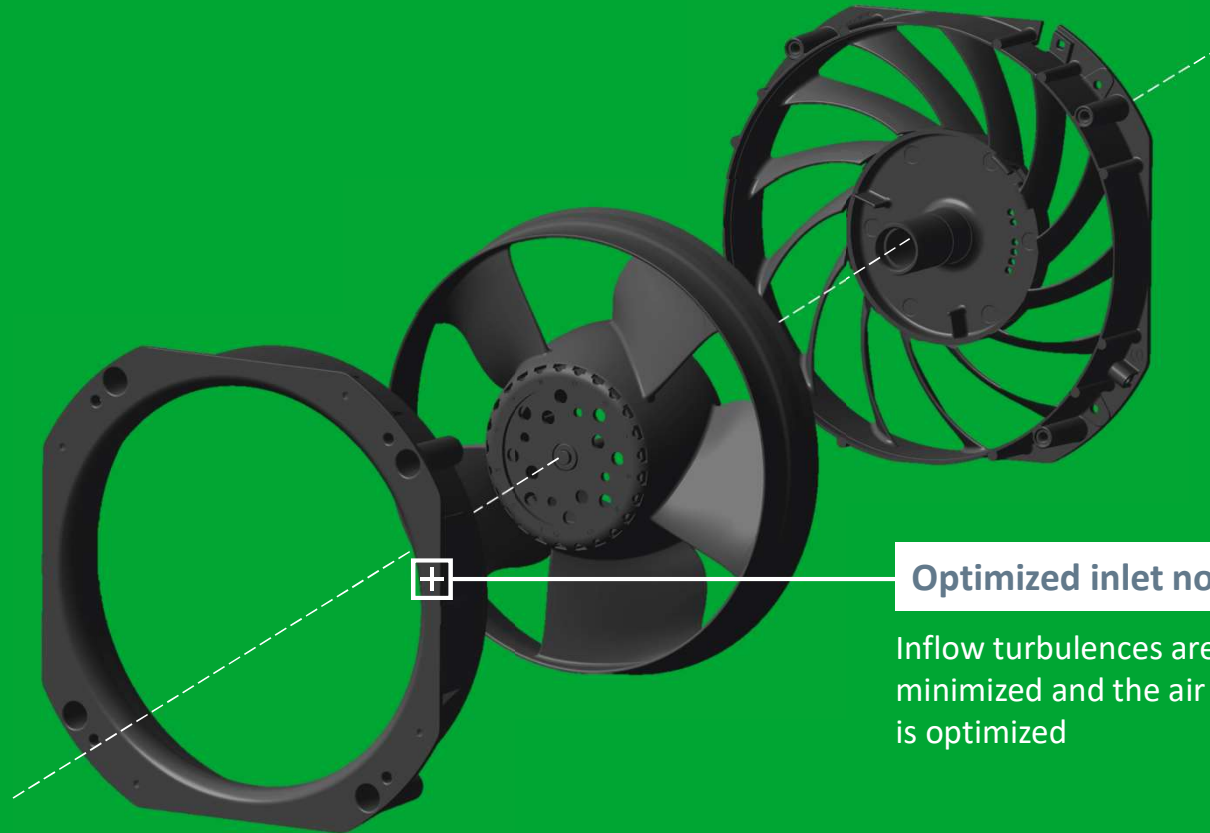
Guide vanes for optimal laminar air outlet

Compact design and DC supply voltage



*Uncompromisingly quiet and efficient*

## AxiEco 200



### Optimized inlet nozzle

Inflow turbulences are minimized and the air inflow is optimized

**ebmpapst**

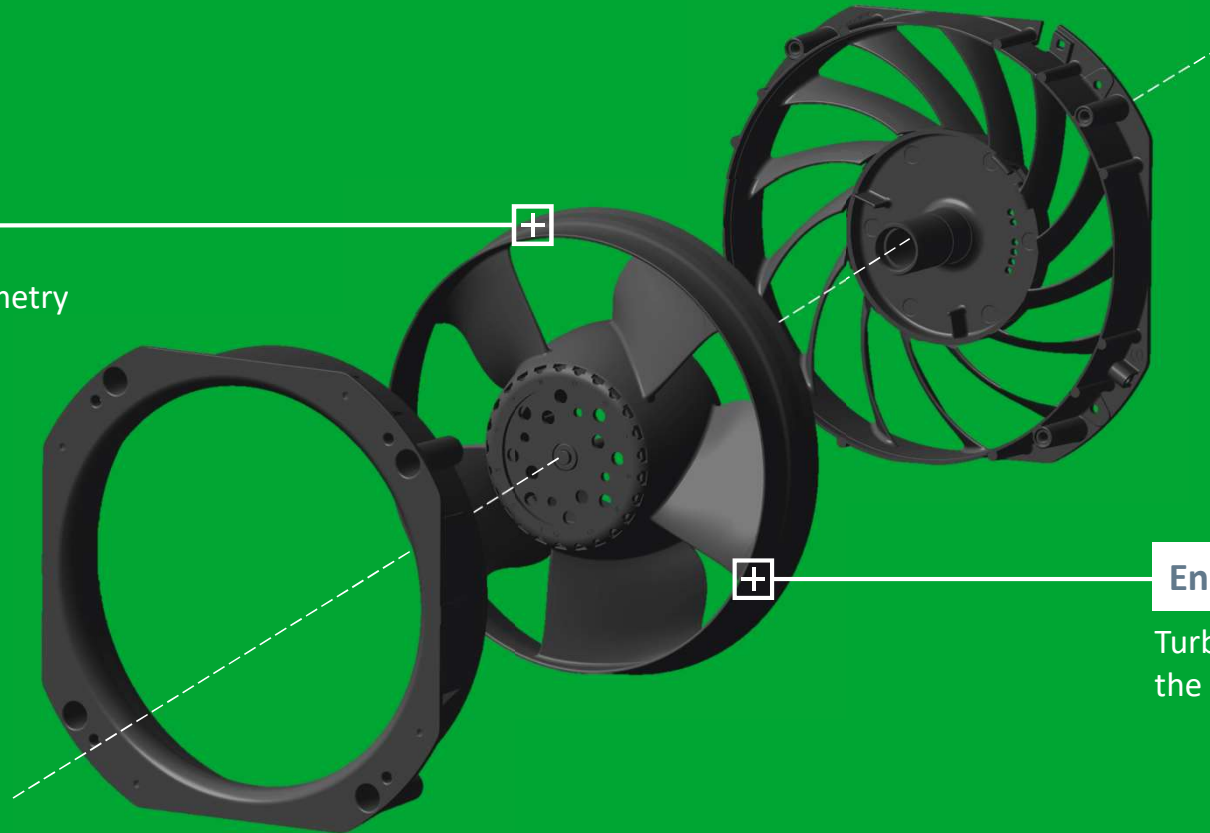
engineering a better life

*Uncompromisingly quiet and efficient*

## AxiEco 200

**Diagonal shape**

Ideal shape of flow geometry



**Enlosing walling**

Turbulence in the area of the head gap is eliminated

**ebmpapst**

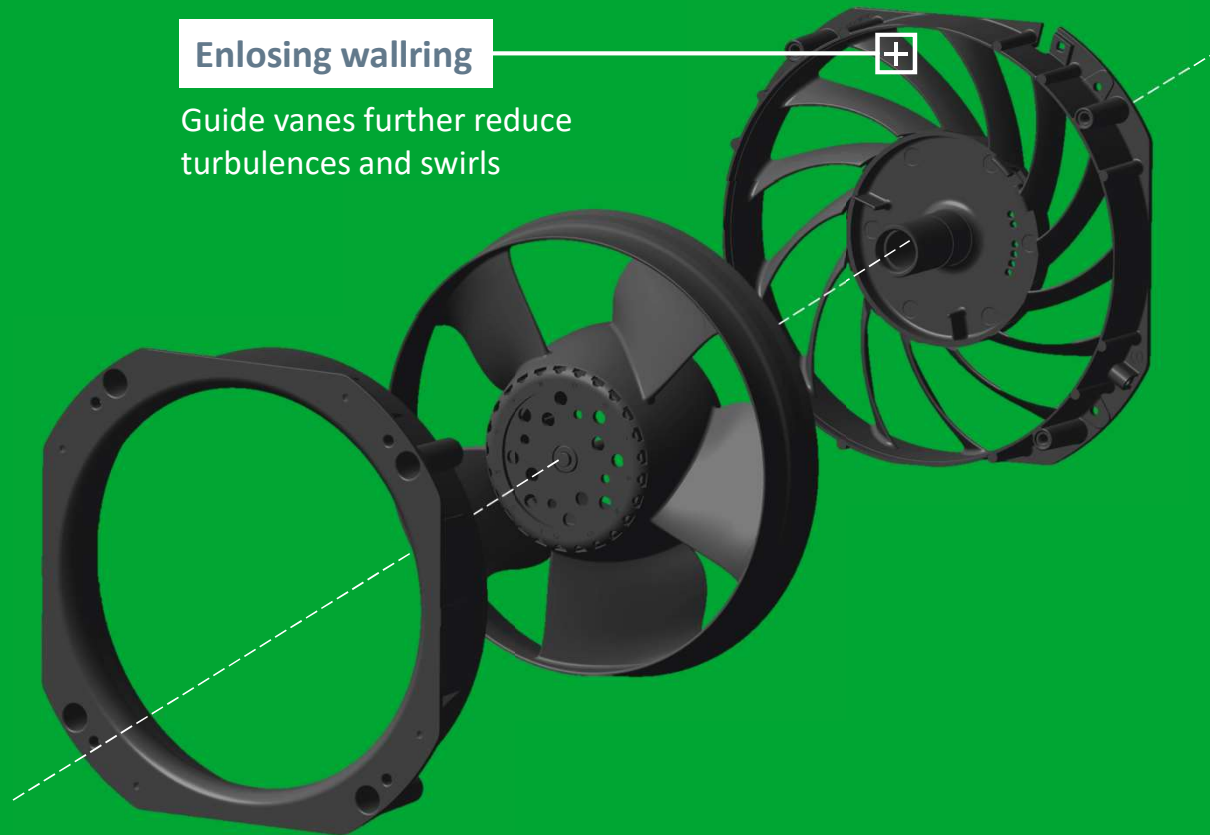
engineering a better life

*Uncompromisingly quiet and efficient*

## AxiEco 200

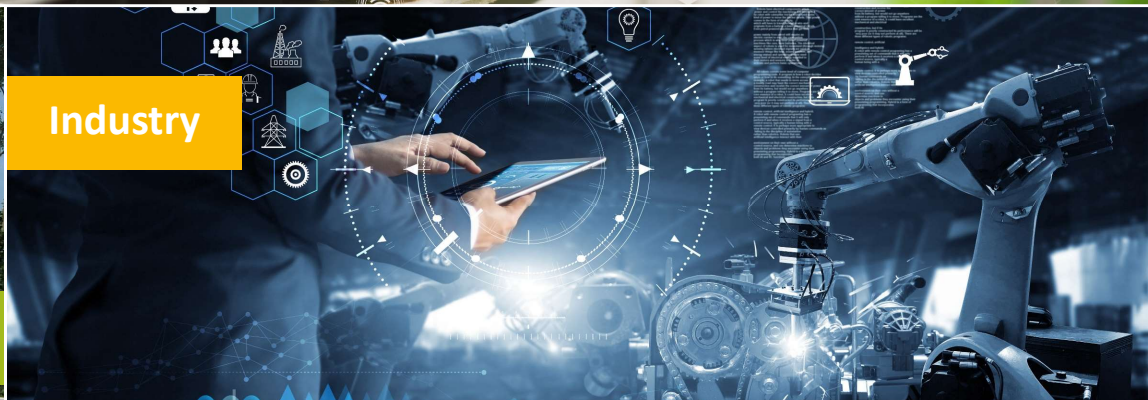
### Enlosing wallring

Guide vanes further reduce  
turbulences and swirls



**ebmpapst**

engineering a better life





# AxiEco 200

DC GreenTech motor



- + **Unrivalled compactness and strength up to 7.000rpm**
- + **Known high performance S-Force motor**
  - *Very smooth running and powerful*
  - *Low vibration*
  - *Three-phase motor concept*
- + **Optimized motor's heat management**
  - *Cooling openings actively support the engine cooling*
  - *Additional heat dissipation via the aluminum flange*

## backspin

We enable trouble-free start-up from external-driven reverse operation (e. g. during service work)



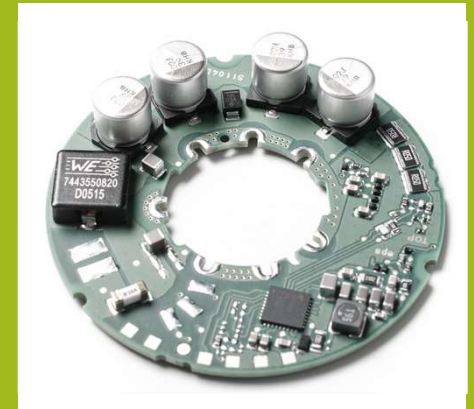
# AxiEco 200

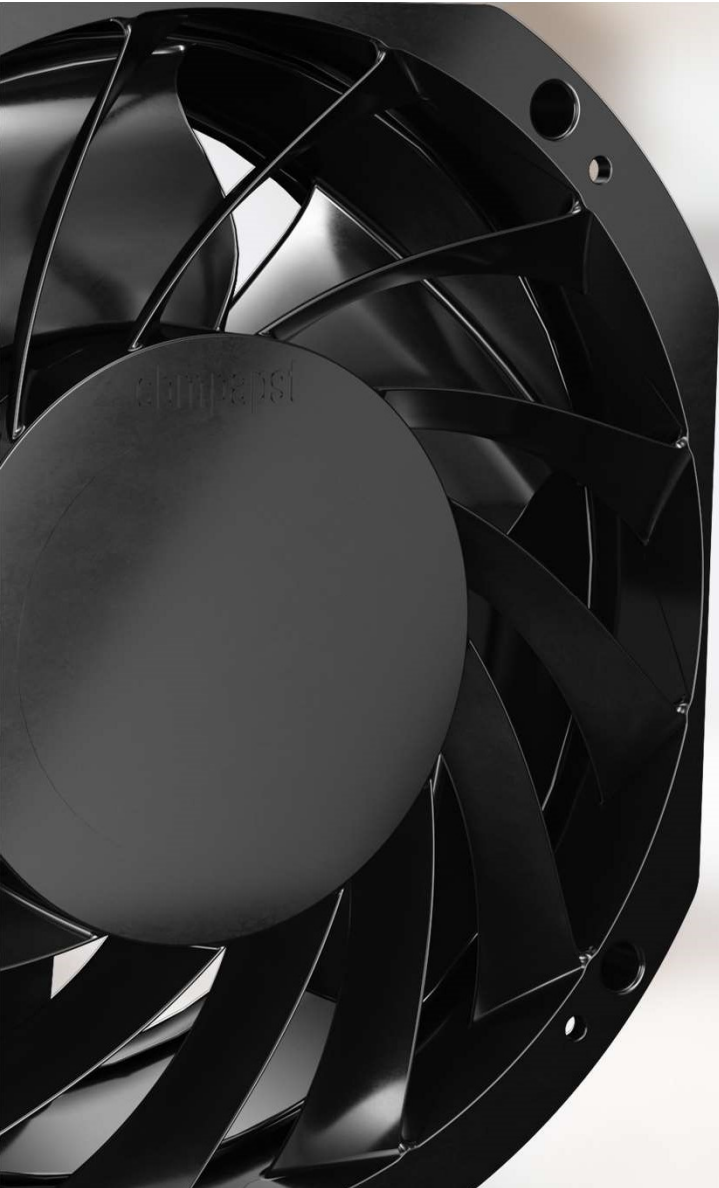
## Electronics and Interfaces



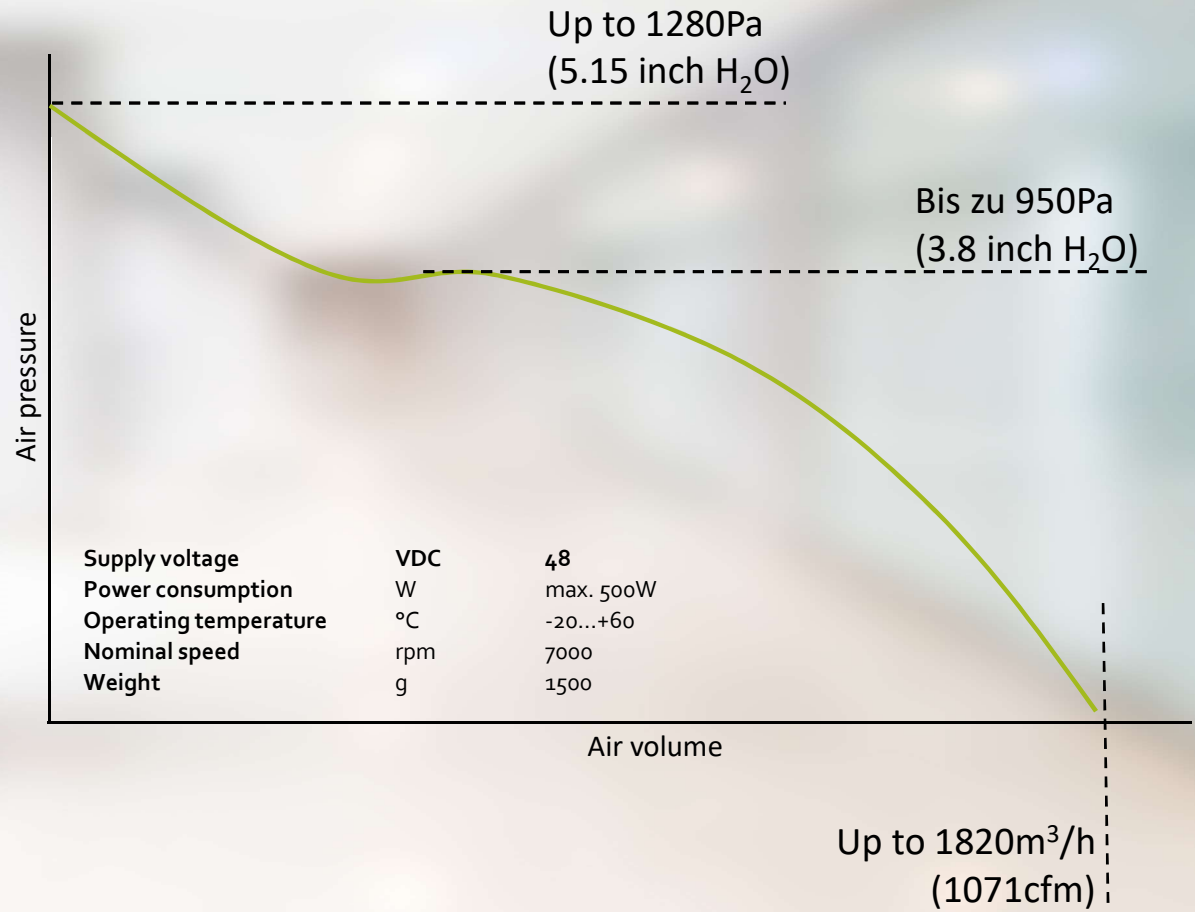
- + **Performance range up to 500W**
  - *Integrated locked-rotor protection*
  
- + **Functions included**
  - *Speed signal*
  - *PWM speed control*
  
- + **Available as an option**
  - *FanCheck diagnostic tool for calculating the specific remaining service life*
  - *Go/No Go alarm*
  - *Alarm with speed limit*
  - *Temperature sensor*
  - *Analog control input*
  - *Moisture protection (humidity up to 98%, no condensation)*

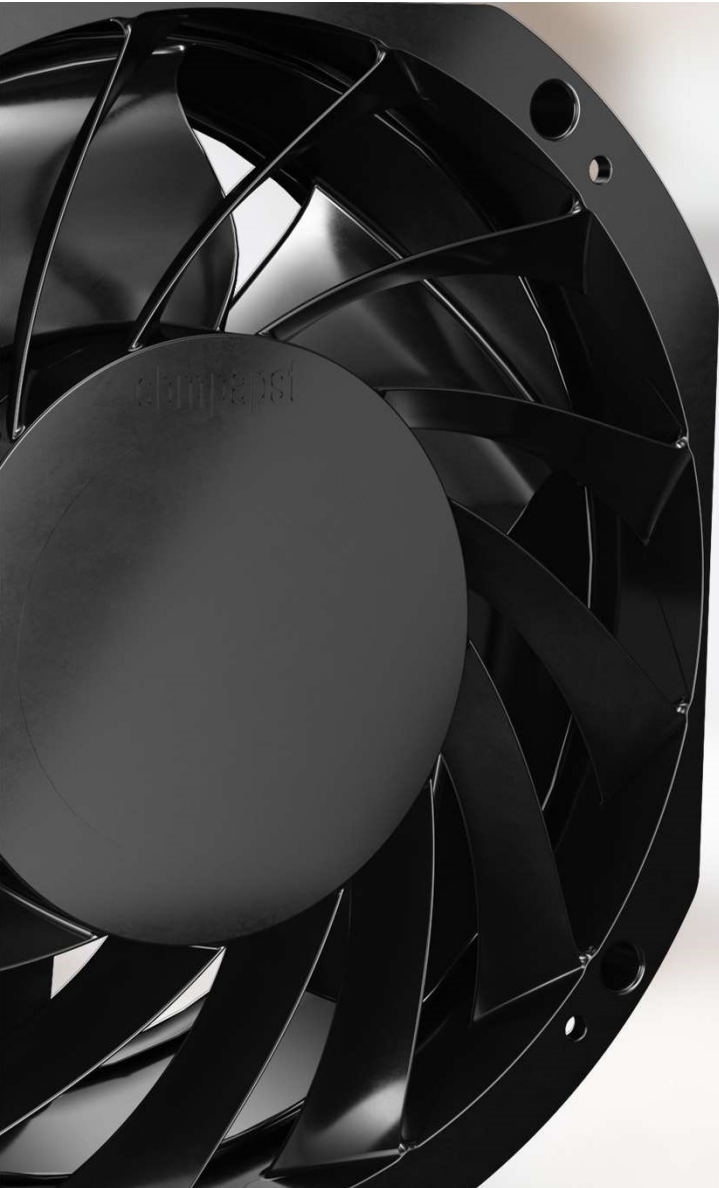
## High-Density-Interconnect circuit board design





## AxiEco 200





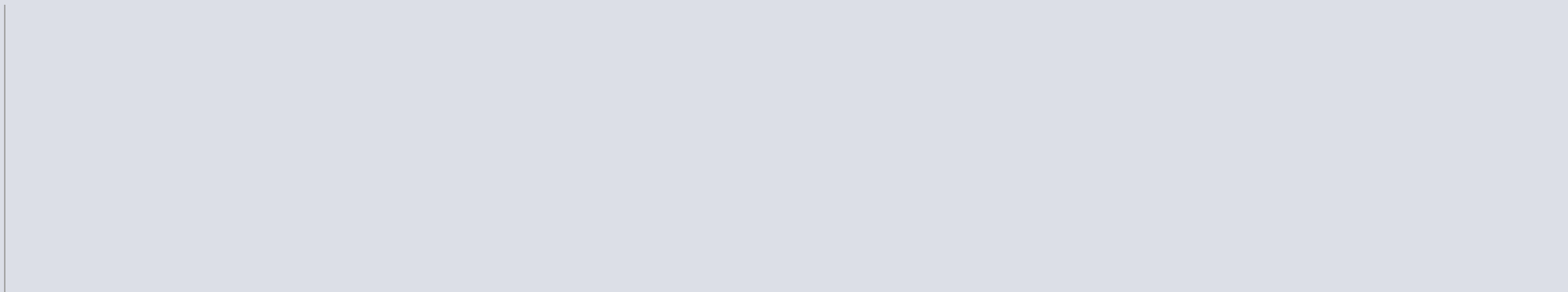
## AxiEco 200

- + Powerful**  
*3-phase DC-motor technology*
- + Aerodynamically optimized design**  
*Diagonal geometry, innovative impeller, guide vanes*
- + Enclosing wall ring**  
*No gap between impeller and housing. To turbulences. Less Noise.*
- + New high performance electronics**  
*348W free blowing and up to 500W, backspin feature*
- + Robust and enduring**  
*Aluminum made housing, proven and reliable motor technology*
- + Multiple approved**  
*VDE, UL/CSA, CE, CCC, EAC*
- + Smart Features (partially optional)**  
*FanCheck to determine remaining service life, humidity protection, speed control (PWM or analog), output signals (speed signal, alarm signal)*



**ebmpapst**

engineering a better life



Air volume

■ AxiEco 200

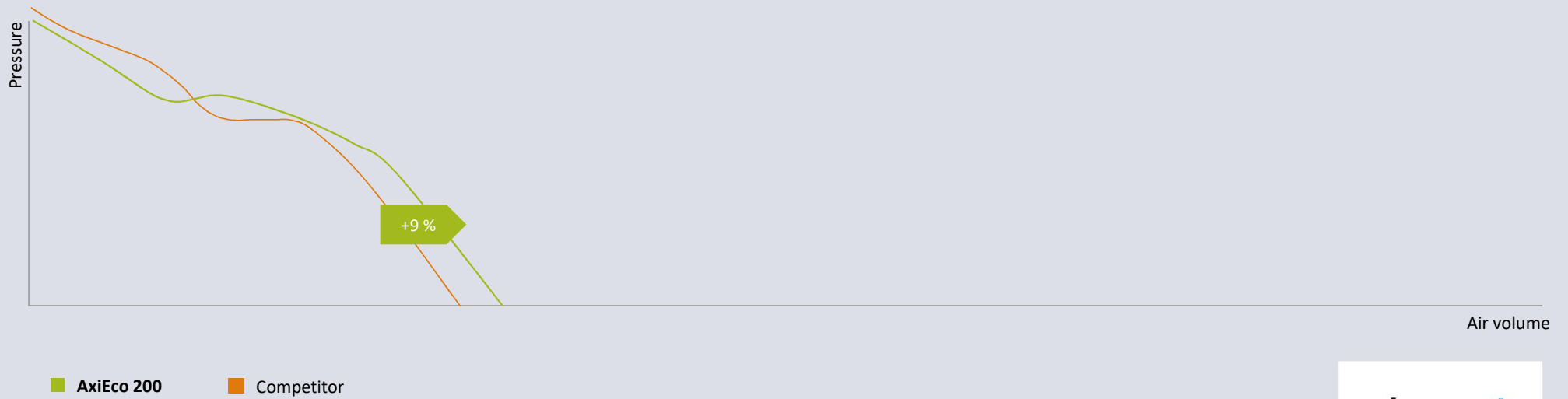
■ Competitor

**ebmpapst**

engineering a better life



## More Air improvement by up to 9%



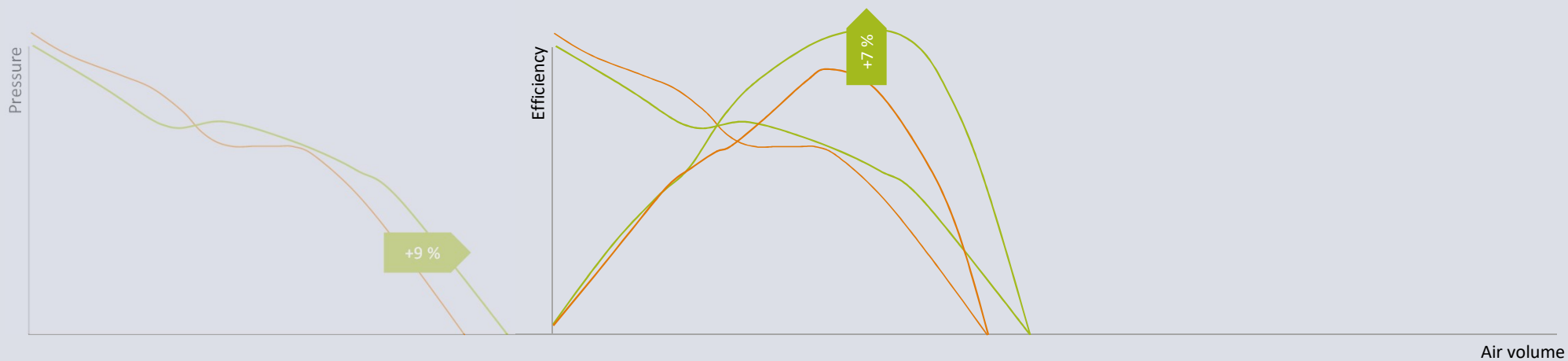
**ebmpapst**

engineering a better life



**More Air**  
improvement by up to 9%

**Higher Efficiency**  
increase by 7% (single fan)



■ AxiEco 200    ■ Competitor





**More Air**  
improvement by up to 9%



**Higher Efficiency**  
increase by 7% (single fan)



**Lower Noise**  
up to 5dBA (6 fans in 300mm cabinet)



Air volume

■ AxiEco 200

■ Competitor

**ebmpapst**

engineering a better life



Thank you

**ebmpapst**

engineering a better life

# AxiEco 200

ebmpapst

engineering a better life

Description

Characteristic curve

Nominal data

Drawing



- + New developed flow geometry
- + Three-phase motor concept and high performance 48VDC electronics up to 500W
- + Backspin feature, speed signal, PWM
- + Powerful and highly efficient
- + Air flow direction: Exhaust over struts
- + Rotational direction: Counterclockwise, looking towards rotor
- + Material Housing: Plastic and Aluminum
- + Material Impeller: Plastic (PA)
- + UL 507, CSA 22.3, VDE, CCC, EAC, CE

## optional

- + Speed control (PWM, analog, temperature sensor)
- + Tacho signal, alarm signal
- + FanCheck to determine the remaining service life
- + Moisture protection (up to 98% humidity, no condensation)

# AxiEco 200

**ebmpapst**

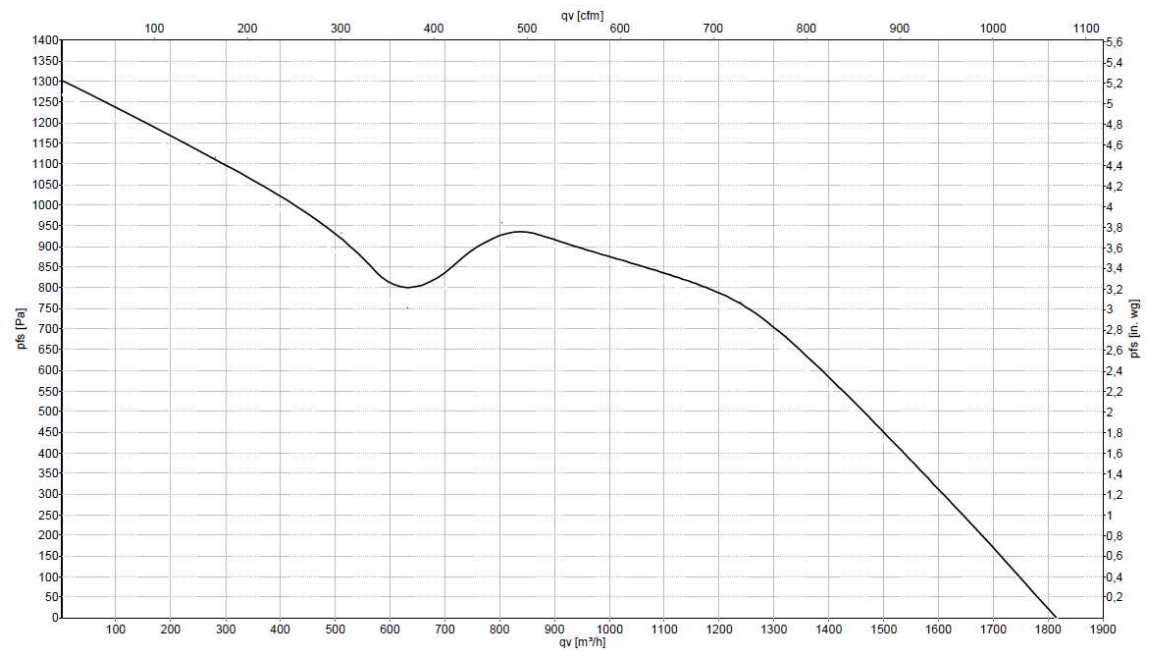
engineering a better life

Description

Characteristic curve

Nominal data

Drawing



# AxiEco 200

**ebmpapst**

engineering a better life

Description

Characteristic curve

Nominal data

Drawing



Typ	Part no.	Air flow		Nominal voltage	Voltage range		Sound power level	Sound pressure level	Power consumption (free blowing)	max. Power consumption	Nominal speed	Temperature range	Weight	Service life L10 <sub>40°C</sub> as per IPC 9591	Approvals
		m <sup>3</sup> /h	cfm	VDC	VDC	Bel (A)	dB(A)	Watt	Watt	rpm	°C	g	hours		
VKLH200CKLXS	8317081096	1.820	1.071	48	36...60	9,0	80,2	348	500	7.000	-20...60	1.500	70.000	UL, CSA, VDE, CCC, CE	

# AxiEco 200

ebmpapst

engineering a better life

Description

Characteristic curve

Nominal data

Drawing

