



AIRCOOL

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, SAA, PSC), 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.



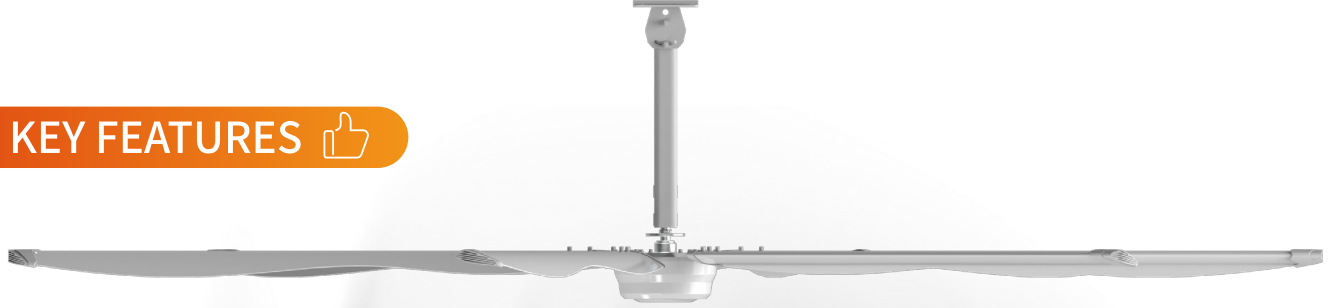
AIRCOOL



Aircool represents a significant advancement in air circulation technology, offering a blend of efficiency, comfort and aesthetic appeal. Aircool fan is designed to provide high-volume, low-speed airflow, making them ideal for a wide range of applications, from residential to commercial spaces.



KEY FEATURES



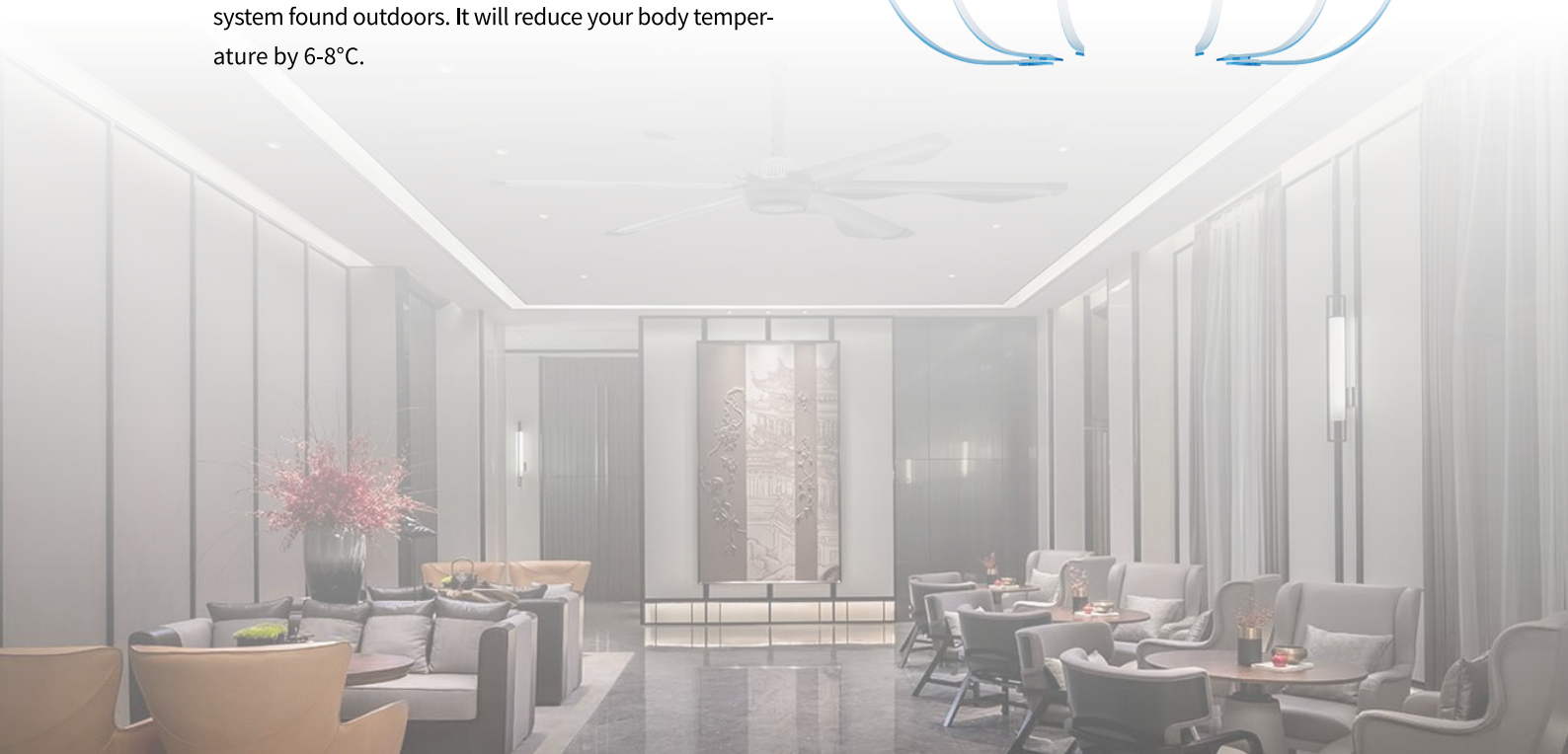
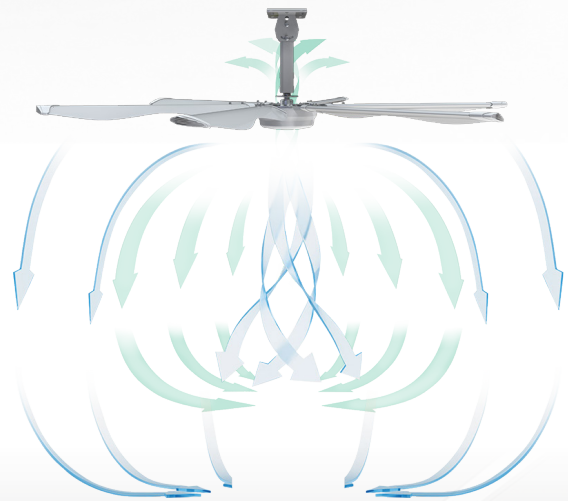
Large Coverage Area

With an airflow of up to $7,550 \text{ m}^3/\text{min}$, the Aircool fan (4.2m) is 25 times more powerful than a traditional residential fan.

Creating a Comfortable Experience

Promote efficient air circulation, creating a comfortable environment by reducing temperature stratification and refreshing indoor air.

When you stand beneath the Aircool fan, you'll experience multi-directional airflow, akin to the natural breeze system found outdoors. It will reduce your body temperature by $6-8^\circ\text{C}$.



KEY FEATURES



Advanced PMSM Technology

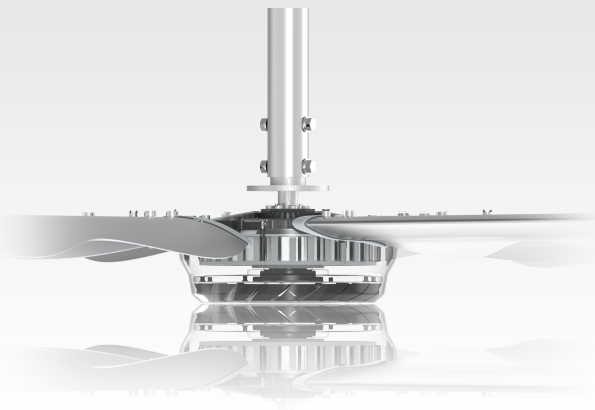
Silent operation

- The PMSM motor is fully enclosed and there are no transmission gears or noise.
- The low RPM feature prevents body vibration.
- Lower noise and higher efficiency than traditional fans.
- Designed to run smoothly and quietly, with noise levels as low as 40dB(A), making them suitable for environments where noise control is essential.



Maintenance free & low maintenance cost

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.



Safe and reliable & long life

- Aircool fan has a patented sealing structure, offering IP65 protection against dust, water and corrosion.
- These protective measures ensure the safe operation of the motor in extreme conditions.
- Stable operation for 24 hours, with no failures throughout the year.



Energy efficiency

The unique external rotor design of PMSM technology eliminates the need for a reduction gearbox, thereby improving transmission efficiency. Operating at speeds ranging from 72 to 150 RPM.

Spare parts

The highest quality parts and components are used in our motor, which have been tested rigorously and repeatedly to ensure their reliability.

- NdFeB magnets
- SKF Bearing
- Purity $\geq 99.97\%$ copper wire





Fan Blade

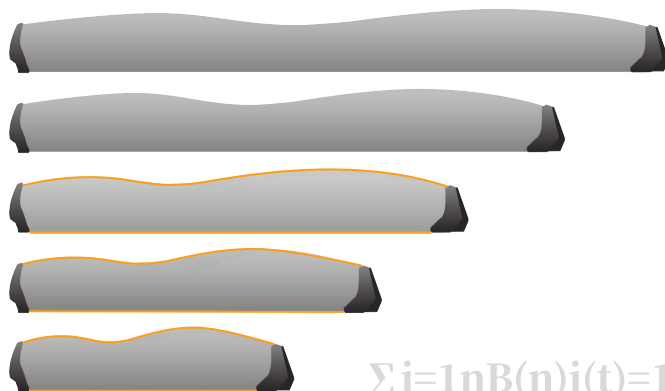
Fan blade fluid surface design

Aircool fan features a new blade design. Using organic shapes and asymmetrical lines, among other aesthetic elements, it creates a smooth, lively and tense visual effect with a modern feel.



Bates curve

The Bates Curve fan blade design is optimised and inspired by the mathematical Bates Curve. It has a larger area on the outside, which allows for an effective increase in fan airflow.



$$\sum_{i=1}^n B(n) i(t) = 1$$

Various Color Schemes

Aircool fans are available in a wide range of colors.



■ White



■ Silver



■ Black

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

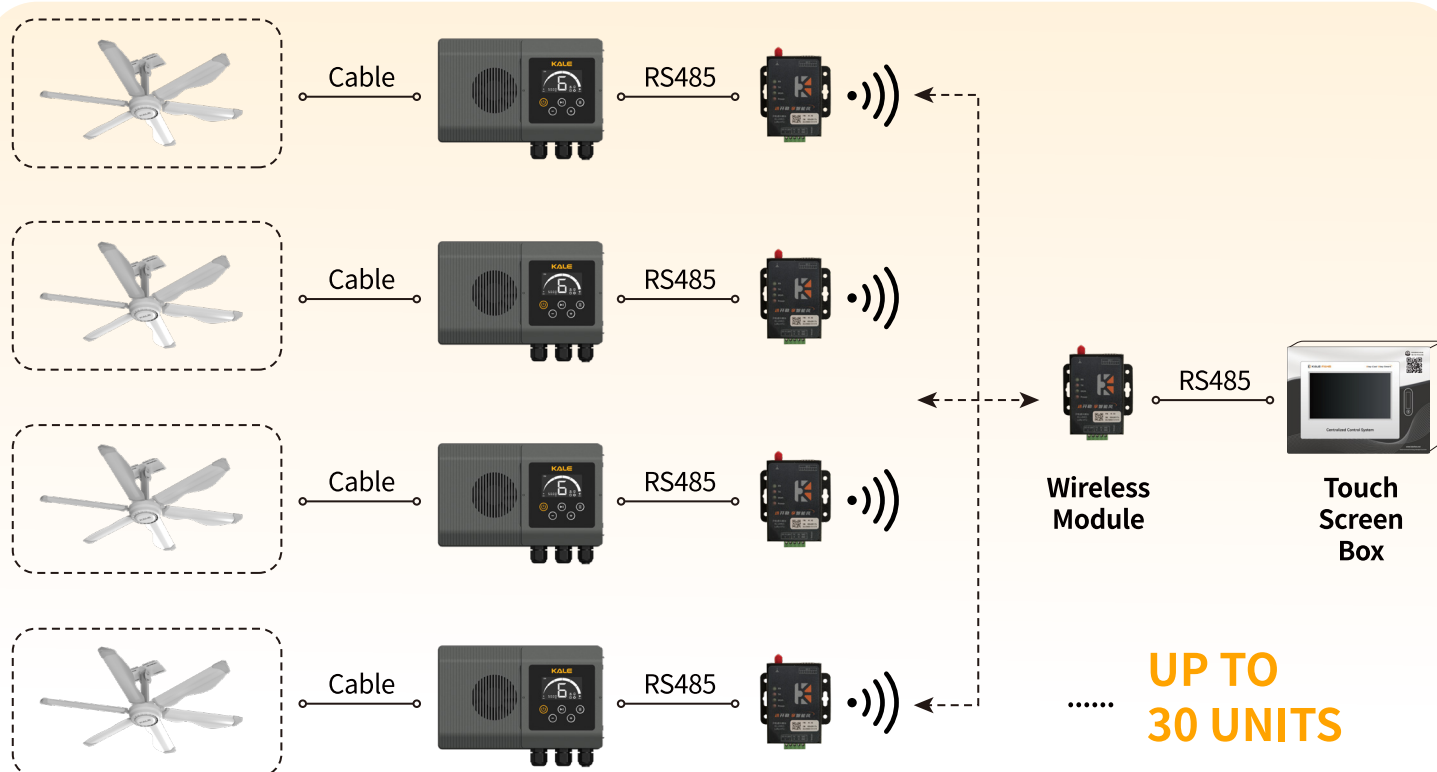


Master controller



Sub-controller

Control System Diagram



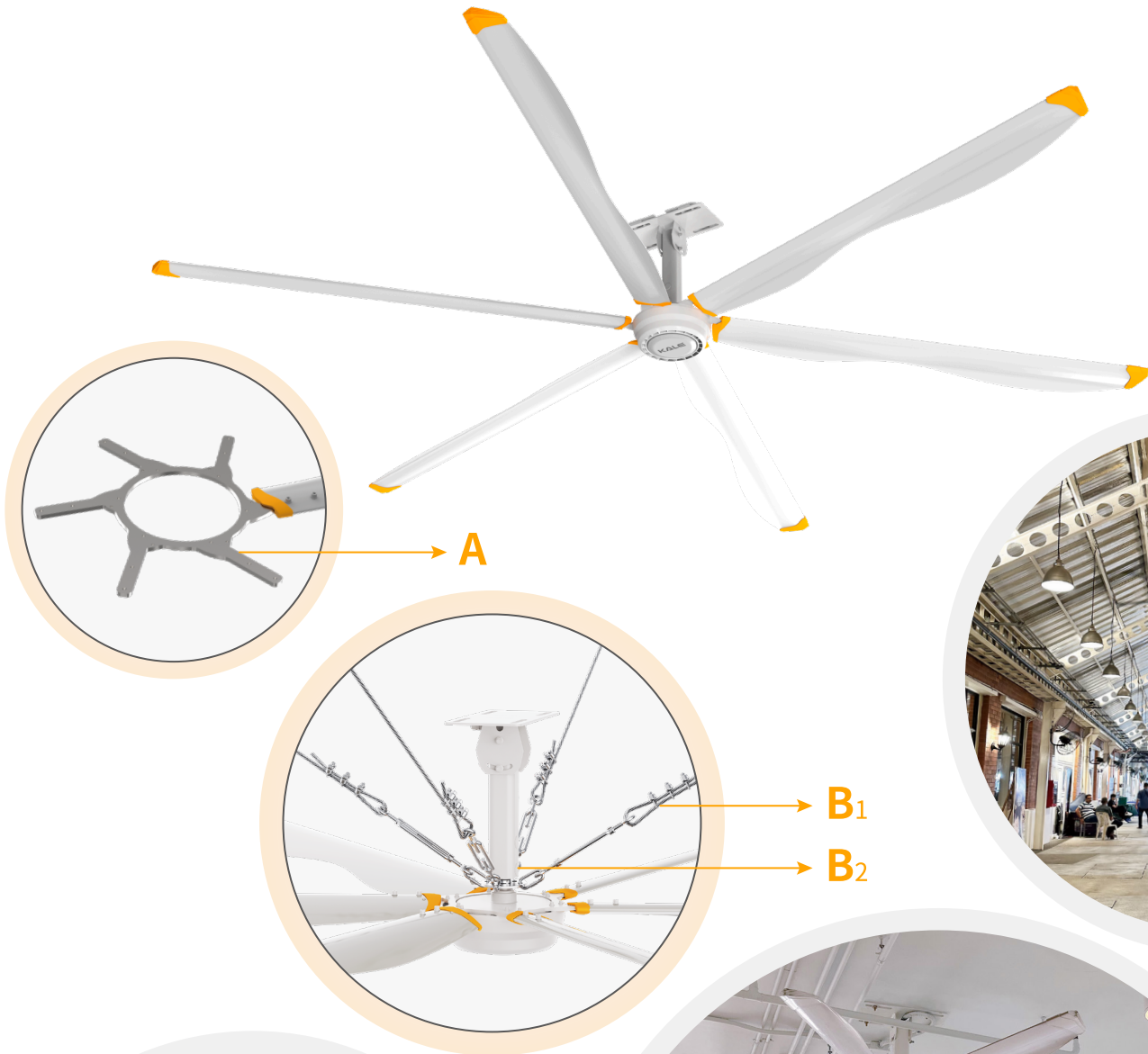


A Fan Blade Connector System

- Integrated fan blade connector, made of Q345 steel, high strength
- Galvanized process, corrosion resistant

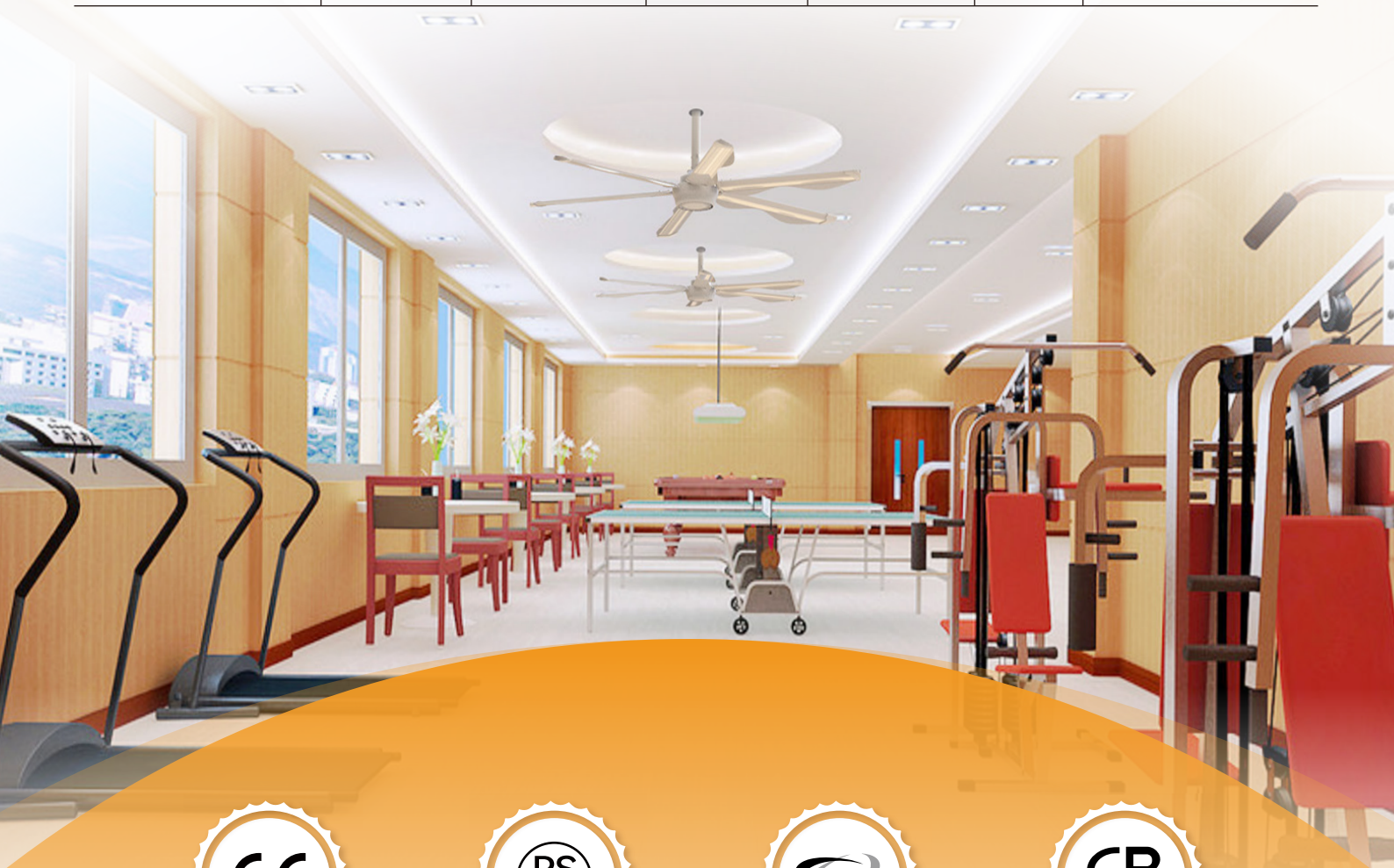
B Motor Anti-fall System

- 1. 4 sets of steel guy wires
- 2. 4 groups of high-strength fasteners

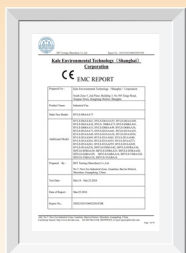


TECHNICAL PARAMETERS AND CERTIFICATIONS

Model	Size	Air volume	Max speed	Fan weight	Power	Full load current
SHVLS-D5BAA42	14ft(4.2m)	7550m ³ /min	72RPM	52kg	0.35kW	1.5A/220V
SHVLS-D5BAA36	12ft(3.6m)	6560m ³ /min	95RPM	48kg	0.33kW	1.3A/220V
SHVLS-D5BAA30	10ft(3.0m)	5250m ³ /min	110RPM	44kg	0.30kW	1.1A/220V
SHVLS-D5BAA25	8ft(2.5m)	4550m ³ /min	130RPM	41kg	0.26kW	0.8A/220V
SHVLS-D5BAA20	6.5ft(2.0m)	3900m ³ /min	150RPM	38kg	0.14kW	0.4A/220V



CE Marking
(EU Compliance)



PSE Certification
(Japan Safety)



SAA Certification
(Standards Association of Australia)



CB Scheme Certificate
(International Safety)





APPLICATIONS

● **Commercial:**

Gyms, hotels, church, mosque, shopping malls, airports, amusement park, restaurant, libraries, etc.





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