AMBICA INDUSTRIES

• OUR PRODUCTS •

- HVLS Fan (High-Volume Low Speed)
- Motorized Air Ventilator
- Alluminium Motorized Air Ventilator
- Venturi Motorized Air Ventilator
- Ridge Mounted Vents
- Louvers (Colour Coated, Polycarbonates)
- PEB Structure Work
- Wind Turbine Ventilator
- Wind Ventilator
- Stainless Steel Ventilator
- Roof Air Ventilator
- FRP Sheets (Base Plate)
- Polycarbonate Sheet (Base Plate)

MAKE IN INDIA

CERTIFIED ISO 9001:2015 COMPANY

SMERA RATINGS LIMITED

एन एस आई सी NSIC ISO 9001 : 2008

D&B Decide with Confidence

Welcome To Ambica Industries:

Ambica Roof Ventilators & HVLS fans are the products of the pioneer Ambica Industries of Gujarat. We have been serving premium and international quality products to our clients. The services range from manufacturing to supply in different parts of the country.

Lead by our guide in management and an expert in technical aspects, **Mr. Pragnesh Panchal**, we thrive to deliver the best in time service and products.

We do all types of PEB Structure work repairing, All types of roofing work. FRP sheet replacement, FRP Gutter work,

AIR VENTILATORS

Ambica Industries are providing services in the India from last 16 years.

Ambica Industries are prominent manufacturer, exporter, retailer and trader of Roof Air Ventilation System, FRP dooms & FRP sheets.

Our products offer safe usage, anti-corrosiveness, less energy consumption, ability to withstand extreme conditions and easy maintenance.

Why People Choose Us?

To be precise, there are four main advantages that compel our clients to choose and retain their business with us.

- International Quality Products At An Affordable Rate
- Easy And Fast Delivery
- HVLS Technology And Service That is Non - Comparable
- Years Of Trust Instilled

ROOF AIR VENTILATORS

WHAT IS AIR VENTILATION SYSTEM?

- Ventilation is the intentional introduction of outdoor air into space and is mainly used to control indoor air quality.
- Two types of ventilation **1) Mechanical Ventilation 2) Natural Ventilation**
- **Mechanical Ventilation** uses fans to drive the flow of outdoor air into a building.
- **Natural Ventilation** is the intentional passive flow of outdoor air into a building through planned openings

PRODUCTS WE OFFERS

MULTI AIR VENTILATOR

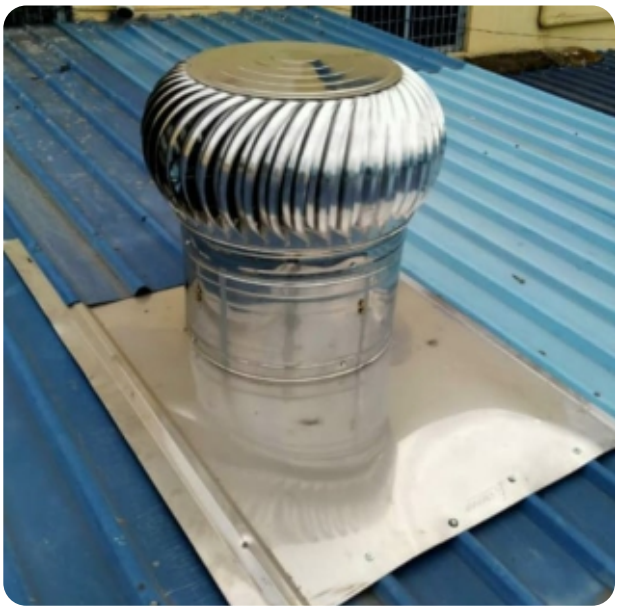
- Also known as the wind driven roof ventilator, the multi air ventilator utilizes the natural movement of wind & air to vent out the stale air inside the building.
- We manufacture world-class multi-air ventilators with high-quality metal fins that assist in temperature drop & supply fresh air. They function without electricity and are capable of exhausting even the hottest fumes & humidity from the atmosphere.

Dimensions available

6", 8",12", 14",16", 18", 21", 24", 25", 28", 32", 34", 36",40", 42",48", 52"

STAINLESS STEEL VENTILATOR

- For highly oxidative environments that comprise methane, sulfur or acidic elements, Ambica Industries manufactures top-notch stainless steel ventilator systems for boosting the natural circulation of fresh air in the surrounding atmosphere.
- Being highly resistant to corrosion & obsolescence, our stainless steel ventilators are made from International quality metal & are tested for ensuring stability in performance.



ROOF AIR VENTILATOR

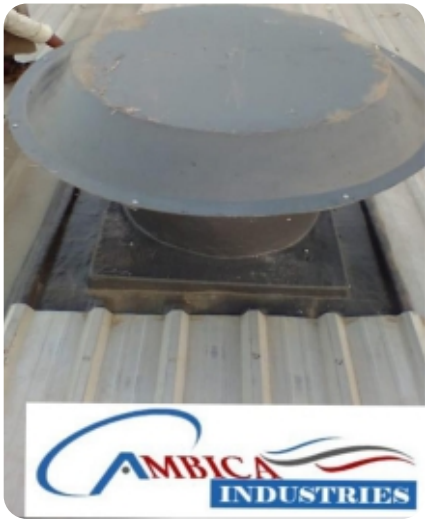
- With a vast application in a wide range of industries & households for exhausting humidity, fumes, heat & smoke, roof air ventilators are the perfect & the most sustainable solution.
- Our roof air ventilators can be installed with a minimal amount of interference to the roof structure. With minimum friction & high RPM, they lead to a continuous extraction of stale & humid air and are practically maintenance free, offering a long lifespan.

WIND VENTILATOR

- Wind ventilators utilize the natural circulation of air by pushing out the humid air & replacing it with a fresh breeze.
- From small spaces to large workplaces, we manufacture abrasion resistant wind ventilators in India for all types of industrial & residential structures.

MOTORIZED AIR VENTILATORS

- Motorized ventilators are manufactured with an on/off switch to facilitate efficient exhaustion of hot, humid & stale air whenever required.
- Ambica's motorized ventilators ensure a continuous supply of fresh air as they are manufactured using highly effective electric motors.
- They are environment-friendly and produce no noise with lower vibration levels. Our highly qualified engineers have designed them with precision for a longer life span, ring stability in performance.



ALLUMINIUM MOTORIZED AIR VENTILATOR

- These are durable ventilators that can withstand harsh conditions as these aluminum ventilators are manufactured using raw material from India's leading aluminum providers.
- Our commitment to consistent quality has resulted in building high-quality & lightweight products to serve the domestic & international market.
- We manufacture aluminum ventilators that cut on energy costs and offer friction-free turning of the turbines. It is precisely manufactured to offer exhaustion even at low wind pressures and reduces winter moisture damage.

VENTURI MOTORIZED AIR VENTILATOR

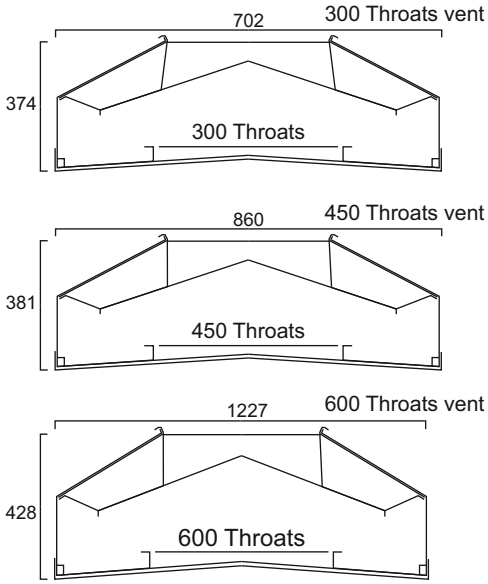
- The venturi motorized air ventilators involving no moving or rotating components are thus, highly efficient & convenient.
- The venturi air ventilators ensure that the airflow is maximized inside the structure where they are installed and are the preferred choice of ventilators for many industries.

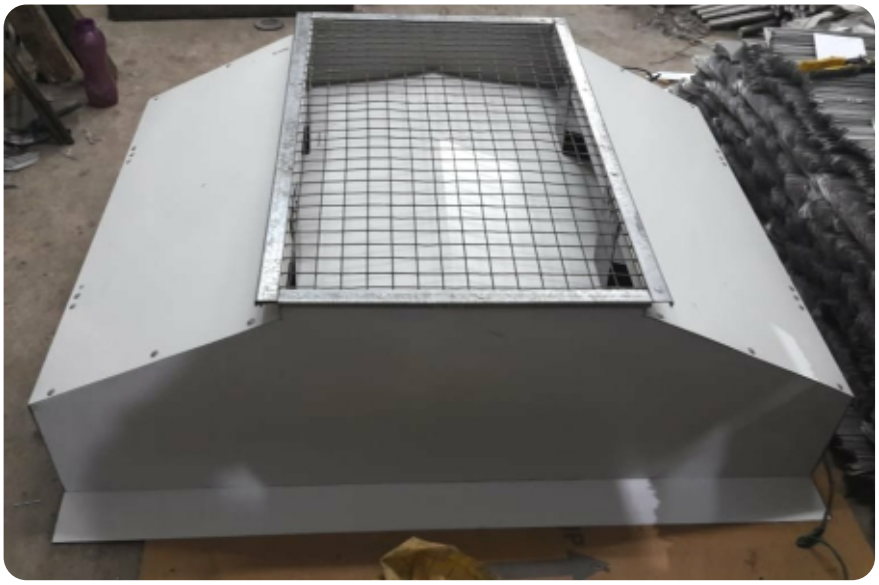
RIDGE MOUNTED VENTS

- From warehouses to factory sheds, our excellently manufactured ridge ventilators have application in a wide range of industries.
- Generally installed at the peak of the roof that results in hot air escaping the structure.
- Our high-quality ridge ventilators have watertight openings and are virtually storm proof.

Dimensions of Vent :- 3 different types of ridge Vents as per customer requirement.

1. 300mm Throat Ridge Vents
2. 450mm Throat Ridge vents
3. 600mm Throat Ridge Vents





OUR DEDICATED TEAM

Team Comprises :

- Procuring agents
- Engineers
- Researchers
- Quality Controllers
- Sales & Marketing Executives
- Technicians

OUR INFRASTRUCTURE

- The Structure houses a production unit that has the capacity to produce bulk orders & is facilitated with upgraded machinery and equipment.
- We house an R&D unit that has been devised with special equipment and facilities.

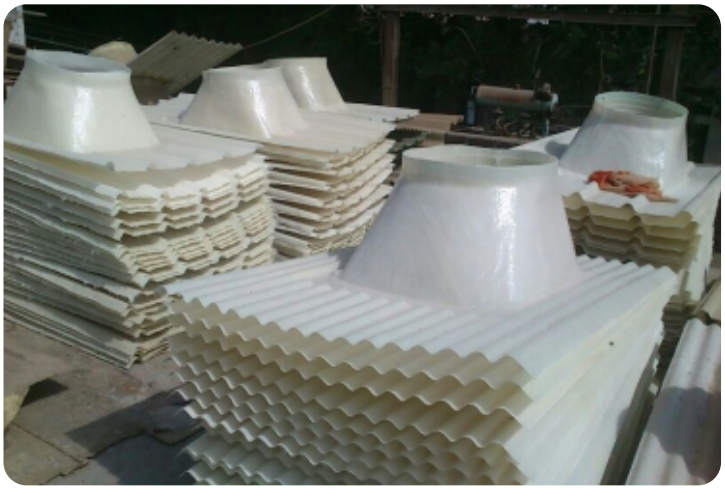
WHY AMBICA INDUSTRIES?

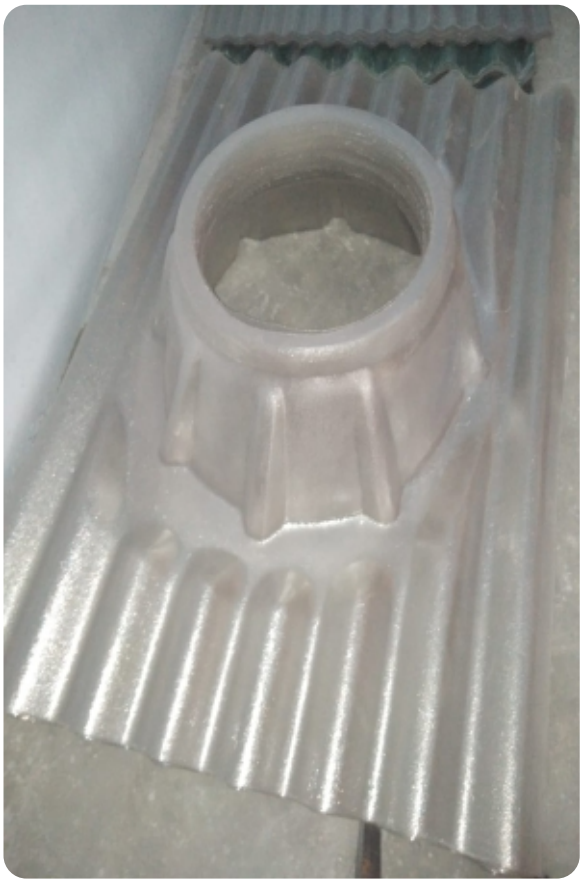
Ambica Industries manufactures top-notch stainless steel Ventilator systems for boosting the natural circulation of fresh air in the surrounding atmosphere.

FRP Sheets (Base Plate)

Ambica Industries is one of Vadodara's well-known FRP manufacturers producing excellent quality FRP sheets. They are lightweight, corrosion resistant, high tensile sheets built using translucent fiberglass, plastic resin. Our FRP sheets offer high durability, are also UV resistant fulfilling needs of industries, households, malls, offices.

We are distinguished FRP sheets manufacturers with optimum quality products and environment friendly approach to manufacturing. Ambica Industries also specialize in manufacturing Polycarbonate sheets in the form of embossed / Texture, Multi-Wall and transparent Opal White Sheets with stringent quality tests on parameters of strength, transparency, Colors.





What is Polycarbonate Sheet?

Polycarbonate is a thermoplastic that comes in a transparent sheet. It is incredibly tough and absorbs minimal moisture, making it resistant to impact damage as well as water damage. Its also flame-retardant and chemical resistant.

LOUVERS (COLOUR COATED, POLYCARBONATES)

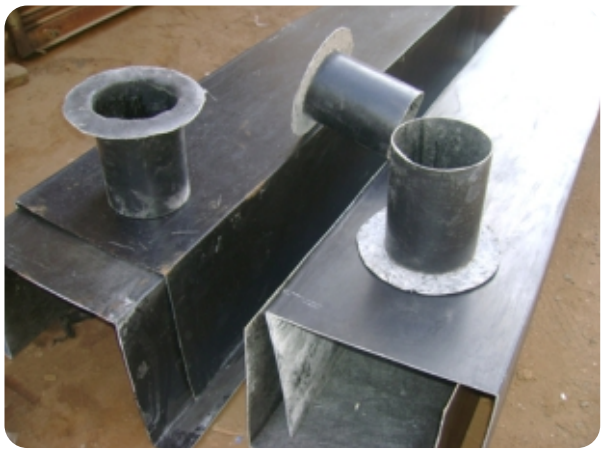
We are engaged in fabricating and supplying of Wall Louvers Sheets. Manufactured using zinc alum & color coated galvanized steel, these enable the free flow of air & prevents entry of dust & water. A special feature of these louvers is, that the back side is covered with bird mesh, which restricts entry of birds. Available in a variety of colors & designs, these can be purchased from us at market leading prices with specific size.

Polycarbonate Louvers :

The Polycarbonate Louvers is specially designed in such a way that the air flow and light ventilation is in good state. The Size of Polycarbonate Louvers is as per requirement with Length-1800mm and width 1060mm.

FRP Gutter

FRP Gutters is widely used in different industries. Installed for drainage of water, these gutters are capable of withstanding bad weather conditions. In addition, our range can also be utilized as a part of rain water harvesting systems. FRP Industrial Rain Water Gutters are mostly used in industrial buildings for drainage of water. These are precisely manufactured using quality materials and advanced production technology. Our range complies with the various industry standards and is offered in different specifications to meet the clients requirements. Moreover, we offer these FRP gutters to our clients at competitive prices, with various colours.



Exclusive Features of HVLS fan

Small fans and systems create small turbulence that doesn't last long. This is an inefficient way to keep any industrial area ventilated for a long time as it takes up more energy. That is where HVLS fans originated and are now developed into the most useful and efficient versions

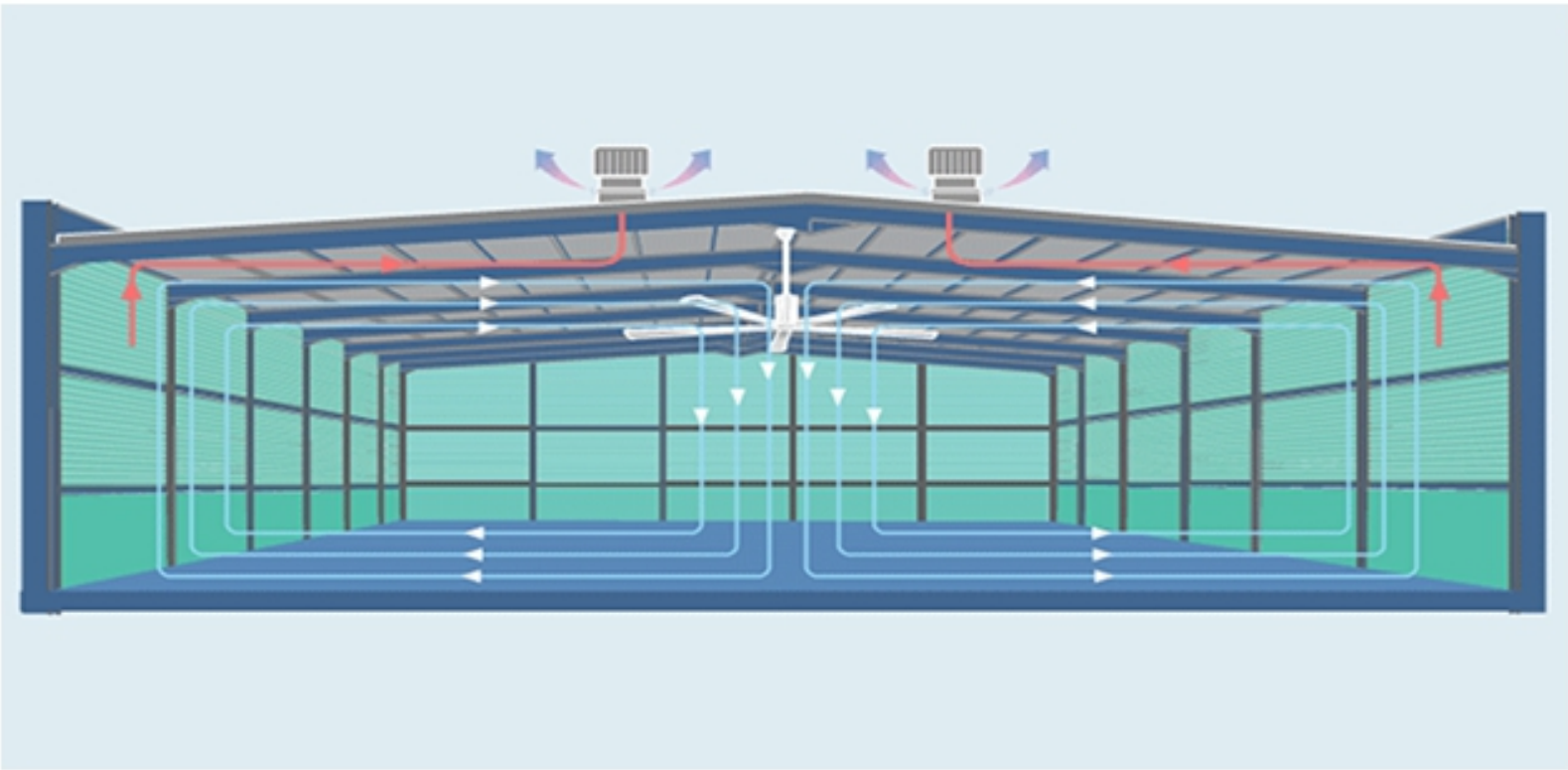
Smooth and Efficient Air Movement.
Managing Air Humidity Flawlessly.

HVLS fans stand for High Volume Low-Speed fans. They have greater than 2.1 meters diameter and this ensures a large volume of air displacement. A single HVLS fan can replace multiple normal wall fans and still give a better performance. It saves about 80% cost of operating within 6 months of installation.

HVLS fans provide an efficient and cost-effective cooling solution which enhances the comfort and productivity of occupants. They are created for high ceiling facilities, the most common of which are a warehouse, a single-storey shopping centre, sports hall, temple, gurudwara, masjid, church, industrial hall, industrial factory and open or closed large area.

Ambica HVLS fans are able to perceive a cooler temperature up to 4-6 C cooler. We have variants available in 6ft, 8 ft, 10ft, 12ft, 14ft, 16ft, 20ft, and 24ft diameter.

Why Ambica HVLS Fan?



Ambica HVLS products are designed specifically to circulate air in your area efficiently and effectively. Whether it is summer cooling in public places or humidity release by air circulation in warehouses, you can rely on our quality products.

Our variants are available in different diameters including. We have variants available in 6ft, 8 ft, 10ft, 12ft, 14ft, 16ft, 20ft, and 24ft diameter.

With complete mounting kit and optional ceiling lengths available, you get the best service in the industry at Ambica HVLS. All this in a cost-effective range of solutions customized only for you by our experts.

Get in touch with us to map your needs now!

How HVLS Fan Work.....

We don't need physics degree to know that a breeze moving across your skin on a hot day feels good, especially in humid environments. The cool moving air breaks the moisture saturated boundary layer surrounding the body-accelerating evaporation to produce a cooling effect. People have been using fans to cool themselves long before the advent of electric motor; it was logical then, that fans would be one of the first things to be mechanized.

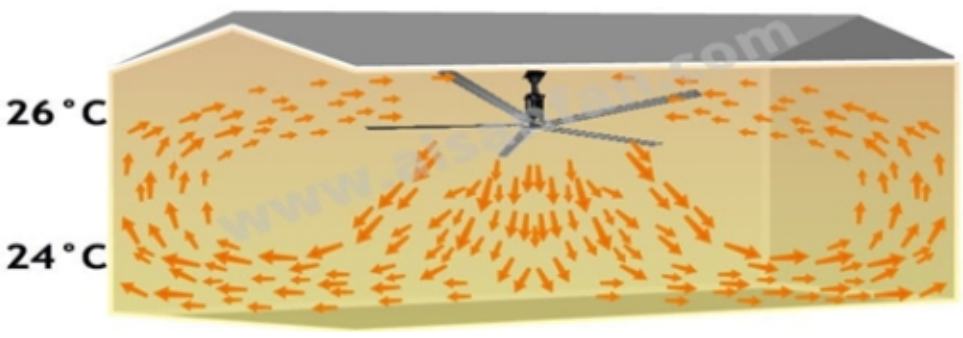
At some point however, engineers became so focused on using speed to increase fan's air displacement [cfm] that some important physics based issues were overlooked. While having a cool breeze brush over our hot skin feels good, high velocity air movement is both unpleasant and disruptive. Air speed beyond four or five miles per hour usually offers little, if any, additional cooling benefit as very slow moving air actually cools best in very hot, high humidity conditions

Working Principal.....

Small high speed-fans create a pressure differential that's essential for many applications, but where slow movement of free air is the objective, pressure differential is not important. Therefore the amount of air that actually displaced [moved through the fan] is of no real significance. It's the downstream effects that are more important.

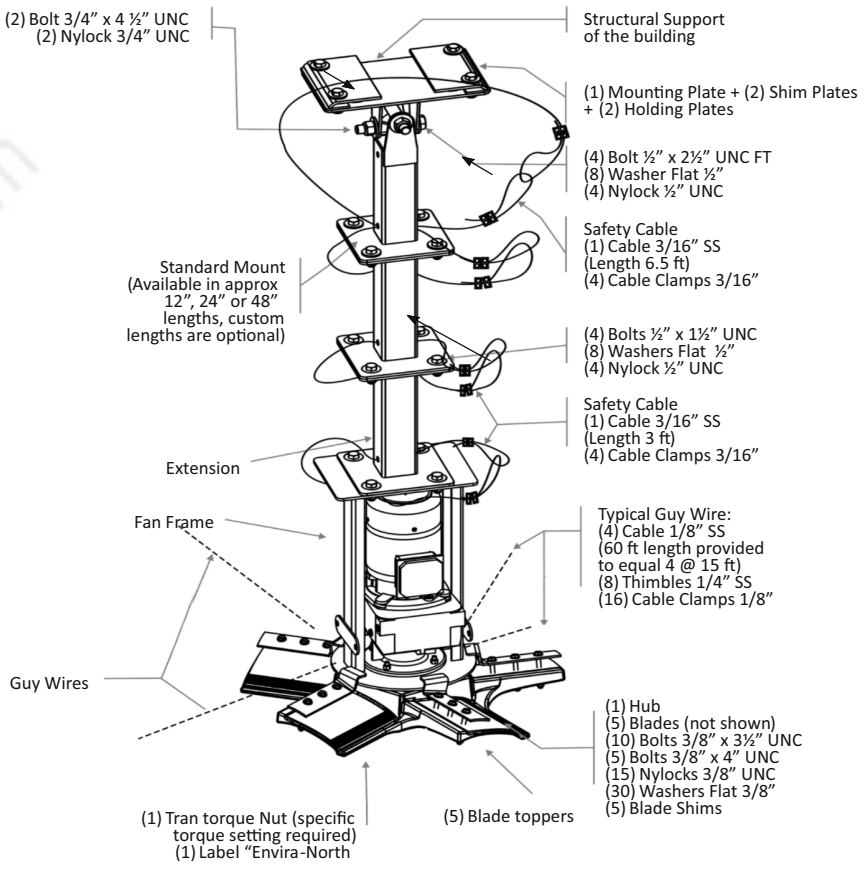
A turbulent, high velocity air jet dissipates very quickly. A large column of air however travels farther than a small one.

The power to drive a fan increases roughly with the cube of the average air speed through the fan. A commercial fan delivering air at 20 miles per hour requires about 64 times as much power as a similar sized fan delivering air at 5 mph. Airspeed combined with fan effectiveness means that when the objective is too cool people or animals, very large low speed [HVLS] fans are enormously more efficient and effective than small high speed fans.



Safety is the highest priority.....

- Safety Cable - This cable ties together the vertical drop and the motor/gear reducer frame to the physical structure of your building.
- Safety Clips - These clips prevents the hub from falling in case of failure of the fenner drive (nut) that holds the hub to the shaft of the gear reducer.
- Safety Ring – This Ring attaches the blades together in case of breakage of the hub's stub(s). The ring will hold the blade (s) by the hub thus avoiding their fall to the ground.
- Guy wires – The wires have two function: first, to avoid unnecessary sway of the fan in case of unbalanced blade (s) and second, to avoid large movements to due winds or draft.
- Motor - The motor has thermal protection in case of overheating.
- Controller – The variable frequency drive has several safety devices such current limit, motor overload, minimum and maximum speed control. The controller also features a stop button for emergency stoppage.
- Mount - The mounting hardware has been designed and engineered to support the weight of the fan and provide a secure connection to the structure.



Pole HVLS Fan

Benefits of Pole HVLS Fan

- Requires lower cost for investment, installation and maintenance than traditional cooling methods.
- Cut energy consumption for heating. Provide eco-friendly and economic solutions.
- Assist in the removal of contaminant and heat.
- Help reduce condensation on floors and equipment.
- Convenient control system and adjustable fan speed.
- Offer silent operation. Supply winter destratification and summer cooling.

Pole Fan Application for Open Areas

- Places where maximum air movement is required (Farms, Animal Husbandry Facilities)
- Large buildings with high ceilings (Warehouse, Industrial Facilities, Malls, Shopping Centers, Sports Halls)
- Intensively used areas, where people come together (Entertaining Centers, Cafeterias, Libraries, Museums, Theater, Opera, Concert Halls, Fair Exhibition Centers, Showrooms)

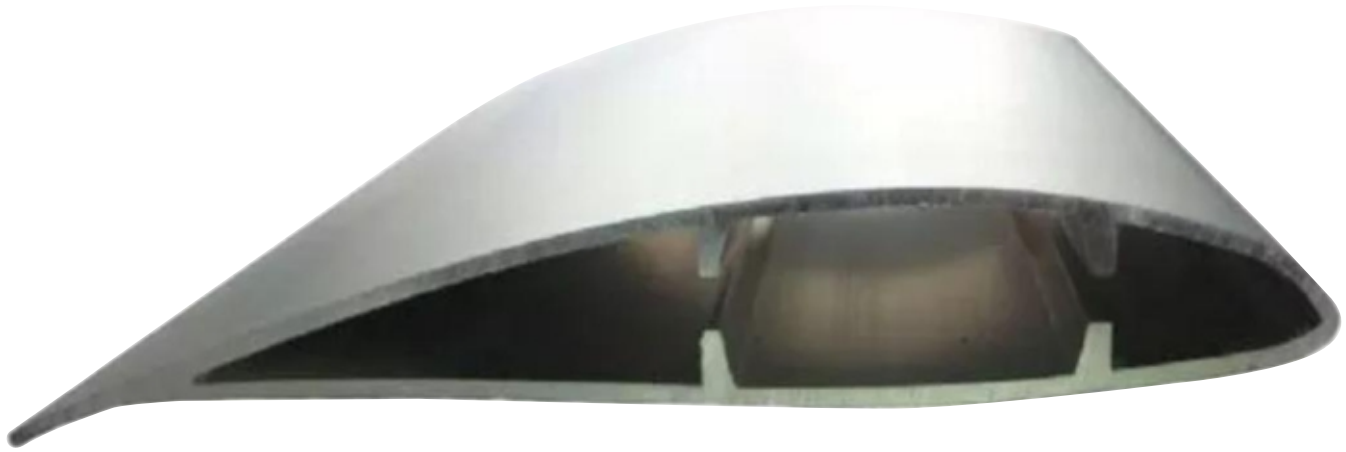
Ambica Industries
HVLS Images

Why HVLS Fans churn so much of air.....

HVLS fans work on the principle that cool moving air breaks up the moisture-saturated boundary layer surrounding the body and accelerates evaporation to produce a cooling effect. Ceiling fans produce a column of air as they turn. This Column of air moves down and out along the floor. Called a horizontal moving air is relative to the diameter of air is relative to the diameter of a fan. And to a lesser degree, the speed of a fan. Once the floor jet reaches its potential, it migrates outward until it meets a side wall or other vertical surface.

Under ideal conditions, an 8 feet (2.4m) diameter fan produces a floor jet of air approximately 36 inches (910 mm) deep. A 24 feet (7.3 m) diameter fan produces a floor jet 108 inches (2700 mm) deep, tall enough to engulf a human standing on the floor or a cow, its initial development purpose.

Commercial HVLS fans differ from residential ceiling fans with regard to diameter, rotational speed, and performance. While some fans use contemporary blades to move air other methods are being used to make it more efficient such as using air foils.



Heating and cooling benefits:

Air movement can have a significant influence on human thermal comfort. Wind chill in cold conditions is considered detrimental, but air movement in neutral to warm environments is considered beneficial. This is because normally under conditions with air temperatures above about 74" F, the body needs to lose heat in order to maintain a constant internal temperature.

Unlike air conditioners, fans cool people. Ceiling fans increase air speed at the occupant level, which facilitates more efficient heat rejection, cooling the occupant, rather than the space. Elevated air speed increases the rate of convective and evaporative heat loss from the body, thus making the occupant, rather than the space. Elevated air speed increases the rate of convective and evaporative heat loss from the body, thus making the occupant feel cooler without changing the dry bulb temperature of the air.

Hot air is less dense than cold air, which causes hot air too naturally rises to the ceiling level through a process called stratification. The most efficient and effective way of mixing the air in a stratified space is to push the hot air down to the occupant level. This allows for complete mixing of the air in the space while decreasing both heat loss through the building walls and roof, and building energy consumption. To avoid causing a draft, fans need to be run slowly so that air speed at the occupant level does not exceed 40 feet per minute (12 m/min).

OUR CLIENTS:

EVEREST

Reliance Industries Limited

ESSAR

Trolikan Imagine. Innovate

JK Files (India) Limited

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Seasons

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