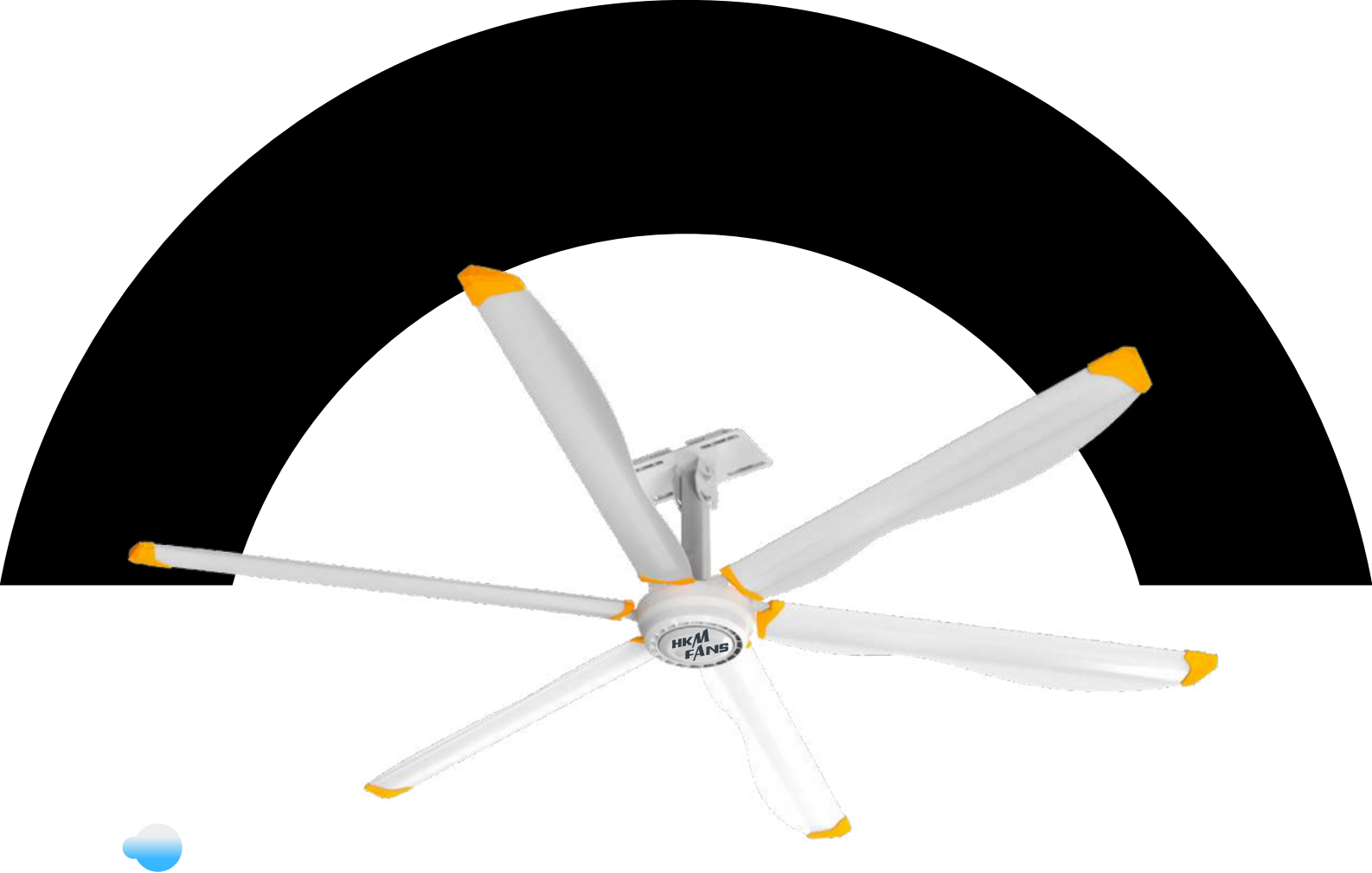




Aircool represents a significant advancement in air circulation technology, offering a blend of efficiency, comfort and aesthetic appeal. Aircool fan is designed to provide high-volume, low-speed airflow, making them ideal for a wide range of applications, from residential to commercial spaces.



KEY FEATURES



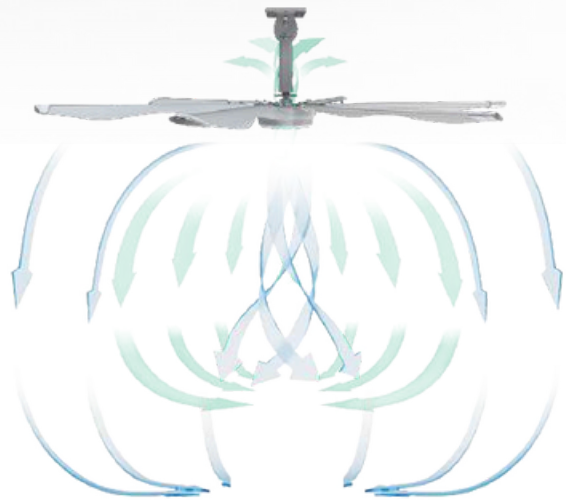
Large Coverage Area

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.



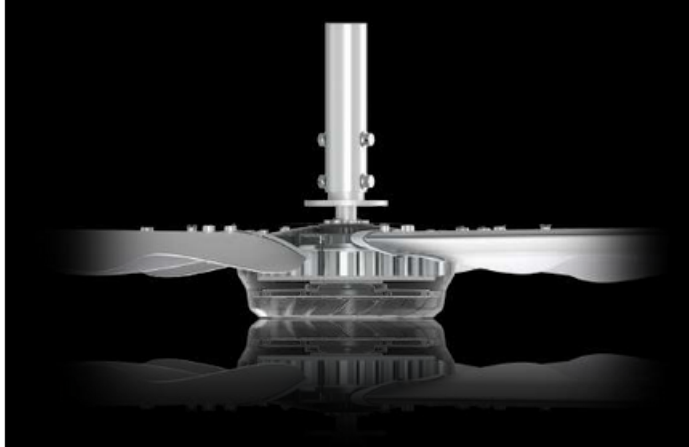
Safe and reliable & long life

- 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.



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.



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



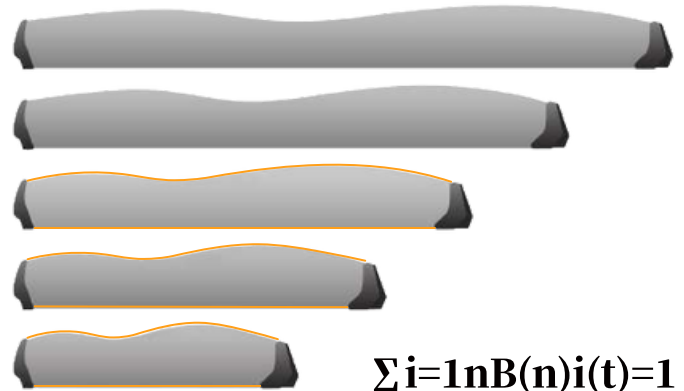
Fan blade fluid surface design

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.



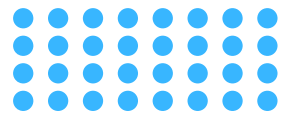
■ White



■ Silver



■ Black



HKM 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

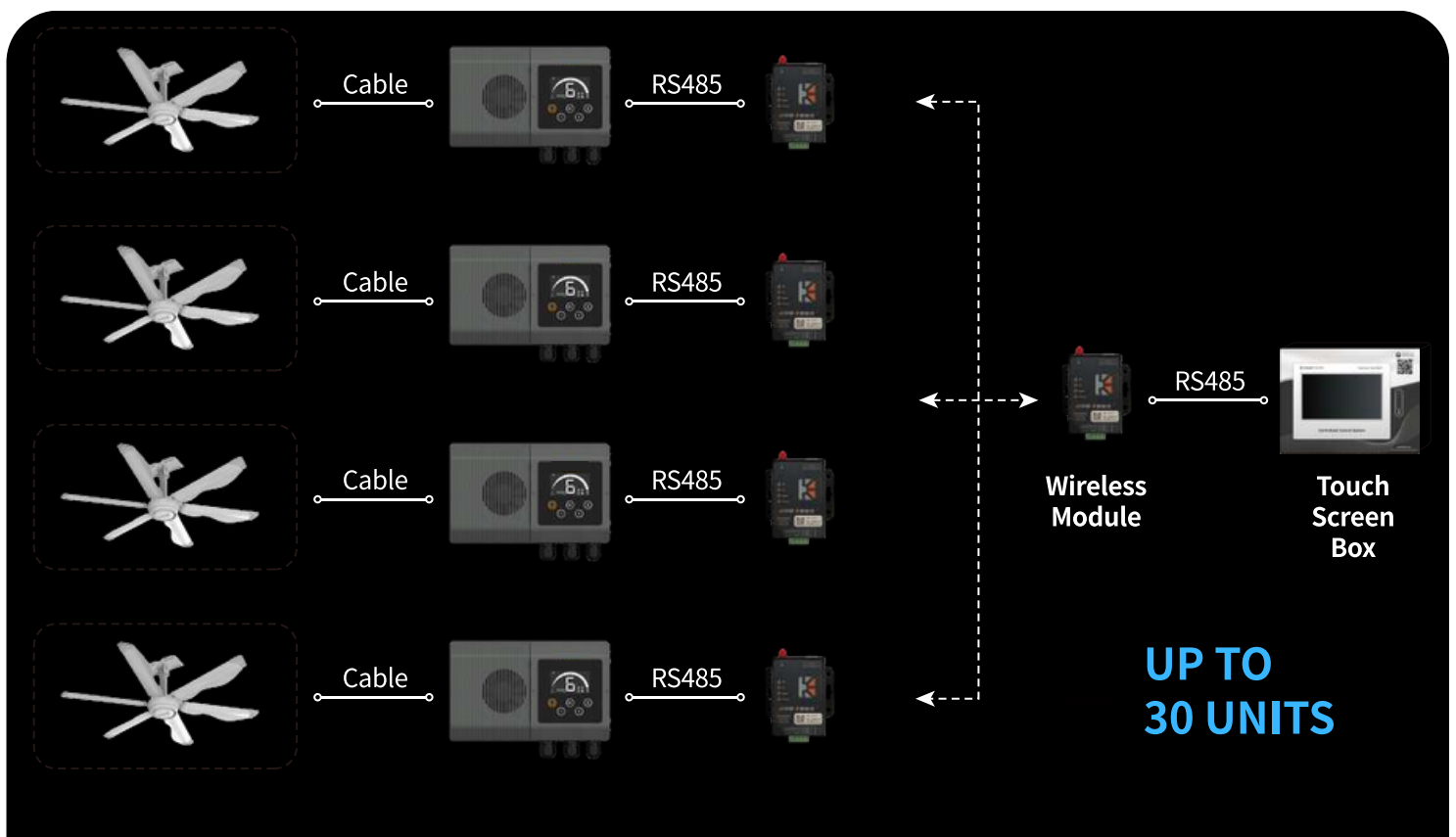


Master controller



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	Diameter	Air volume	Max speed	Fan weight	Power	Full load current
HVLS-HKM-SAC-42	4.2m (14ft)	7550m³/min	72RPM	52kg	0.35kW	1.5A/220V
HVLS-HKM-SAC-36	3.6m (12ft)	6560m³/min	95RPM	48kg	0.33kW	1.3A/220V
HVLS-HKM-SAC-30	3.0m (10ft)	5250m³/min	110RPM	44kg	0.30kW	1.1A/220V
HVLS-HKM-SAC-25	2.5m (8ft)	4550m³/min	130RPM	41kg	0.26kW	0.8A/220V
HVLS-HKM-SAC-20	2.0m (6.5ft)	3900m³/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)



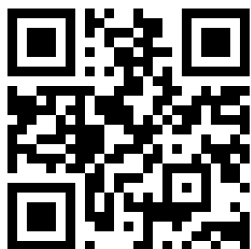
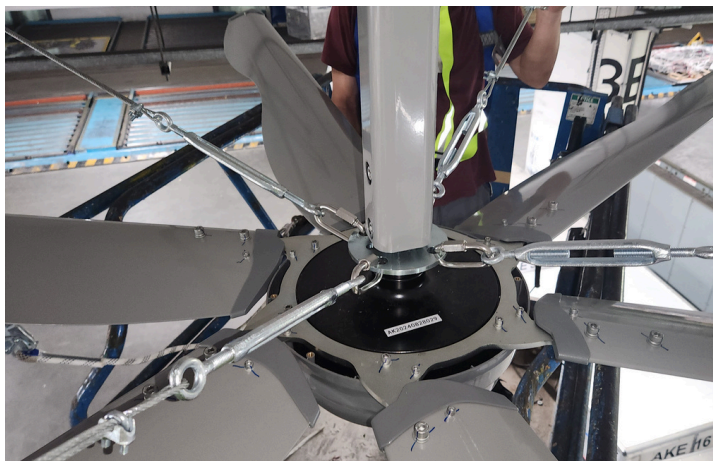
APPLICATIONS



APPLICATIONS

● Commercial:

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



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