



Quiet under pressure:
the new AxiEco Plug-In.

ebmpapst

engineering a better life



Maximum power *and* minimum noise.

The interaction of the aerodynamically optimized AxiEco impeller and the FlowGrid air inlet grille minimizes noise levels and keeps them at a low level over a large operating range.



Optimized for use in heat pumps and applications where noise and a pressure-stable characteristic curve are important



Noise behavior remains at a low level over large operating ranges of the characteristic curve



Robust against environmental influences

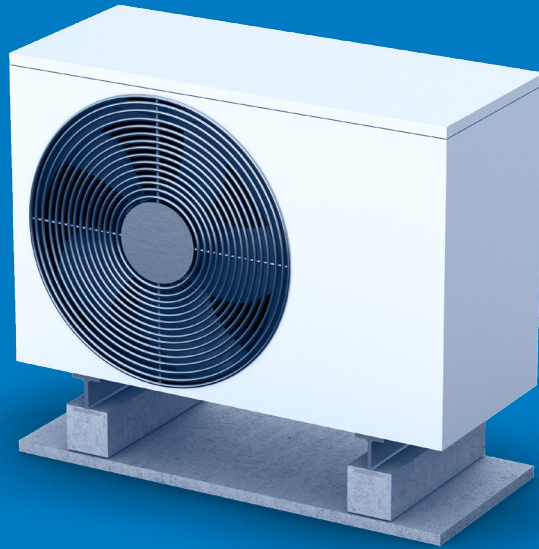


Compact design



Suitable for applications with flammable refrigerants

Optimized for use *in heat pumps*.



Heat pumps usually operate in harsh ambient conditions. With the AxiEco Plug-In, you can counter these effectively. Its pressure-resistant characteristic curve, high air throw and low noise level make it ideal for use in heat pumps. Just when other solutions risk suffering a loss of performance due to ice formation or contamination, the AxiEco Plug-In continues to operate reliably and, with a

permanently installed FlowGrid air inlet grille, ensures particularly low noise levels at what is still the optimum operating point.

As an optimized complete solution, it is available in the two fan sizes 450 and 500 mm and weighs approx. 30% less than our predecessor model with metal housing. A real AxiEco

Conquering new *power ranges*.

With its AxiEco, ebm-papst has developed a powerful axial fan that delivers impressively enhanced performance values. Its air performance curve points steeply upwards. In terms of efficiency and pressure stability, no comparable axial fans come close to it.

Good to know: Thanks to its robust design, the AxiEco is extremely well protected against environmental influences. It is supplied as a complete plug & play solution that can be used quickly, flexibly and easily in a large number of applications.



FlowGrid air inlet grill

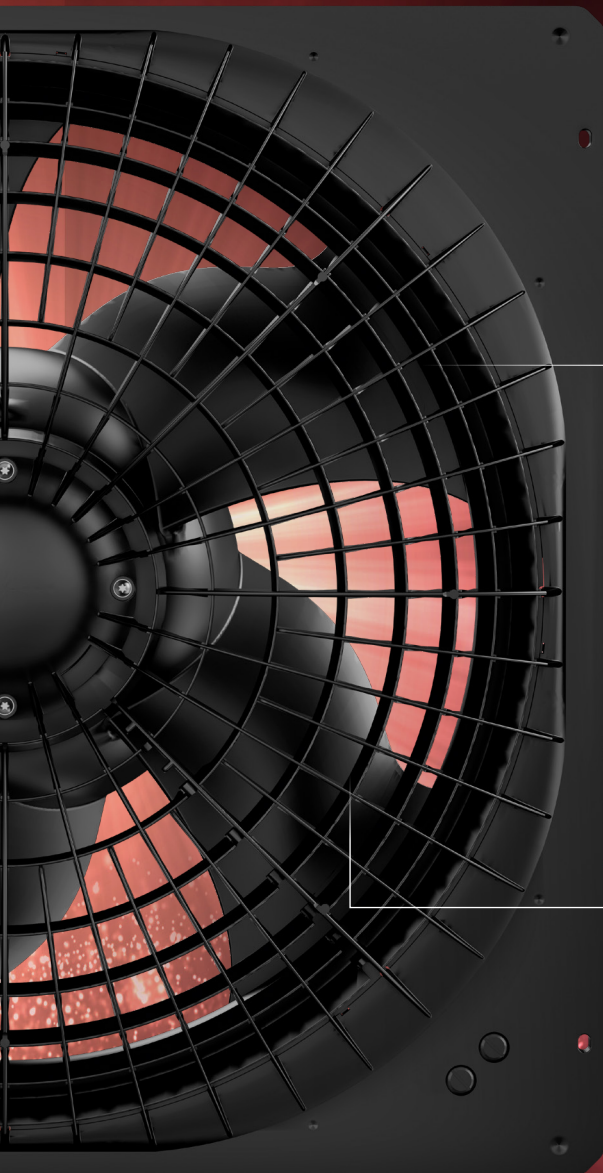
The integrated FlowGrid makes the AxiEco Plug-In an optimized complete solution and helps to optimize flow and minimize noise.



No tip gap means no freezing on the nozzle

There is no tip gap between the fan housing and the impeller on the AxiEco Plug-In. The impeller, integrated diffuser ring and hub form a compact unit. With the blade tips passing directly into the integrated diffuser ring. This has several advantages: there is no overflow of the blade tips, but rather increased efficiency and improved noise behavior. As a result, the blades can no longer freeze on the fan housing.





Increased efficiency thanks to pressure-boosting diffuser

The integrated diffuser ring of the AxiEco Plug-In is integrated directly into the impeller, where it functions as a diffuser. This means that the impeller has the largest outflow angle possible. By increasing the pressure, the diffuser reduces outlet losses and increases the fan's efficiency. The diffuser also helps to reduce the noise.

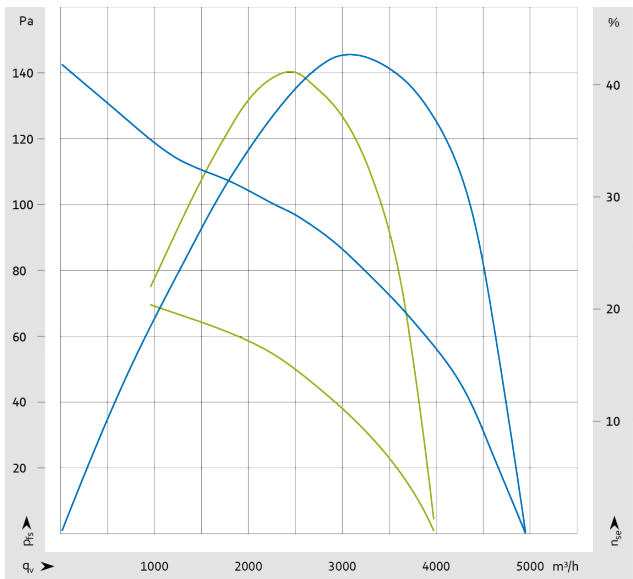
Optimum flow thanks to improved impeller geometry

The blade shape has undergone three-dimensional improvements and the impeller has been optimized in accordance with the latest findings in aerodynamics. The fan has an optimal throughflow thanks to the inlet ring that immerses in the impeller and thanks to the larger outlet opening.

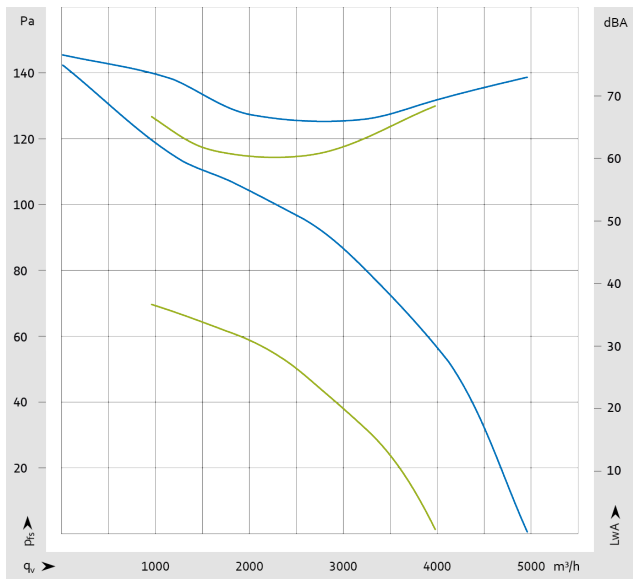
Higher power density thanks to blades with grooves on the rear

The fan blades of the AxiEco Plug-In have grooves. This increases mechanical stability, enabling higher speeds and in turn, greater power density.

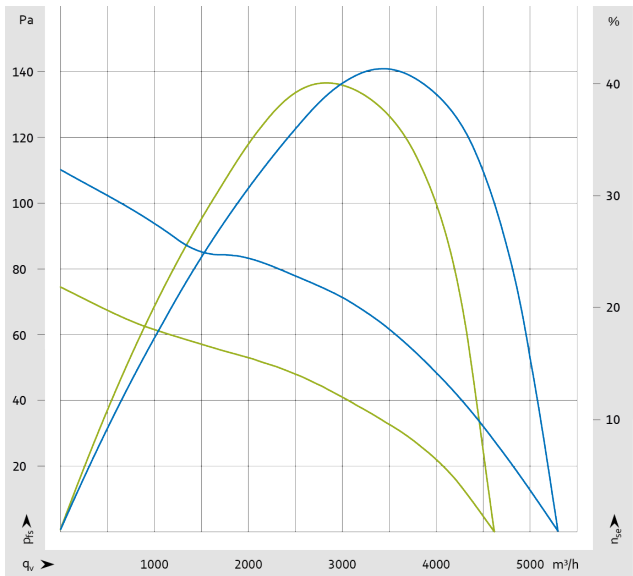
At a glance: Facts and figures.



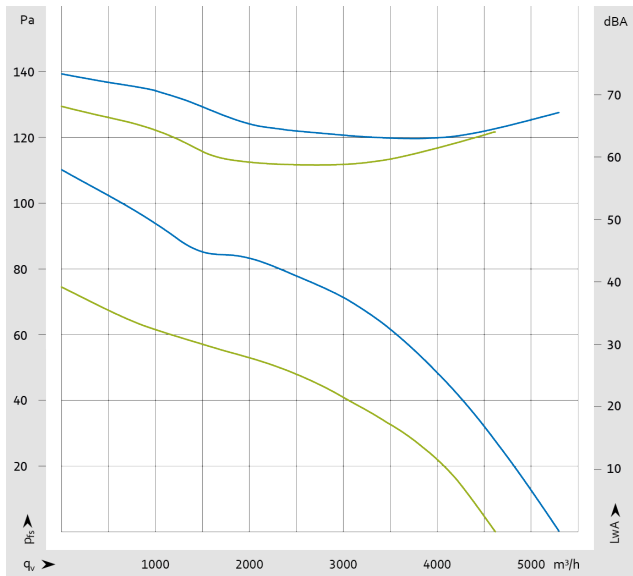
Size 450 - Air performance and efficiency



Size 450 - Air performance and sound power



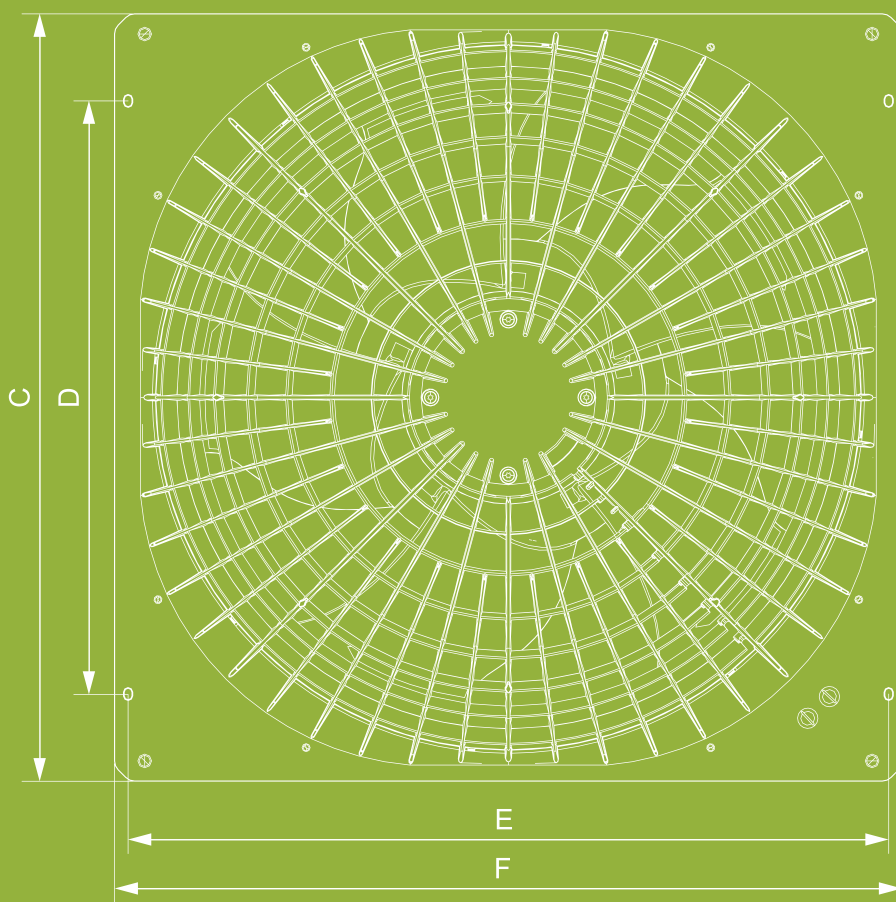
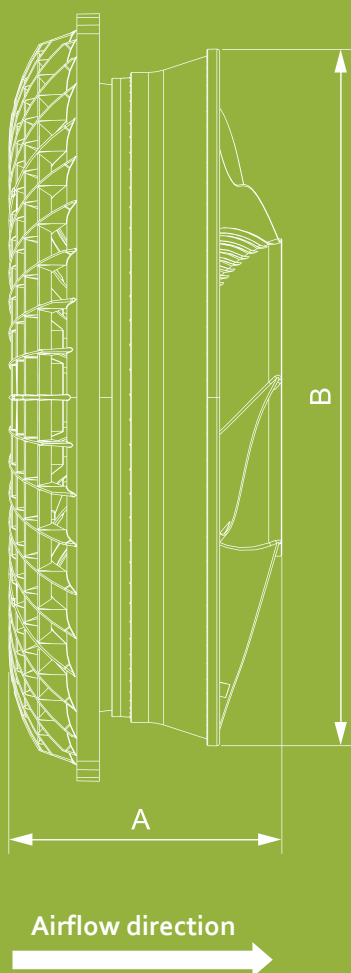
Size 500 - Air performance and efficiency



Size 500 - Air performance and sound power

Nominal data			Nominal voltage range	Frequency	Speed	Max. current draw	Max. power consumption	Max. back pressure	Permitted ambient temperature	Degree of protection
Size	Type	Material no.	V	Hz	rpm	W	A	Pa	°C	IP ⁻¹
450	VUB0450CSNFS	8300101310	1~ 200-240	50/60	825	85	0.7	71	-25...+60	54
	VUB0450CSNJS	8300101210	1~ 200-240	50/60	1,025	169	1.4	142	-25...+60	54
500	VUB0500CSNFS	8300101308	1~ 200-240	50/60	675	84	0.7	75	-25...+60	54
	VUB0500CSNJS	8300101186	1~ 200-240	50/60	775	150	1.3	110	-25...+60	54

Preliminary data. Subject to technical changes.



Dimensions

Size	A	B	C	D	E	F
450	195	500	550	520	520	550
500	219	560	616	479	610	632

All dimensions in mm

How to reach us.

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

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