KIRAN
AIR VENTILATOR

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KIRAN
AIR VENTILATION SYSTEM

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HOW DOES IT WORK

the turbine ventilator operates by utilizing the velocity energy og the wind to induce air flow by centrifugal action. The Centrifugal force caused by the spinning vanes creates a region of low pressure area which draws air out through the turbine. air drawn out by the turbine is continuously replaced by fresh air from the outside. The slightest breeze will caus the turbine to spin and even after the breeze has stopped, the fly wheel effect of the rotor cage will use its stored energy to continuously remove air giving rise to ventilation. Suction is maintained even at low wind velocities.

WIND VENTILATOR

Natural Economical Effective Ventilation all year round without power or operating costs, improves working conditions and increases productivity, an energy saver for a better tomorrow.

FEATURES

- Stainless Steel Top Plate & Bottom Ring.
- Ring Roll Formed Aluminum Vanes
- Permanently lubricated sealed ZZ Bearings
- No maintenance - Rust Free.
- Rain Proof Rugged Spider Design.
- 10 Years Performance warranty
- Available in Aluminum and Stainless Steel.

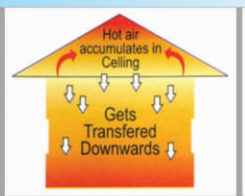
ADVANTAGES

- No Operating cost-Runs on wind Energy
- Assured 24 x 7 Ventilation.
- 80% depreciation under section 32 of IT Act.
- Replaces hot air, humidity, stale air, smoke &
- gas fumes with fresh ambient air.
- Improves human comfort level & productivity
- Can be fitted to any type of roofing profile.

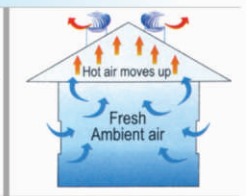

Stainless Steel Bottom Ring Bottom Ring


Stainless Steel Top Plate


Roof Profiled Fibre Base Plate



Without Wind Ventilator



With Mukta Engineers Ventilator


Epoxy coated ventilator


Ventilator With Angle Adjustable base plate


Ventilator With Alluminum base plate

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VENTILATOR PERFORMANCE DATA

Wind Velocity		8Km/Hr
Ventilator Size	*Height*	*Exhaust Capacity*
24 inchs	20 Ft	2000 CFM
	30 Ft	2080 CFM
	40 Ft	2175 CFM

RECOMMENDED AIR CHANGES

Type of Building	*Air Changes Per Hour*	*Type of Building*	*Air Changes Per Hour*
Assembly Hall	6-11	Chemical Plant	25-55
Auditorium	6-12	Laundry	12-30
Bakeries	12-20	Paper Mill	08-30
Boiler Room	15-60	Textile Mill	08-15
Brewery	8-30	Packing Room	08-30
Class Room	10-15	Transformer Room	12-30
Engine Room	12-30	Paint Shop	20-30
Factories (Light)	10-20	Ware House	05-08
Factories (Heavy)	20-40	Foundry	11-30

To Determine Number of Ventilators Required:

{(Volume of shed X No. Of Air Changes) / 60} / Exhaust Capacity of Ventilator.

Volume of Shed = Length X Width X Height

Conversions:

1 Ft = 0.3048 Mtrs
1 Mtrs = 3.2808 Ft
1CFT = 0.028317 CUM
1 CUM = 35.315 CFT

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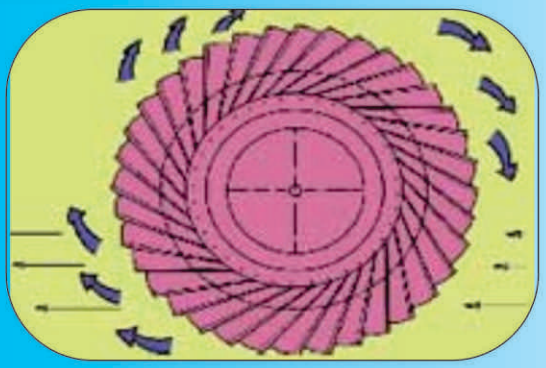
Sr. No.	ITEM DETAIL
1	Air Ventilator Fan (Size – 21" inlet dia. X 28 " outlet dia.) M.O.C. Top & Bottom Ring – Stainless Steel Ventury Blades – High Grade Aluminiym Centre Shaft – Mild Steel Centre & Pivot Bushes – Metlon (fins-36 nos) Doom – F.R.P. (1050 mm width X 1900 mm Length X 2 mm thick)
2	Air Ventilator Fan (Size – 24" inlet dia. X 32 " outlet dia.) M.O.C.- Top & Bottom Ring – Stainless Steel Ventury Blades – High Grade Aluminiym Centre Shaft – Mild Steel Centre & Pivot Bushes – Metlon(fins-42 nos) Doom – F.R.P. (1050 mm width X 1900 mm Length X 2 mm thick)



KIRAN AIR VENTILATOR

KIRAN TECHNO SERVICES PRIVATE LIMITED

KIRAN Group of Companies

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Tamil Nadu : No.33-B4, Sidco Industrial Estate Phase - II, Sundarapuram, Coimbatore - 641 021
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