



Able Air-0-Technology

Industry Also Need Clean Air

An ISO 9001 : 2008 & ISO 14001 : 2004 Organization



WE KNOW

HOW TO CLEAN AIR

THE COMPANY

Able Air- O- Technology was established in the year of 1990 in the southern part of Kolkata, India. Since inception they have been in the field of manufacturing and supplying Industrial Fans and pollution Control Devices. Now Able Air-O-Technology has proved itself as a prominent manufacturer and supplier of the said items with its varied ranges of the products and systems.

Able Air-O-Technology has its own factory units and well equipped with adequate modern infrastructure. Therefore, most of the components are indigenous and of best quality and finish.

OUR TEAM



M/s Able Air-O-Technology have a set of experienced engineers who work for design, drawing, quality control and R & D work as and when required. The purchase and stores are also looked after by experts and who ensure less down time of the system of work carried out in the works. The separate outdoor technical team comprises of highly skilled technicians who take the responsibility of rendering services of all types of work i.e. installation and commissioning of the system we supplied. Any work and up-gradation, repair, retrofits, restoration at client premises / sites as per the requirement.

NETWORK

M/s Able Air-O-Technology renders Design, Manufacturing, Installation, Commissioning, Supervision and provide spare parts on any of the systems they execute all over the country. M/s Able Air-O-Technology have the Head Office and manufacturing facilities both in Kolkata, India, agents and representatives have been appointed in major parts of the country so that every client may contact us. M/s Able Air-O-Technology have been affiliated as registered vendor of all the SAIL Units (Bokaro Steel, Bhilai Steel, Rourkela Steel, Alloy Steel Plant) TATA Steel and other giant private sectors and PSU's (Mishra Dhatu Nigam Limited, Uranium Corporation, Indian Rare Earths Ltd. etc.).



INFRASTRUCTURE

Corporate Office



Manufacturing Units



Our company have supplied many a systems.



24 X 7 Online Support



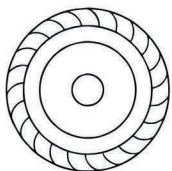
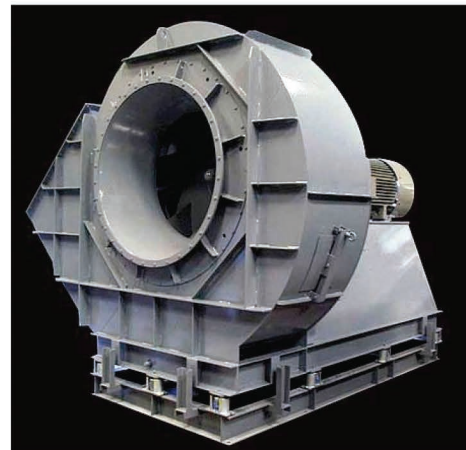
AXIAL FLOW FANS

Axial Flow Fans having multiple application in the industries and the flow rates of which are generally 1000 m³/hr. – 3,00,000 m³/hr. volume, work at a pressure of 10 mm wg. – 150 mm wg. The blades are made out of aluminum alloys / MS. The Impellers of the fans are in the range of 200 mm – 1800 mm Dia. duly followed Fixed and Variable Pitch as per the requirement of the clients. Above all, the fans are designed and manufactured exactly as per the requirement of the users.

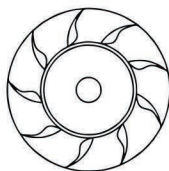


CENTRIFUGAL FANS

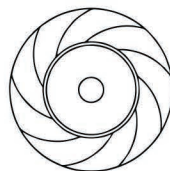
The company manufactures centrifugal fans mainly the types are ID Fans, FD Fans, PA Fans, Blowers of different application. The ID Fans are of various types : Backward Curved Blades, Backward Airfoil Blades, Backward Inclined Blades, Radial Bladed without shroud. The ID Fans are manufactured for different application having flow ranges 150 m³/hr. - 5,50,000 m³/hr. at a pressure of 40 mm wg. – 2500 mm wg. Having minimum efficiency 86% in case of backward curved type 300 m³/hr. – 3,00,000 m³/hr vol. at a pressure of 50 mm wg. – 1000 mm wg. Radial Blade types are also 1000 m³/hr. – 3,00,000 m³/hr vol.. at a pressure of 40 mm wg. – 750 mm wg. Max. efficiency of 75% is normally achieved.



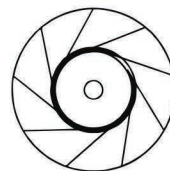
Forward Curved
Blade



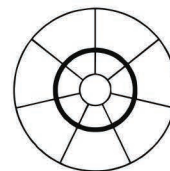
Backward Curved
Aerofoil Blade



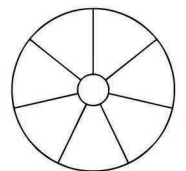
Backward Curved
Blade



Backward Incline
Blade

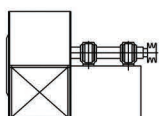


Radia
Blade

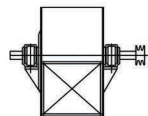


Radial Blade Without
Shroud

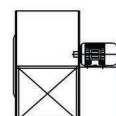
FAN ARRANGEMENT



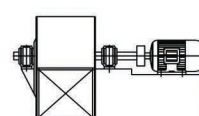
Arrangement #1



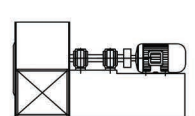
Arrangement #3



Arrangement #4



Arrangement #7



Arrangement #8



PRODUCT RANGE

Single or Two Stage Units Low Volume High Pressure Applications

Duties Range	: 150m ³ /hr to 60,000 m ³ /hr.
Static Pressure	: 250mm to 2400mm.
Drive	: Direct Coupled / Belt Driven.
Impellers	: Radial Bladed.
Typical Uses	: Combustion Air Gas Boosting, Pneumatic Conveying.

Single or Two Stage Fans High Volume High Pressure Applications

Duties Range	: 1500m ³ /hr to 4,50,000m ³ /hr.
Static Pressure	: 50mm to 1600mm.
Drive	: Direct Coupled / Belt Driven.
Impellers	: Backward Curved / Inclined
Typical Uses	: ID & FD for Cement Plants, Chemical Plants, Steel Plants etc.

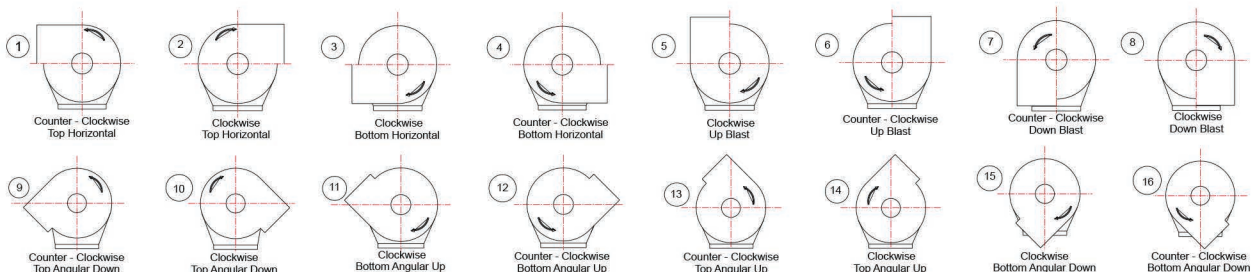
Single Stage Fans, Medium Pressure Applications

Duties Range	: 460m ³ /hr to 44,000 m ³ /hr.
Static Pressure	: 25mm to 500mm.
Drive	: Direct Coupled / Belt Driven.
Impellers	: Radial Bladed.
Typical Uses	: Combustion Air, Ventilation System, F.E. & D.E. Systems.

Single or Double Width Fans, High Volume Low Pressure Applications

Duties Range	: 1000m ³ /hr to 3,90,000 m ³ /hr.
Static Pressure	: 50mm to 150mm.
Drive	: Direct Coupled / Belt Driven.
Impellers	: Double Curved, Non Overloading &
Typical Uses	: Suitable for Ventilation Application. Ventilation Systems, Humidification, Air-Conditioning.

ROTATION & DISCHARGE VIEWED FROM DRIVE END



CYCLONE SEPARATOR

These equipments are mostly used for common dust removal in industry. They are simple in construction and varieties of materials can be used and also at a very high temperature.

In cyclone separator, the suspended particles are separated from the gas stream by the action of centrifugal and gravitational forces. The dust laden gases introduced tangentially into the separation chamber and thereby vortex flow is formed. Consequently in cyclone separators of small-diameters the separation of small suspended particles are effected and thus high degree of separation is achieved. For effectively working of dust collection systems with cyclones, efficient dust valves are vital and these dust valves are properly designed and supplied from our end.



BAG FILTER

The Bag Filter is comprising of fabric filter with Fully automation bag cleaning device by compressed air pluses. It serves for the dry separation of dust from waste gas. It filters heavy dust burden and achieve desired collection with the efficiency at high temperature. Here maintenance cost low, Compressed air consumption, power required low, Simple Filter Bag Replacement, Compact Assembled Unit, Low Inventory Cost.



WET SCRUBBER

This is ideally suitable for application where cementitious nature of the contaminants exists creating a potential built up problem, When the dust is sticky or explosive. This is a continuous process, and long term, Low Cost, Minimum Maintenance, Compact Construction, in-built water flow arrangement, Spare parts negligible.



ESP

Separation of Dust Particles from Exhaust Gas is done in many ways by deploying - Cyclone Separator, Mechanical Dust Collector, Bag Filter etc. Another widely used equipment is Electrostatic Precipitator (ESP)

In ESP the separation of dust takes place in three stages

- 1] Ionization of dust particles
- 2] Collection of dust particles on collector plates
- 3] Dislodgement of dust from the collector plates

ESP is primarily high voltage equipment wherein there are rows of collecting plates (CE) and discharge electrodes (DE) separated by a predetermined distance. High negative voltage is applied to the DEs and CEs are earthed. The magnitude of high voltage is just adequate to create Corona Discharge around the DEs which in turn generates free electrons in the space between DE and CE. These free electrons get attached to dust particles. The applied high voltage also establishes high Electrostatic Field between CE and DE. Under the impact of this Electrostatic Field dust particles which are now negatively charged move towards CE, hand over free electron to CE and sticks to the surface of CE.

Forced Draft Cooler

Forced Draft Cooler is used for reduction of temperature where equipment can not be used with elevated temperature. When a high temperature gas is passed through a collector i.e., Bag Filter or Electrostatic Precipitator it is very much necessary to reduce the temperature of the dusty air where FD cooler is provided before the collector of landen gas. It consists of tube bundle through which hot gas is passed and ambient air is passed over the tubes and so that the temperature of gas is reduced to desired value. The equipment is generally known as AIR to Air FD Cooler. Our systems is more effective than that of conventional system.



SYSTEMS UNDER TAKEN

- Air Pollution Control Systems
- Dust Extraction / Dust Collection Systems
- Fume Extraction Systems
- Ventilation / Pressurization Ventilation Systems
- Pneumatic Conveying Systems
- Humidification & De-Humidification Systems
- DFDS Systems



APPLICATION

- Induction Melting Furnace.
- Ferro Alloys / Submerged Arc Furnace.
- Steel Melting.
- CCM Concast Machine.
- Boiler.
- Paint Manufacturing.
- Lead Melting.
- Foundry.
- Sponge Iron.
- Electric Arc Furnace.
- Ladle Refining Furnace.

INDUSTRIES

- Cement Plants
- Steel Plants
- Sponge Iron
- Power Plants
- Chemical Plants
- Rice Mills
- Paper Mills
- Tea Industries
- Plywood Industries
- Ferro Alloys Plant
- Sugar Mills





VENTILATION SYSTEM

Industrial Ventilation is a method of controlling airborne toxic chemicals, vapours etc. by exhausting contaminated air from the workplace and replacing it by clean air. In case of dry air type ventilation, atmospheric air is taken inside the room through fan with filter & duct. The air is passed through louver, inside hot air of the room is exhausted by fan or gravity louver, the air inside the room is stable at a normal temperature.

FUME EXTRACTION SYSTEM

Fume Extraction System is mainly used to ensure health and safety of the men in the workplace. Fumes, dust laden gases during the activities of processes, any products / systems are arrested. The fumes are collected / taken out from the spots. The sucked volume of dust laden fumes is transported by suction in to the filter bags of the bag filter by an ID Fan. The dust-fumes collected in the respective hoppers of the bag filter and gets heaped up under gravity.

DUST COLLECTION SYSTEM

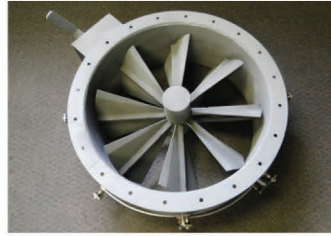
Dust Collection system used in many a Processes, either to recover granular solids or powder from process streams, solid pollutants from exhaust gases prior to venting to the atmosphere. This is an online process for collecting dust on a continuous basis. Dust collectors are of single unit construction, or a collection of devices used to separate particulate matter from the process air called as air pollution control device to improve air quality.



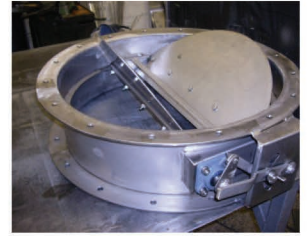
SPARE PARTS OF SYSTEMS



Spare Impeller



VIV Damper



Butterfly Damper



Non Metallic Expansion Bellow



Metalic Expansion Bellow



Cage



Filter Bags



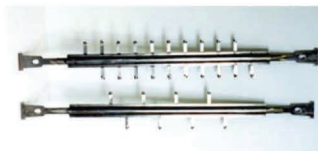
Rotary Air Lock



Screw Conveyor



Collecting Electrods



Discharge Electrods



Rapping Insulator



Transformer



GD Screen



Rapping Hammer



SOME OF OUR VALUABLE CLIENTS



VISA STEEL



शुभारम्भ अर्घु विद्यारामको



OUR MOTO



REDUCE OF **GLOBAL WARMING**

ACHIVE **GREEN REVOLUTION**



Able Air- O -Technology

Industry Also Need Clean Air

90/65 A, Jadunagar Colony, Behala,
Kolkata - 700 034, India.



033 - 24470154 / +91 8479900937



+(91) 8479900949 / 8479900930



ableairo@gmail.com / info@ableairo.com



www.ableairo.com