



AIRFREE
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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), 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.



AIRFREE VIBEBEE



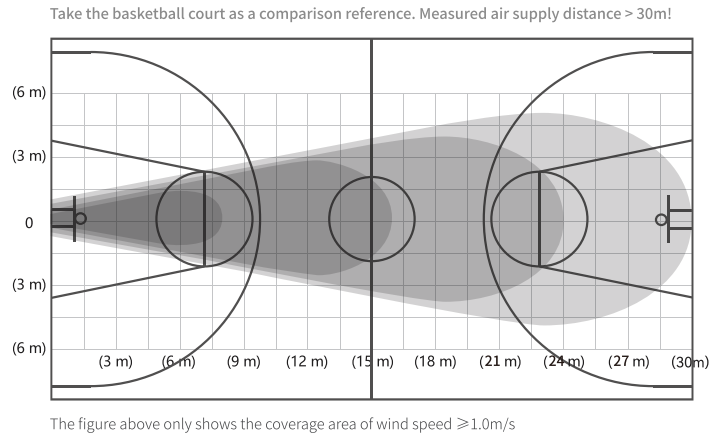
Airfree fan is an energy-saving, wall-mounted fan with a diameter of 2 meter and a wind delivery distance of more than 30 meters, which can even cover an entire basketball court. It uses a high-efficiency PMSM motor and is suitable for various environments such as industry, commerce, and animal husbandry, perfectly solving the problem of warehouse air circulation or keeping livestock cool.



KEY FEATURES

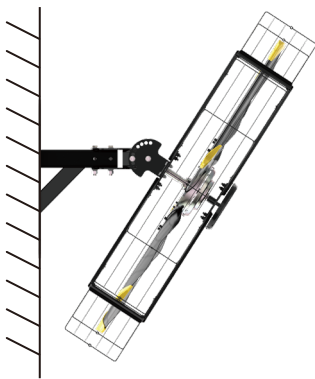
Long Air Distance

Airfree fan features an exceptionally long air supply distance, with an effective wind range that extends beyond 30 meters.



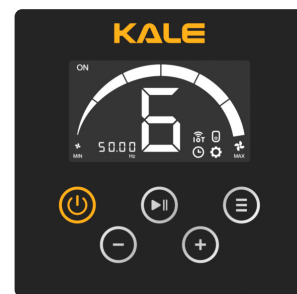
Flexible Installation Methods

- Optional wall and column installation
- The direction of the air supply can be adjusted according to the needs of the site environment.



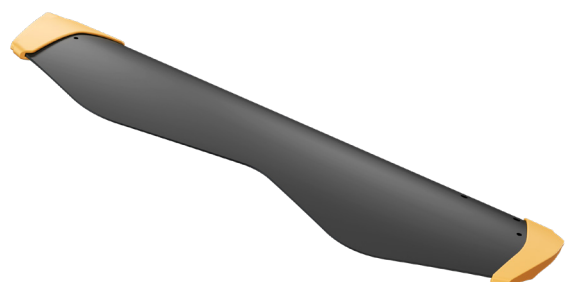
Variable Speed Control

Equipped with 6 speed control, allowing users to adjust the airflow intensity according to their personal preferences and comfort levels.



Fan Blade

Made of high-strength aerospace magnesium-aluminum alloy (6063-T6). The surface of the fan blade adopts electrostatic spraying process, which is corrosion-resistant. Airfree fan's unique blade design, with its solid curved end, greatly improves air generation performance. The winglet guarantees safe and stable operation by reducing blade vibration.



KEY FEATURES



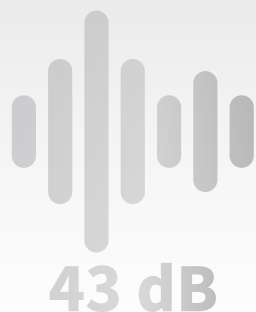
Advanced PMSM Technology

Quality stability & Ultra-quiet

The fully enclosed PMSM motor perfectly solves the problem of motor gear friction, reducing the noise level to below 43 dB and making it very quiet.

NdFeB Rare-Earth magnets, copper wire with 99.99% purity grade.

Airfree fan's external rotor motor provides high torque for high airflow and coverage.



Waterproof & Dustproof

Airfree fan is waterproof and dustproof that can operate normally in rainy and humid environments.



Maintenance free

No gearbox, no exposed transmission parts, PMSM motor technology eliminates the need for regular maintenance, such as lubrication and gear adjustments, making the fans more reliable and cost-effective in the long run.

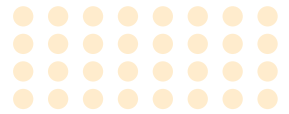


Energy efficiency

With a total power of only 0.55 kW, the Airfree fan operates with minimal energy consumption, resulting in cost savings.



CONTROL SYSTEM



Kale Standard Controller



- IP54 Water-proof & Dust-proof
- Self-design by KALE FANS, especially designed for HVLS Controller
- Terminals for BMS/Fire Alarm

Local Centralized Control Solution

● Overview

Multi-device control: Remote control and monitoring of multiple devices.

- RUN/STOP status and operation speed adjustment of fans can be controlled with the following functions:

Timing function (Daily/Weekly)

Countdown

Temperature control

Constraint:

Up to 30 units

Distance between master controller and sub-controller should < 2km

Signal can pass through up to 2 solid walls

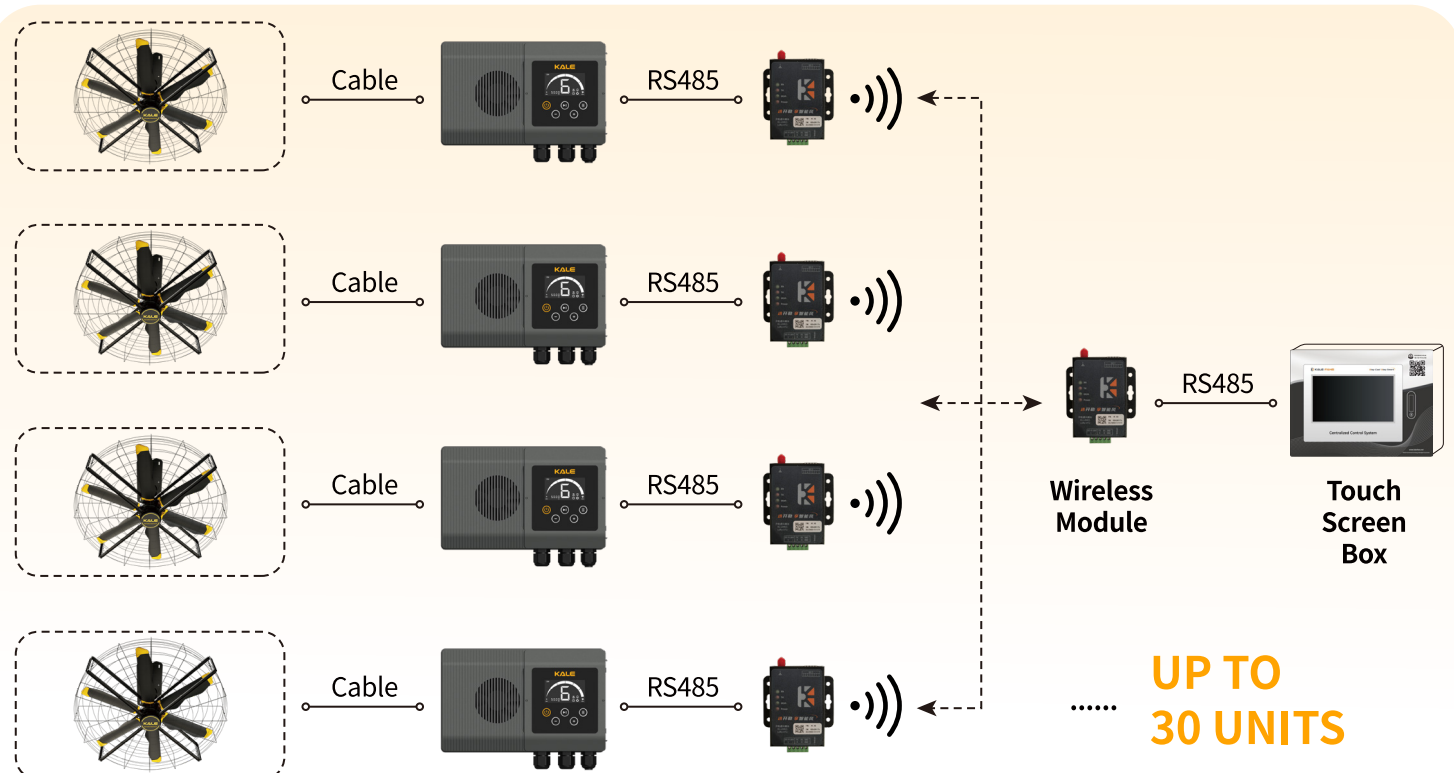


Master controller

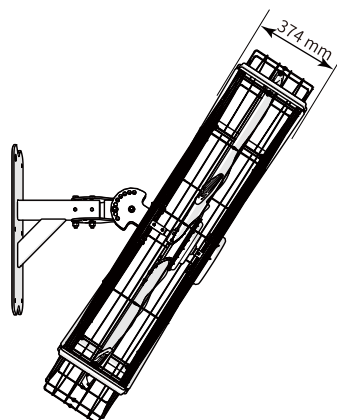
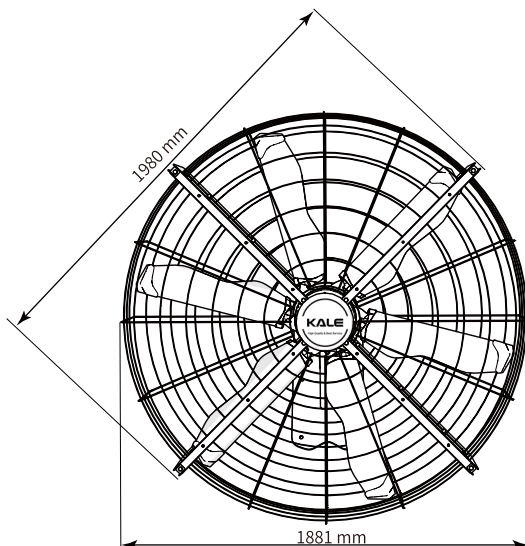


Sub-controller

Control System Diagram



TECHNICAL PARAMETERS AND CERTIFICATIONS



Model	SHVLS-G6BAA20
Dimensions(WxHxD)	1980mm x 1881mm x 374mm
Max speed	320RPM
Full load air volume	1208m ³ /min
Motor	PMSM
Motor Power	0.55kW
Full-load current	2.7Amps/220V
Sound Level(maximum speed)	43dBA
Weight	136KG



CE Marking
(EU Compliance)



APPLICATIONS

● **Industry:**

Manufacturing plants, High-speed rail maintenance base, Auto-workshops, Logistics & warehousing

● **Entertainment:**

Amusement park, Playground
Zoos & arboretums

● **Sports:**

Fitness, Gym, Volleyball court,
Basketball court





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