



ecoair

Cooling Systems Solutions

Eco-Friendly and Economic Cooling Solutions



About Ecoair

Incorporated in 2011, Ecoair Cooling Systems, is the leading Indian manufacturer of Industrial Evaporative Air Coolers, High-Volume Low-Speed (HVLS) Fans, Exhaust Fans and other Ventilation products.

Ecoair's prestigious customer base is supported globally through dedicated service teams and a strong partner network across multiple projects and locations. Ecoair's UL/CE certified products have a design philosophy focused on safety, quality, customer requirements, reliability and durability. Ecoair products offer the best global technology at the most competitive pricing with assured hassle free service support and spares.



Ecoair cooling and ventilation systems create comfortable environments in Industrial Shopfloors, Warehouses, Railway Stations, Airports, Restaurants, Kitchens many other public places by supplying Cool, Filtered, Fresh, Oxygen rich air controlling humidity and temperature using innovative, customized solutions as per customer requirements.

Our Purpose

We commit to be on the journey of creating simple, economic and eco-friendly functional air solutions for cool and comfortable ambience for that are enhancing productivity. Customer focused and create customized solutions. Our core values are fundamental to our existence and will continue to guide the way we conduct business.

We continuously strive for creating comfort

- Comfortable cooling, drop temperature up to 20°C with high air flow
- Fresh, filtered, cool and oxygen rich air
- Dust control
- Control the humidity and temperature
- Proper air distribution
- Open space cooling
- Exhausting large volumes of air

Ecoair Product Range



HVLS FANS

High-Volume Low-Speed (HVLS) fans are large ceiling fans that provide a cooling effect on people, with a perceived temperature reduction of 4 to 6 degrees for the human body. One fan can replace multiple wall-mounted fans, reducing power consumption by up to 70%, with a payback period of less than 6 months. These fans are a cost-effective and energy-efficient solution for improving air circulation and comfort in large industrial and commercial spaces.

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EVAPORATIVE AIR COOLING

Evaporative Air Cooling is one of the most economical and traditional methods of cooling an environment. These coolers use CelDek pads and work on the principle of evaporation. They can achieve fresh air and comfort cooling of up to 20 degrees. Energy-efficient motors reduce power consumption and are environmentally friendly. The UV-treated body enables the use of the machine in any harsh environment.

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EXHAUST FANS

Exhaust fans are meant for ventilation and ensuring air changes as per statutory requirements in shop floors, warehouses, assembly lines, garment factories, food processing facilities, etc. Energy-efficient motors with direct drive reduce power consumption, and SS blades are corrosion resistant and facilitate better heat dissipation. Gravity louvers prevent dust ingress when the fan is switched off.

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YU GO FANS

YU GO are portable floor-mount HVLS fans. Mobility is the USP of these fans, as they can be moved to any location with ease. They provide higher coverage in a uni-direction and are suited for applications where ceiling-mounted HVLS fans cannot be installed, such as warehouses, party lawns, and marriage halls.

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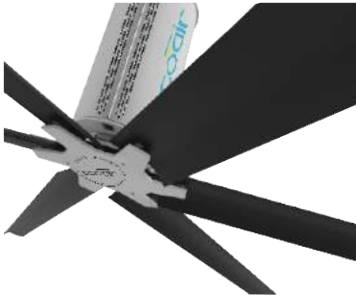


AIR CIRCULATORS

Air Circulators are 2x2 grid fans designed to be installed in false ceilings. In combination with air conditioners, they reduce the load on AC units and eliminate hot spots, thus improving air circulation and maintaining a uniform room temperature.

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Ecoair HVLS Fans



Geared Motor HVLS Fan



Pole Mounted HVLS Fan

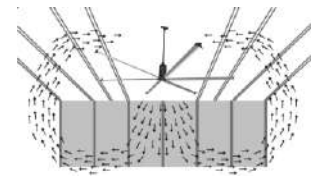


PMSM HVLS Fan

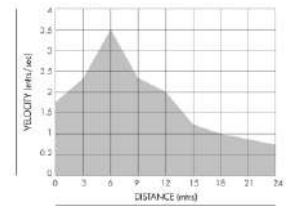
Benefits & Safety Features

- High Performance industrial fans
- Single fan replaces multiple wall mounted fan
- Distributes air up to 28,000 sq.ft., corner to corner, outstanding coverage without draft.
- Up to 80% Reduction in running costs and payback in 6 months.
- Variable speed Control using VFD to set and control airflow. Reverse operation options.
- Earn LEED credits for sustainable design.
- 6061 T6 Aluminum Alloy Used for Aerofoil Blades.
- IP 55 Motor & Gearbox with Synthetic Oil from Germany-world leaders in Transmission Technology.
- High Grade Steel upto 12mm thick with Hot Dip Galvanizing for best anti corrosion protection.
- PVC Coated GI wire ropes with 700Kg Tensile Strength (each)
- Extremely high levels of world class primary safety for all components:
 - 40 mm Shaft Dia.
 - M14 Bolts for Structure & Chassis
 - Nylock Nuts and Thread Locker for all fasteners
 - Steel EN 10025 - 90 for Structure & Chassis with additional PVC Coating, Etc.

HVLS Fans Air Flow Pattern



Air Flow Pattern



Following reading are valid for 24' dia fan and approx value

Ecoair HVLS Specifications

(Optional IE3 Motor IPCC)

| MODEL NO. | FAN DIAMETER | POWER SUPPLY | MOTOR | HEIGHT FROM FLOOR(Mtr) | ROTATION (RPM) |
|-------------|--------------|--------------|---------|------------------------|----------------|
| EAHVLS 7E | 24 Feet | 3ph | 1.5 kw | 9/11.5 | 52 |
| EAHVLS 6E | 20 Feet | 3ph | 1.5 kw | 9/11.5 | 66 |
| EAHVLS 5E | 16 Feet | 3ph | 1.1 kw | 6/7.5 | 72 |
| EAHVLS 4E | 12 Feet | 3ph | 1.1 kw | 5/6.5 | 85 |
| EAHVLS 3E | 10 Feet | 3ph | 0.75 kw | 5/6.5 | 110 |
| EAHVLS 2.4E | 08 Feet | 3ph | 0.75 kw | 5/5.5 | 120 |

Note: Our Fan is compatible with Three Phase supply. * As Per Standard Test Conditions

(*weight of HVLS fan - approx 150Kgs (dynamic weight))

Standard Applications



Ecoair EMF PMSM HVLS Fans



Features & Advantages

- PMSM- (Permanent Magnet Synchronous Motor), Brushless Motor with High Torque at Low RPM.
- Exceptionally Low Maintenance- Service interval >1,00,000 Hours, with 24x7 operation continuously at full speed.
- One of The Worlds Most Energy Efficient Motors- 30% Lower Power Consumption, compared to normal HVLS Fans.
- Extremely Low Sound - No Gearbox, Direct drive less than 45 db @ 1mtr
- High Pole Motor-66 poles & 6 pole winding specially designed for HVLS fan application
- 5 Blade 6061T6 Aluminum Alloy blade - High Strength & Durability
- Primary and Secondary Safety features for Anti Fall Protection for all components of the Fan.
- 0% Derating of the fan performance over the life of the fan.

Best Suited For Application

- 24x7 Operation & Low Sound Applications.
- Airports, Railway Stations, Bus Stands, etc Auditorium, Cinema Halls, Theaters, etc.
- Air Conditioned Building to Lower A/c Running cost.
- Warehouses, Shop Floors, Factories.
- Malls, Shopping Centers, Departmental Stores, Temples, Mosques, Churches, Prayer Halls.

Ecoair PMSM Fan Specifications

| MODEL NO. | FAN DIAMETER | POWER SUPPLY | MOTOR | HEIGHT FROM FLOOR(Mtr) | ROTATION (RPM) |
|-----------|--------------|--------------|---------|------------------------|----------------|
| ECOPM7300 | 24 Feet | 1PH/ 3PH | 1.1 kw | 9/11.5 | 52 |
| ECOPM6000 | 20 Feet | 1PH/ 3PH | 1.1 kw | 9/11.5 | 68 |
| ECOPM4800 | 16 Feet | 1PH/ 3PH | 0.63 kw | 6/7.5 | 72 |
| ECOPM3600 | 12 Feet | 1PH/ 3PH | 0.29 kw | 5/6.5 | 86 |
| ECOPM3048 | 10 Feet | 1PH/ 3PH | 0.29 kw | 5/6.5 | 100 |
| ECOPM2400 | 08 Feet | 1PH/ 3PH | 0.29 kw | 5/5.5 | 110 |

Note: Our Fan is compatible with Single Phase & Three Phase supply. * As Per Standard Test Conditions

Standard Applications



Ecoair PMSM HVLS Fans



Features & Advantages

- PMSM- (Permanent Magnet Synchronous Motor), Brushless Motor with High Torque at Low RPM.
- Exceptionally Low Maintenance- Service interval >1,00,000 Hours, with 24x7 operation at continuously full speed.
- Energy Efficient Motors- 30% Lower Power Consumption, compared to normal HVLS Fans.
- Extremely low sound – No Gearbox, Direct drive less than 50 dB @ 3 mtr
- 5 Blade Al Alloy 6061T6 Aluminum alloy blade - High Strength & Durability
- Primary and Secondary Safety features for Anti Fall Protection for all components of the Fan.

Best Suited For Application

- Continuous Duty Low sound.
- Airports, Railway stations, Warehouse
- Shopping Malls & Cinema House.
- Air Conditioned Building to lower A/c running cost.
- Shop Floors, Factories, Temple
- 24*7 Operation and Low Sound Application

Ecoair PMSM Fan Specifications

| MODEL NO. | FAN DIAMETER | POWER SUPPLY | MOTOR | HEIGHT FROM FLOOR(Mtr) | ROTATION (RPM) |
|-----------|--------------|--------------|---------|------------------------|----------------|
| EABPM7E | 24 Feet | 3ph | 1.5 kw | 9/11.5 | 52 |
| EABPM6E | 20 Feet | 3ph | 1.5 kw | 9/11.5 | 65 |
| EABPM5E | 16 Feet | 3ph | 0.85 kw | 6/7.5 | 72 |
| EABPM4E | 16 Feet | 1ph | 0.75 kw | 6/7.5 | 72 |
| EABPM3E | 12 Feet | 1ph | 0.4 kw | 5/6.5 | 86 |
| EABPM2.4E | 10 Feet | 1ph | 0.4 kw | 5/6.5 | 100 |
| EABPM2.4E | 08 Feet | 1ph | 0.4 kw | 5/5.5 | 120 |

Note: Our Fan is compatible with Single Phase & Three Phase supply. * As Per Standard Test Conditions

Standard Applications



Ecoair Pole Mounted HVLS Fans



Features & Advantages

- High performance fan for indoor & outdoor applications such as lawns, Restaurant etc.
- Single fan replaces multiple wall mounted fan
- Distributes air up to 17,000 Sq.ft., corner to corner, outstanding coverage without draft consuming only 1.5KW power.
- Variable speed controller to set and control airflow.
- reverse operation options.

Best Suited For Application

- Dual Advantage - Can be used both indoor and outdoor
- Resorts, Auditoriums, Wedding Halls, Shopping Malls
- Warehouse, Shop Floor in Factories
- Railway Stations, Bus Stands, Prayer Halls

Ecoair Pole Mounted HVLS Specification

| MODEL NO. | FAN DIAMETER | POWER SUPPLY | MOTOR | WORKING AREA Sq.Ft. APPROX. | ROTATION (RPM) |
|-------------|--------------|--------------|---------|-----------------------------|----------------|
| ECOPOLE7E | 24 Feet | 3ph | 1.5 kW | 16,900 | 52 |
| ECOPOLE6.3E | 20 Feet | 3ph | 1.5 kW | 10,500 | 66 |
| ECOPOLE4.9E | 16 Feet | 3ph | 1.1 kW | 9,000 | 72 |
| ECOPOLE4E | 12 Feet | 3ph | 1.1 kW | 6,800 | 85 |
| ECOPOLE3E | 10 Feet | 3ph | 0.75 kW | 5,500 | 110 |
| ECOPOLE2.4E | 8 Feet | 3ph | 0.75 kW | 4,500 | 120 |

All Ecoair Pole Fan HVLS Models are 3 phase, 415 volts, 50Hz

Note: Our Fan is compatible with Three Phase supply. * As Per Standard Test Conditions

Standard Applications



Ecoair BLDC HVLS Fans



Features & Advantages

- BLDC: Brushless DC Motor in Single Phase - Avlbl in 6 ft & 8 Ft
- Very Low maintenance & Low Power Consumption
- 5 Blade High Grade Aluminum Alloy 6061 T6 with Primary & Secondary Safety
- Anti fall protection for all components

Best Suited For Application

- Outdoor Stadium under Tensile Roof
- Low Roof Auditoriums, Conference Rooms, Reception Area
- Hospitals, Corporate Offices, Restaurants
- Villas, Resorts, Play Areas, Clubs

Ecoair BLDC HVLS Fans Specification

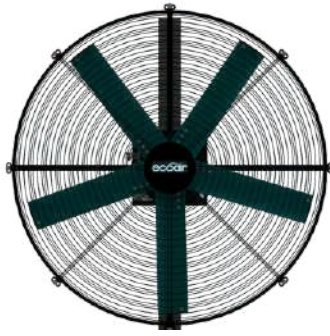
| SR.NO. | MODEL NO. | ECOBLDC1800 | ECOBLDC2400 |
|--------|-------------------------|--|--|
| 1 | Fan Diameter (ft) | 6 | 8 |
| 2 | Type of fan | BLDC HVLS Fan | BLDC HVLS Fan |
| 3 | Protection rating | IP 54 | IP 54 |
| 4 | Blade Material/Finish | High Grade Aluminium Alloy 6063 T6 / Anodised Silver | High Grade Aluminium Alloy 6063 T6 / Anodised Silver |
| 5 | No. of Blade (Nos) | 5 | 5 |
| 6 | Motor Type | BLDC | BLDC |
| 7 | Power (kW) / Voltage(V) | 0.4 / 1 Phase (220V) | 0.5 / 1 Phase (220V) |
| 8 | Drive Type | Intelligent Controller | Intelligent Controller |
| 9 | Speed(RPM) | 210 | 160 |
| 10 | Coverage area in sq.ft | 3000 | 3500 |
| 11 | Safety Features | 1. GI wire rope for blade & extension tube 2. Protection from over current, over volatge & undervoltage, zero derating factor, motor does not heat because our motor body acts as stator. | 1. GI wire rope for blade & extension tube 2. Protection from over current, over volatge & undervoltage, zero derating factor, motor does not heat because our motor body acts as stator. |

Note: Our Fan is compatible with Single Phase supply. * As Per Standard Test Conditions

Standard Applications



Ecoair FLEX Wall Mounted HVLS Fan



Features & Advantages

- With oscillating head option, wide air flow, covers up to 160 degrees.
- .The fan can be easily pivoted for optimum airflow in one direction as well
- Installation and maintenance costs than traditional cooling methods.
- Requires lower investment

Best Suited For Application

- Premises where ceiling mounted HVLS fans not possible too install
- Yu – Go low sound levels makes it suitable where Conventional Wall fans sound levels are not acceptable
- Oscillating features enable large coverage area
- Aerofoil Blades ensure larger Air Flow with extremely low power consumption

Ecoair FLEX Wall Mounted Specification - Model: EcoFlex-5E

| SR. NO | PARAMETERS | VALUES |
|--------|-----------------------------|------------------------|
| 1 | Fan Diameter (Ft.) | 5 |
| 2 | Type of fan | Wall Mounted HVLS Fan |
| 3 | Fan Adjustment (Vertically) | 0-60° |
| 4 | Blade Material | Aluminum Alloy 6063 T6 |
| 5 | Oscillatory Motion | Optional / 0-120° |
| 6 | No. of Blades | 5 |
| 7 | Motor Type | Induction Motor |
| 8 | Protection Rating | IP 55 |
| 9 | Power (kW) | 1.1 |
| 10 | Power Inline/ Voltage(V) | 3 Phase / 415V / 50 Hz |
| 11 | Speed Control | Optional / VFD |
| 12 | Speed (RPM) | 400 to 450 |
| 13 | Coverage Area in sq.m | 252 sq.m max. |
| 14 | Weight (Kg) | 70 |
| 15 | Noise level (dB) | <75 |

Note: Our Fan is compatible with Three Phase supply. * As Per Standard Test Conditions

Standard Applications



Ecoair Industrial Evaporative Air Cooler



Ecoair Cooling Advantage

- Comfort cooling upto 20°C with high airflow
- Fresh, Filtered, Cool Air
- Energy saving upto 80%
- Environmental Friendly
- Low Capex
- Dust protection Mesh
- Innovative Design & Engineering
- Humidity controller/ Temperature controller/
- Auto Draining & Cleaning/Remote Controller ith multispeeds
- Open Space Cooling
- Factory built modular construction for long life
- Ecoair coolers use original munters celdek pads for best cooling efficiency and long life
- Ecoair coolers are fitted with HW- Made in Italy, 5 Blade, Sickle design fans for max air flow at lowest sound levels.
- Ecoair 3 phase machines have 2 speed control
- Control Panel provides Protection from Over Load, Single Phasing, Voltage Fluctuations etc.
- Factory Built Modular Construction made with Automotive Grade UV Protected Poly Propylene Body

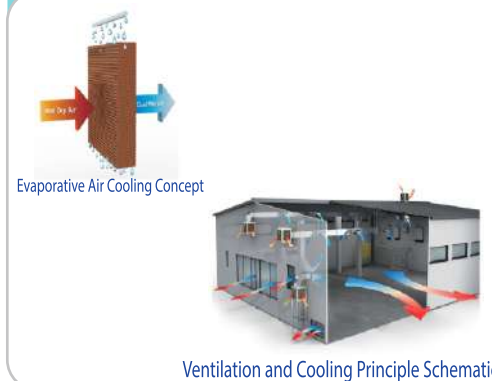
Specifications

| MODEL NO. | AIRFLOW(CMH) | MOTOR KW | PHASE | DISCHARGE TYPE |
|-----------|--------------|----------|---------|---------------------|
| EAC 18 | 18000 | 1.1 KW | 1Ph/3Ph | TOP / SIDE / BOTTOM |
| EAC 22 | 22000 | 1.5 KW | 1Ph/3Ph | TOP / SIDE / BOTTOM |
| EAC 25 | 25000 | 2 KW | 3Ph | TOP / SIDE / BOTTOM |
| EAC 30 | 30000 | 3 KW | 3Ph | TOP / SIDE / BOTTOM |

| | | HUMIDITY% | | | | | | | | | | | OUTLET AIR TEMPERATURE | |
|-----------------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------------|---------|
| | | 20% | 25% | 30% | 35% | 40% | 45% | 50% | 55% | 60% | 65% | 70% | | 75% |
| INLET AIR TEMPERATURE | 31.0° C | 18.3° C | 18.9° C | 20.0° C | 21.1° C | 21.7° C | 22.8° C | 23.3° C | 24.4° C | 25.0° C | 26.1° C | 26.7° C | 27.2° C | 27.8° C |
| | 32.0° C | 19.4° C | 20.6° C | 21.1° C | 22.2° C | 23.3° C | 23.9° C | 25.0° C | 25.6° C | 26.7° C | 27.2° C | 28.3° C | 28.9° C | 29.4° C |
| | 34.0° C | 20.6° C | 21.1° C | 22.8° C | 23.3° C | 24.4° C | 25.6° C | 26.7° C | 27.2° C | 28.3° C | 28.9° C | 29.4° C | 30.6° C | 31.1° C |
| | 36.0° C | 22.2° C | 23.3° C | 24.4° C | 25.6° C | 26.7° C | 27.8° C | 28.9° C | 30.0° C | 30.6° C | 31.7° C | 32.2° C | 33.3° C | 33.9° C |
| | 37.0° C | 22.8° C | 23.9° C | 25.0° C | 26.1° C | 27.2° C | 28.3° C | 29.4° C | 30.0° C | 31.1° C | 31.7° C | 32.8° C | 33.3° C | 34.4° C |
| | 39.0° C | 23.9° C | 25.0° C | 26.1° C | 27.2° C | 28.3° C | 29.4° C | 30.6° C | 31.7° C | 32.8° C | 33.3° C | 34.4° C | 35.0° C | 36.1° C |
| | 41.0° C | 25.0° C | 26.1° C | 27.8° C | 28.9° C | 30.0° C | 31.1° C | 32.2° C | 33.3° C | 33.9° C | 35.0° C | 36.1° C | 36.7° C | 37.8° C |
| | 42.0° C | 26.1° C | 27.2° C | 28.9° C | 30.0° C | 31.1° C | 32.2° C | 33.3° C | 34.4° C | 35.6° C | 36.7° C | 37.8° C | 38.3° C | 38.9° C |
| | 44.0° C | 27.2° C | 28.9° C | 30.0° C | 31.7° C | 32.8° C | 33.9° C | 36.1° C | 35.0° C | 36.1° C | 37.8° C | 38.9° C | 39.4° C | 40.6° C |
| | 45.0° C | 28.3° C | 30.0° C | 31.1° C | 32.8° C | 33.9° C | 35.0° C | 36.7° C | 37.8° C | 38.3° C | 39.4° C | 40.0° C | 41.1° C | 42.2° C |

■ TYPICAL CASE: CENTRAL PLAINS & DRY CONDITIONS
 ■ TYPICAL CASE: COASTAL AREA & HUMID CONDITIONS

Air Cooler System Concept



Standard Applications



Ecoair Exhaust Fan



Features & Advantages

- Direct drive fan without belt for maintenance free operation and long life.
- Double ball bearing & copper winding motor for high efficiency & durability.
- Aluminum die cast Impeller for high strength.
- Large energy savings & air flow with very low noise. Small Capacity motor running at low RPM with large air displacement.
- SS blades & G.I cabinet for long life.
- Built in louvers to prevent dust ingress when fan is switched off.
- Easy installation

Best Suited For Application

- For ventilation and ensuring air changes as per statutory requirements in shop floors, warehouses, assembly lines, garment factories, food processing centers, poultry farms, where large volumes of air need to be exhausted using minimum power consumption.
- Ideal replacement for roof ventilators/ turbo ventilators wherever roof mounted solar systems are installed.
- Used to ventilate non-flammable, low corrosive gases with temp less than 50°C, relative humidity no greater than 80%, quantity of dust & solid impurities $\leq 100 \text{ mg/m}^3$

Ecoair Exhaust Fan Specifications (Direct Drive)

| MODEL NO. | POWER (KW) | VOL/FREQ (V/HZ) | AIRFLOW(CMH) | ROTATION (RPM) | SIZE (MM) | | |
|-----------|------------|-----------------|--------------|----------------|-----------|-----|-------|
| | | | | | L | W | H |
| EAEX600 | 0.25 | 415/50 | 17,000 | 720 | 800 | 400 | 800 |
| EAEX800 | 0.4 | 415/50 | 23,000 | 520 | 900 | 400 | 900 |
| EAEX1000 | 0.55 | 415/50 | 32,000 | 460 | 1,060 | 400 | 1,060 |
| EAEX1200 | 0.75 | 415/50 | 37,000 | 460 | 1,220 | 400 | 1,220 |
| EAEX1300 | 1.1 | 415/50 | 44,500 | 460 | 1,380 | 400 | 1,380 |

Note: Our Fan is compatible with Three Phase supply. * As Per Standard Test Conditions

Standard Applications



Ecoair Roof Extractor



Features & Advantages

- High air flow capacity, designed using computational fluid dynamics (CFD) analysis.
- Extremely low sound.
- Low power consumption.
- SS blades & high strength body for operating in contaminated environments.
- Specially designed Low RPM motor for Increased life cycle.
- Remote operation options

Best Suited For Application

- Ware houses with large span and no provision for natural ventilation like ridge ventilation .
- Industries with high level of smoke emissions like forge shops , welding & fabrication, pressure die casting, etc.
- Large kitchen ventilation
- Foundry air management
- Machine shops where high levels of mist.

TECHNICAL SPECIFICATIONS - 10,000 CFM

| SR.NO | MODEL NO | POWERED ROOF EXTRACTOR |
|-------|--------------------------------|---|
| 1 | Application | Forced Exhaust |
| 2 | Fan Diameter (ft) | 700 mm |
| 3 | Protection rating | Ip55 |
| 4 | Body M.O.C. | Mild Steel Powder Coated. |
| 5 | No. Of Blade(Nos) | 6 |
| 6 | Machine Size | DIA.-750, H-550mm |
| 7 | Motor Type | 3 Phase Induction Motor |
| 8 | Power (kW) | 0.37 |
| 9 | Power line/Voltage(V) | Three phase - 415 V |
| 10 | Amp. Load | 1.4 A |
| 11 | Speed(RPM) | 690 |
| 12 | Speed control Method | Direct Start |
| 13 | Insulation Class | F |
| 14 | Duty Cycle | S1 |
| 15 | Air Flow(cfm) | 10,000 |
| 16 | Static Pressure | 30 mmW.G. |
| 17 | Weight (kg) | 60 kg |
| 18 | Noise level @3 meter below fan | ~70dB |
| 19 | Safety Features | Short Circuit Protection & Grill for anti fall protection |

Standard Applications



Ecoair YU-GO Fan



Features & Advantages

- Specially designed for installation on floor
- Sturdy Body With Wheels for Portability
- Distributes air in a large area horizontally
- Low Noise

Best Suited For Application

- Large Factories, Fabrications Shop, Press Shops etc.
- Ship Building Yards, Air Craft Hangars, Railways workshops
- Warehouses, Logistics Centres with High Racks.
- Lawns open party Areas, Terraces, Religious places, Community Centres Etc.

Technical Specification - 6 & 8 Feet

| Sr.No. | Model No. | YU GO 6 FT | YU GO 8 FT |
|--------|-----------------------|-------------------------|-------------------------------|
| 1 | Type of fan | Portable | Portable |
| 2 | Blade Material | Aluminium Alloy 6063 T6 | Aluminium Alloy 6061 T6 Grade |
| 3 | No. of Blades | 6 | 5 |
| 4 | Motor Type | PMSM | Induction motor |
| 5 | Protection rating | IP 55 | IP 55 |
| 6 | Power (kW) | 0.75 | 1.5KW/3 & 1 Phase |
| 7 | Power line/Voltage(V) | Single Phase / 230V | 3 Phase 415V / 1 Phase 230V |
| 8 | Drive Type | Intelligent Controller | Intelligent Controller |
| 9 | Speed(RPM) | 300 | 206 |
| 10 | Air Volume (CMH) | 75000 | 1,17,000 |
| 11 | Weight (kg) | 130 | 150 |
| 12 | Noise level (db) | <70 | <65 |

Standard Applications



Mixed Flow Duct Ventilator



Features & Advantages

- High strength PP plastic, light weight and durable. Double insulation.
- Mixed-flow impeller design, high pressure and large air flow, high efficient, low noise.
- Special snap joints design, easy installation, perfect seal conditions, easy maintenance.

Best Suited For Application

- Bathroom exhaust
- Whole house ventilation
- Duct boosting
- General kitchen exhaust
- Laundry room exhaust
- HRV / ERV boosting

Overall and Installation Dimension

| MODEL NO. | A | Φ B | C | D | E | F | G Long Hole | H | H1 |
|-----------|-----|------|-----|-----|-----|-----|----------------|-----|-----|
| EMFF100 | 300 | Φ100 | 100 | 214 | 62 | 60 | 7X5 | 182 | 95 |
| EMFF150 | 293 | Φ150 | 120 | 237 | 72 | 70 | 7X5 | 211 | 110 |
| EMFF200 | 304 | Φ200 | 140 | 258 | 78 | 85 | 8X6 | 235 | 124 |
| EMFF250 | 383 | Φ250 | 180 | 298 | 119 | 92 | 11X8 | 291 | 152 |
| EMFF315 | 413 | Φ315 | 220 | 364 | 127 | 140 | 11X8 | 359 | 189 |

Performance Table (Voltage 220V-240V/Frequency 50/60Hz)

| MODEL NO. | POWER(W) | AIR VOLUME (m ³ /h) | STATIC PRESSURE (Pa) | SOUND LEVEL(dB) | DUCT SIZE Φ (mm) | NET WEIGHT (KG) | APPLICABLE AREA (m ²) |
|-----------|----------|--------------------------------|----------------------|-----------------|------------------|-----------------|-----------------------------------|
| EMFF100 | 28/25 | 200/150 | 180/130 | 30/25 | 100/125 | 1.8 | 8-16 |
| EMFF150 | 50/40 | 500/400 | 300/250 | 35/30 | 150/160 | 2.2 | 18-36 |
| EMFF200 | 70/60 | 850/700 | 350/280 | 50/45 | 200 | 3.1 | 34-76 |
| EMFF250 | 170/130 | 1500/1100 | 550/400 | 60/54 | 250 | 7.0 | 42-84 |
| EMFF315 | 320/230 | 2300/1800 | 700/500 | 66/61 | 315 | 9.7 | 60-120 |

Standard Applications



Ceiling Mounted Exhaust Fan(Duct Type)



Features & Advantages

- Better airflow efficiency
- Pure copper motor
- Quiet operation
- Low power consumption
- Low noise
- Light weight and durable

Best Suited For Application

- Ceiling fans have a broad range of applications that include residential spaces as well as commercial spaces like offices, clinics, centers, and others.
- Larger spaces like auditoriums, halls, and warehouses also incorporate a ceiling fan, not one but many; however, ceiling fans with long rods are preferred due to the tall ceilings. These fans work very well in industrial areas too.

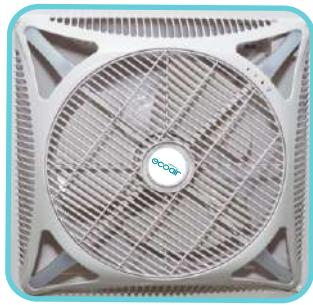
Performance Table

| TYPE | MODEL NO. | VOLTAGE (V) | FREQUENCY (Hz) | POWER (W) | VOLUME (m ³ /h) | STATIC PRESSURE (Pa) | NOISE (dB) | DUCT SIZE ϕ (mm) | APPLICABLE AREA (m ²) | NET WEIGHT (kg) |
|------------------|--------------|-------------|----------------|-----------|----------------------------|----------------------|------------|-----------------------|-----------------------------------|-----------------|
| Semimetal Series | ECME 10-21J | 220~240 | 50/60 | 25 | 150 | 100 | 33 | 100 | 6~12 | 2.8 |
| | ECME 10-24JL | 220~240 | 50/60 | 30 | 200 | 110 | 35 | 100 | 8~16 | 3.2 |
| | ECME 10-24JH | 220~240 | 50/60 | 35 | 250 | 120 | 39 | 100 | 10~20 | 3.2 |
| | ECME 15-27JL | 220~240 | 50/60 | 45 | 300 | 120 | 33 | 150 | 12~24 | 4.2 |
| | ECME 15-27JH | 220~240 | 50/60 | 48 | 400 | 150 | 37 | 150 | 15~30 | 4.2 |
| | ECME 15-32J | 220~240 | 50/60 | 55/50 | 550/450 | 150/120 | 42/37 | 150 | 18~44 | 5.6 |
| Plastic Series | ECME 10-21S | 220~240 | 50/60 | 25 | 150 | 100 | 33 | 100 | 6~12 | 1.7 |
| | ECME 10-24SL | 220~240 | 50/60 | 30 | 200 | 110 | 35 | 100 | 8~16 | 1.9 |
| | ECME 10-24SH | 220~240 | 50/60 | 35 | 250 | 120 | 39 | 100 | 10~20 | 1.9 |
| | ECME 15-27SL | 220~240 | 50/60 | 45 | 300 | 120 | 33 | 150 | 12~24 | 2.5 |
| | ECME 15-27SH | 220~240 | 50/60 | 48 | 400 | 150 | 37 | 150 | 15~30 | 2.5 |
| | ECME 15-32S | 220~240 | 50/60 | 55/50 | 550/450 | 150/120 | 42/37 | 150 | 18~44 | 3.5 |

Standard Applications



Ecoair Air Circulator / Grid Fan



Specifications

| | |
|-----------------------------------|----------------------|
| Ceiling fan with Auto-on function | 88*20MM Copper Motor |
| Voltage - 220-240V | 3 ABS Blade |
| Power - 65W+-5% | 3 Speed |
| CMH - 3200 | With remote control |

Features & Advantages

- Specially designed for installation in false ceilings
- Fixed into a Std. 2'X2' ceiling grid & extremely easy to install.
- Revolving Louver distributes air in a large area.
- Available with built in LED lamps option.
- Double ball bearing & copper winding for extremely long life & durability.

Best Suited For Application

- Air Conditioned Rooms specifically where Hot pockets arise and Air Conditioning is in-effective
- Reduction in Air Conditioning Load as the Air Flow from the fan creates "Wind Chill Effect" giving improved comfort cooling.
- In low ceiling height application area where conventional ceiling fans cannot be installed.

Standard Applications



Our Clients

