



EURUS III

Stay Cool
stay Smart

Kale Environmental Technology (Shanghai) Corporation A Pioneer in Sustainable Ventilation Solutions

Company Background

Founded in 2010 and headquartered in Songjiang, Shanghai, Kale Environmental Technology (Shanghai) Corporation is China's only listed company specializing in the integrated R&D, production, sales, and service of HVLS (High-volume low speed) fans. With a global footprint, KALE FANS is supported by a world-class technical team dedicated to advancing energy-efficient technologies.

Core Competitiveness

Innovation Leadership: KALE FANS has over 15 years' experience in the HVLS sector over 100+ patents and a self-developed, self-produced motor.

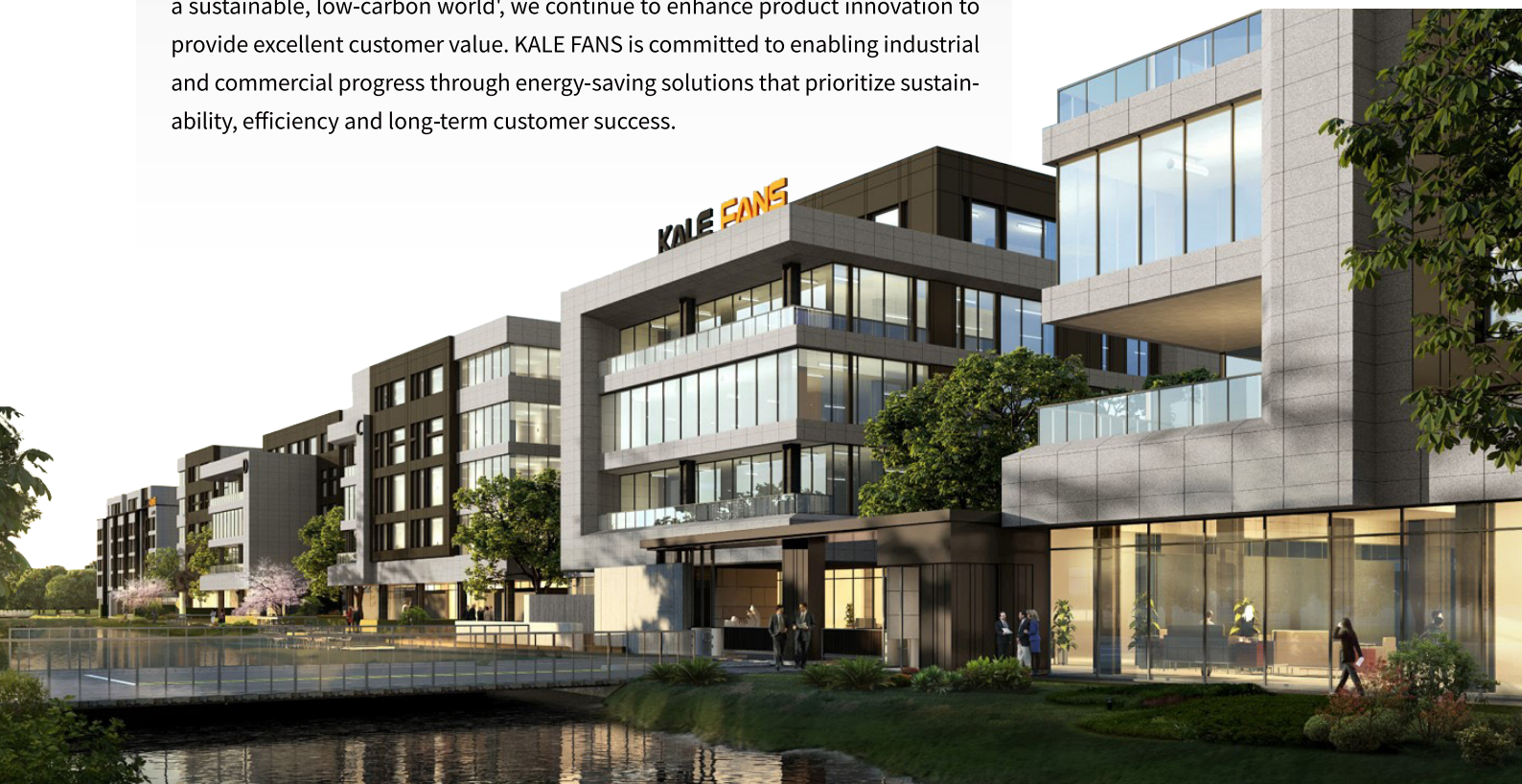
Global Recognition: Certified to international standards (CE, CB, UL, SAA, KC, PSE), ensuring quality, safety, and environmental compliance.

Unmatched Scale: Operates the world's largest HVLS fan production base, including a 80,000m² facility in Jiaxing, Zhejiang, and a 36,000m² R&D hub in Shanghai, enabling tailored ventilation solutions for diverse industrial needs.

Quality Management System: KALE FANS products are with excellent quality and well-developed QMS.

Mission & Vision

Guided by our vision of 'Using technology to improve the environment and build a sustainable, low-carbon world', we continue to enhance product innovation to provide excellent customer value. KALE FANS is committed to enabling industrial and commercial progress through energy-saving solutions that prioritize sustainability, efficiency and long-term customer success.



EURUS III



EURUS III fan features a PMSM (permanent magnet synchronous motor) drive system, diameters ranging from 16ft to 24ft with up to 2,000m² coverage area.

It is the perfect solution for tall and large spaces, such as warehouses, logistics centers, manufacturing workshops, exhibition halls, shopping malls, stadiums and transport hubs, etc.

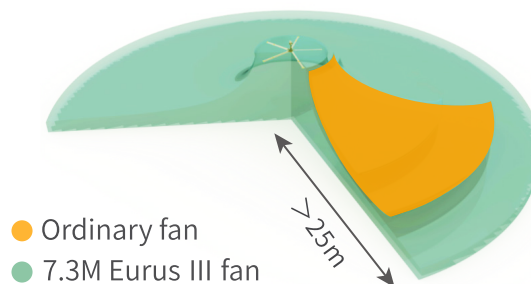
This efficient ventilation and cooling fan promotes excellent air circulation, providing users with a comfortable cooling experience and significantly improving the air quality. Its striking beauty is revealed at a glance!



KEY FEATURES

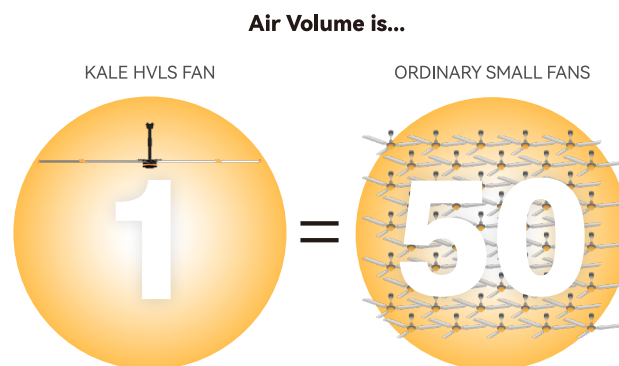
Extra-Large Coverage Areas & Air Volume

- Covers large areas with a single fan up to 2000m².
- Large diameter (up to 7.3 meters) moves massive air volumes at low speeds, ensuring air distribution across high and large spaces.
- EURUS III fan's full-load air volume is 933,000 m³/h. This exceeds the air volume of most products on the market by over 30%.



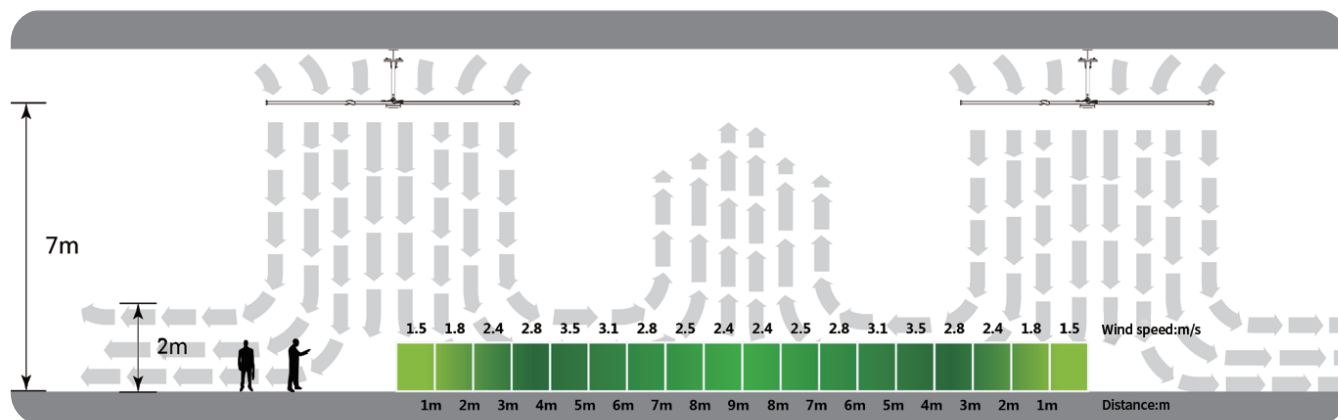
Excellent Energy Saving

- EURUS III fan's air volume is equivalent to more than 50 units of 0.75m powerful small fans.
- A 7.3 m EURUS III fan with 2000m² coverage area only 1.5 kW electricity.



Comfortable Natural Breeze

Large volume, three-dimensional natural breeze is more comfortable and healthier than mechanical ventilation.



Eliminate Hot and Cold Stratification

Low-speed operation eliminates heat accumulation on the roof. It can be used in multiple seasons.

Danfoss Control Box

The key electrical components are sourced from well-known international brands that are synonymous with reliability, such as Danfoss and Schneider.

Stable quality, KALE FANS has been equipped with the Danfoss control boxes for over ten years.



KEY FEATURES



Advanced PMSM Technology

Patented external rotor structure

EURUS III fan uses an industry-unique external rotor PMSM (permanent magnet synchronous motor). Using AI genetic algorithms to optimize the motor's electromagnetic parameters and structural dimensions in a multi-objective way, making it more efficient. Ultra-low noise levels (<40 dB)



Large torque & premium heat dissipation

EURUS III fan motor's solid foundation of large air volume and coverage area is due to NdFeB rare-earth magnets, 99.99% pure copper wire.

With a maximum torque of 300 N·m, the EURUS III fan motor delivers a more consistent airflow. This enables it to achieve a full load air volume of 933,000 m³/h — more than 30% higher than similar products on the market.

During the operation of Eurus III fan, internal heat is first transferred to the heat sinks via aluminium heat-conducting barrels. With a total area of 2.16 m², these heat sinks greatly increase the rate of heat dissipation.



Maintenance free & low maintenance cost

No gearbox, no exposed transmission parts, eliminating gear oil replacement, parts wear and maintenance, reducing the risk of working at height and labor costs.



Super protection & long life

EURUS III fan has a patented sealing structure that provides IP55 protection against dust, water and corrosion.

The double bearing support and full sealing design prevents lubricant ageing and enables operation in high-temperature, high-humidity and other harsh conditions.

The service life exceeds 100,000 hours.



Fan Blade

- With multiple size configuration EURUS III fan can be applied both in big open spaces and narrow spaces.
- Equipped with new fan blades that deliver enhanced air speed performance in the 1.6-2m high wind zone.
- KALE FANS blades have a new fixing structure with built-in safety parts. The two-set reinforcement design provides better rigidity and multi-dimensional security.

1. Aviation magnesium aluminum alloy, dovetail power fan blade

High-efficient fan blade design

KALE FANS unique fan blade with solid-curve-ending greatly improves the air generation performance.

Winglet guarantees the safe and stable operation by reducing the fan blade vibration.

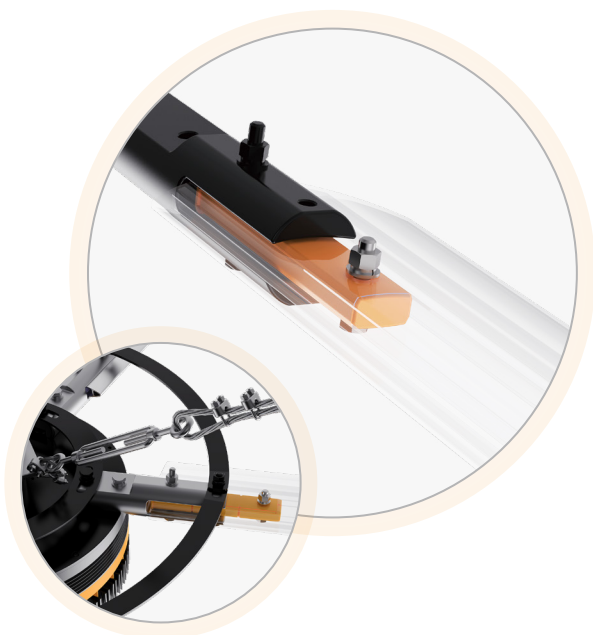
Unique chamber design

6 strengthen ribs with up to 4mm thickness within blade chamber, significantly reduce the blade amplitude during fan operation and allow fans to fit into narrow spaces.

Long service time & corrosion-resistant

Made of high-strength aerospace magnesium-aluminum alloy (6063-T6)

The surface of the fan blade adopts electrostatic spraying process, which is corrosion-resistant, enables the usability in harsh scenarios.



2. External connector & internal safety part system

Super strong load-bearing

KALE FANS thickened external connector with internal safety part withstands 300KG weight.

Double protection

1.The external connector is made of aviation hard aluminum 7075-T6, with a tensile strength of 595 MPa.

2.Safety internal connector: wear-resistant & silent.

Millions of times tested

KALE FANS blade system stands more than a million times of overload fatigue experiments, overcomes the problem of long-term operation metal fatigue and brings you a long-lasting and stable excellent experience.



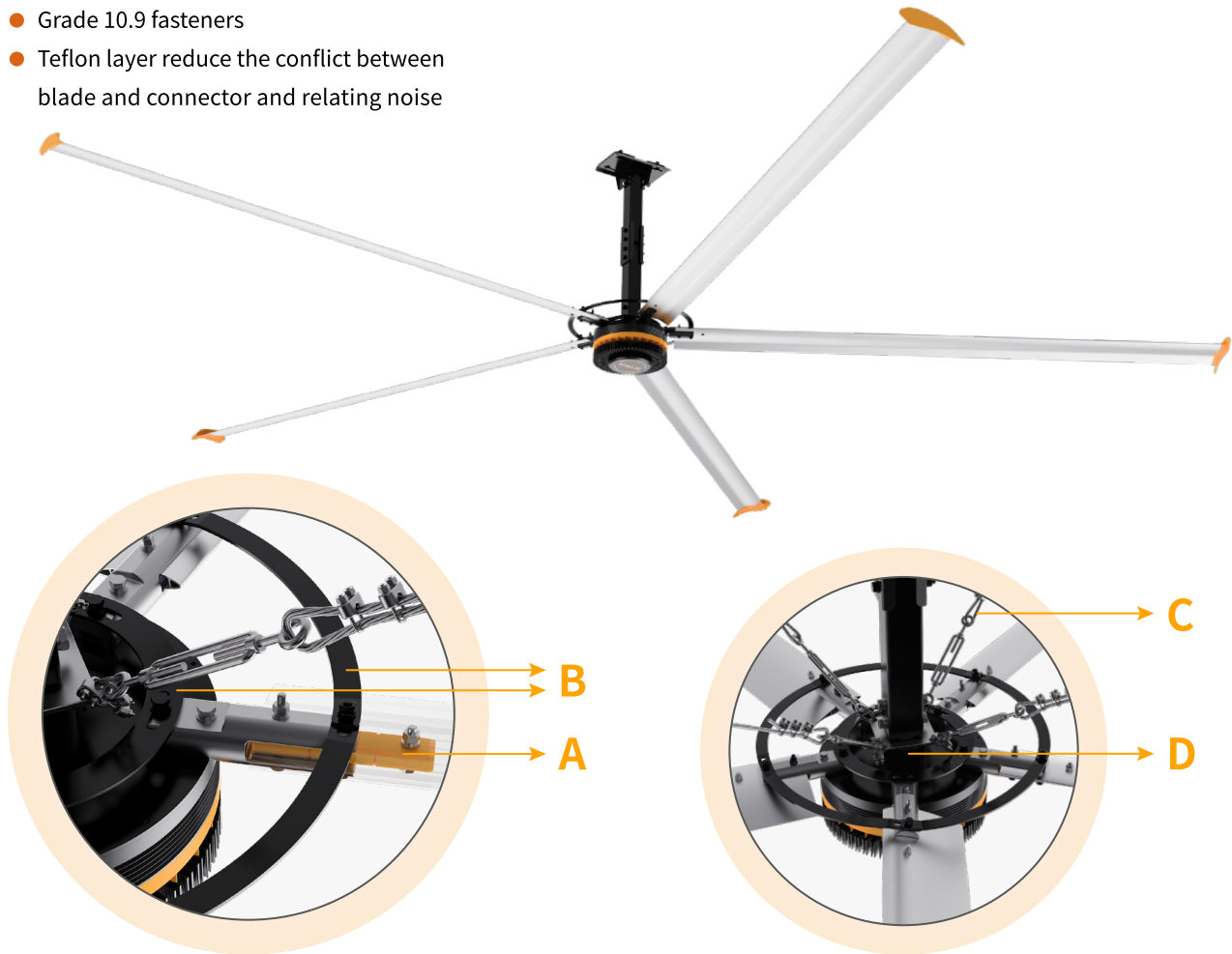
The safety strategies for Eurus III fans can be divided into 4 parts. Firstly, the blade connector system and 2 sets blade retainer ensure that the blades of the Eurus III fans can be firmly installed on the motor. Moreover, the Motor anti-fall system and steel guy wires system ensure that even if a severe impact occurs, Eurus III fans still will be firmly mounted on building structure as a whole unit.

A Fan Blade Connector System

- 7075-T6 high strength aviation magnesium aluminum alloy external connector
- Internal safety bar with plastic over (6063 aluminum alloy & PA66 plastic)
- Grade 10.9 fasteners
- Teflon layer reduce the conflict between blade and connector and relating noise

B Two Sets Blade Retainer

- Blade retainer *5 pieces
- Safety ring connects the 5 fan blades into one unit



C Steel Guy Wire System

- 4 sets of steel guy wires & 1 set steel safety rope (over 1 tons force limit) are used to connect the motor to the building structure firmly, provide an extra safe for the fan.
- 3 pairs of buckles at both ends of steel guy wire for secure fastening.

D Motor Anti-fall System

- Using 4 groups of high strength separated fasteners. Make sure even one fastener is broken, the remaining 3 fasteners can still work.
- The fasten nut connects wire reel with motor shaft firmly.
- The latch provides additional protection against fasten nut failure.
- The shaft integrated hub can hold all fallen parts even bearings are broken.

TECHNICAL PARAMETERS AND CERTIFICATIONS

Model	Size	Air volume	Max speed	Fan weight	Power	Full load current
HVLS-D6AAA73	24ft(7.3m)	15550m ³ /min	54RPM	124kg	1.5kW	4.9A/220V
HVLS-D6AAA61	20ft(6.1m)	14650m ³ /min	62RPM	120kg	1.1kW	4.4A/220V
HVLS-D6AAA55	18ft(5.5m)	13800m ³ /min	68RPM	112kg	1.0kW	4.2A/220V
HVLS-D6AAA49	16ft(4.9m)	12670m ³ /min	76RPM	108kg	1.0kW	4.0A/220V



CE Marking
(EU Compliance)



KC Certification
(Korea Safety)



SAA Certification
(Standards Association of Australia)



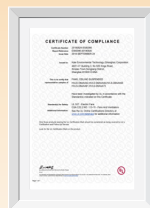
CB Scheme Certificate
(International Safety)



PSE Certification
(Japan Safety)



UL
CB Scheme Certificate
(International Safety)



APPLICATIONS



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Industrial:

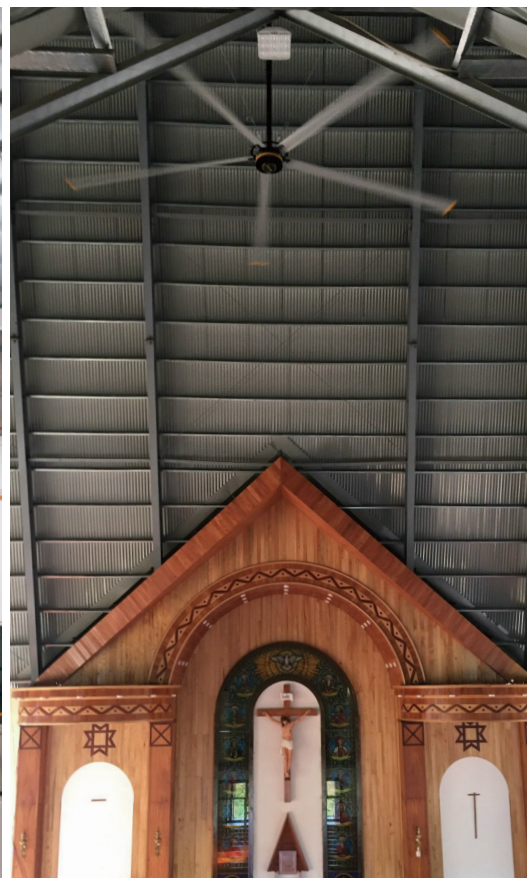
Warehouses, Manufacturing plants, Logistics centers

Commercial:

Shopping malls, Airports
Church, School

Agricultural:

Livestock barns, Greenhouses,
Equestrian arenas





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