ENVIRO INTERNATIONAL CORPORATION

Vane Axial Fan

EIC vane axial fans are designed for commercial and industrial applications where large volumes of air are required at moderate to high pressures. These fans are an excellent choice for HVAC systems using variable air volumes, clean rooms, parking garage exhaust, tunnel ventilations and other high volume requirements.

The tubular design, high efficiency rotor and integral straightening vanes provide high performance using minimal space. These fans can be mounted in a variety of configurations and are available with a complete line of accessories.

Adjustable Pitch
Adjustable Pitch fans are specified for applications less critical to environmental variations, typically seasonal changes or system expansion. Blade pitch is adjusted externally at the hub to increase or decrease volume and pressure

Streamlined Inlet Bell
An inlet bell reduces entry loss and is necessary to obtain rated performance on open inlets. The inlet bell, or a casing extension, must be used with Controllable pitch fans. Heavy gauge spinning bolts to inlet flange, but is not designed to support the fan.

Inlet or Outlet Cone
Since a vane axial fan can have a diameter about 20% smaller than the duct, a tapered cone is used to connect with either the inlet or outlet. An inlet cone may also be used on open fans to avoid large velocity pressure loss. The flanged, punched cone bolts to fan and duct and will support fan in any position except cantilever.

Access Door
The access door is located in the optional inlet/outlet cone to facilitate blade inspection, adjustment or cleaning. The doors are gasketed and are sealed airtight with quick release latches.

Spool Piece
A non-tapered housing extension complete with latched door is used in installations where an access door cannot be provided in the duct.

Guard Screen
Heavy gauge wire screen protects fan blades from foreign debris. It fits fan flange, inlet or outlet cone, or inlet bell.

Outlet or Inlet Cone
Cones may be used to transition from the fan to ducts larger or smaller than the fan.Outlet cones may also be used to minimize Velocity Pressure loss and regain Static pressure. Air leaves a diverging discharge cone (Point B) at a lower velocity than at the cone inlet (Point A), therefore, at a lower Velocity Pressure. Consequently, more of the fan's Total Pressure capability is available for Static Pressure than would be available with the fan blowing into a duct of diameter equal to the fan.

For the Standard VAV cone effective Pv is: $Pv_E = Pv_A - (Pv_A - Pv_B)$ .Where a cone is used, the rated Static

Pressure is increased by the amount equal to $Pv_E - Pv_B$.

Where the fan has an open discharge (does not blow into a cone, duct or transition), the Velocity Pressure must be based on the annular area; that is, the fan casing area minus the hub area. Since annulus velocity is generally very high, the benefit of using a cone when discharging to atmosphere is apparent.

PRAODUCT RANGE

Ventilation and Cooling Systems

Ventilation System, cap. upto 3,00,000 m3/hr

Air Washers, Two stage Cooling system

Fume Extraction Systems

All types of Scrubbers, Wet Scrubbers,

PP& FRP Scrubbers, Tanks

Air Pollution Control Equipment

Pulse Jet Bag Filter, Dust Collector

Cyclone / Cyclonic Bag Filter

Industrial Fan

Exhaust Fan, Axia Fan, Centrifugal fan

Fans for ventilation Systems

Dust Suppression System

Dry Fog System Plain Water spray system Water Sprinkling System

Dry Fog or Plain Water Spraying System are supplied for various application like Hopper, Ground Hopper, Belt Conveyor transfer points, Screen House and Screen House, Wagon tippler etc, while Sprinkling System is used for Sock Yard Area or Raw Material Storage Area.

Pneumatic Conveying System

Pneumatic Conveying System is a widely used for transporting dry bulk material either by Vacuum or by Pressure of Air. Depending on the material to be conveyed, system is designed to will carry the material to the final destination with the air stream.

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