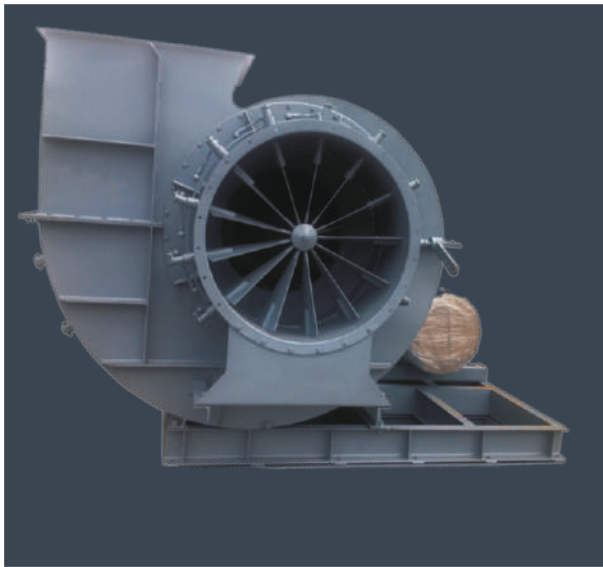




Air pollution control systems

breathe **clean**,
work **better**...!!!

> www.ckairtech.com



CENTRIFUGAL FANS

Our Centrifugal Fans are designed explicitly for dust and fume extraction systems. The robust impeller design effectively captures and transports particles, ensuring a cleaner and healthier workplace.

Variable Speed Control enables optimal extraction efficiency along with optimised energy consumption. This feature allows you to adapt the fan's performance to the specific needs of your processes, minimizing energy consumption while maximizing dust and fume removal.

Built to withstand the demands of industrial settings, our fans feature durable materials and corrosion-resistant coatings. This ensures longevity and reliability even in challenging conditions, such as those found in metalworking or chemical processing facilities.

Seamless integration with your existing dust and fume extraction systems. The versatile design and multiple mounting options make installation straightforward, minimizing downtime and optimizing extraction performance.

Despite their highly efficient performance, our Centrifugal Fans operate with minimal noise complying to the industrial standards. This ensures a quieter and more comfortable work environment to the work force. Our fans are widely used in applications like Dedusting/Dust extraction/Fumes extraction system, Silo aeration, pneumatic conveying etc.

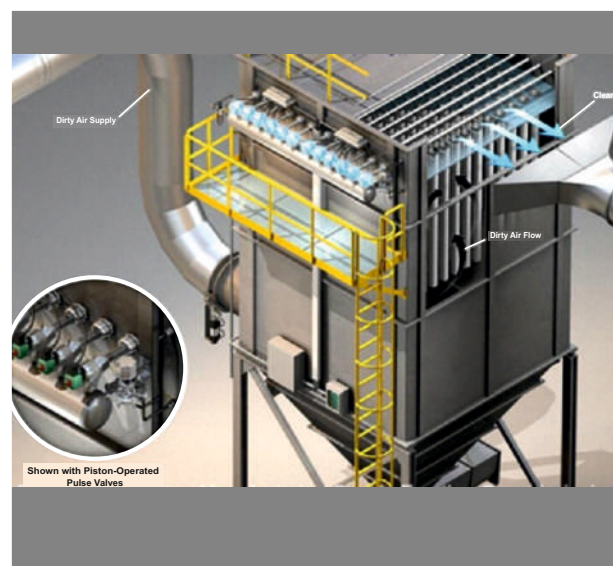
PULSEJET BAG HOUSE

Our Bag houses with advanced filtration technology provides unparalleled dust and particulate removal which exceeds environmental regulations while enhancing the overall air quality in diverse industrial settings.

Our expertise to tailor the filtration process versatile to meet the specific applications with a range of filter media options to deal with different type of dust, coarse particles or sticky pollutants, high temperature flue gas etc.. proves our experience handling filtration applications in wide cross section of industries.

Designed with scalability in mind, our Baghouse System features a modular design that allows for easy expansion. This flexibility ensures adaptability to changing industrial processes and increased filtration demands.

Pulse Jet Cleaning Technology enhances operational efficiency when designed with appropriate Air to cloth ratio. This automated cleaning mechanism efficiently removes accumulated dust from filter bags, reducing downtime, and ensuring continuous and optimal performance. Our Baghouse maintains a compact footprint without compromising valuable floor space and operational efficiency. It is designed to have minimum pressure drop and being highly energy efficient.





CYCLONE SEPARATOR

Our high efficiency Cyclone Separators has been designed with engineering excellence to revolutionize particle separation in various industries. Our cyclones handle different type particulates like dust, solids, fibres or granular materials and provides robust and efficient solution. Engineered with precision and reliability, our cyclone ensures optimal performance and minimizes maintenance, making it an indispensable product for diverse applications including challenging industrial environments.

Harnessing the power of centrifugal force, our Cyclone Separator efficiently separates particulate from any gas streams. The cyclonic motion generated within the unit directs particles towards the outer wall, facilitating easy collection and removal.

Crafted from high-quality materials, our Cyclone Separator is built to withstand the rigors of continuous use. The robust construction not only ensures longevity but also makes it suitable for applications involving abrasive or corrosive materials. Widely used in food, mineral & wood processing for product collection which inevitably proves high separation efficiency.

VENT FILTER

Our Silo vent filter addresses the air quality externally and within your storage systems. It is designed to effectively capture and filter airborne particles during material handling and storage. Our Vent Filter employs high filtration efficiency reducing the risk of contamination around the workplace and environmental impact.

Designed with a compact footprint, our vent filter seamlessly integrates into existing silo systems without compromising valuable storage space. The space-efficient design allows for flexible installation options, making it suitable for various industrial applications.

Whether it is fine powders, fibres, granular materials, or coarse particles, our Silo Vent Filter offers versatile filter media choices to optimize filtration efficiency.

The automatic self-cleaning feature provides sustainable operational efficiency and extends the filter's lifespan. This feature significantly reduces maintenance requirements and operational disruptions.





ACTIVATED CARBON FILTER - DRY SCRUBBER

In our list of air filtration products Activated carbon filters have a significant presence which are engineered with precision and efficiency with advanced filtration technology removing impurities, odors, and contaminants from the air stream. Our Activated Carbon Filter harnesses the remarkable adsorption capabilities of activated carbon, efficiently capturing and holding a wide range of pollutants, including gases, volatile organic compounds (VOCs), and unpleasant odors.

The filter's activated carbon media boasts a high pore density, maximizing the surface area available for adsorption. This feature enhances the filter's effectiveness in trapping microscopic particles and pollutants, contributing to cleaner air. Designed for durability and longevity, our Activated Carbon Filter requires minimal maintenance. The filter's extended service life ensures cost-effectiveness and reliable performance over an extended period.

PARTICULATE SCRUBBER - VENTURI TYPE

Our state of the art Particulate Scrubber designed to address the challenges of particulate matter emission in industrial processes. Our scrubber offers a cutting-edge solution to enhance air quality, minimize environmental impact, and meet stringent emission control regulations across various industries.

The design of the Venturi Scrubber consists of a venturi throat followed by a liquid entrainment separator. Dust laden gases enter the venturi and instantly make contact with the tangentially introduced scrubbing liquid swirling down the venturi's converging walls.

At the venturi throat, the gas and liquid streams collide and the liquid breaks down into droplets which trap dust particles. This gas/liquid mixture passes through a flooded elbow, and then enters the entrainment separator through a tangential inlet. Centrifugal action removes the heavy wetted particles from the gas stream.



Our products and services are used virtually in every industry.



Mining, Steel, Foundry, Metals and Minerals

Our APC System application in Steel and Mineral processing industries are

- Fumes extraction in arc & induction Furnaces
- De-dusting system for mineral handling screening plants
- Gas cleaning system for Lead / Zinc / Copper smelters
- De-dusting system for Material handling of Iron ore, Pellet etc.
- Bag house for Lime / Dolomite / Bentonite size reduction plant
- De-dusting system for Sand reclamation plant



Power Plant and Construction

Our extensive experience in offering APC system in Power plant and construction include

- De-dusting system for Coal crushing & screening plants.
- Dust collector for Hot-mix Asphalt plants.
- Dust Collection system for stone crushing & Screening plants.
- De-dusting system for limestone handling in FGD plants
- Vent filter for Silo storage
- Flue Gas cleaning system for Incinerators and Boilers
- Wet Scrubber for CHP plants



Chemical, Fertiliser and Pharmaceutical

Our APC systems are used in various applications like

- Bag House for gypsum Calcination plants
- De-dusting system for Urea handling plants
- De-dusting system for bagging plants
- Dust collectors for powder processing in clean rooms
- Wet Scrubber for fumes extraction in chemical reactors
- High efficiency Cyclone Separators for Product recovery



Food Processing

Our product portfolio has unique products in the area of Food processing as below

- Dust collectors for Flour & Rice Mill
- Product bag house for Spice milling and cleaning
- De-dusting system for Confectionaries/Dairy
- Cyclone Separators for powder handling and recovery
- De-dusting system for Silo loading and bagging of grains
- Silo aeration fans



Lead, Ceramic and Refractory

We have more than two decades of experience in offering solutions for APC in Lead smelting/recycling & Lead acid battery manufacturing..

- Flue gas filtration for Rotary furnaces
- Wet scrubbers for fume extraction system
- De-dusting systems for Lead oxide handling
- Dust collectors for casting furnaces
- Dust collectors for Grinding Mills, Ball mills & moulding plants
- De-dusting systems for raw material processing and handling plants.



Wood Processing

We are the largest supplier of Dust handling system in India in this field for more than two decades.

- Centralised Dust collector for large scale Furniture plants
- Dust collector for Wooden door & flooring plants
- Storage silo along with pneumatic conveying system
- High efficiency Cyclone separators for wood chips handling
- Dust collector for Particle board & MDF manufacturing plant



Bag House for Mineral Processing Industry



Product Bag House for a Kiln dryer



Dust handling System for Panel board Industry



Dust Extraction System for Food Processing Industry



Ammonia Scrubber



Dust collector for Wood & Panel processing



Packed Bed Scrubber for Acid Fumes extraction



Venturi Scrubber for Chemical Industry



Two stage Scrubber for Urea handling

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