EN

Movement by Perfection

The Royal League in **ventilation**, control and drive technology

MAXventowlet

Flexible, powerful
Energy-saving and reliable

ZIEHL-ABEGG

Flexible and powerful

Individual impeller adjustment for the most efficient air delivery

- Blade angle and number of blades optimized and adjusted for the operating point
- Different Blade materials for the most demanding ambient conditions with bionic design for optimised acoustics

Aluminium *ZAmid* *Polypropylene*

Cost-effective over the entire service life thanks to unique motor expertise

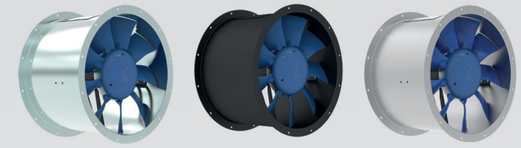
- Motor assignment cost-optimised for the operating point
- Optimised operation AC or EC motor technology
- Maximum motor efficiency levels up to IE5
- 100% speed control and operation with optimally coordinated control technology from ZIEHL-ABEGG

Everything measured to ensure even higher performance and reduced operating costs

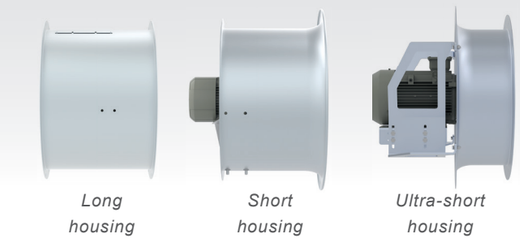
- Maximum pressures and static fan efficiency up to 60% when using guide vanes
- Up to 25% lower power consumption at comparable operating points with a more compact design

Tailored housings for a wide range of operating conditions

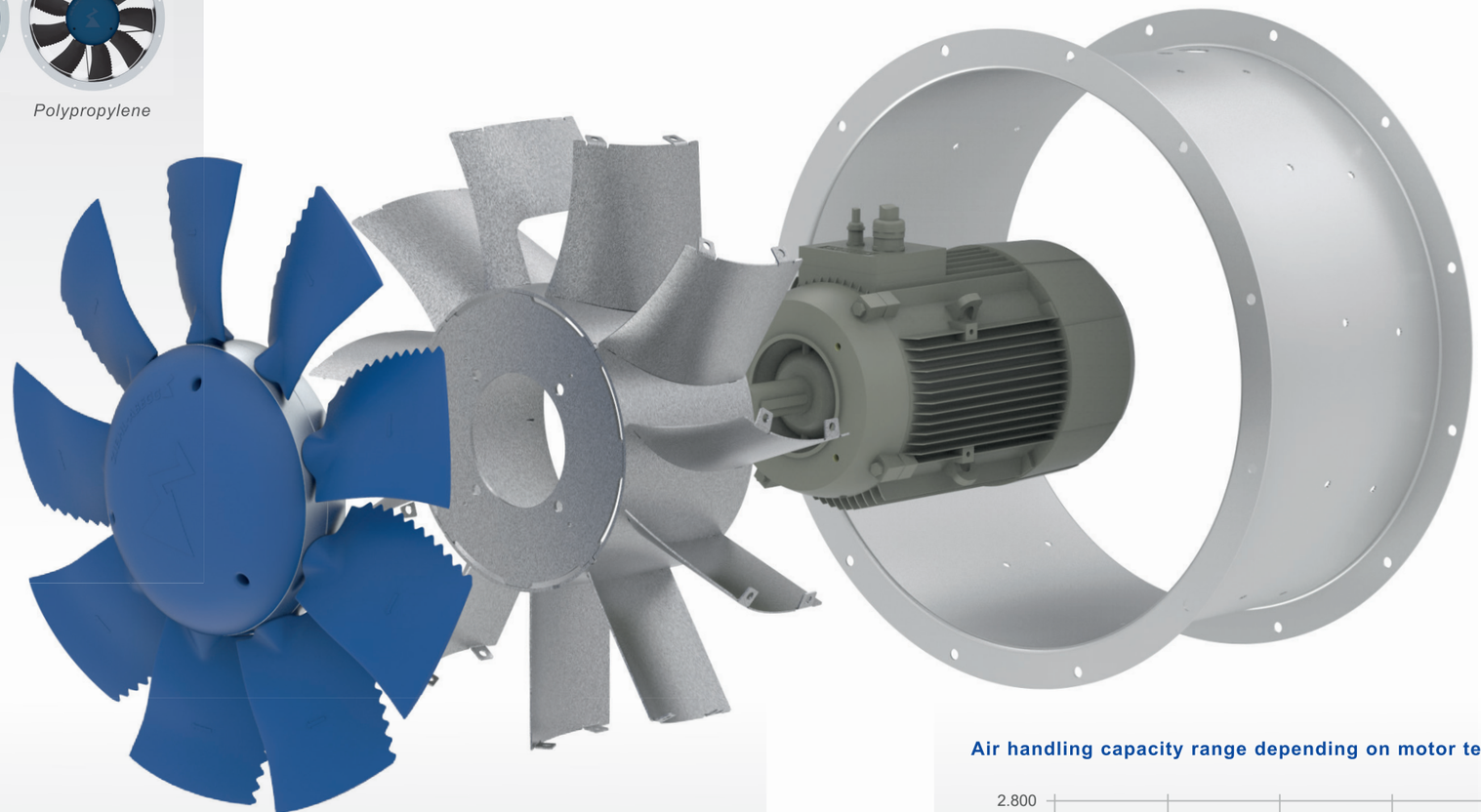
- Modular and individually adaptable housing depending on installation situation
- All 14 sizes from 315 to 1400 in line with Eurovent
- Compact design thanks to different housing lengths
- Robust and durable thanks to appropriate choice of materials, aftertreatments in compliance with corrosion protection requirements or application



Corrosion resistant steel AISI 304L and 316L *Painted galvanised steel* *Hot-dip galvanised steel*



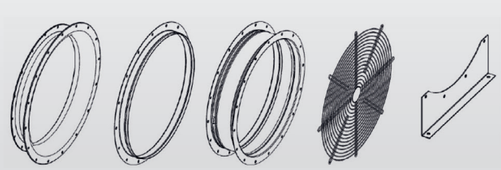
Long housing *Short housing* *Ultra-short housing*



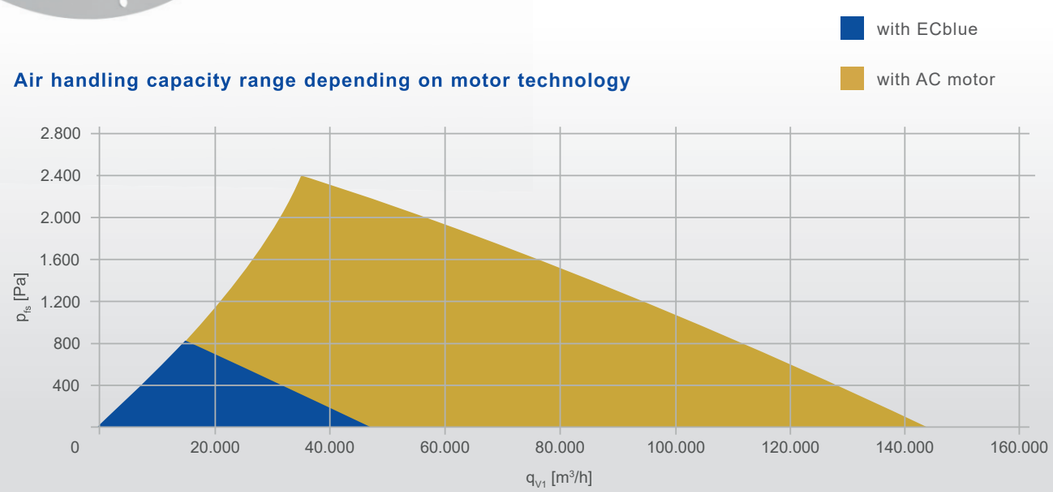
System components

System competence from a single source with numerous accessories for easy installation and maximum reliability.

Please contact us if you would like information about ECblue motors, stainless steel housings, explosion-proof design, use at high temperatures or high humidity, as well as special corrosion treatments.



Air handling capacity range depending on motor technology



Energy-saving

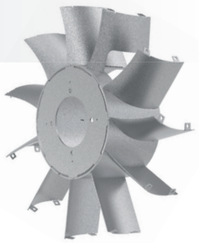
Possibilities for saving energy

MAXventowlet with ECblue

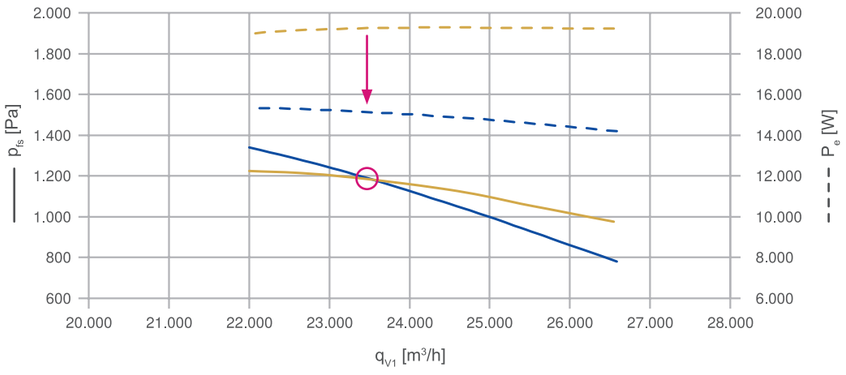
- The most efficient form of drive
- Tremendously reduced operating costs thanks to maximum motor efficiency over the entire speed range
- Easy start-up using MODBUS with auto-addressing
- Minimal maintenance costs thanks to cloud-based remote monitoring of integrated sensors

MAXventowlet with guide vanes

- The most efficient type of flow control
- Impeller and guide vanes perfectly coordinated
- Maximum pressures and efficiency for maximum energy savings and reduced operating costs



Performance comparison with and without guide vanes



Performance curve without guide vanes

Performance curve with guide vanes

Energy savings over 20% at the same operating point when using guide vanes

Energy saving

Potential energy saving per fan at the same operating point with guide vanes

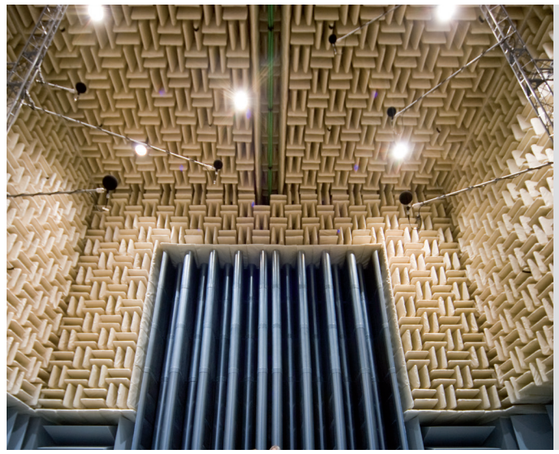
- Energy requirements
  - 19.2 kW without guide vanes
  - 15.2 kW with guide vanes
  - ► 4.0 kW energy saving
- Running time: 12 hours per day
- Energy costs 18.25 cents / kWh*

* Industrial electricity prize in Germany in 2021

Energy savings of more than € 3,000 per fan per year!

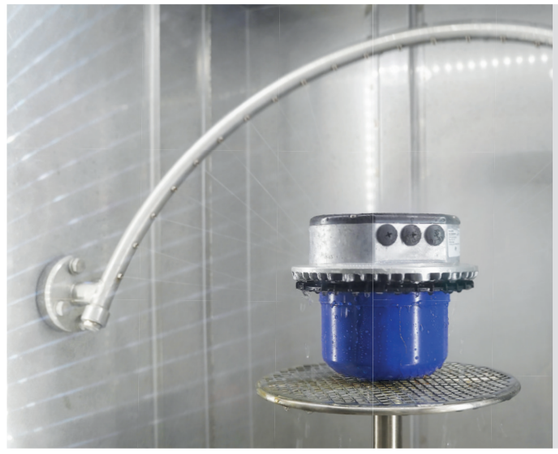
Around 7t CO_2 savings per fan per year!

Reliability



MEASURE

- The world's largest and most accurate laboratory in the industry
- Certified air and acoustic measurements



TEST

- Tested under the toughest environmental conditions
- Tested to its limits
- Dynamic balancing for extremely smooth operation and durability

SHOW

- Over 1,500 standard items, each one showing off its unique performance
- Precise and realistic values
- Certified selection software: FANselect

Diverse applications

MAXventowlet fans can be operated at ambient temperatures between -60°C and 120°C.
A wide range of corrosion protection requirements can be met with appropriate choice of materials combined with aftertreatment, right through to offshore.

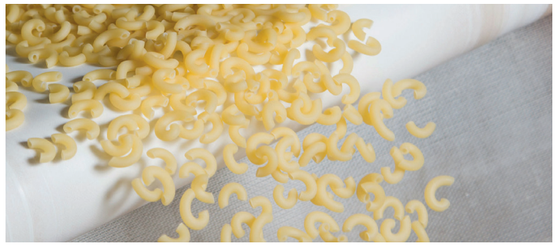
This opens up a wide range of applications – condensers, cooling towers, dry coolers, blast freezers, agriculture, food processing, drying technology, cooling of motors and turbines, transformer cooling, petrochemicals industry, ATEX (category 2 and 3).

Industrial refrigeration

Different housing configurations allow adaptation to any design. For condensers, cooling towers, freezer tunnels, etc. Down to -60°C and humidity of up to 95%.

Wind power

The MAXventowlet series provides a reliable solution for wind turbines and combines high efficiency with excellent corrosion protection for offshore installation.



Food industry

With the option of specially adjustable blade adjustment angles precisely tailored to requirements, MAXventowlet is perfectly suited for use in the complicated food industry.

Railway engineering

Whether it's comfort for train passengers, in the field of freight carriages or railway engineering, MAXventowlet provides professional, quiet-running, economical, reliable air distribution and cooling.

Transformer & container cooling

Specific configurations for transformer cooling, such as housing materials, special voltages, etc. or reduced dimensions as far as 315 mm for cooling containers.

Chemicals and petrochemicals industry

Specially developed to withstand the toughest environmental conditions.
MAXventowlet provides solutions for explosion-proofareas and offshore applications.

The advantages of MAXventowlet

Tremendously reduced operating and maintenance costs
- Highest efficiency levels in conjunction with guide vanes comply with current ErP Directives
- Impeller optimally adjusted to the operating point
- High-efficiency motors up to IE5

Extremely quiet operation
- Impeller with unique bionic blade design
- Optimised inlet nozzle for perfect supply (integrated or available separately)
- 100% speed controllable (AC and EC) for adaptation to varying operating conditions

Completely robust, durable and with maximum data accuracy
- Withstands extreme conditions, as verified in extensive environmental tests
- Measured in the world's largest and most modern fan test rig for acoustics and air handling capacity
- Extremely smooth operation thanks to dynamic balancing on 2 planes

System competence from a single source
- Wide range of installation accessories
- Compatible and coordinated control technology

► Personal consultation worldwide in over 100 sales offices

The Royal League

ZIEHL-ABEGG

ZIEHL-ABEGG SE Heinz-Ziehl-Strasse 74653 Künzelsau +49 7940 16-0 info@ziehl-abegg.com ziehl-abegg.com