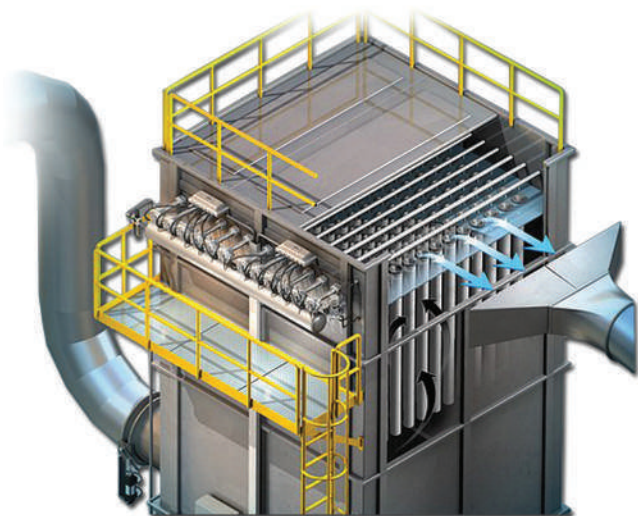


# VENTILATION & DUST COLLECTION EQUIPMENTS



**Dyrocon Airtech Pvt Ltd** was incorporated by engineers who have been associated with Centrifugal fan, Gas tight dampers, systems like Fume, Dust extraction, Ventilation systems, Environmental protection etc. The areas of specialization covered are system Design, Detailed Engineering, Manufacturing technology, Erection and Commissioning. During its period the company has supplied several fans, Dampers and pollution control equipment's for reputed customers.

## AIR POLLUTION & VENTILATION SYSTEMS



- Fly ash Arrestor for Boilers
- Multi Cyclones
- Tangential cyclones
- Bag Filters
- Wet Scrubbers
- Mist / Dust / Fume Extraction System
- Dust Suppression
- Ventilation system
- Pressurization system
- Pneumatic conveying system
- Kitchen Exhaust system

## DUST COLLECTION SYSTEM

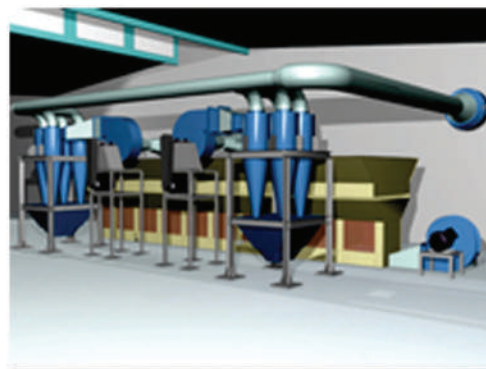


Dust collection is the process of removing or collecting solid particles from airflow to comply with stringent air pollution standards. Large filters trap airborne particles before they are released into the outside air. Bag Type collectors are one of the most common air pollution control technologies that removes particulate matter from the air waste stream being emitted from a broad range of industrial processes. The particulate-laden air stream passes through a woven or felted fabric that filters out the particulate matter and allows the air to pass through.



### TYPES OF DUST COLLECTION SYSTEM :

- Bag Type Collectors
- Cyclone Collectors
- Multiclone Collectors
- Wet Scrubbers



# MIST EXTRACTION SYSTEM



## MIST EXTRACTION SYSTEM

Centralized High efficient mist collection, Design and installation by DYROCON incorporating dry filter unit to achieve pollution free work environment



## EMISSION SOURCES

Mist Emissions occur from various machineries during the process polluting the atmosphere

The System consisting the following:

- Suction Hood with control dampers
- Branch ducting and main ducting
- Dry Filtration unit
- Centrifugal ID Fan with motor
- Clean air outlet duct.
- Oil Drain arrangement

## OPERATION

The centrifugal fan when running creates negative pressure at each of the suction Hood through which the mist which are emitted during the process is sucked inside and reaches the filter unit where it is filtered leaving only the clean air to leave the filter unit.

# PACKED BED SCRUBBER

## CFM

Air flow through the scrubber, based on cubic ft/min. This is determined by the process to be handled by the scrubber, through information provided by customer and Dyrocon analysis. System capacities of heavy service Vertical flow systems range to 100,000 cfm and above.

## CONFIGURATION

Internal vs external recirculation system, fan location in relation to tower, duct sizes, inlet and outlet plus location of pump systems, tower access service ports, service platform requirement.

## MATERIALS OF CONSTRUCTION

Determined by application: because most contaminants involve corrosive gases and fumes, material must be able to withstand continuous contact with high and low pH gases and scrubbing solutions.

Standard construction materials include: polypropylene, fiberglass and PVC. Optional materials include high alloy metals such as stainless, Hastelloy, and Inconel. Also dullaminate structures incorporating FRP over PVC, PP, PVDF and Teflon liners are available.



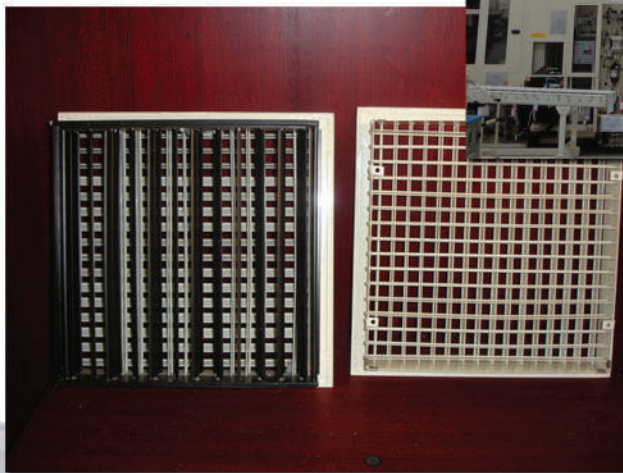
# AIR WASHER SYSTEM



A device for cooling and cleaning air in which the entering warm, moist air is cooled below its dew point by refrigerated water so that although the air leaves close to saturation with water it has less moisture per unit volume than when it entered

## FUNCTIONS OF AN AIR WASHER:

1. Cool the air.
2. Humidify the air.
3. Dehumidify the air.
4. Clean the air of particles.
5. Hyperionize the air.



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