

風庫®



Great Wind Power

Energy Saving

Large Torque

Low Noise

Maintenance-free

FENG KU ENERGY SAVING COLLING FANS



CATALOGUE



PRODUCT INTRODUCTION



FUNCTIONAL PARAMETER



TECHNOLOGICAL ADVANTAGE



CUSTOMER CASE

PRODUCT INTRODUCTION

Simple structure with high air volume
New technologies for quiet and energy-saving

The Feng Ku permanent magnet synchronous industrial large fan adopts a large-area top air supply method for ventilation and cooling in large spaces. The product has a wide coverage area of a single unit, low energy consumption, and produces natural and comfortable air. It can be used in various occasions such as industrial factories, warehousing and logistics, public spaces, and so on.

The entire machine of the Feng Ku series industrial fan adopts an integrated design concept. By analyzing the operating principle of industrial large fan products and using RHINOCEROS software, the product was 3D modeled and designed.

Through computer-aided design, product details can be continuously optimized, and each component can be accurately and reasonably designed, ultimately resulting in a fan product with high air volume, high safety, and long lifespan and energy conservation.



Maximum 18000m³/h



Maximum 2.2kW



Maximum 230 Nm



Less than 4Db



No need for regular maintenance

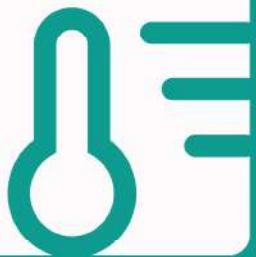
Ventilate your Ultra-Large
Space in a Cooler Way

FUNCTION INTRODUCTION

01 / Environmental cooling

This series of products adopts ultra large diameter fan blades, which can generate a large area of soft air supply at low operating speeds to promote the evaporation of sweat on the human surface and take away heat, making the skin dry and helping to cool the body.

In addition, the large area non dead corner air supply of this series of fans can blow to every corner of the factory, helping equipment dissipate heat, dissipate heat accumulated near the equipment, and reduce environmental temperature.



02 / Air circulation

The structure of the factory building is similar to that of an agricultural greenhouse. Under the sunlight in summer, the roof of the factory building absorbs a large amount of heat, but it is difficult to dissipate it, forming a greenhouse effect of heat accumulation, making it difficult for heat and pollution to be discharged outdoors.

The super large area air supply of this series of products can circulate indoor air, drive indoor and outdoor air exchange, exhaust indoor hot air, and eliminate indoor air pollution, and introduce cool and clean outdoor air into the indoor.



03 / Dehumidification and dust removal

This series of fans blow down a large area to supply air, causing a large amount of air near the fan to move towards the ground while driving the dust in the air to settle towards the ground. By utilizing the attraction of dust and ground charges, the dust that originally floated in the air is adsorbed onto the ground, reducing the floating and sinking in the air.

The ultra large diameter fan blades of this series utilize aerodynamic to remove excess moisture from the air during operation, effectively assisting in dehumidification and dust removal in the factory building.



PRODUCT TECHNICAL



- A:** Lifting bracket
- B:** Extension rod (0.3m~2m)
- C:** Bowden cable
- D:** Motor connections
- E:** Motor compartment
- F:** Fan leaf
- G:** Fan blade hub and cover plate

Motor type	Permanent magnet synchronous motor
Drive type	Variable frequency controller
Number of fan blades	5 pieces/6 pieces
maximum power	2.2KW
Power parameters	AC220V/AC380V (Optional)
Applicable area of a single unit	200 m ² ~650 m ²
Fan blade material	Imported 6603 aluminum magnesium alloy
Material of structural components	A380 engine specific die-casting aluminum alloy
Connection material	Imported 6603 aluminum magnesium alloy
bearing	Dual bearing system design, using humanistic brand bearings

INSTALLATION PARAMETERS

We have a professional product service team to provide you with rigorous and serious construction services. The team is composed of experienced equipment engineers and electronic engineers, who can conduct professional surveying and analysis of your environmental space, and customize the best equipment installation plan for you. A trained professional installation team equipped with professional measurement and installation tools, strictly following product requirements and training systems, and providing high-quality installation services according to the process.

1. Conduct on-site testing and analysis to provide the best layout plan
2. Professional construction personnel on-site installation
3. Professional surveying and installation tools
4. Using a lift truck to install equipment, safe and fast
5. Tighten all screws according to standard torque requirements
6. Install balance fine adjustment
7. On site testing and adjustment after installation

Installation Dimension Description



INSTALLATION STRUCTURE TYPE



I-BEAM STRUCTURE

For wider I-shaped steel beams, steel beam pressing plates can be selected, and high-strength bolts and pressing plates can be used to lock onto the steel beam, making it sturdy and durable.

PIPE STRUCTURE

When installing a fan on a circular tube, a circular tube kit should be used and the bracket in the kit should be tightened to ensure stable installation

BRICK CONCRETE STRUCTURE

Using an L-shaped installation frame, symmetrically installed on both sides of the brick concrete structure beam, secured to the beam body through high-strength collision bolts, ensuring safety and stability.

INSTALLATION PARAMETERS

FLOWER HOUSE EFFECT, HEAT ACCUMULATION

The factory building structure is similar to a greenhouse, where direct sunlight can increase the temperature inside the building. Hot air accumulates in the roof of the building and cannot be discharged, causing the temperature inside the building to increase.



Forming a circulation to promote heat dissipation

The Feng ku series permanent magnet synchronous industrial large fan can form a downward air flow at the top of the factory building, driving air circulation, and introducing low-temperature, low humidity, and clean outdoor air from the doors and windows into the room, effectively reducing the accumulation of heat in the factory building and bringing comfortable natural wind to personnel.



1.High air volume

Feng Ku

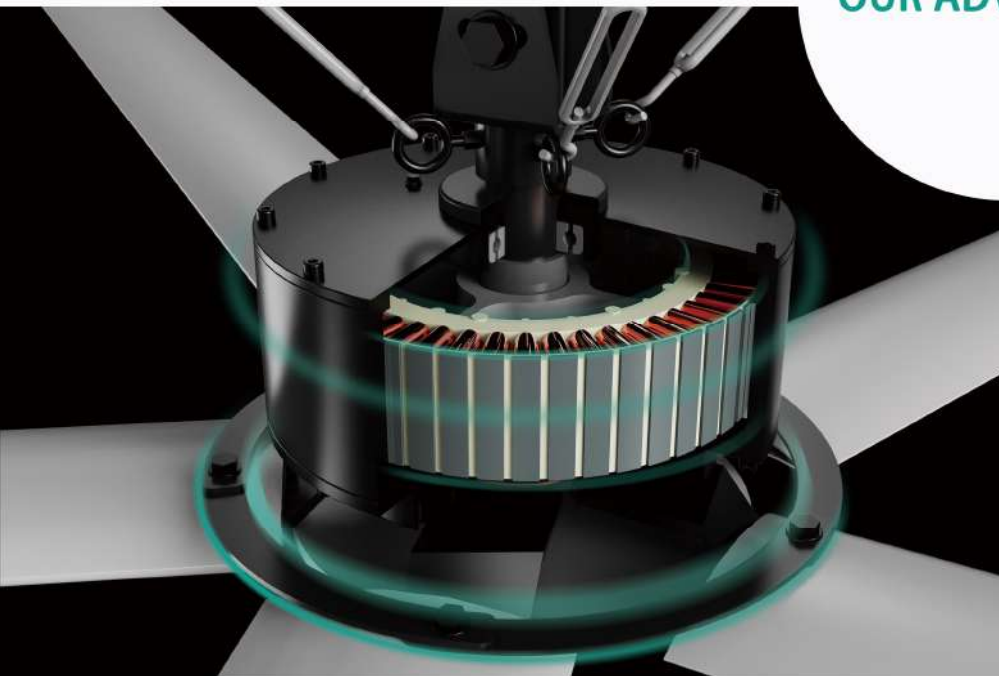
Taking 7.3 meters as an example, peers use a 1.5KW motor, the thickness of the permanent magnet is only 2.5MM, while our company uses a 2.2KW permanent magnet motor. The thickness of the permanent magnet reaches 3.8MM, and the power and magnetic steel specifications are higher than those in the same industry. The same specifications of fan blades and radians, the higher the power, the faster the rotational speed, the larger the air volume, the thicker the magnetic steel, the higher the high-temperature resistance strength, and the longer the service life.

Other brands

Taking 7.3 meters as an example, peers use a 1.5KW motor, the thickness of the permanent magnet is only 2.5MM



OUR ADVANTAGE



2.Comfortable and durable

Feng Ku

Our company's series of fan blades adopt advanced air fluid design, achieving the effect of low speed and high air volume. The design of five fan blades avoids the risk of suspension structure resonance and ensures that the generated wind frequency is similar to natural wind.

Other brands

Other brands have even numbers of mostly 6 or 8 blades, which are prone to resonance during rotation, causing bearing wear and reducing service life.

TECHNOLOGICAL ADVANTAGE

3. More secure

FENG KU

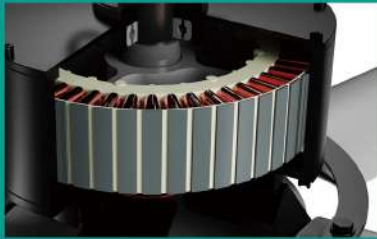
Our company adopts a scientific anti falling protection device, with a steel wire rope directly pulled onto the shaft to provide true secondary anti falling protection. The fan blades are made of aviation aluminum magnesium material, and special technology ensures that there is no risk of fracture in the event of impact.



4. long service life

FENG KU

The fan is driven by a permanent magnet synchronous motor, utilizing the principle of electromagnetic induction with dual bearing transmission and good sealing, truly achieving maintenance free motor and ensuring its service life.



5. More energy-efficient and environmentally friendly

FENG KU

This series of permanent magnet synchronous motors has high energy efficiency and meets the national first level energy efficiency standard. The full load current of fans with the same diameter is reduced by 42%, which is more energy-saving and energy-saving.



6. Wide application range

FENG KU

The main height of the fan is 450mm, suitable for factories with narrow distance between the crane and the top beam, and has a wider range of applications.



OTHER BRANDS

Other peer brands' fan steel wire locks are pulled onto the extension rod or motor casing, and the fan blades are not strong enough to easily break.

OTHER BRANDS

Asynchronous motors, as motor drivers, rely on reducers to reduce speed. Both imported and domestic motors require regular replacement of gear oil, which is costly to maintain during high-altitude operations. However, if the gear oil is not replaced in a timely manner, the lifespan of the motor will be shortened.

OTHER BRANDS

Asynchronous motors have low energy efficiency and high full load current for blades of the same diameter.

OTHER BRANDS

The asynchronous motor body is relatively long, and some industrial factories cannot be installed due to the small space between the crane and the top beam.

