

Ashruly

(An ISO 9001-2008 Certified Company)

High Volume Low Speed (HVLS) Fan

We Provide Gearless Direct Drive Fan Technology

India's only fully indigenous 24' direct drive fan in the market



www.ashruly.com

HVLS Fan Introduction

High Volume Low Speed (HVLS) fans are widely used in industrial & commercial setups due to their superior performance to provide comfort, energy savings, and versatility. When compared to traditional high-speed fans, HVLS fans offer the architects and engineers greater control over the design and implementation of air circulation strategies in large & high ceiling environments.

With diameters up to 24 feet, HVLS fans solve air quality problems by circulating large air masses seamlessly. The design, mechanics and size of HVLS fans yield unique advantages that no other technology can match.

HVLS Fan Advantages

- * Highly Energy Efficient
- * Full Encompassing air circulation
- * Effects air to cool, warm and comfort people
- * De-stratifies heat layers for winter comfort
- * Promotes healthier air quality
- * Keeps wet, moist areas dryer
- * Decreases bacteria, mold, mildew, spoilage
- * Improves livestock comfort performance
- * Deters birds, bugs, flying insects
- * Reduces heat stress
- * Long life mechanical efficiencies
- * Ergonomically located for safety
- * Warm air in winter

How it works: cutting down costs

Operating on its own: replaces the stale air increasing evaporation from skin. Perceived temperatures are 7-10°C lower. Productivity rises on 10%. No need to cut operating hours during heat waves.

Operating with heating: which means less noise from operating heating units and up to 20% savings on heating costs.

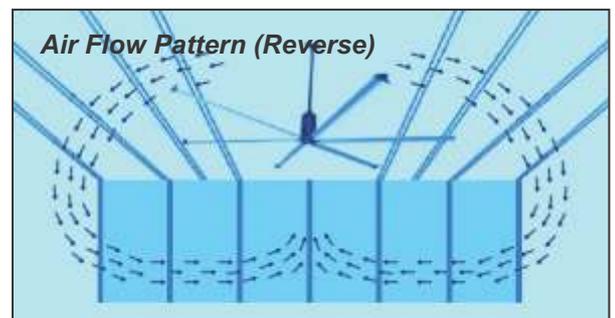
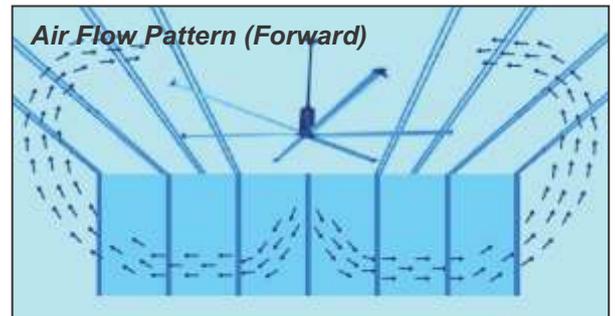
Operating with HVAC: Thermostat of the air-conditioning unit can be set 5-7°C warmer without noticed difference. HVAC system can be operating for fewer hours, which allows saving up to 30% on cooling costs.

Using HVLS instead of standard fans: less noise, less energy consumption, less waste. 24' HVLS can replace 6 standard 3' fans operating at high speeds, providing up to 90% reduction in electricity consumption.

Using HVLS for removing condensate: moving dry air eliminates condensation problem on the floor, protects surface from rust, products from discoloration, equipment from damage and creates safer environment for people and animals.

Using HVLS to protect building: prevent growth of mold, mildew and bacteria associated with high humidity, which eliminates health and safety concerns and unnecessary renovations.

Ashruly mfg HVLS fans has forward & reverse airflow adjustment



Six-Blade Comfort Solution

- * Available blade sizes of 12' to 24' (3.6 m to 7.3 m, fan diameter)
- * Innovative and aerospace-inspired blade design, moves more air with less energy
- * Six-airfoil system increases air velocity in summer and destratifies hot air pockets in winter
- * Produces a higher distribution of airflow than other styles of airfoils
- * Complements existing HVAC systems
- * Reduces condensation, corrosion and mold
- * Quiet operation

Low on Cost, High on Performance

- * Energy cost reduction of up to 30%
- * Lowers perceived temperatures by up to 10°C
- * Reduces air conditioning usage
- * Increases employee comfort and productivity in medium to large locations

A Simple Example of Energy Savings 36" High Speed Fan v/s 24' HVLS Fan

36" High Speed Fan	24' HVLS Fan
10,000 CFM	425,000 CFM
Fans to match CFM - 27	to 1
Power: 14.53 kw	1.5 kw
Life 3-5 years	Life 10+ years
Rebuildable : No	Yes
Maintenance: Yes	Low or None



Comparison of Direct Drive and Geared HVLS Fans

The motor is the heart of any HVLS fan. It's the power that drives the blades and is critical in determining a fan's efficiency, performance and durability.

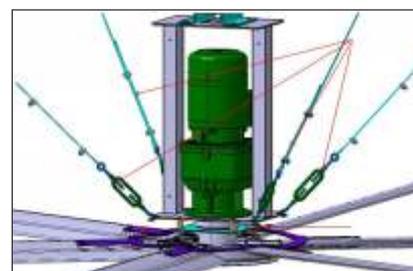
Direct Drive HVLS Fans (Ashruly make)

- Sensor less permanent magnet brushless DC motor, 0.29 kw to 2.5 kw
- Gearless direct drive eliminates the gearbox, increasing efficiency and durability while decreasing noise and weight
- Only two moving parts, requiring zero maintenance
- Zero liquids, no oils that could leak from a gearbox
- IP 66 rated for outdoor environments
- Hanging weight: 80 Kg
- Maximum RPM: 75



Geared HVLS Fans

- AC induction motor, 1.5 kw to 2.5 kw
- Large, heavy custom gearbox
- Dozens of moving parts in motor and gearbox
- Gearbox is oil filled
- IP 55 rated, not for outdoors
- Hanging weight: 160 Kg
- Maximum RPMs: 60



HVLS Fan Specifications

Fan Diameter	Height from-floor Min-Max	Brushless DC Motor	Airflow CFM approx.	Working Area Sq.ft. approx.	RPM
7300 mm (24 ft)	9 - 11.5 m	1.5 kw	425,000	19,400	50 - 75
6100 mm (20 ft)	7 - 8.5 m	0.75 kw	380,000	16,800	60 - 80
4900 mm (16 ft)	6 - 7.5 m	0.75 kw	346,000	14,900	70 - 100
3600 mm (12 ft)	5 - 6.5 m	0.25 kw	300,000	12,900	70 - 110

Ashruly HVLS Fan



Available in following shades

- Black
- Silver

Remote Device of HVLS Fan



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Address: Ashruly (India) Pvt Ltd.
D 51, Ranjangaon MIDC, Pune
Maharashtra India 412220

Office: +91-989-042-9062

Mobile: +91-976-453-9797

Email: sales@ashruly.com

Website: www.ashruly.com