



High Volume Low Speed (HVLS) Fan

HVLS is the new energy saving solution to solve the ventilating or cooling problem of large space. HVLS energy saving ceiling fans comes with maximum diameter of 7.2 meters, apply the HLVS principle and advanced technology manufacturing. It takes only 1.5KW or less power to cover area of 1,450 meters square which equivalent to the effect of 30 small fan.

Advantages

ENERGY SAVING

HLVS fans can help save costs in many ways. Its low energy consumption powertrain saves you money by being energy-efficient. With its effective air disbursement, HVLS fans are a cost effective and ideal solution for cooling large facilities; as a standalone system or with an air conditioning. When used together with an air conditioning system, the fan's slow and steady airflow can reduce or even completely eliminate the need for costly and inefficient air conditioning ductwork

SAFETY PROTECTION

Multiple security anti-drop protection ring design to secure connection, which are connected as a whole to gurantee stability of each system connection and prevent blade drop. The fan is in fixed position with 2 pieces wire rope upon the motor frame and 4 pieces wire rope towards 4 directions below the motor frame to prevent rotation shaking in large inertia and gurantee versatility stability and security

EXTERNAL LOAD-BEARING

Our industrial fan is different from other manufacturers for the double external load bearing designed and extend oriented distance of fan to avoid reducer from axial force, prevent oil spilling and to extend the service life

BLADE DESIGN

Using high quality aluminum magnesium alloy, more than 20 years with corrosive resistance, high strength and toughness, fatigue resistance, bright surface oxidation treatment and easy to clean.

Features



Design of angular fan chain secure connection, which are connected into whole, prevent leaf fall individually

Reducer increased positioning bearing, extended chassis oriented distance, bearing chassis and the leaf weight, protective gear inducer



Using high strength bolts made of 30CrMnSi material, level 12.9, and using the thread fastening agent to prevent loosening

Selection of a foreign brand vector inverter controller, capable of bearing high carrier frequency to reduce motor zing, improve the control pulse signal quality, built in filter to reduce interference, frequency converter with over current and overvoltage, under voltage, open phase, overload, overheat protection. It would automatic power-off when accident happens



Under the motor frame, uses 4 pieces of 8mm wire rope are respectively toward 4 direction stretchig wire rope, to prevent the fan in large inertia rotation shaking and guarantee the operation stability and safety

HVLS fan is different from other manufacturers' because of the unique patented design of double outer bearing. It prolong the fan oriented distance, avoid reducer suffer axial force, prevent oil leakage, protect deceleration, prolong the service life of the motor and can reduce the noise.

This patent technology is one of the core technologies.





Using European imported motor and reduce integrated machine

Configuration import flourine rubber double oil seal, ensure the reliability of the rotary drive member

Configuration delay start function, can reduce the motor load and the impact, to extend the service life

Using integrated chassis made by precise cutting technology, with a unique bearing anti falling safety device design, the fatigue properties and yeild strength significantly , the connection strength and impact resistance and high precision cutting, CNC machining and ensure the consistency of the chassis, to ensure the smooth and safe reliability of each fan



The use of advance fluid dynamics simulation software CFD modeling and wind tunnel testing aerodynamic shape with a unique anti-fatigue lined design

Using high quality aluminum magnesuim alloy, corrosion resistance, high strength, high toughness, fatigue resistance, bright surface oxidation treatment, easy to clean

European Imported brand inverter controller

Fluorocarbon lacquer box configuration Schneider load switch, ventilating port

Control components are the first-line brand

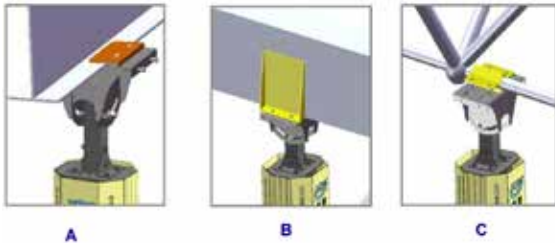
Control system with overcurrent, overvoltage, undervoltage, phase failure, overload, overheat protection and automatic power-off whe accident happens.



Specification

Model	HV-4200	HV-5200	HV-6200	HV-7200
Fan Diameter (mm)	4200	5200	6200	7200
No of Blades	5			
Motor Power (KW)	1.5KW			
Rated Voltage (V)	AC 415V			
Rated Frequency (Hz)	50Hz			
Coverage Area	3	3.5	4	4.5
The Maximum Rotate Speed (RPM)	65	62	58	55
Total Weight (KG)	100	105	110	115
Area Covered (m ²)	900	1100	1300	1450
Material of Chassis and Fan Blade	Alumminium Magnesium Alloy			

* Effective coverage area (the air speed can reach 0.5m/s) depends on mounting height and the barrier below, we can help our client to design a reasonable layout according to the details and customer's requirements



Installation Method

A - Installation on H Beam or I Beam structure steel using pressing plate of 8mm thickness

B - Fixing on steel concrete beam using 8mm 90 degree thickness using wearing screw or expansion screw

C - Fixing grid structure using V structure or semi-circle to hoop bolts

