



**ebmpapst**

engineering a better life

# inaudible

*AxiTone. So you only hear what's really important.*





## *Three blades for optimum noise at optimum efficiency.*

The AxiTone's special design ensures particularly low drag, resulting in low tonal noise.



Low noise at optimum efficiency



Increased efficiency compared to other 3-blade solutions



Designed for low back pressures

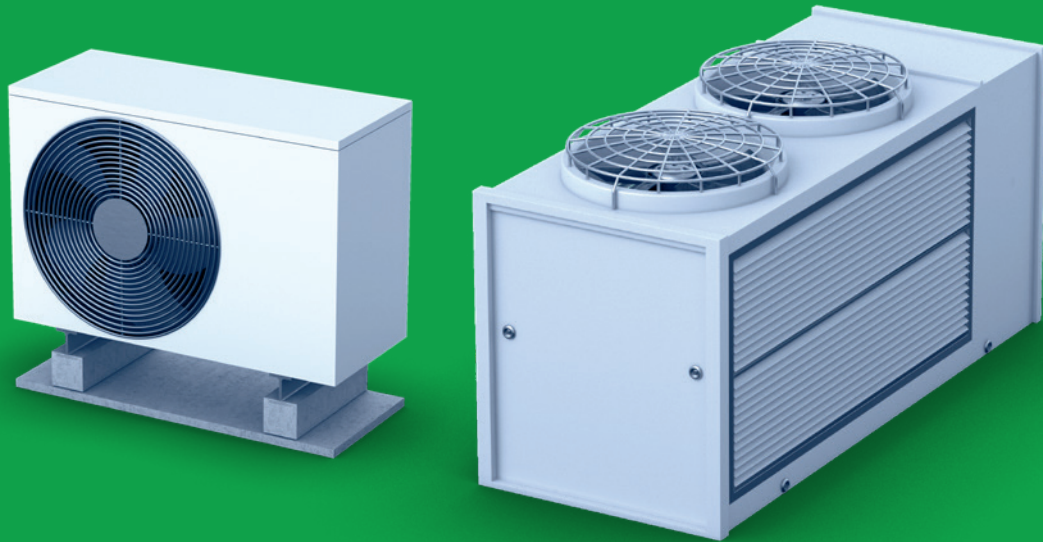


Optimized use of materials



Suitable for applications with flammable refrigerants

# *Developed for applications in noise-sensitive environments: AxiTone.*



There are many applications where low noise is extremely important. After all, there should be no noise pollution in the direct vicinity of heat pumps or refrigeration systems. With the AxiTone, we have developed a fan that not only operates particularly quietly, but also has its optimum efficiency at the optimum noise level.

Its special design with only three blades has made this possible, as it results in less turbulence and noise. So ideal conditions for use in heat pumps for private households, air conditioners in residential areas, or outdoor condenser units. To put it briefly: anywhere where powerful performance must go hand in hand with low noise.

# All good things come in threes.

At least as far as the design of the AxiTone's blades is concerned, as its special design ensures particularly low noise.

Of course, there are more than just three things that set the AxiTone apart. You can see all the important special features in detail here.

## Winglet on the outer blade edge

- + Reduces backflows in the tip gap
- + Reduces noise
- + Increases energy efficiency

## Stiffening ribs on the back of the blade

- + High dimensional stability
- + Improves condensation drain

## Serrations on the front edge of the blade

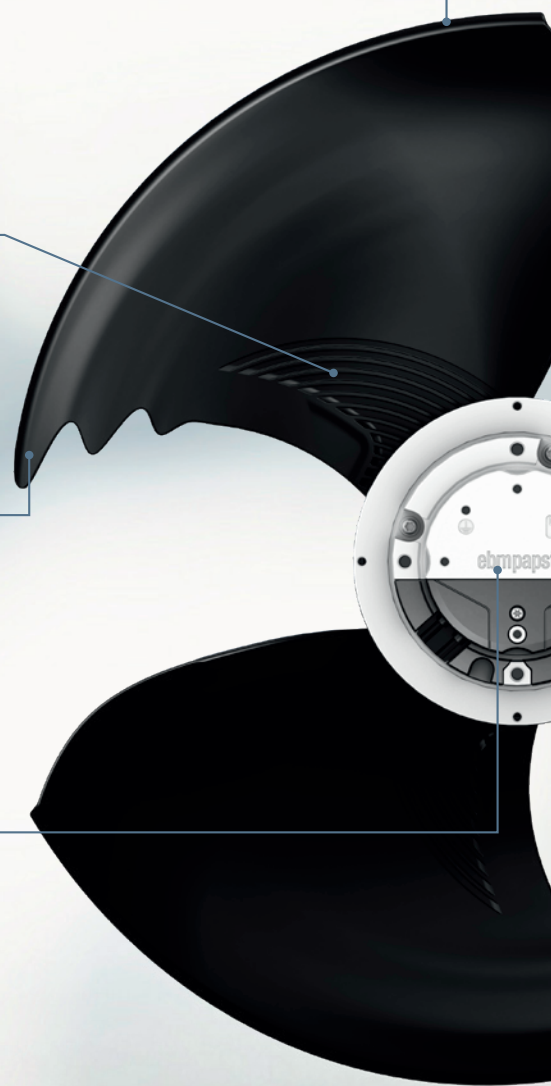
- + Reduce the sensitivity of the blade to turbulence
- + Reduce noise

## Modern EC-Motor

- + Runs quietly
- + Highly efficient
- + Optionally with MODBUS interface

## Various air flow directions possible

- + Drawing air in
- + Pushing air out







### **Three blades**

- + Rotating tone in low frequency range
- + Pleasant tonal noise

### **Fan impeller made of composite material**

- + Low weight
- + Corrosion resistant

### **Flexible range of applications**

- + Proven concept
- + Can be used in existing nozzles/fan housings
- + FR-A and FR-V possible.
- + Increased moisture protection with optional rotor cover

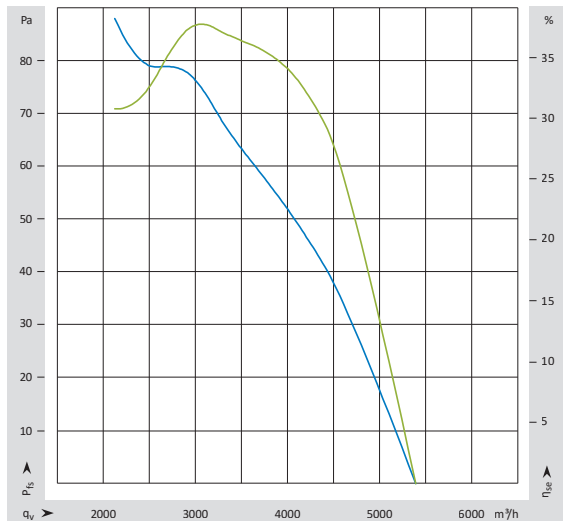
### **Plug & Play**

- + Optionally with motor suspension, support grill or guard grill
- + Optionally with fan housing

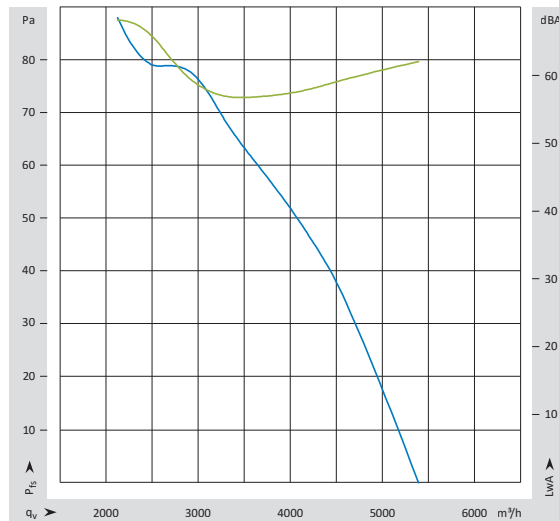
### **Fit for the future**

- + Motor and electronics suitable for applications with flammable refrigerants

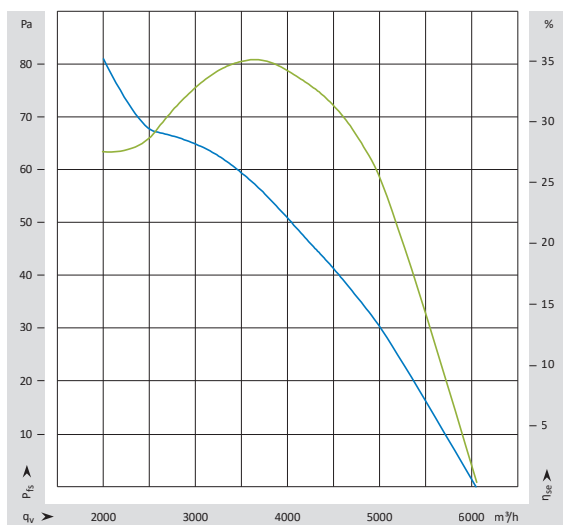
# Perfect combination of silence and strength: *The AxiTone series.*



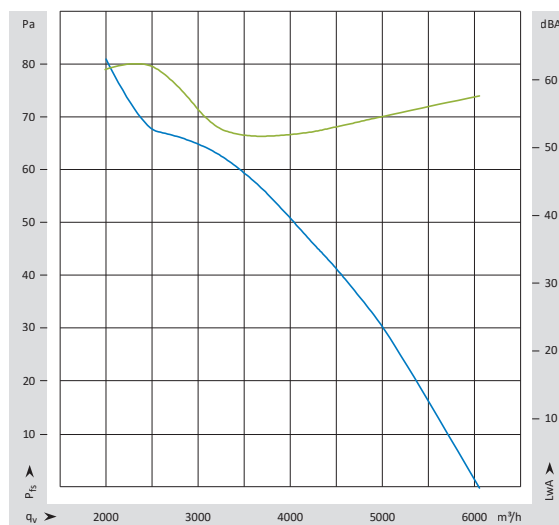
Size 450 – Air performance and efficiency



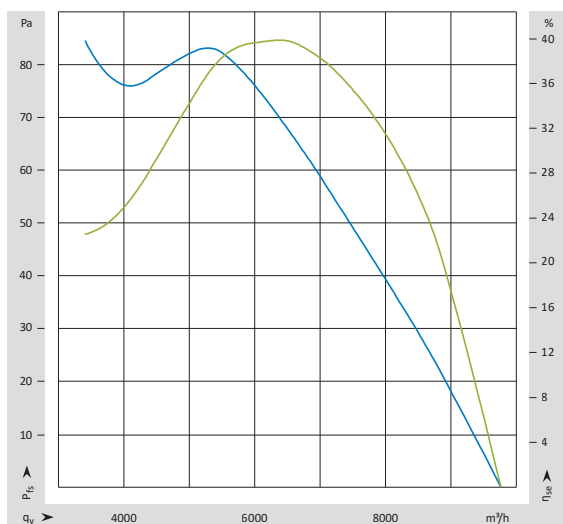
Size 450 – Air performance and sound power



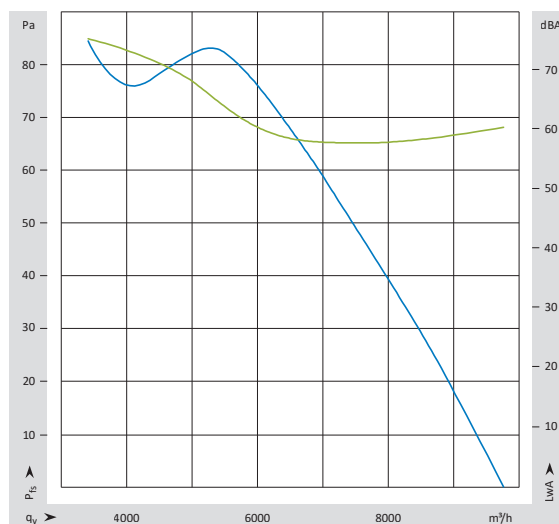
Size 500 – Air performance and efficiency



Size 500 – Air performance and sound power



Size 630 – Air performance and efficiency



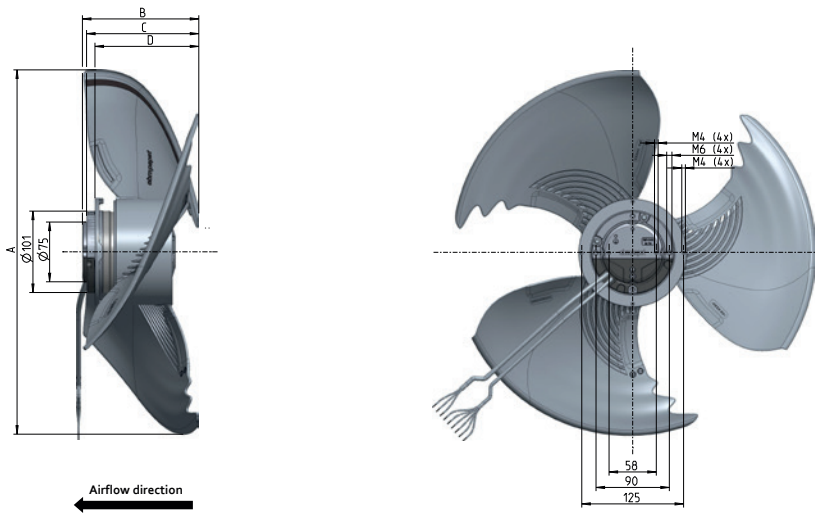
Size 630 – Air performance and sound power

## Nominal data

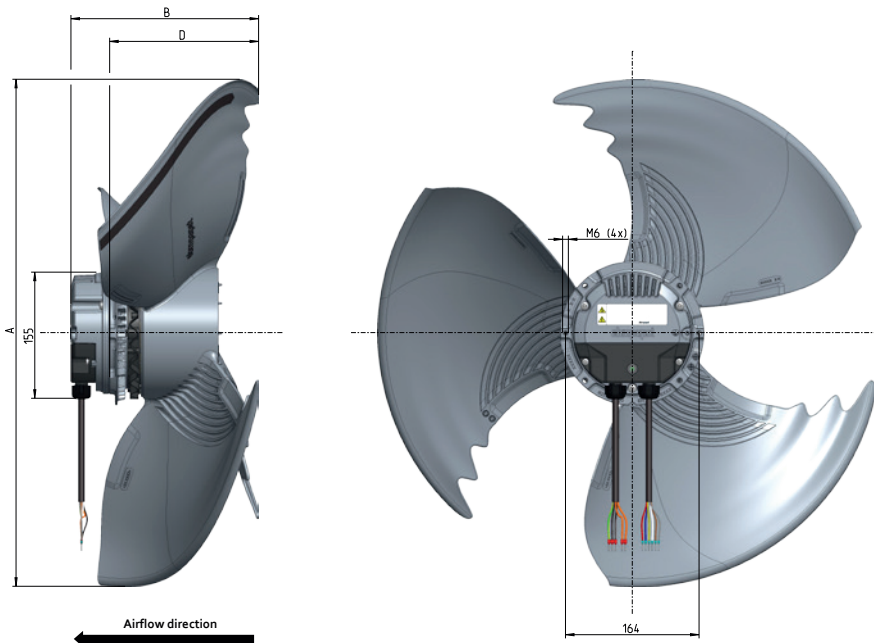
Size	Type	Material no.	Nominal voltage range V	Frequency Hz	Speed rpm	Max. current draw W	Max. power consumption A	Max. back pressure Pa	Permitted ambient temperature °C	Degree of protection IP
450	VVY0450NSNJS	8300101339	1~ 200-240	50/60	1,050	170	1.4	75	-25...+60	54
500	VVY0500NSNJS	8300101403	1~ 200-240	50/60	850	153	1.3	60	-25...+60	54
630	VVY0630NSPLS	8300101412	1~ 200-240	50/60	750	320	1.4	80	-25...+60	54

Preliminary data. Subject to technical changes.

Size 450/500



Size 630



## Dimensions

Size	A	B	C	D
450	450	143	138	128
500	498	149	144	134
630	626	231	-	183

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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