

ENVIRO INTERNATIONAL CORPORATION

FOG CANON,

Enviro International is a project based company with a prime interest in Air pollution Control Equipment, Dust Suppression System, Belt Conveyors and Material Handling systems, Pneumatic Conveying System, Ventilation Systems. Enviro International Corporation is promoted to provide one shop solution for Air Pollution and Air Ventilation System and Material Handling Systems. The use of these equipment is increasingly being extended to dedusting and conveying of material preparation plants in the various industry.

EIC processing a team of vast experience and sound technical base, emphasize need to evaluate the site properly and We do therefore thoroughly study and evaluate on technical parameters of the system being offered for checking up its suitability for site condition and subsequently put up all these analysis experience in to the drawing up the design plans and productions for the evolving of the product modeled on site condition, as a result successful operation and its optimum utilization as per site conditions is guaranteed, We always stress basics for each and every project.



FOG CANON

We in association with our team of engineers and designers developed a cutting age technology for Fog Canon and offers different types of Fog Canon. Fog cannon can operates with different principles and mechanisms. One of types is purely mechanically driven system with electrical motor inputs, here in also we can offer different type of system with different basic principles for operation of the fog canon. We also offer other cutting age technology, which is trouble free system, with bare occasional maintenance.

Fog canon is widely used in India and overseas for suppression of flying dust on various application and disinfection, It is a rugged and very efficient system. Unlike other types of dust suppression, it efficiency is very high. In some of applications only and only Fog canon is very successful, particularly when it is an open area.

Fog canon is normally mounted on a trolley and it can be moved from one location to other location as it is on wheels. It is namely used for suppression of the flying dust very efficiently from a distance and also covers a very wide area. It throws the mist at a distance It is widely used in irrigation and industrial purpose.

In industrial application, for dust suppression, most widely used application is Stock yard Area, Dirty mines, Tripper/Truck unloading in mines and ground hopper, wagon trippers, Reclaimer hoppers, any locations where dust is flying and open too, waste water evaporation. In open area, only and only Fog canon is used widely, as other methods of catching dust fails poorly on this fronts. Fog canon will be more useful and are more suitable for dust suppression than sprinklers in general.

In disinfection, it used to disinfection the building or air of factory any for any area of city too In agriculture, normally it is used for irrigation purpose. Even during building breakings, ship breakings, waste water evaporation etc it is also used widely.

We offer various type of Fog canon, and every Fog canon is individually designed and manufactured as per client requirement and applications,

Fog canon can be fixed type and rotating type.

In fixed type, Fog canon will suppress the dust in single direction, while in Rotating type, it can rotate and suppress the dust in different directions. Fog canon rotate around on its axis by 90 deg, 180 deg or up to 330 Deg. as per client requirement, we individually design and manufacture the fog canon.

Rotation of Fog canon helps in suppression of dust in almost all the direction around its axis inside the diametrical circle falling in its range.

We supply Fog canon for a throw away range up to, 35m, 50m, 60m, 70m, and 100m, 120m, and supplies both fixed type and auto rotating type. Degree of movement can be 0 -180 Deg, 0 -355 Deg even fixed too .

TRUCK MOUNTED FOG CANON, MIST CANON

EIC is, Truck Mounted Fog Canon Manufacturer, Truck Mounted Fog Canon Supplier, Truck Mounted Fog Canon Manufacturer In India, Truck Mounted Fog Canon Supplier In India, Truck Mounted Fog Canon Manufacturers, Truck Mounted Fog Canon Suppliers, Manufacturer Of Truck Mounted Fog Canon In India, Truck Mounted Fog Canon For Port, Truck Mounted Fog Canon For Coal Handling Plant,

We supply Truck-mounted Fog Cannon , complete with all accessories for air-borne dust suppression system, mounted on new Truck Chassis (with built-up Driver's Cabin), suitable to suppress air-borne fine dust of Coal, Iron Ore, Limestone, Fertilizer, etc. and other cargo, while handling, transporting and stacking of such cargo at port or industry,

These Truck-mounted Fog Cannon Mist Machine is capable of suppressing air-borne dust, generated from different types of materials, including fine and micro fine dust, in open areas / Yards / Railway Sidings / Berths / Sheds, etc.

EIC Truck-mounted Fog Cannon Mist Machine [including Chassis, Water Tank, suitable Diesel Generator (DG) Set or hydraulically driven , Rear Sprinkler, High Pressure Pump, Hose, Nozzle, The machine fitted with 1 (one) no. Multi-stage Centrifugal Pump set, fabricated Water Tank, suitable for horizontal throw range of Water Mist from 20 metres to 50 metres and vertical peak up to 12 metres.

The horizontal throw range of the Water Mist Fog would be in the range of 20 to 50 metres under no-wind conditions.

If the machine is supplied with DG Set than, Suitably rated DG Set with Alternator and all other arrangements (to take the load of Fog Cannon and Pump Sets) in acoustic enclosure, as per the relevant Indian Standards, shall be fitted with residential type silencer. The complete assembly shall be fitted firmly on the Chassis unit.

PRESSURIZED REAR SPRINKLER

The Vehicle can be fitted with a Pressurized Rear Sprinkler System.

It may consume maximum 200 lpm of water

Pressurized Rear Sprinkler May spray pressurized water to cover maximum up to 20 m road width in 1/2 pass.

The system shall spray water uniformly over the surface of the road to avoid over wetting

The system is to be designed to sprinkle the water on the roads to suppress the dust which otherwise will enter the atmosphere due to vehicle movements.

Specially designed nozzles are being used for this purpose

There shall be adjustable manual valve to control the water.

ROAD WASHING SYSTEM (FRONT AND CENTER)

The Truck mounted equipment shall wash Concrete & Hot Mix Roads mainly for Sea Ports internal roads and commercial roads.

Depending upon the condition and width of the road, the system shall have facility to use either 2 front nozzles or 2 side middle nozzles or both at a time. In single/two pass, The equipment shall wash up to 20 meters width of the roads. The machine shall consume minimum 400 to 600 liters of water per minute. Nozzles are made with rust preventive material.

DUST SUPPRESSION SYSTEM

Plain Water System, Dry Fog System Sprinkling System Dry Fog Canon

We offer Dust Suppression system for Stock Yard, Belt Conveyor line for power plant & other industries, Wagon Tippler , Belt transfer points, Reclaimer Hopper, Screen, crusher, etc.

We offer Plain Water system and the Dry Fog System also. Stock yard Sprinkling System etc - Sprinkling System is used for Sock Yard Area or Raw Material Storage Area.

Plain Water Dust Suppression System

The dust suppression system in the coal handling plant is a wet dust suppression system. Wetting Agents are chemicals that are added to water to improve the rate at which spray droplets wet dust particles.

This system consists of three main parts.

Water Pump, Water Tank, etc

Spray headers with pipe lines & pumping system.

Control units with electrical systems.

Spray header with pipe lines pumping system includes solution pumps, isolating valves, spray nozzles, and pipe lines. The solution pumps are used to supply pressurized water to spray headers. The required quantities of nozzles are used to spray water.

Control units with electrical systems consists of sensing units, control panels. Coal flow is sense by sensor. The control panels are consisting of various relays and transformer.

Operation of DS System

Auto control or manual control governs the system. It has to be insured that main tank is filled with water. The water is pumped by feed water pump from main tank to feed water tank. the system in recalculation. The sensing system for controlling spray at proper header ensures spraying solution if conveyor is running with coal. And will not allow spraying solution if conveyors are running empty, the solenoid valve headers are energized if conveyor is running with coal. If all or some of the solenoid valves are not energized the system will realize pressure through pressure relief valve, which protects the system. A solenoid valve is provided with bypass line, which operates when none of the spray header solenoid valves are operative.

Stock yard Sprinkling system

Sprinkling system is used for dust suppression of stockpile. Water is sprayed on the stockpiles to keep the coal damped and prevent dust to flying around . Sprinklers Irrigation systems is used to control dust on outdoor stockpiles, but when the stockpiles are excavated, dust will arise as the drier material in the pile is exposed and moved around. An sprinkler system uses a lot more water than a fogging system – almost 10 times , sprinkling system is chosen after a lot of considerable planning and forethought. One Sprinkler can move around its axis and can throw the water even up 20-50 m away.

PULSE JET BAG FILTER

We supply bag filter (dust collectors) on various application like Crusher and Screen house, bunker house, coal handling plant in Thermal Power Plant, cement plants, Induction furnaces, banburry Mixture, various Furnaces, sponge iron plants, Rice mill, etc. We have so many installation of bag filters and few of them has range from 60000 to 1,50,000m³/hr cap. We have more than 100 bag filter installation power plants. We also take DE system including its ductings on turnkey basis.

VENTILATION SYSTEMS

We Offer Following Equipment For Ventilation System :

- **Ventilation and Pressurization Systems** :From 1500 m³/hr to 4, 00,000 m³/hr capacity
- **Air Washers, Air Handling unit** : From 1500 m³/hr to 4, 00,000 m³/hr cap.
Evaporative and Cooling Systems

AIR WASHERS,

We are leading manufacturer and exporter of Air washers. . The products which come under this category are Evaporative Air Cooling- Single Skin and Evaporative Air Cooling- Double Skin.

We offer superior quality , Industrial Air Washer Unit that work on the principle of cooling the air by passing it over water-saturated pads, water evaporates and results in cooling of air,. The cool air is then directed into the ventilated area. Air Washer System with cellulose paper pads, , specially treated fluid media capable of absorbing and retaining water to provide the maximum cooling efficiencies. The cooling pad is cross-corrugated to maximize the mixing of air and water and eliminate water carryover.

Air washer, Axial Fan, Vane Axial Fan, Roof Extractor etc

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 carry the material to the final destination with the air stream.

Pneumatic Conveying System is basically quite simple and are eminently suitable for the transport of powdered and granular materials in factory, site and plant situations from one location to pother location with the help of pressurized air. It normally comprises of compressed gas, usually air, a feed device, a conveying pipeline and a receiver to disengage the conveyed material and carrier gas. The system is totally enclosed. High, low or negative pressures can be used to convey materials.

Dense Phase Pneumatic Conveying System is used to push and convey the highly dense concentration of bulk solids materials effectively at a low constant speed inside the conveying pipe lines. Lean Phase system works on low air pressure, herein material is conveyed in suspension in the flowing air.



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Air & Materials handling Equipment