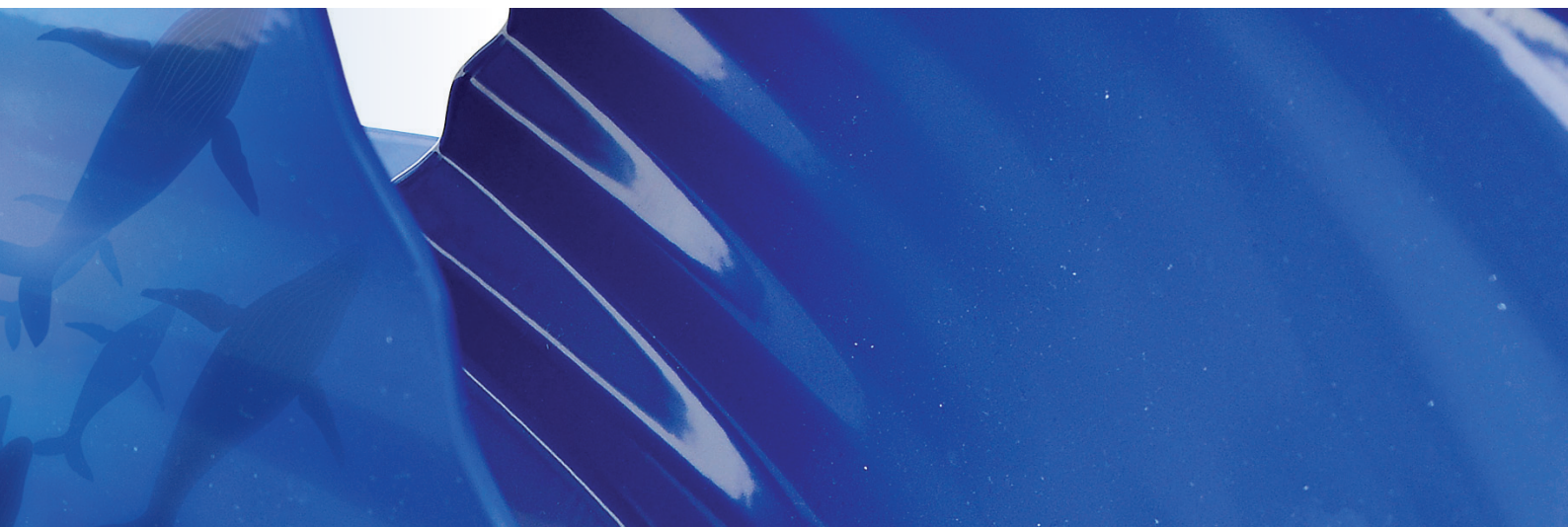


Movement by Perfection



The Royal League in ventilation, control and drive technology



ZA bluefin

Blue steel with depth

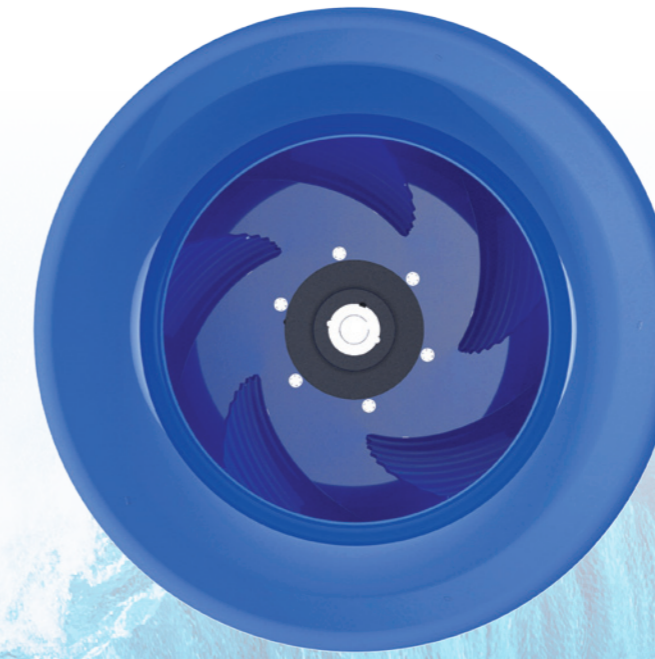
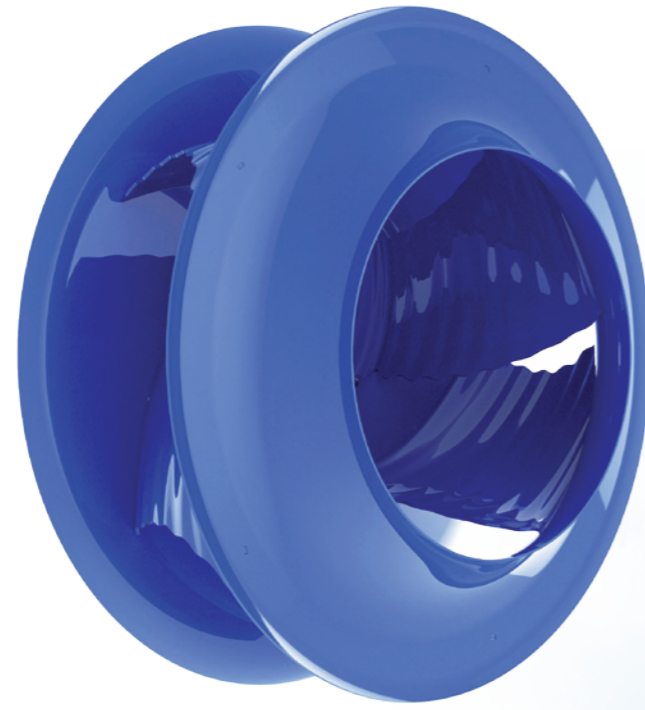
ZA bluefin

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. The corrugated blades – connecting element of the Tubercles (small humps) to the trailing edge – based on scientific knowledge from the depth of the ocean, modelled on the humpback whale, 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

Patterned after the humpbacked whale, the **ZA bluefin** blade design is modeled after the whale's fins, and with its highly efficient and unusual rotary design is unbeatable in its performance and degree of efficiency.

Bionic advantages at a glance:

Tubercle

- 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

Corrugated blade - optimal angle

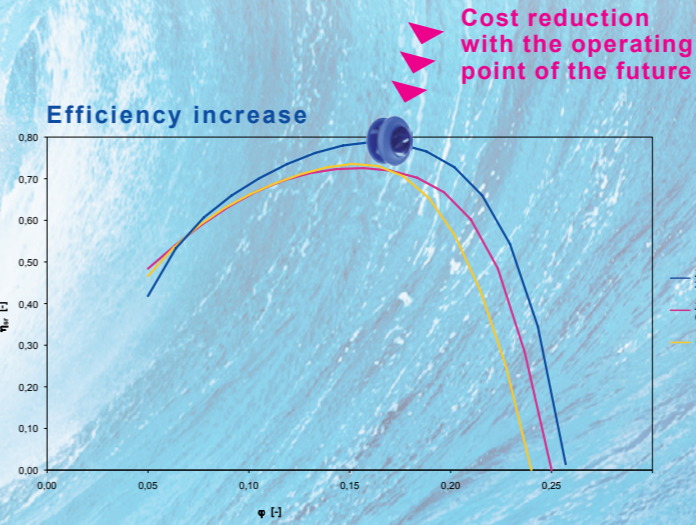
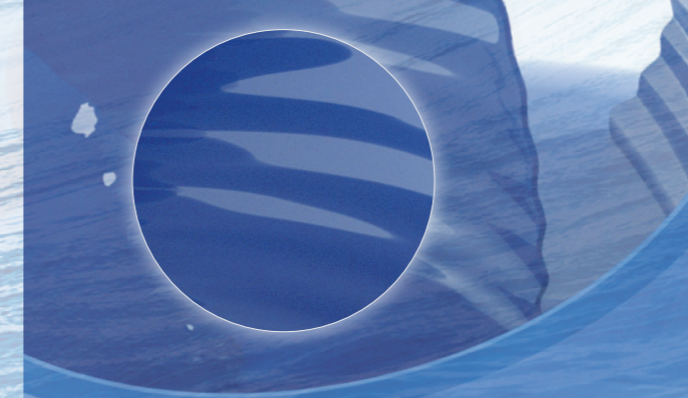
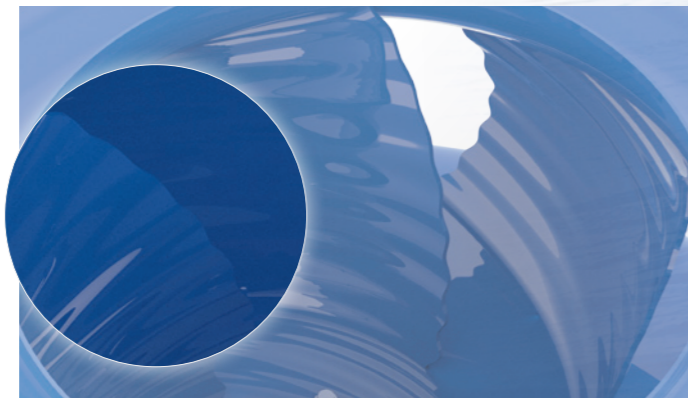
- reduced separation on blade surface raises the peak degree of efficiency
- optimal incident flow into the blade's entry point reduces separation on the blade surface

Twisted blade structure - for acoustics

- diffuse sound radiation significantly reduces sound power
- connection of tubercle to the trailing edge leads to greater 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

