



Movement by Perfection



The Royal League in ventilation, control and drive technology

## MAXvent owlet

Efficient and quiet thanks to unique bionic inspired blades in **ZAmid**<sup>®</sup> Technology

# ZIEHL-ABEGG

Die Königsclass

*der Lufttechnik,  
Regeltechnik und Antriebstechnik*

for  
hnologie





## No one can get passed the Royal League



ZIEHL-ABEGG has stood for movement by perfection in the ventilation technology, control technology and drive technology sectors for more than 100 years. What started with the invention of the first external rotor motor by Emil Ziehl is now being carried on at the company's sites around the world. We are the pioneers, masterminds and developers of technologies for the future which more than satisfy all demands to preserve an environment worth living in and to meet all our customers' requirements and wishes.

Think ahead to the future - discover [ZIEHL-ABEGG](#)

We look forward to seeing you in ventilation, control and drive technologies. Where ideas are the daily challenge and where the latest, outstanding technologies are developed.

Welcome to the best.

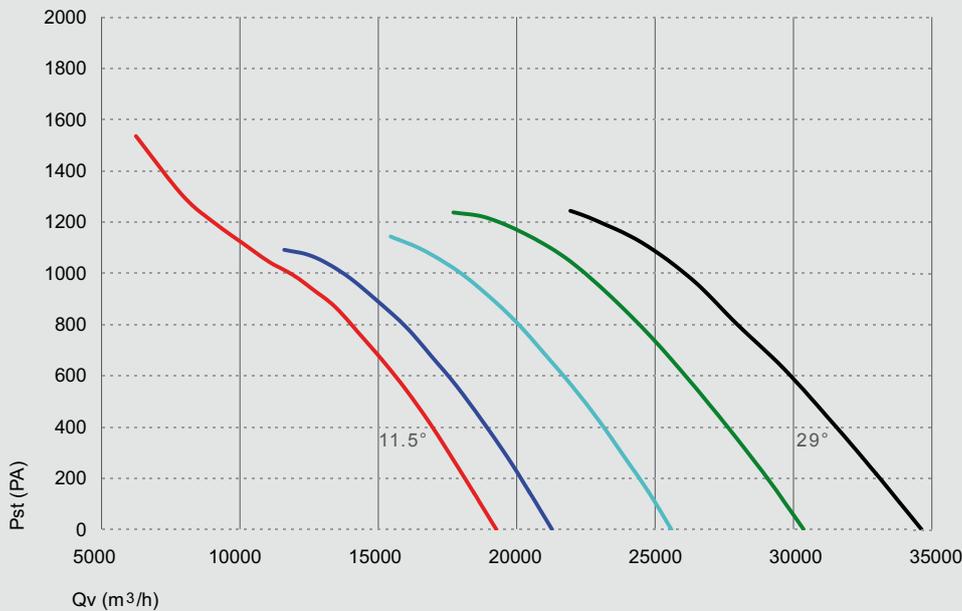
Welcome to the Royal League

# MAXvent owlet

## Medium pressure axial fans with unique bionic inspired blades

A few years ago ZIEHL-ABEGG sets a key innovation milestone by introducing bionic inspired fan blades. Their unique design was inspired by nature, owls' wings providing the inspiration. Now, the third generation of the MAXvent owlet medium

pressure fans is also benefiting from this proven experience. It features low noise emissions with an improvement up to 12 dBA compared with previous models.



DN63V 2 pole long casing  
measured with inlet bell-mouth  
in installation type A according  
to ISO 5801

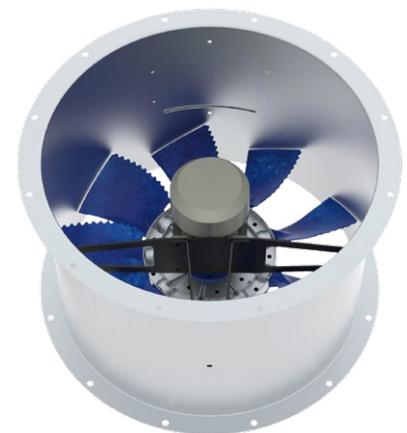
With the same fan size, you get up to 25% more pressure than with the previous generation. In some cases the same pressures can be attained by using a smaller motor size, which reduces initial investment costs.

Thanks to the unique high performance composite material **ZAmid®**, this lighter blades are corrosion-free and allow up to 2200 Pa of static pressure.

### ZIEHL-ABEGG – Eco-friendly and economical

Heavy emphasis was placed on achieving the highest efficiency, enabling the achievement of efficiency increases up to 25%. As a result, the related energy cost savings translate into a Return on Investments of less than 2 years in some cases.

Indeed, the MAXvent owlet family is already compliant with the ErP 2015 Directives – even using IE2 motors. ErP will be mandatory for utilisation in EU member states. With implementing ZIEHL-ABEGG fans, that already exceed tomorrow's requirements, you are always on the safe side.



The new high-tech fan with a unique bionic profile in **ZAMid<sup>®</sup> Technology** for the highest demands of the industry, the highest pressure ranges and uncompromising utilisation opportunities

**„extremely efficient, flexible, reliable, silent“**

- The highest efficiencies, up to 25% better efficiency
- Modular use for both AC and ECblue motors
- Extremely quiet in use – enormous noise reduction (up to eight times quieter)
- Tremendously reduced operating costs
- System competence from a single source
- Factory adjustable blade pitch angle

**Already compliant with the ErP 2015 Directives**



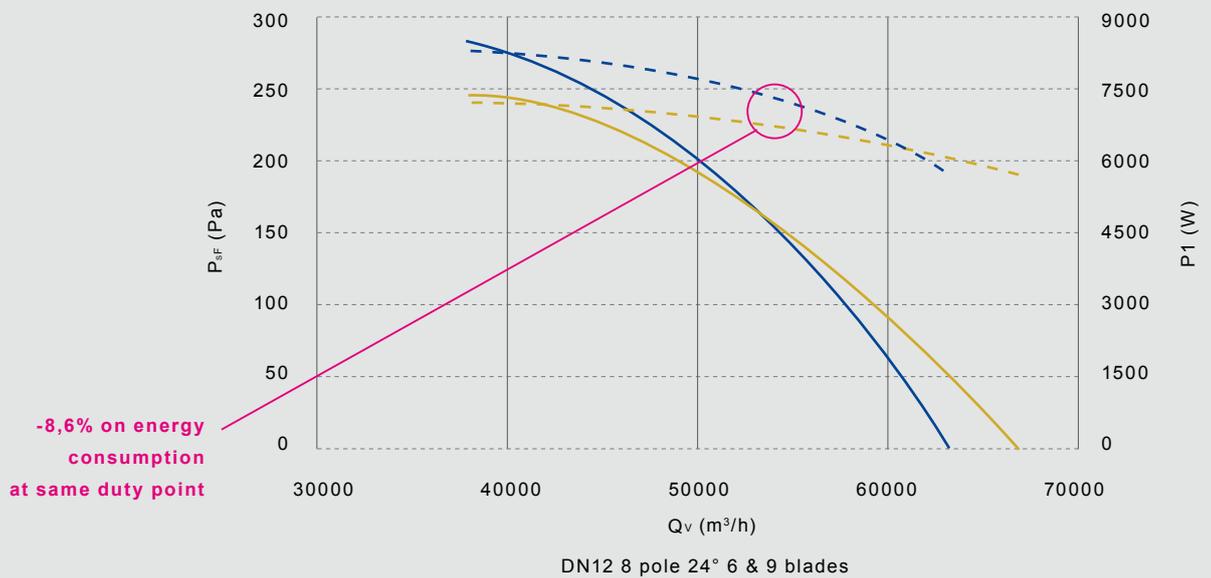
## Designed for flexibility – because integration matters

MAXvent owlet portfolio has been designed to offer the high level of adaptation requested by the wide range of applications covered.



### 6 blades impeller: One step beyond!

- Suitable for the moderate pressure range
- Extra noise reduction
- Lower energy consumption
- Lower weight
- Increased efficiency
- Potential motor size reduction at given duty point
- Lower price



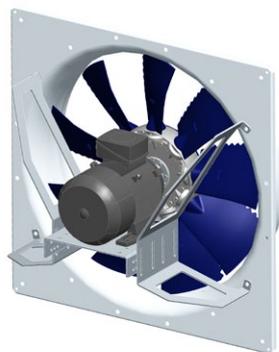
### Innovation in square mounting plate:

- From diameters 500 to 1400 mm
- Ultra-short casing with inlet bellmouth
- Optimized impeller integration
- Eurovent compatibility
- Customized square plate dimension
- Cost saving solution

Bringing to the market a high performances impeller is not just enough as its fan integration will determine at the end its performances.



DN12 to DN14



DN50 to DN10

# Highest level of customization – Because details make the difference

## Unique motors know-how

From the experience of a world leader motor manufacturer.  
A wide choice of internal rotor motor options.

- 60 Hz
- Low temperature
- H-class and tropicalized winding
- Drain holes
- IP 56 or IP 65
- Special corrosion protection
- Non-standard supply voltage



*ATEX compliant fans  
Implementing directive ATEX 94/9 EC and 1999/9 EC*

## Application-specific finishing

Adapted to the degree of protection requested by the application

- Stainless steel & hot-dip galvanized casing
- Additional painting thickness
- Customized color painting
- High corrosion protection level for screws and washers
- Customized fixations
- Special rating plate
- Remote terminal boxes

*Suitable for  
extreme environments*

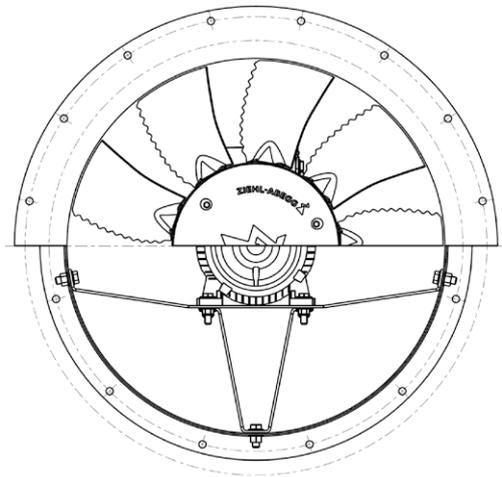
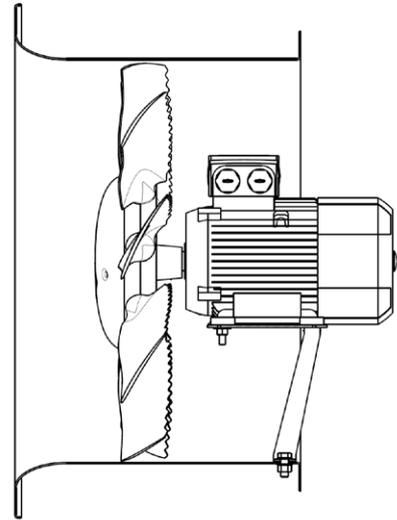


## High flexibility with state of the art performance

MAXvent owlet is a highly flexible family of axial fans with no compromise on specification.

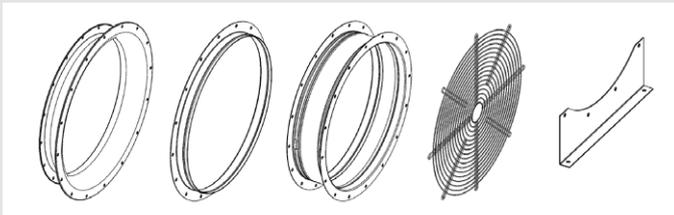
Standard features:

- 13 fan diameters ranging from 315 to 1400 mm, motors are available in 2, 4, 6 or 8 pole configurations\*
- Factory adjustable blade pitch angle to meet the exact duty point requirements
- Short and long housing designed to Eurovent standard
- Square wall ring plate housing
- Normalised asynchronous internal rotor motors (IP55 and energy efficiency class IE2 and IE3)
- Standard operating temperature range from -20°C to 50°C min./max temperatures on request: -40°C ... +80°C
- Capable of providing more than 2200 Pa of static pressure, air flow up to 140 000 m<sup>3</sup>/h



## Accessories

Numerous options including inlet bell-mouth and guard-grilles for maximum modularity:



Please contact us for ECblue motors, frames and stainless steel casing, explosion proof, high temperature or high humidity requirements and specific corrosion treatments.



MAXvent owlet are 100% speed controllable



### Wide range of applications

Condensers, cooling towers, evaporators, dry coolers, blast freezers, agriculture, food processing, drying technologies, cooling of motors and turbines, cooling of transformers and machinery, water treatment, chemical and metallurgic production, railway and ATEX.

With subsidiaries in 30 countries, ZIEHL-ABEGG offers the worldwide coverage requested by OEM industrial customers.



# The Royal League

