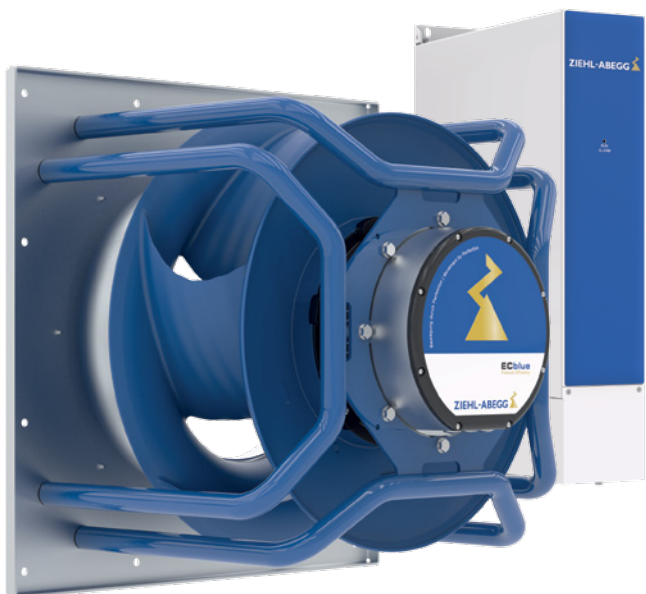


Movement by Perfection



The Royal League in ventilation, control and drive technology



## Harmonics under Control

New fan standard for datacenter –  
compensation of harmonic distortions

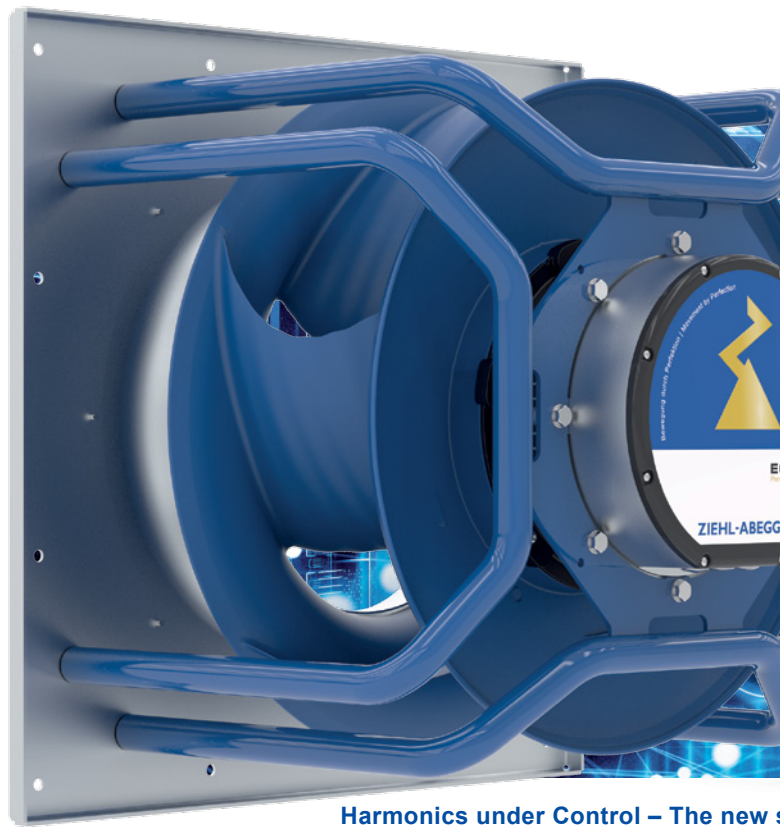
# Harmonics under Control

## New fan standard for datacenters – 3~Power-Factor-Correction - 6kW

The world is holding its breath. The revolutionary power expansion of our intelligent bionic fans with 3~Power-Factor-Correction up to a unique 6kW. The revolutionary power expansion of our intelligent bionic fans with 3~Power-Factor-Correction up to a unique 6kW ensures up to 6kW and a power factor of 99%. The newly integrated power tool in the ECblue motor has HARMONICS UNDER CONTROL and helps the fans to achieve unbeatable system efficiency and customers to achieve enormous potential savings.

Harmonic compensation not only ensures sinusoidal voltage supply, the most reliable safety and failure-free cooling of server systems in datacenter, but also the highest voltage quality with the most efficient effective power up to a unique 6kW, while simultaneously moving away from expensive reactive power.

The Premium Efficiency fans are equipped exclusively with outstanding components for unique output density. This opens up entirely new possibilities for safe and fail-safe air supply, with maximum energy savings, quiet operation and completely climate-friendly and economical operation worldwide.



Harmonics under Control – The new voltage quality - The future of professional

# Harmonic distortion under control up to

## Master of Performance



Optional:  
High-performance active filter station for optimal safety and mains quality

Compact bionic high-tech fan (ZABluefin) with unique system efficiency for permanently energy-saving, climate-friendly and safe operation.

Fans with highly efficient, sinusoidal current consumption

Intelligent ECblue motors with integrated 3~Power-Factor-Correction unique up to 6kW





# Harmonics under Control

## 3~Power-Factor-Correction - 6 kW

Standard intelligent fans from ZIEHL-ABEGG with permanent compensation for the best mains  
cooling for datacenters is secured.

### 6 kW - at all times

### Golden advantages of the new fan standard

- **No more** expensive and non-usable reactive power – now up to **50% saving potential**
- **No more** inefficient power due to current distortion – **3~PFC - 6 kW**
- **No more** uncertainties in cooling and ventilation on all levels
- **No more** defective devices due to voltage distortion



The future for datacenters:  
High-power with integrated  
voltage quality **3~PFC – 6 kW**  
**At all times and without losses**

Bionic fans with integrated, unique

### 3~Power-Factor-Correction – 6 kW

- Safest and most energy-saving ventilation, e.g. for server cooling in the data centres **without auxiliary components**
- **Optional: High-performance active filter station** station for maximum flexibility, mains stability and system efficiency



# The Royal League

