



No chance for water and dust: *the AxiEco 200.*

Reduces turbulence, quiet, efficient in applications requiring pressure.

ebmpapst

engineering a better life



The AxiEco 200 tames turbulence.

Where changes in flow are forced, turbulence is created. The AxiEco 200 reduces this and so gains in the following points:



IP68 protected thanks to full encapsulation and therefore resistant to environmental influences



Up to 9% more air performance compared to other fans of its size



Up to 7% more efficient, extremely compact and yet powerful up to 7,000 rpm

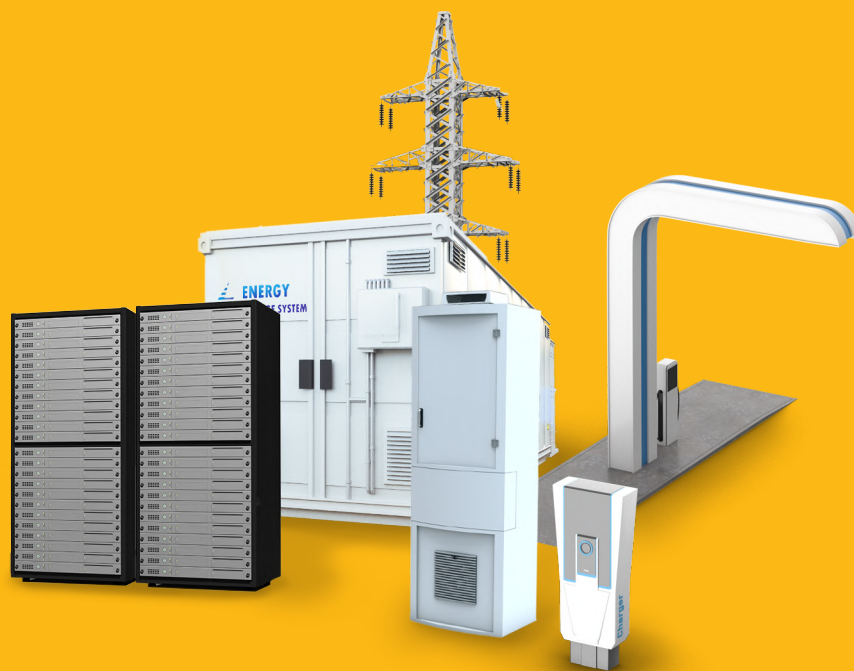


Up to 5 dB(A) quieter



Smart features for increased operational reliability and service life

At its best under pressure.



Specially designed for use in applications requiring **pressure**, the compact AxiEco 200 is particularly suitable for the challenges posed by charging stations, energy storage systems and data centers. Its secret: A unique impeller with no tip gap that reduces turbulence and swirling. Combining this with our

S-Force motor and high-performance electronics guarantees powerful performance and optimized noise behavior coupled with increased efficiency. Many other cooling applications also benefit from these features, such as switch cabinets, lasers or automation systems.

Outstanding design *that makes an impact.*

The AxiEco 200 boasts an innovative aerodynamic design. A significant feature is the new diagonally shaped impeller, which runs directly into the fan housing so that unwanted turbulence does not occur in the first place. The optimized inlet ring and guide blades

also ensure less turbulence and swirling. As a result, the AxiEco 200 is audibly quieter than other fans of its size. And especially where it counts: built into the application.

Optimized geometry

According to the latest aerodynamic findings, the AxiEco 200 is designed for use in applications requiring pressure. These include the inlet ring optimized for low-turbulence air inflow, its diagonally shaped impeller, and the flange with guide blades for low-turbulence air discharge.

Approvals

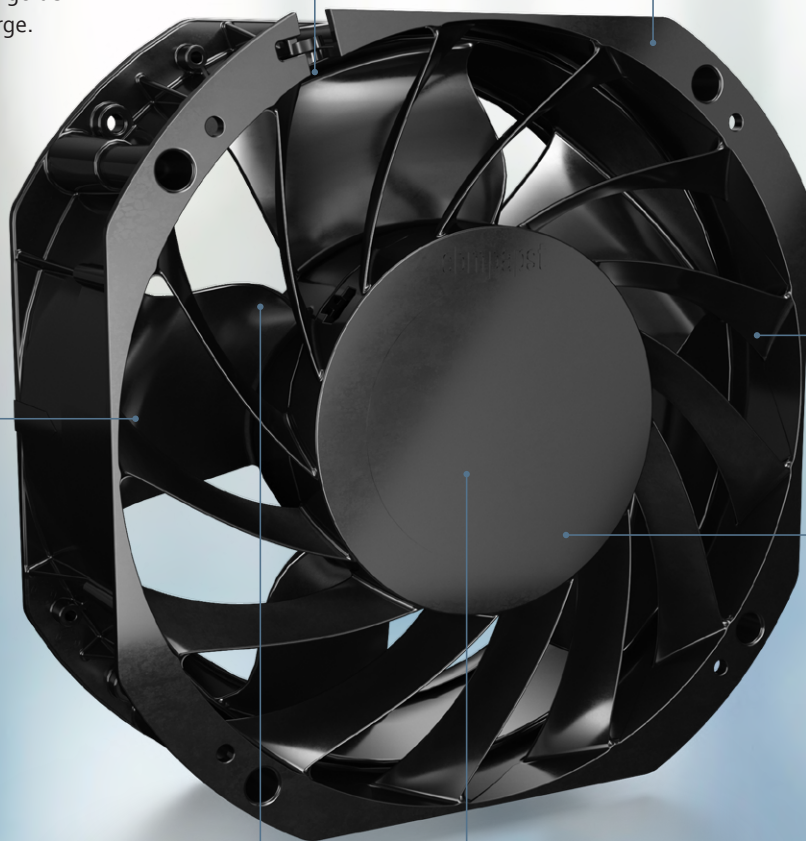
- + VDE
- + UL/CSA
- + CCC
- + CE
- + EAC

No tip gap

Impeller, integrated diffuser ring and hub form a compact unit in the AxiEco 200. There is no tip gap between the blades and housing, so there is no airflow over the blade tips. This increases efficiency while reducing noise.

Powerful S-Force motor

The 3-phase multi-pole DC GreenTech motor technology operates impressively smoothly, with low vibration and an enormous power output of up to 7,000 rpm. The motor is also very compact and dissipates heat brilliantly.



Robust housing

Made of aluminum, the housing can withstand adverse environmental conditions and, together with the reliable motor technology, guarantees a long service life in a temperature range of -20 to 60 °C.

Resistant to environmental influences

Thanks to its IP68 protection, the AxiEco 200 is also suitable for outdoor use and is highly resistant to dust, salt mist and water.

Interfaces

- + FanCheck for determining the remaining service life
- + Alarm signals
- + Temperature sensor
- + Analog control input (0...10 VDC)
- + Moisture protection (humidity up to 98%, no condensation)



Downtimes? Not with AxiEco 200!

IT equipment such as servers, routers, and in-row cooling applications must be 100% operational. For this reason, maintenance work is often carried out during operation.

If a single fan or a plug-in unit with several fans is taken out of service for this purpose, this can create a tricky situation: The remaining fans must provide adequate air flow. As a result of this and the back pressure of applications, air flows through the fan taken out of service and it is driven by an external source, as with a wind turbine.

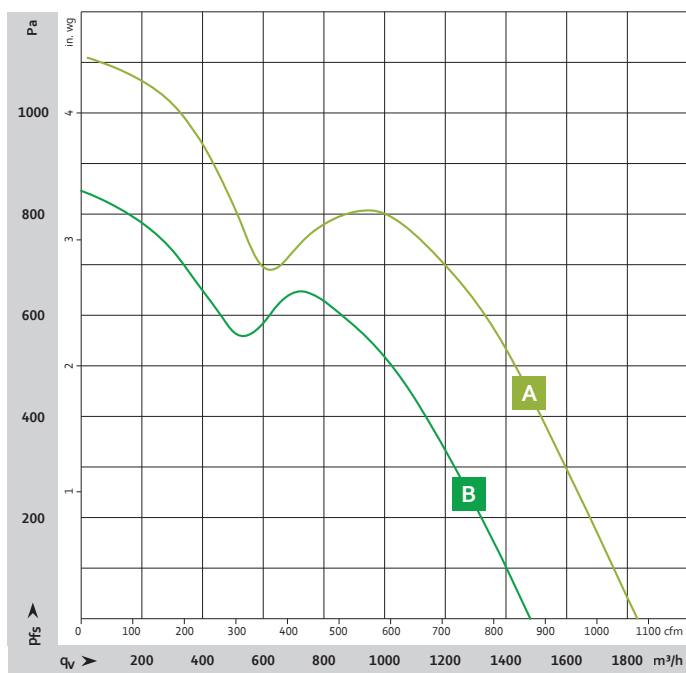
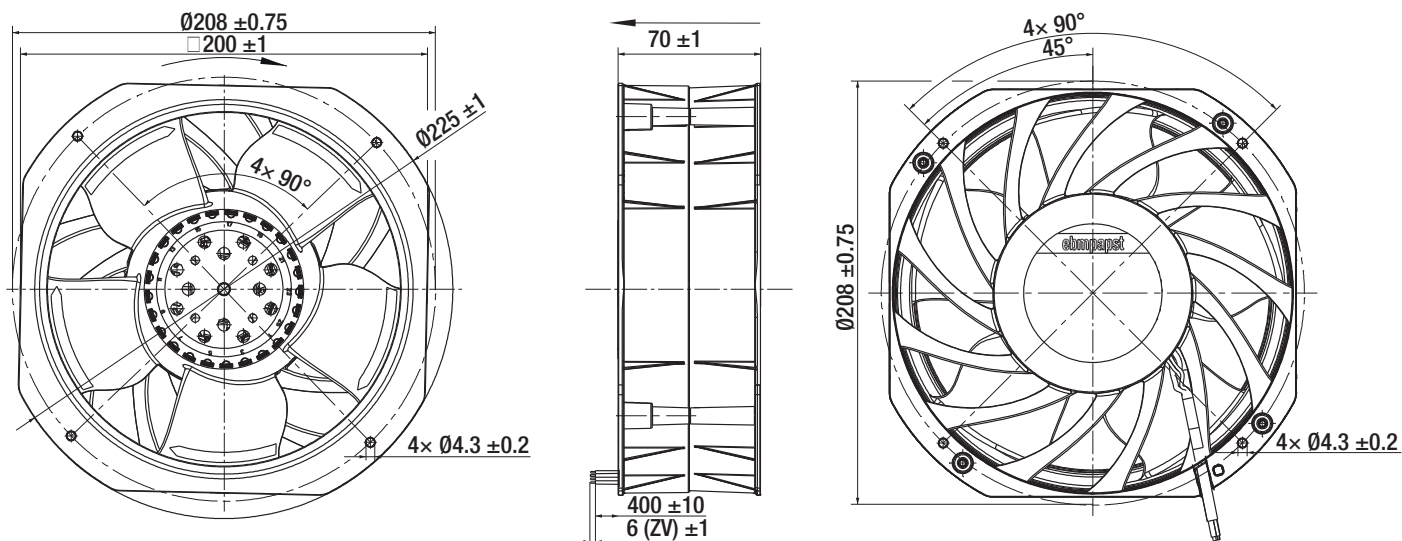
The problem is that when driven by an external source, these speeds can amount to several thousand revolutions per minute and in the opposite direction of rotation.

AxiEco 200 manages a feat of strength: Thanks to its high-torque motor and state-of-the-art electronics, it still guarantees a proper start-up process, enabling efficient and fast system maintenance, including the replacement of fans while the system is running.

Turning your requirements into innovative and practical solutions is what drives us.

Powerful figures: *the AxiEco 200.*






The combination of an aerodynamically optimized impeller and our GreenTech motor delivers huge performance values and greater efficiency.

| Type | Number | Airflow m³/h | Airflow cfm | Nominal voltage V DC | Voltage range V DC | Sound power Bel(A) | Sound pressure dB (A) | Power consumption (free air) Watts | Max. Power consumption Watts | Nominal speed rpm | Temperature range °C | Protection class | Service life L10 _{40°C} per IPC 9591 Hours | Approvals |
|-----------------------|------------|-----------------|----------------|-------------------------|-----------------------|-----------------------|--------------------------|--|------------------------------------|----------------------|-------------------------|------------------|---|--------------------------------|
| A VWLH200CKLXS | 8317081096 | 1,820 | 1,071 | 48 | 36...60 | 9.0 | 80.2 | 348 | 500 | 7,000 | -20...+60 | IP20 | 152,500 | UL, CSA, CE, VDE, CCC |
| B VWLH200CJLWS | 8317085051 | 1,508 | 888 | 24 | 16...32 | BT | 75 | 220 | BT | 5,800 | -30...+60 | IP68 | 117,500 | UL, CSA, CE, VDE |
| A VWLH200CKLXZ | 8317083176 | 1,820 | 1,071 | 48 | 36...60 | 9.0 | 80.2 | 348 | 500 | 7,000 | -30...+60 | IP68 | 117,500 | UL, CSA, CE, VDE, CCC, IP68 |

Subject to technical changes.



**What *Engineering*
a better life means
to us.**

Who we are.

We lead air technology into the next generation: with innovative hardware and software solutions that are always more powerful, compact, efficient and sustainable than their predecessors. Over the years, this has made us the world's leading manufacturer for fans and drives and helps reduce the carbon footprint in our customers' applications.

Digitalization and the associated networking of intelligent components and systems play a central role for us. In this way, we create a holistic link between sustainability and digitalization and enable the responsible use of resources through intelligent solutions of the highest efficiency.

What drives us.

But our consistent pursuit of efficiency and progress has even deeper roots. After all, there is something that excites us even more than our market position. It is the deep awareness that, with our solutions, such as the **AxiEco 200**, we are making the lives of many people around the globe more pleasant, safer and thus better. Therefore, the central driving force in all our thoughts and actions is Engineering a better life. It is the reason why it is worthwhile for us to get up every day and do our best.

More about this at ebmpapst.com/aboutus

What you get out of it.

- 1. Technological edge.**
With our EC technology, we combine the highest energy efficiency with the advantages of IoT and digital networking.
- 2. Our sustainable approach.**
We take our responsibility seriously with energy-saving products, environmentally-friendly processes and through social engagement.
- 3. System expertise.**
As experts in advanced motor technology, electronics and aerodynamics, we provide perfect system solutions from a single source.
- 4. The ebm-papst spirit of invention.**
Over 800 engineers and technicians will develop a solution that precisely fits your needs.
- 5. Personal proximity to you.**
With numerous sales locations worldwide, we create a global presence that ensures fast response times. We always consider the complete process and put the customer at the center.
- 6. Our standard of quality.**
Our quality management is uncompromising, at every step and in every process.

Get in touch with us.

Let's find out how ebm-papst can help to make your company and your solutions even better.

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