

# MACROFAN

The Quality that speaks for itself



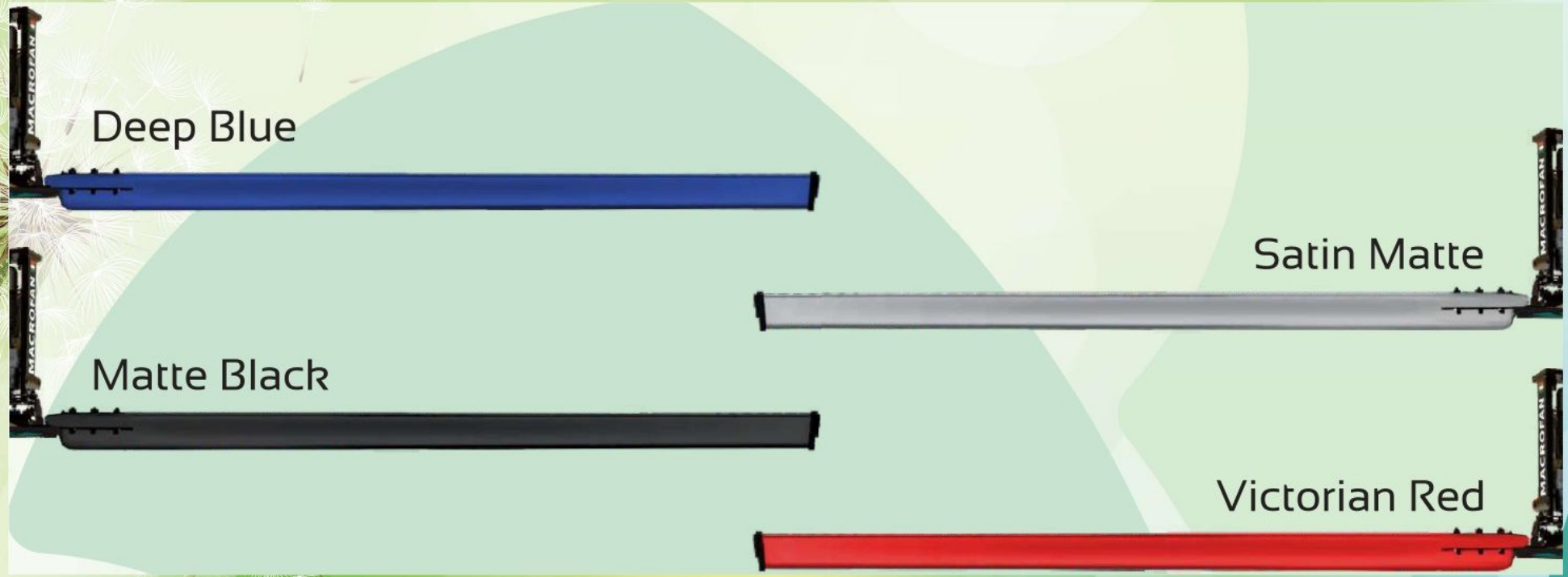
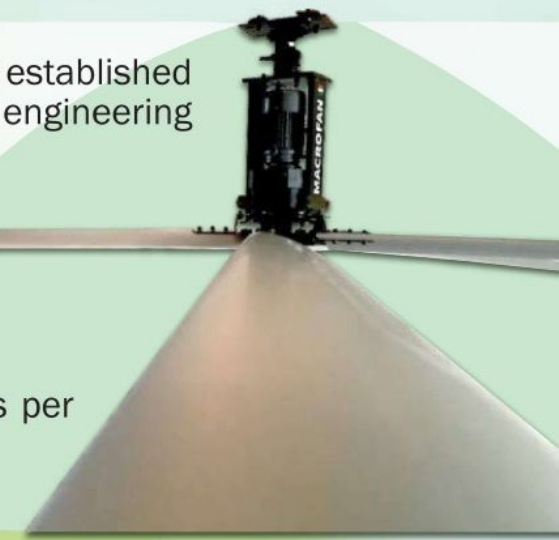
Powered By

## Perfect Exclusive Works

The Perfect Exclusive Works is a part of Perfect Engineering group of companies which was established in the year 1965. We can say that we are 56 years young company with the expertise in all engineering works. We are the leading supplier to ISRO.

Perfect Exclusive Works is created to manufacture exclusive HVLS Fans with optimal safety features and easy to install technology. We in Perfect are committed to give the best and premium class products since ages.

For HVLS fans we have sizes from 8 feet diameter to 24 feet diameter geared fans. As per requirement we can customise the size and colour as required.

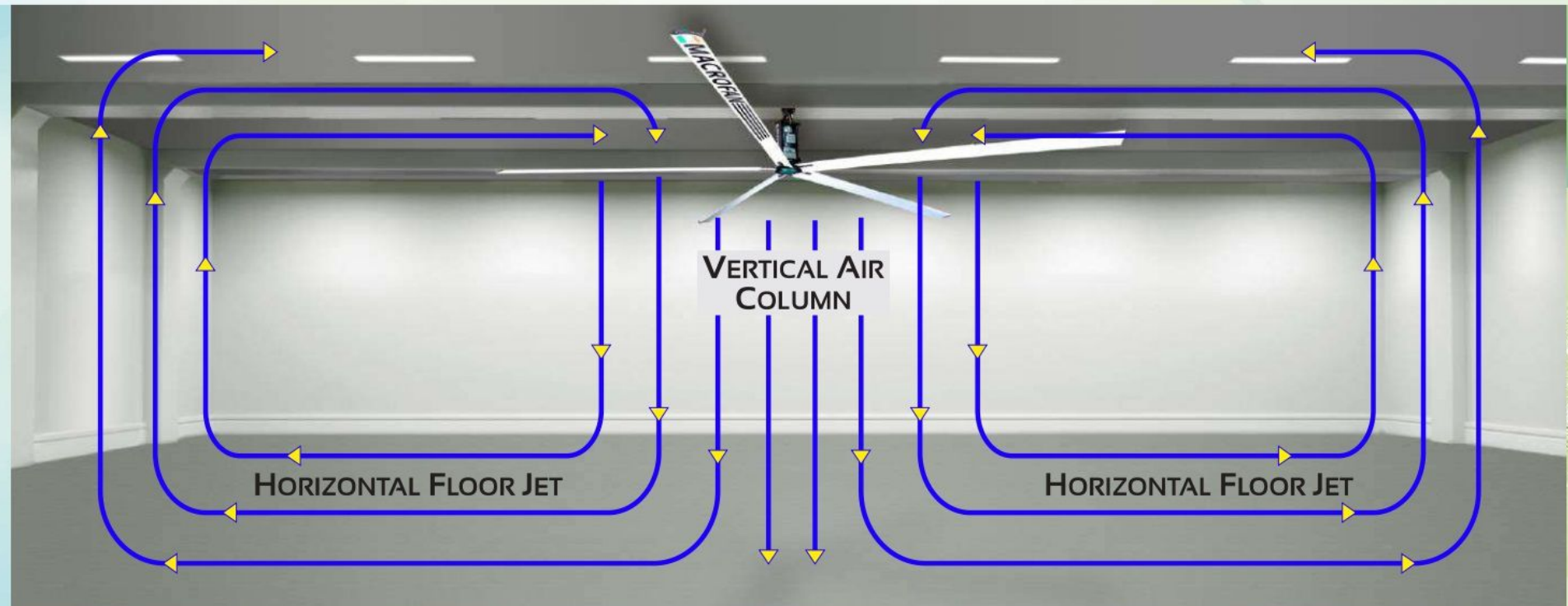


## MacroFan - Moving massive amounts of air comfortably and silently

Your warehouse is a big and voluminous space. Proper cooling and ventilation is important to increase work comfortability and productivity of people while preserving freshness of goods.

Our HVLS (High Volume Low Speed) fan provides advanced technology for high distribution of airflow throughout the entire warehouse space in the most energy efficient way and reduce dead heat spots or destratification, which is stagnant air formation.

With MacroFan, productivity and comfort of persons increases while reducing condensation, corrosion and mold on your equipment and goods.



MACROFANS produces a massive, cylindrical column of air that flows down to the floor and outward in all directions, creating a horizontal floor jet that consistently circulates air in large spaces. This “horizontal floor jet” pushes air a greater distance before it is pulled back vertically toward the blades. The greater the down floor, the greater the air circulation and resulting benefits.



## Superior Technical Features

High performance motors and drive system - enables the fan speed to be regulated to precise speeds while reducing energy consumption considerably.

Aerodynamically designed, light and highly strong fan blades - made from special aircraft aluminium with a highly optimised blade tail ensures vortices are not formed at the tip of the blades which can cause air resistance and energy losses.



High torque drive in control system - With frequency inverter drive, the fan motors are powered at the most efficient energy level while offering surge and motor protection against electrical faults.

Energy saving - A large HVLS fan covers a big area and saves much more energy than many small ceiling fans. And there's never the need to run MacroFan at full speed - its fan blades are designed to produce powerful consistent airflow ensures noiseless operation through its streamlined profile.

## A Refreshing Breeze

MACROFAN uses patent pending 240mm wide "Cambered Airfoil" blade technology which produces a large column of air which flows down to the floor and outward in all directions, creating a horizontal floor jet that effectively circulates air to Greater distances. It also has a much longer cord length that yields most precise airflow and higher mechanical efficiencies.

Slow moving MACROFAN creates a 4-5 kmh breeze which breaks the moisture saturated boundary layer surrounding the body, accelerating evaporation to produce a cooling effect up to 4-6o C in perceived temperature.





## Geared Motor

### Technical Specifications

MACROFAN Model Code	No. Of Blades	Fan Dia	Motor Power	Full Load	Max Speed (RPM)	AirQty (CFM)	Area Coverage - Feet in Diameter from the centre of Fan	Sound (dB)	Weight (kg)
			Kw / Hp	Current Ampere					
MF-GR-24	5	24' (7.3m)	1.5 / 2.0	3.15@440V	55	402600	90	60	148
MF-GR-20	5	20' (6.0m)	1.5 / 2.0	3.15@440V	60	345100	80	60	140
MF-GR-18	5	18' (5.4m)	1.5 / 2.0	3.15@440V	60	324158	75	60	136
MF-GR-16	5	16' (4.9m)	1.1 / 1.5	2.15@440V	70	185650	70	60	128
MF-GR-14	5	14' (4.2m)	1.1 / 1.5	2.15@440V	70	154526	60	60	118
MF-GR-12	5	12' (3.6m)	1.1 / 1.5	1.94@440V	98	138860	50	58	106
MF-GR-10	5	10' (3.0m)	1.1 / 1.5	1.94@440V	98	112545	40	58	98
MF-GR-08	5	08' (2.4m)	1.1 / 1.5	1.94@440V	98	89500	30	58	92

**MacroFan, renowned for delivering the best in High Volume Low-Speed (HVLS) fans, proudly offers both geared motor and gearless motor options to suit your specific requirements.**

# GEARLESS MOTOR NOISE LESS

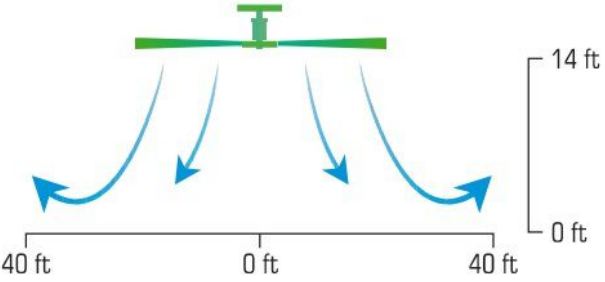
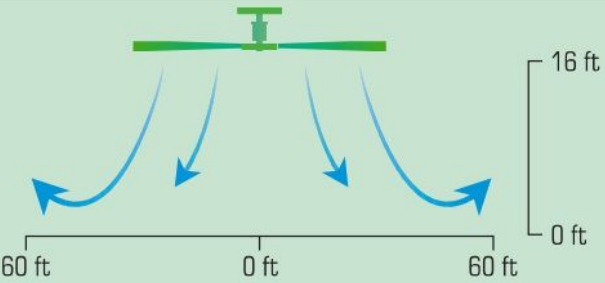
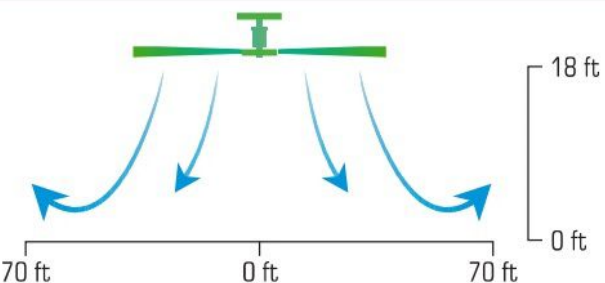
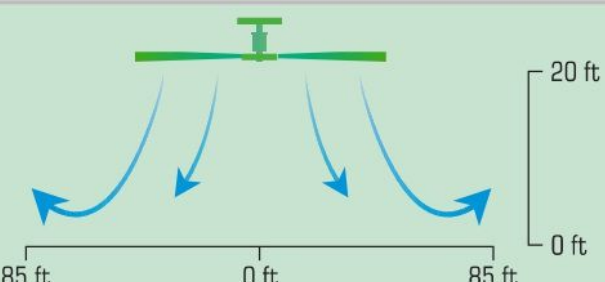
## Technical Specifications

MACROFAN Model Code	No. Of Blades	Fan Dia	Motor Power	Full Load	Max Speed (RPM)	AirQty (CFM)	Area Coverage - Feet in Diameter from the centre of Fan	Sound (dB)	Weight (kg)
			Kw / Hp	Current Ampere					
MF GL 24	5	24' (7.3m)	1.4 / 2.0	1.8@ 440V	50	402600	90	39	128
ML GL 20	5	20' (6.0m)	1.4 / 2.0	1.8@ 440V	50	345100	80	39	125
ML GL 18	5	18' (5.4m)	1.4 / 2.0	1.8@ 440V	50	324158	75	39	120
ML GL 16	5	16' (4.9m)	1.2 / 1.5	0.9@ 440V	70	185650	70	39	115
ML GL 14	5	14' (4.2m)	1.2 / 1.5	0.9@ 440V	70	154526	60	39	110
ML GL 12	5	12' (3.6m)	1.2 / 1.5	0.9@ 440V	70	138860	50	39	106
ML GL 10	5	10' (3.0m)	1.2 / 1.5	0.9@ 440V	70	112545	40	39	101
ML GL 08	5	08' (2.4m)	1.2 / 1.5	0.9@ 440V	70	89500	30	39	98

MacroFan is thrilled to announce the introduction of the "GearLess" option, now available due to popular demand!



# Air Flow Specifications

<p><b>12</b> FEET DIAMETER</p> <p><b>MF-GR-B5 12</b></p>	<p>Fan Diameter.....12ft. (3.7mtrs.)            Max. Coverage Diameter.....80ft.            Min. Installation Height.....14ft (Blade Distance from Floor)            Min. Clearance from Roof.....3ft.            Air Movement.....138860 CFM            Max. RPM.....103 RPM            Motor Rating.....1HP (0.75kw)            Amp Rating System.....1.94amps @440v            System Weight.....116kgs</p>	
<p><b>16</b> FEET DIAMETER</p> <p><b>MF-GR-B5 16</b></p>	<p>Fan Diameter.....16ft. (4.9mtrs.)            Max. Coverage Diameter.....120ft.            Min. Installation Height.....16ft (Blade Distance from Floor)            Min. Clearance from Roof.....4ft.            Air Movement.....185650 CFM            Max. RPM.....70 RPM            Motor Rating.....1.5HP (1.1kw)            Amp Rating System.....2.15amps @440v            System Weight.....132kgs</p>	
<p><b>20</b> FEET DIAMETER</p> <p><b>MF-GR-B5 20</b></p>	<p>Fan Diameter.....20ft. (6.1mtrs.)            Max. Coverage Diameter.....140ft.            Min. Installation Height.....18ft (Blade Distance from Floor)            Min. Clearance from Roof.....5ft.            Air Movement.....345100 CFM            Max. RPM.....60 RPM            Motor Rating.....2HP (1.5kw)            Amp Rating System.....3.15amps @440v            System Weight.....148kgs</p>	
<p><b>24</b> FEET DIAMETER</p> <p><b>MF-GR-B5 24</b></p>	<p>Fan Diameter.....24ft. (7.3mtrs.)            Max. Coverage Diameter.....170ft.            Min. Installation Height.....20ft (Blade Distance from Floor)            Min. Clearance from Roof.....5ft.            Air Movement.....402600 CFM            Max. RPM.....53 RPM            Motor Rating.....2HP (1.1kw)            Amp Rating System.....3.15amps @440v            System Weight.....158kgs</p>	

## MACROFAN Ventilation Coverage

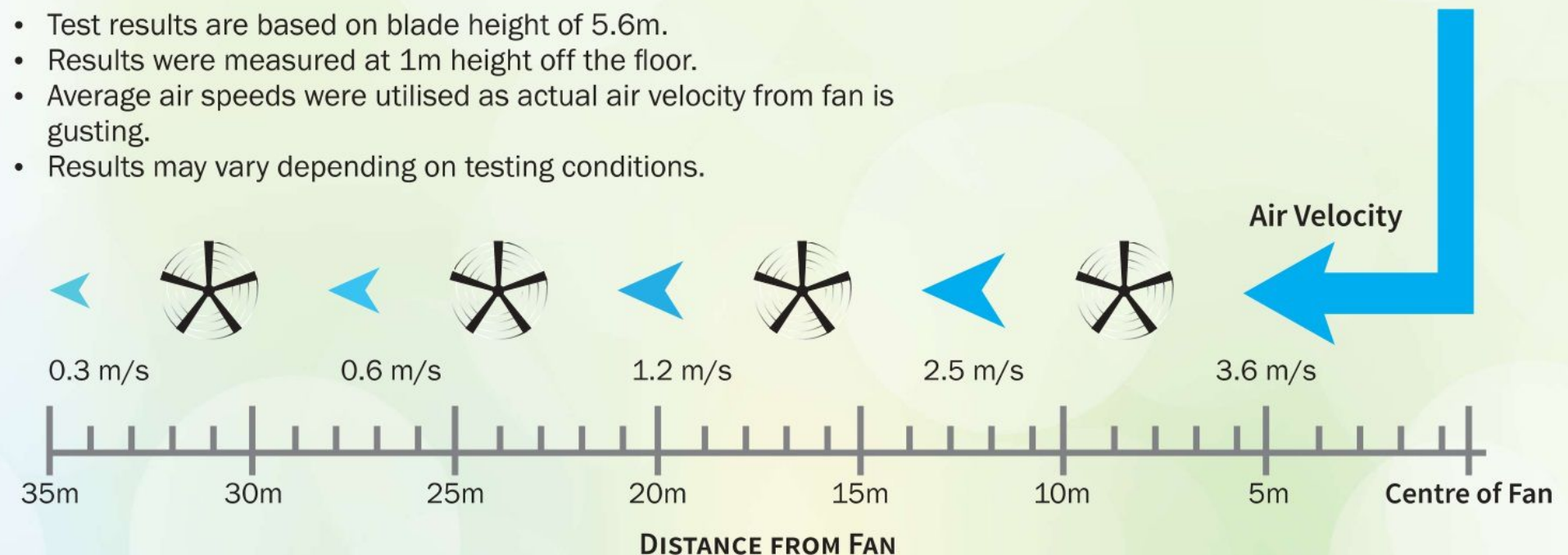
Our MacroFan HVLS airflow pattern ensures air movement reaches all corners of your facility, maintaining consistent conditions throughout your building. Within the coverage areas, a person will feel the three dimensional natural breeze from four directions, so that the whole body would be covered by the air flow. Unlike traditional High Speed fan which blows directly to the human body or a

specific zone and may result in different areas of cooling or leads to dusty environment, the HVLS fan provide an optimum all around air speed of 1-3 m/s at a rotational speed off between 55 - 75 RPM, which is the best speed that humans can enjoy holistically, A 24' (7.3 m dia) fan can cover upto 8500 sq ft area, moving air up to 40m in all directions from the centre off the fan.

### Flow Diagram

#### 7.3m MACROFAN

- Test results are based on blade height of 5.6m.
- Results were measured at 1m height off the floor.
- Average air speeds were utilised as actual air velocity from fan is gusting.
- Results may vary depending on testing conditions.





## Not all fans need a ceiling

At MACROFAN we believe that innovation distinguishes between a leader and a follower. Hence, for the very first time in India, we introduce the concept of pole mount HVLS fans. These fans are specially designed for places without a ceiling such as party lawns, Garden, restaurants, stadiums, amphitheatres.

MACROFAN creates a multi directional air flow which virtually gives feeling of a natural breeze around the body. As a stand alone cooling system or in conjunction with HVAC, MACROFAN provide an efficient, cost effective solution to cooling large Open spaces that enhances the comfort and productivity of occupants. Yielding documented cost savings, micro fan contribute to LEED®, certification and Building System economies.

- Whisper quite in performance.
- Creates 100% NATURAL BREEZE effect.
- Patent pending 240mm “Cambered Air foil” blades.
- Delivers 35% more air flow than the leading competitor’s comparable model.
- Creates 360° air flow.
- Better aerodynamics, lower consumption.
- Customized mounting options.
- Custom colors in powder coating & anodizing available.
- Precisely balanced for minimal vibration.
- Upto 30% saving on CAPEX.
- 5 point safety system.
- Genuine warranty & reliable after sales support.





## A Customer Centric Approach



We study your establishment in terms of the dimension roofing structure plant layout and existing environment. Post which we come up with a customized solution to create a perfect working environment.



MACROFAN is designed and manufactured in India. Our products match International brands in terms of Technology and quality standards. It's the latest generation of geared Motors for unparalleled performance.



Onsite assembly and installation search for massive device is very complex. Our skilled taskforce easily handles the installation at your facility within hours following strict safety norms and industry standards.



We believe in building a strong and sustainable relationship with our clientele. Hence if you need any assistance post installation we are just a call away.

## One Fan Numerous Applications

*- from Satisfaction till loyalty*



PLACES OF WORSHIP



DAIRY FARMING



FACTORY



PARTY LAWN



SERVICE CENTRE



SPORTS COMPLEX



STADIUM



WAREHOUSE





# MACROFAN

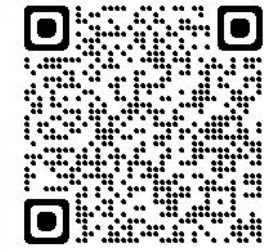
## Our valueable Clients

Jagtap Engineering Works (Vadodara GIDC Makarpura)  
Govardhan EcoVillage (GEV) ( Wada, Maharashtra 421303)  
ISKCON (Navsari, Gujarat 396445)  
Hitachi Metals India Private Limited. (Gurugram Haryana)  
Hind Elastomers Pvt. Ltd. (Bhiwandi)  
BGS NATIONAL PUBLIC SCHOOL (Bengaluru)  
Arwachin Bharti Bhawan Senior Secondary School (New Delhi)  
BGS International Public School (Bengaluru)  
Narayan Powertech Pvt. Ltd. (Padra)  
SORGEN INC (Por)  
Nikkiso Cosmodyne India Private Limited (Por)  
Elmex Controls Private Limited (Vadodara GIDC Makarpura)  
Shankar Dairy (Umeta)  
Kirti Stampings Pvt. Ltd (Palej)  
Stomy Engineering Works (Vadodara GIDC Makarpura)  
Chembond Water Technologies Limited. (Mumbai)  
AFC System Private Limited (New Delhi)  
Arwachin world School (New Delhi)  
Proterial (India) Pvt Ltd (New Delhi).  
Abirami Soap Works (Pondicherry).  
Puduvai Packaging (Pondicherry)  
Yera International Shreno ltd (Baroda)  
Parmanand Industries (Baroda)  
Alembic Group, Baroda Polyform (Savli)

etc etc....







# MACROFAN



## Perfect Exclusive Works

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