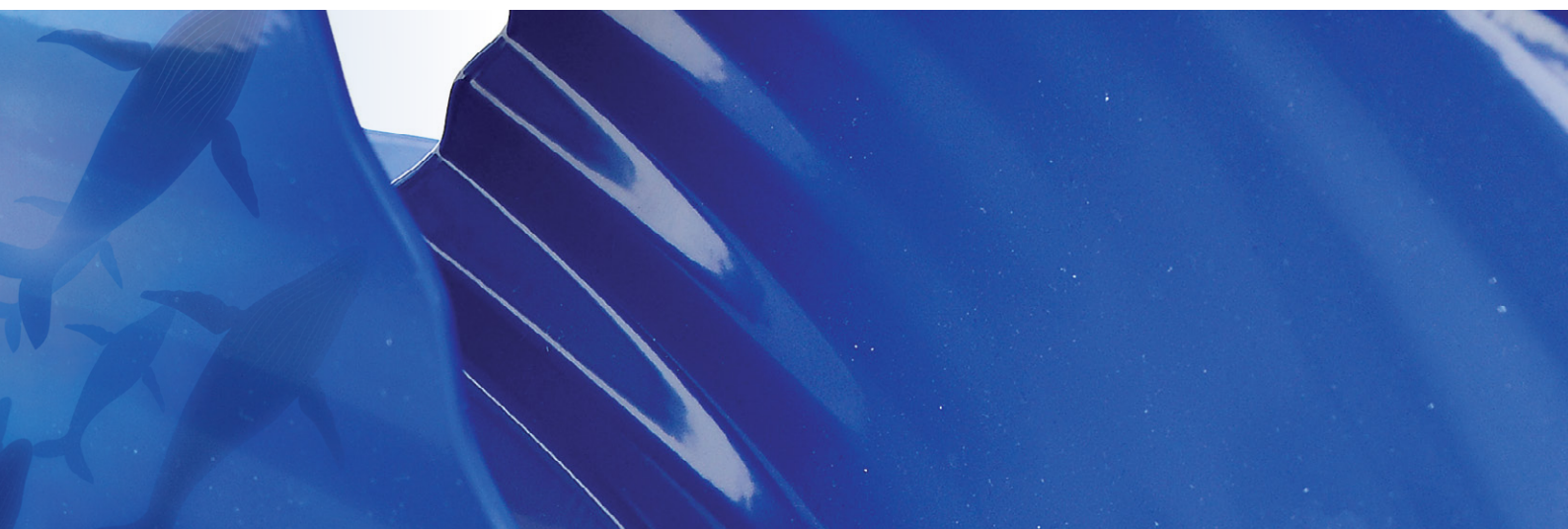


Movement by Perfection



The Royal League in ventilation, control and drive technology



ZA bluefin

Blue steel with depth

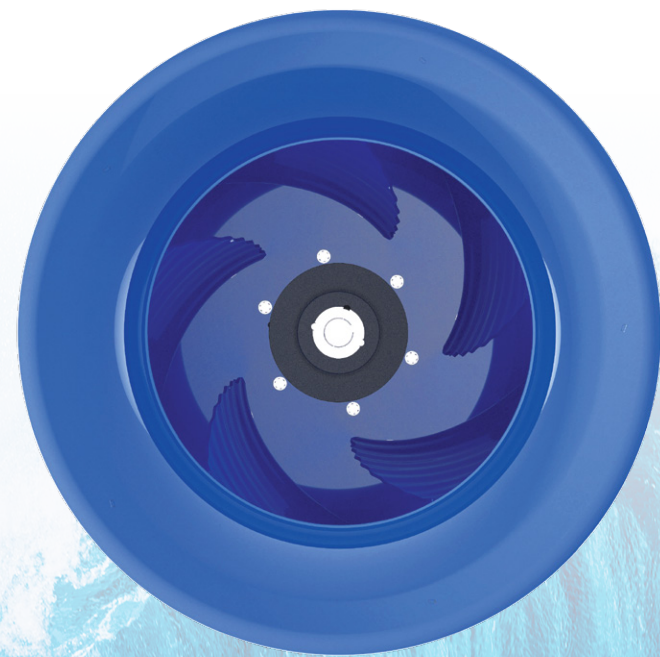
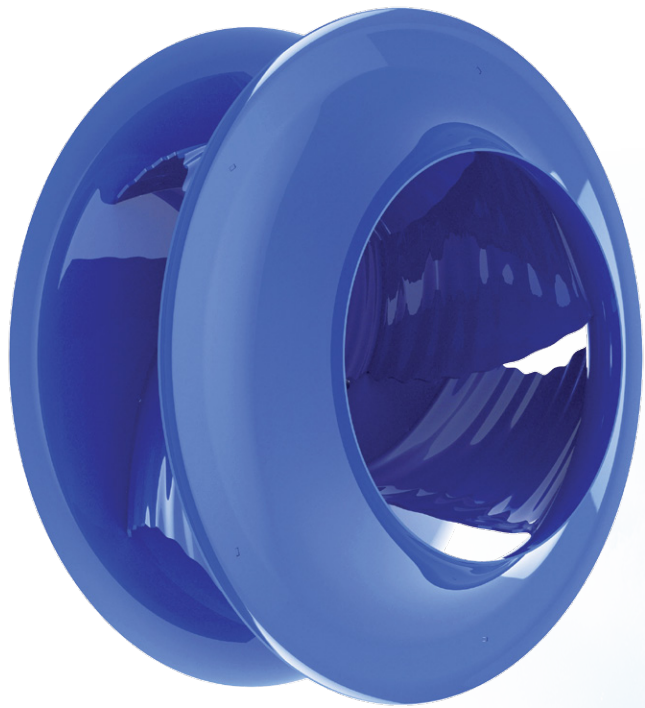
ZA bluefin

Bionic, corrugated, extremely efficient, super-silent

Extraordinary, bionic, airflow optimized and an efficiency increase up to 15% – that makes ZA bluefin and its special blade design to a fan with a sensational performance. According to scientific findings and based on bionic operating principles the corrugated leading edge and the trailing edge of the blade ensure an optimised flow angle, reduced flow separation on the blade surface, for a diffuse sound output and reduced noise.

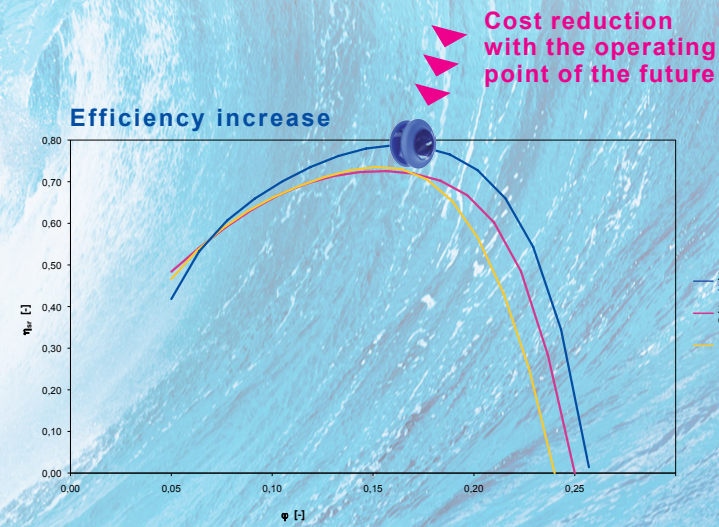
The blue steel rotor is programmed 100% for the future

Always one step ahead the future is the operating point of **ZA bluefin** already exactly adapted on highest efficiency and for that it saves already today in action immense operating costs with unbeatable performance characteristics.



Increase to a maximum with bionic blade design

The blade design of the **ZA bluefin**, which is based on bionic operating principles and with its highly efficient and unusual rotary design is unbeatable in its performance and degree of efficiency.



Bionic advantages at a glance:

Corrugated blade-leading edge - better air performance

- stabilizes the circulation around the blades and ensures fundamentally better air performance even in the event of disrupted ratios of in-blade flow
- enlarges the characteristic curve area without flow separation, significantly expanding the optimal degree of efficiency

Warped blade - optimal angle

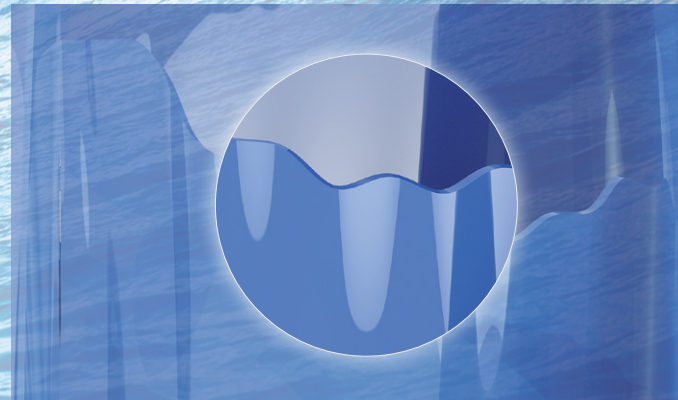
- reduced separation on blade surface raises the peak degree of efficiency
- optimal incident flow into the blade's entry point reduces separation on the blade surface

Corrugated blade structure - for acoustics

- diffuse sound radiation significantly reduces sound power
- connection of the bionic leading edge with the trailing edge of the blade leads to significant noise reduction

V-shaped trailing edge - perfect diffusor effect

- reduces separations on the cover and bottom disks, thus increasing degree of efficiency several times over
- considerable noise reduction thanks to eddy-free outflow



Immediately available in many frame sizes

710

800

900

1000

1120



The blue steel rotor is programmed 100% for the future

- ▶ operating point precisely aligned to highest efficiency
- ▶ deployment offers immense savings in operating costs along with unsurpassed performance characteristics
- ▶ acoustics reduced to a minimum
- ▶ impressive mechanical performance even in cramped installations
- ▶ optimized volume flow extending far beyond market and ErP standards
- ▶ supremely easy installation in ER/GR module construction kits
- ▶ maximum material tensile strength using cold-forming manufacturing

