



**Windsy**<sup>TM</sup>  
— HVLS Fans —

INDUSTRIAL  
**CEILING FANS**



**HVLS**  
HIGH VOLUME LOW SPEED



**Windsy**  
— HVLS Fans —

## About Us

At Windsy, we believe that air is more than just a necessity it's the breath of life, the invisible force that fuels productivity, comfort, and well-being. We are passionate pioneers in the field of advanced ventilation solutions, dedicated to transforming indoor environments through innovation, sustainability, and excellence.

With a focus on high-performance ventilation products and cutting-edge HVLS fans, our mission is to create smarter, healthier, and more energy-efficient spaces. Whether it's a large industrial facility, a warehouse, a commercial space, or an auditorium, our solutions are engineered to deliver unmatched airflow, reduce energy costs, and improve air quality.

Our HVLS fans are designed with precision to move massive volumes of air at low speeds providing silent, effective circulation that keeps spaces cool in the summer. Combined with our range of intelligent ventilation systems, we deliver solutions that are not only powerful but also sustainable.

At Windsy, we're not just moving air we're moving industries forward.

**Our Best in  
Class HVLS Fans  
are Designed for  
Making A  
Difference**



## Our Vision

To be a global leader in sustainable airflow solutions setting the benchmark for innovation, energy efficiency, and environmental responsibility in the ventilation and fan industry.

## Our Mission

To design and deliver world-class ventilation systems and HVLS fans that enhance comfort, performance, and indoor air quality.

To empower industries with energy-efficient, eco-conscious solutions that reduce operational costs and carbon footprints.

To foster innovation through engineering excellence, customer collaboration, and an unrelenting focus on quality.

## Core Values

### Performance that Matters

We deliver results you can feel, with systems that outperform expectations.

### Innovation by Design

Every product is crafted with the latest in aerodynamic engineering and smart technology.

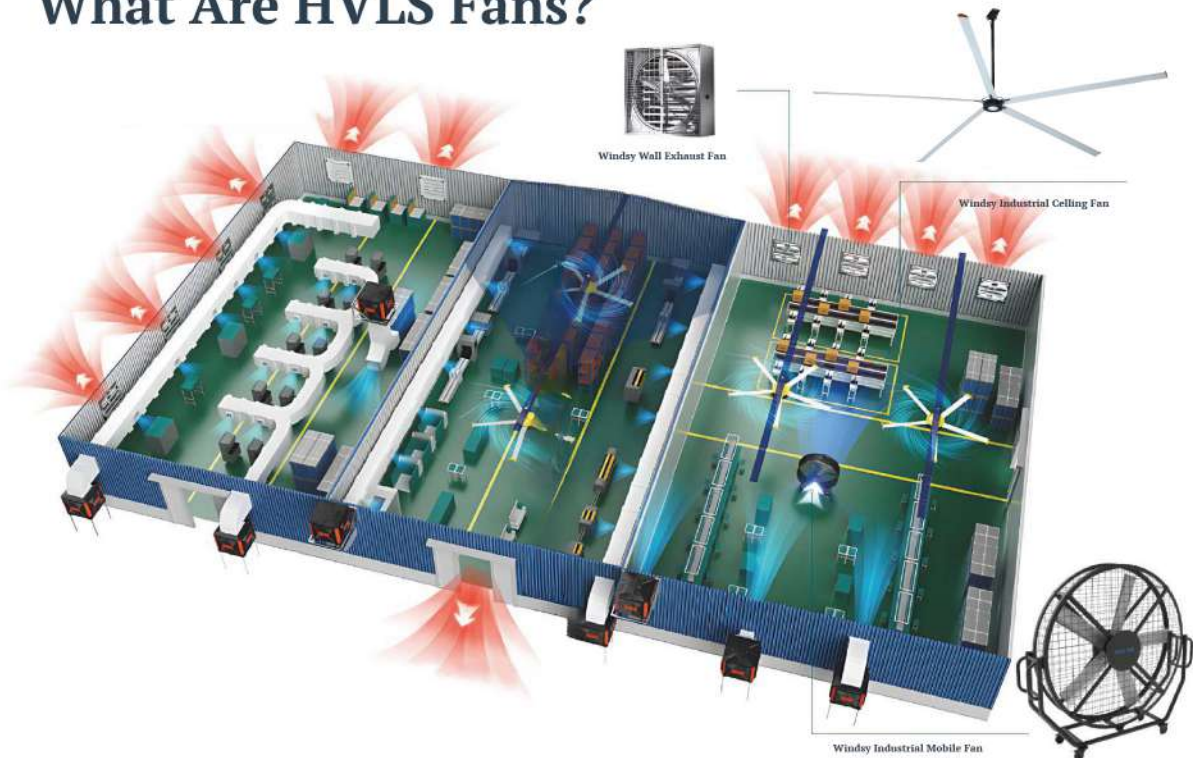
### Sustainability in Action

Energy efficiency is at the core of everything we do helping you reduce your carbon footprint while enhancing comfort

### Customer Focus

Listening, adapting, and exceeding expectations at every turn.

# What Are HVLS Fans?



HVLS (High Volume, Low Speed) fans are large-diameter ceiling fans engineered to move massive amounts of air efficiently and quietly. Unlike traditional high-speed fans, HVLS fans circulate air at a low rotational speed, creating a gentle, consistent breeze that enhances comfort and reduces energy costs in large spaces.

## Key Benefits of HVLS Fans

**Energy Efficiency:** Reduces HVAC load & lowers energy consumption by up to 30%.

**Enhanced Comfort:** Provides uniform air circulation, eliminating hot and cold spots.

**Year-Round Performance:** Cools in summer, redistributes warm air in winter for better thermal balance.

**Quiet Operation:** Operates silently despite its large size ideal for noise sensitive environments.

**Improved Air Quality:** Helps reduce humidity, Odors, and airborne contaminants.



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### HVLS Fans Suitable For

Ideal for warehouses, factories, gyms, commercial spaces, and large public areas, HVLS fans deliver comfort and efficiency at scale.

[www.windsyengineering.in](http://www.windsyengineering.in)

# Working Principle of HVLS Fan

HVLS (High Volume, Low Speed) fans are engineered to move a high volume of air at a low rotational speed, making them ideal for large spaces like factories, warehouses, commercial buildings, and public areas.

Their extra-large diameter ranging from 7 to 24 feet allows them to circulate massive amounts of air efficiently and uniformly across wide spaces.

## How It Works

### Vertical to Horizontal Airflow

As the fan blades rotate, they push a powerful column of air downward toward the floor. When this air reaches the ground, it spreads out evenly in **all directions**, creating a broad, continuous airflow pattern across the entire area.

### Evaporative Cooling Effect

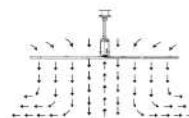
In hot and humid climates, the constant breeze generated by HVLS fans enhances **evaporation of sweat from the skin**, providing a natural cooling effect. This makes people feel **6–8°C cooler** even without lowering the actual room temperature.

### Consistent Air Circulation

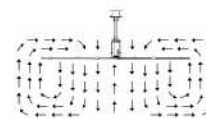
HVLS fans eliminate hot spots and stagnant air by maintaining a **uniform temperature** and continuous airflow throughout the space. This improves indoor comfort and air quality significantly.

### Energy Optimization

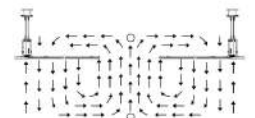
By improving natural air circulation, HVLS fans help reduce reliance on air conditioning or multiple smaller fans resulting in lower energy consumption and reduced operational costs.



Air flow in an open area



Air flow in an enclosed area



Air flow with multiple fans



## Our Certified in-house Technicians

### Professional Installation by Factory-Trained Technicians

To ensure optimal performance and safety, every HVLS fan installation is carried out by our in-house team of factory-trained technicians. With expert knowledge of our systems and strict adherence to industry best practices, our technicians guarantee a seamless and efficient setup. This professional service not only maximizes fan efficiency but also extends the lifespan of your investment.

### Which One Should You Choose?

Choose PMSM Motor HVLS Fans if you prioritize energy efficiency, silent operation, and minimal maintenance.

Choose Geared Motor HVLS Fans if you need a cost-effective, durable solution for rugged industrial conditions.



# HVLS Fans vs. Conventional Industrial Fans

## Why HVLS is the Smarter Choice

In large industrial and commercial spaces, choosing the right fan system is crucial for maintaining comfort, productivity, and energy efficiency. Here's why HVLS (High Volume, Low Speed) fans are a superior alternative to traditional high-speed industrial fans.

## Key Advantages of HVLS Fans

Feature	HVLS Fans	Conventional Industrial Fans
Air Coverage Area	Up to 10,000 sq. ft. per fan	Small localized area (100–120 sq. ft. per fan)
Airflow Pattern	Wide, even 360° circulation	Focused and turbulent
Energy Efficiency	Low power (0.5–1.5 kW)	Higher total power due to multiple units
Cooling Effect	Up to 6–8°C perceived cooling	Limited to direct airflow zones
Noise Levels	Whisper-quiet operation (<40 dB)	High noise levels (>70 dB)
Number of Units Needed	1 fan for large area	Multiple fans required to cover same space
Aesthetics & Clean Installation	Sleek ceiling-mounted design	Wall-mounted or pedestal units—space-consuming
Maintenance	Minimal, especially with PMSM motor	Frequent service (motors, blades, belts)
Safety	Enclosed motor, safety cables, auto shutoff	Exposed parts, more mechanical wear
Cost Over Time (TCO)	Lower total cost of ownership	Higher electricity and maintenance costs

### Summary of HVLS Fan Benefits:

- **Reduced Power Bills:** Uses fewer fans with higher coverage
- **Enhanced Comfort:** Uniform airflow with no dead zones
- **Lower Noise Pollution:** Quiet environment for better productivity
- **Fewer Units = Lower Maintenance:** One HVLS fan can replace 8–10 traditional fans
- **Improved Air Quality:** Better circulation reduces humidity, odors, and stagnant air

### Did You Know?

One 24-ft HVLS fan can replace up to 10 conventional wall-mounted fans, saving up to 50% on energy costs and reducing noise drastically.





## TECHNICAL SPECIFICATIONS

# PMSM MOTOR (GEARLESS)

Model	Size (Dia)	No Of Blades	Motor KW/HP	Max Speed (RPM)	Max Air Volume	Net Weight	Noise Level (db)
WE 7.3 G	24 FT	8	1.8 KW / 2.4 HP	55 RPM	17,930 m3/min	112 kg	<=38
WE 7.3	24 FT	6	1.5 KW / 2 HP	58 RPM	14,800 m3/min	106 kg	<=38
WE 7.3 L	24 FT	5	1.5 KW / 2 HP	62 RPM	13,200 m3/min	102 kg	<=38
WE 6.1	20 FT	6	1.0 KW / 1.35 HP	65 RPM	12,900 m3/min	94 kg	<=38
WE 5.5	18FT	6	0.75 KW / 1 HP	70 RPM	12,200 m3/min	72 kg	<=38
WE 5.0	16 FT	6	0.75 KW / 1 HP	80 RPM	11,500 m3/min	68 kg	<=38
WE 5.0 D	16 FT	5	0.5 KW / 0.7 HP	90 RPM	9,700 m3/min	60 kg	<=38
WE 3.6	12FT	8	0.3 KW / 0.4 HP	95 RPM	6,560 m3/min	42 kg	<=38
WE 3.0	10 FT	8	0.3 KW / 0.4 HP	110 RPM	5,530 m3/min	38 kg	<=38
WE 2.4	8 FT	8	0.3 KW / 0.4 HP	120 RPM	4,550 m3/min	34 kg	<=38

# TECHNICAL SPECIFICATIONS

## GEARED MOTOR

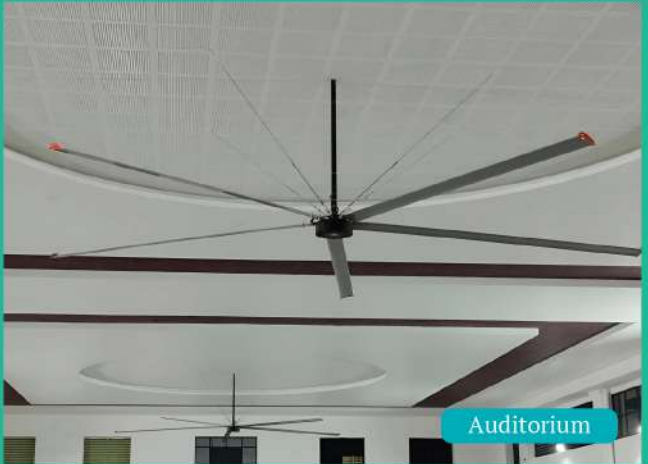
Model	Size (Dia)	No Of Blades	Motor KW/HP	Max Speed (RPM)	Air Flow (CFM)	Net Weight	Noise Level (db)
SA 7.3	24 FT	5	1.5 KW/ 2 HP	56 RPM	4,88,000	125 kg	<=45
SA 6.1	20 FT	5	1.5 KW/ 2HP	68 RPM	3,48,500	115 kg	<=45
SA 5.0	16 FT	5	1.1 KW / 1.5 HP	86 RPM	2,25,000	100 kg	<=45
SA 3.6	12FT	5	1.1 KW / 1.5 HP	91 RPM	1,28,700	88 kg	<=45
SA 3.0	10 FT	5	0.75KW/ 1 HP	114 RPM	98,100	80 kg	<=45
SA 2.4	8 FT	5	0.50KW / 0.7 HP	140 RPM	86,000	60 kg	<=45



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# APPLICATIONS



# PRIME CUSTOMERS



Craftsman  
PROFESSIONAL



OJI INTERPACK  
ORAGADAM



NIPPON STEEL



NUMERIC  
A Group brand | legrand



ZEBRONICS



MODINE  
APPLIED THERMAL INNOVATION™



GKN DRIVELINE  
AUTOMATION ORAGADAM



DSV  
DSV LOGISTICS  
CHENNAI



Accurate  
ACCURATE PRODUCTS  
CHENNAI



Rane  
Expanding Horizons



KUNAL TUBES



ACCUMETRIC



PRESIDENCY  
UNIVERSITY



CEV  
CEV Engineering Private Limited



TEXPORT Synchate (India) Limited  
ADVANCED MATERIAL DIVISION



GOKALDAS EXPORTS  
LIMITED



Fuji Electric  
Innovating Energy Technology



EMERSON



TITAN  
EYEWEAR



RIKUN



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