



NICON EXPORTS



ABOUT US

Factory is equipped with the State of the Art facility to carryout the fabrication and machining to international standards. Our products are exported regularly to Malaysia, Dubai, meeting and exceeding customer expectations. HavetheexpertisetomanufactureandsupplyofAirPollutioncontrolequipmententirelydefect-freewithguarantee.Well-qualifiedengineersandtechnicianshandlingtheoperations,ensuredefect-freeproductionwithcentpercentreliability.Products,componentsandsystemsaredesigned,manufacturedandsuppliedbasedonthespecificrequirementsofthecustomers

DESIGN AND ENGINEERING:

Having in house design and engineering department with the engineers having experience more than three decades in the field of air pollution control equipments and material handling systems. Our service include Design in various areas like Civil including soil investigation, Mechanical, Electrical and Instrumentation. Equipped with design softwares like AUTOCAD, PRO-E, ANSYS, SOLID WORKS-CFD (COMPUTATIONAL FLUID DYNAMICS) and CATIA.

PROJECT EXECUTION

Project engineers having experience of more than a decade in the field of project management of pollution control equipments like electrostatic precipitators, bag filters, etc. Latest Project management softwares such as MS Project, PRIMAVERA, etc. for Planning and Efficient Execution of Projects. Fully equipped with tools and tackles, mobile cranes, etc. to carry out effective Site Fabrication, Erection and Commissioning. We also have our own Civil Construction Equipments to carry out construction activities. We also have our own Electrical and Instrumentation equipments to cary out related activities in the above fields.

TESTING SERVICES

Have excellent facilities for testing of various types of materials including raw materials and fully equipped for carrying out the tests with the highest precision / accuracy. Also extend help in laying down acceptable quality standards for various items of inputs and outputs.

ELECTROSTATIC PRECIPITATOR

PRINCIPLES OF OPERATION

In high voltage electrostatic field, gas ionization takes palce. Tremendous amount of electrons and ions exist in the ionized gas. After the particles are combined with these electrons and ions, they will be polarized, most of them are negatively polarized. Under the action of the field force, negatively charged particles migrate towards the positive electrode (collecting plate) and in turn release electrons and attach to the positive electrode. When the particles agglomerate and the layer reaches a certain thickness on the plate, the particles will be dislodged from the collecting plate by vibration caused by rapping and fall into the hopper. That ends the collecting process.



Advantages

- Experience in dealing with a wide range of fuel types.
- Optimum performance under varying load conditions
- Lower operating costs
- Continuous product recovery at low operating costs
- Initial investment in a relatively short time, thereby adding to profitability
- Automatic power control and Transformer Rectifier control.
- Provision for remote fault indication
- Responds to change in precipitator-operating conditions, ptimum power at all times
- Most economical design
- Higher dust removal efficiencies
- Applications in the utility
- CFD to get optimum gas distribution
- Complete electrical and instrumentation.

Features of Rapper Control

Proper control of the precipitator rapping system is an important contributor to successful precipitator operation. The variables that are regulated by the Rapper Control Systems are:

- The duration or intensity of the rap
- The time for complete rapping cycle.
- The order in which the rappers are triggered

Special Features

- Can collect dust in both wet and dry conditions.
- Can collect all sizes of particles from microns to coarser.
- Probably the most versatile collecting equipment, offers the highest efficiency.
- Can be designed in principle for any efficiency for Low operation cost
- Can operate over a wide range of conditions of,
 - a) Temperature
 - b) Pressure
 - c) Dust Burden
 - d) Humidity

Negligible pressure drop (10-15mm) can be built up multiple units, Can be built for almost any gas volume has a long life, Comparatively free from abrasion effect due to low operating velocity.

BAG FILTER

The Bag House is a generic name for Air Pollution Control Equipment that is designed for around the use of engineered fabric filter tubes, envelopes or cartridges in the dust capturing, separation or filtering process.

- The air is uniformly distributed avoid channeling
- Initially a coat of material forms on the bags
- Subsequently, the coat acts as the filtering medium
- The dust is accumulated on filter elements, while the air passes through filter bags from outside to inside
- The accumulated powder is dislodged from the bags by reverse pulse-jet air intermittently.
- The dislodged powder falls on bottom cone and is discharged through RAV
- The dust-free air is sucked by induced draft fan and is exhausted to atmosphere
- Knockers are provided on conical portion.

Main parts of the bag filter

- Bag filter housing
- Bag cages
- Pulse-jet air cleaning
- Filter bags
- Filter bag Ventury assembly
- Air bleeding Assembly



Features

- Modular design
- Top or Side Bag Removal
- Sintered metal bags for upto 1500 Deg. F Temp.
- Corrosion resistant Cages
- Rugged construction
- Durable casings and quick access doors
- Minimum site preparation
- Double Dump Valves/RAV for Material Discharge
- Anti-stick coat on bags facilitates removal of powder avoiding chocking of filter bags.
- Automatic air pulse jet system with adjustable sequential timer to clean filter bags online
- Bottom cone angle of housing is 45 degrees, hence powder slides freely down.
- Over 99.9% Efficiency
- Polyester, Nomex, Ryton and Fiber Glass bags
- No interval moving parts
- Long bag life Guarantee
- Explosion vents Designs
- PLC controlled cleaning
- Bin vents for conveying
- Turnkey installations

Benefits

- High flow rates
- Arrangement to avoid bypassing
- Low pressure drop
- Custom Design services
- High dirt holding capacity
- Low Downtime
- positive Sealing
- Large-area, Heavy-duty

Applications

- Steel Industries
- Power plants
- Chemical industries
- Paper Mill Industries
- Sugar Industries
- Food Processing
- Cement industries

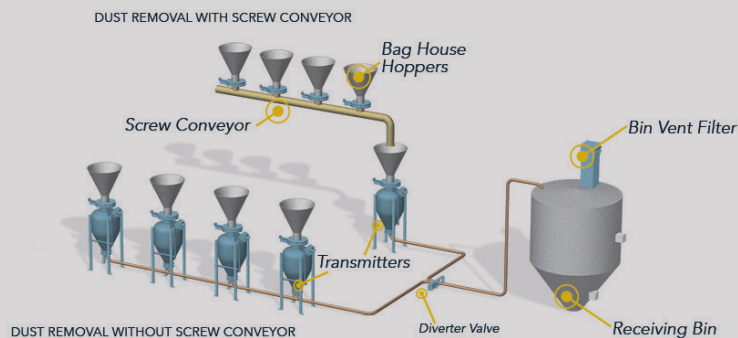
UNICON bag filter is compact, results in low Civil and Erection cost.

PNEUMATIC CONVEYING SYSTEM

Ash inlet valve is at open position, ash from hopper storage is filled inside the vessel. When ash is filled upto the level sensor probe, ash inlet valve will be closed. Once fluidizing valve opens and fluidizes the ash is ready to transport. Discharge valve opens and the fluidized air with ash is transmitted through the pipeline. Ash inside the vessel is emptied, the vessel is depressurized and the Fluidizing valve closes, again the process is repeated from stage 1. The pressurized vessels feed to the conveying line, the automated control system maintains a constant conveying air mass flow in the pipeline, which prevent plugging and optimizes compressor operating power. Feeder units feed the line however in these systems material flows in to the conveying liner before the line is pressurized. It is a practical alternative for a vacuum system where headroom is limited. This approach, blending the most efficient flow regimes, offers advantages in reliability and reduced maintenance costs that can keep the system running more efficiently.

Advantages of our system

- Most Economical
- Power Efficient
- Smaller Conveying lines
- Wide range of vessel sizes
- Shortest Delivery time
- Reliable
- High-capacity conveying Line
- Conveying distances up to 1600 meters
- Operating pressure up to 60 psi (415 k pa)
- Ability to stop and restart due to injection of air at required points.



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