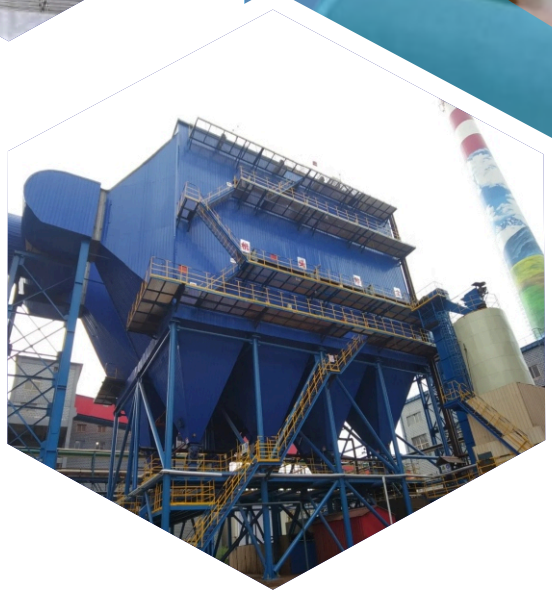
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ISO CERTIFIED 9001:2008

VAAYU SHANTI SOLUTIONS PVT LTD

Manufacturing of Filter Bags, Cages & Supplier of ESP Spare etc.







About Us

Started With Global Enviro Technologies under Mr. Ritesh Mittal in 2006, with manufacturing of filter cages, gradualy we expand by dealing in other products. In 2009. Moreover, the company is known as the prime manufacturing and supplier of ESP electrodes, Filter Bags, ESP insulators, Filter Cages, Filter Venturi, Insulator Heater, Solenoid Valves and Sequential Timer Cards in India.

Let's Connect With Us

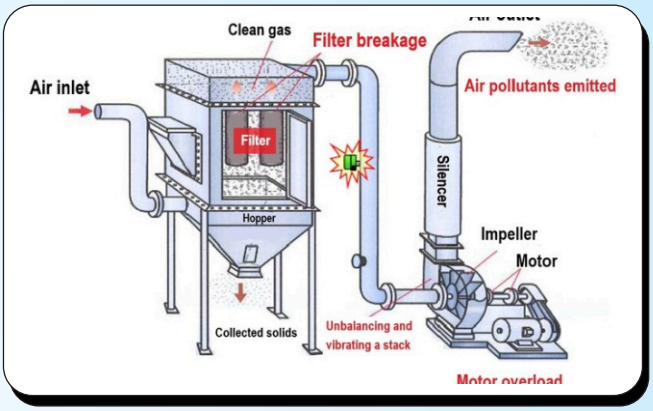
Phone: 9109969081, 9109969084, Email: sales@vaayushanti.org., crm@vaayushanti.org,
Website:www.vaayushanti.org, Address: **Vaayu Shanti Solutions Pvt. Ltd.,**
Corporate Office- J20, Rama World, Near MGM Eye Hospital, Ama Seoni, pin- 493111
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POLLUTION CONTROL EQUIPMENTS

BAG FILTER SYSTEM

A bag filter is a filtration type dust collector that mainly collects dust or solid particles from exhaust gas in industrial processes. By selecting suitable filter (filter bag), it is applicable to various exhaust gases with a wide range of temperatures and compositions











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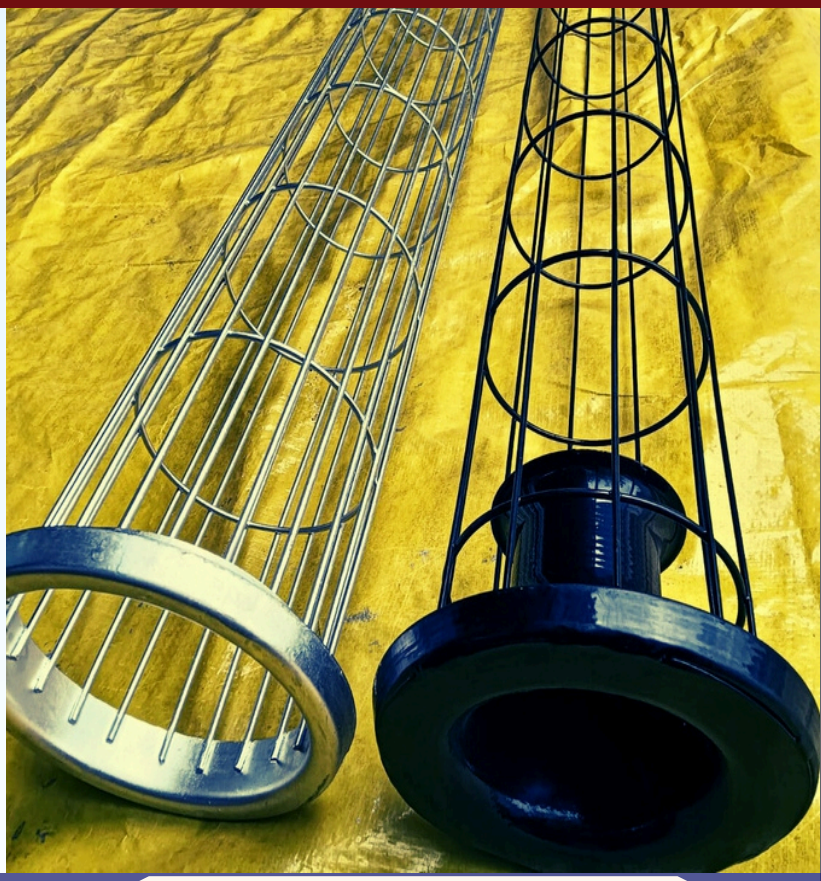
HEAT EXCHANGER

Heat exchangers are used to transfer heat between the indoor and outdoor air streams while keeping them physically separated as a means of cooling the indoor air



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Epoxy Cage



What is Epoxy Coating

- It is a type of coating that is applied as a free-flowing dry powder on metal and then cured under heat.
- Powder when sprayed on metal, it stick to its surface cause of static electricity and then baked in the oven at about 150-200deg C for 10-15 minutes

Epoxy coating process

- Cage cleaning: Cages are cleaned in 7 tank cleaning process and are dried for powder coating.
- Epoxy powder coating: After drying each cages are coated with epoxy powder in lot wise.
- Curing: After powder coating, cages are passed through temprature Furnace at required temp and desired time duration to get uniform powder coating .

Stage Of Epoxy Coating

Sl no.	Process	Details
Stage 1	Alkaline Degreasing	Cleaning of metal surface from oils,grease etc by Alkaline degreasing
Stage2	Water Rinsing	Water rinsing done
Stage 3	Rust Remover	Rust Removed from metal surface by mixing Acid
Stage 4	Water Rinsing	Water rinsing process done
Stage 5	Phosphating	After Rinsing ,metal surface activated by activating chemicals for Zinc phosphate coating. Duration 5-20 min , uniform coating of metal surface with Zinc, by zinc phosphate solution
Stage 6	Water rinsing	Water rinsing process done
Stage 7	Passivation	This is the final step, for obtaining maximum corrosion resistance .It forms a chrome layer over Zinc phosphate.It seals the pores of Sheet metal surface for obtaining maximum corrosion resistance .

Benefits of Epoxy Cages

GI Vs Epoxy

Parameter	GI/MS cages	Epoxy cages
Dust conditions: abrasive, sticky,moist dust	Rusting starts which damage bags .	Can withstand this conditions and enhance bag life
Impact on bags due to cage quality	Life of bags due to rusting is less	It increases bag life since cage surface is smooth and due to easy removal of bags.
Life of cages	Compared to epoxy ,GI/MS life is less due to rusting	Life is more due to thermal bonding between epoxy powder and wire.
Overall productivity/Maintenance	Overall productivity is less and maintenance cost is more ,due to frequent change of cages	Productivity increases and maintenance is less due to easy handling of cages

Parameters	GI/MS cages	Epoxy cages
Physical appearance	Uneven surface specially during wire drawing, Covered with paint	Smooth and glossy finish with epoxy powder coating
Temperature resistance	If Bituminous paint : 150 deg HR paint:240deg GI :260 deg	Epoxy coated: 260 deg C
Resistance to moisture	Rusting will occur in case of high moisture content	It can withstand high moisture conditions
Acid and chemical conditions	Rust starts with chemical/acid attacks	It withstands chemical/acid attacks

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FILTER CAGE

Baghouse filter cages provide support to your filter bags, and can affect the baghouse's dust collection efficiency. supplies a wide range of baghouse dust collector filter cage configurations. Common wire cage constructions consist of 10, 12, or 20 vertical wire stringers. Standard horizontal ring spacings are 4", 6" or 8".

Materials/Finishes

- Carbon Steel/Mild Steel
- Galvanized Steel
- 304 Stainless Steel
- Epoxy Coated (High Temp <325°)

Vertical Wires

- 10, 12, and 20 vertical wires most common
- 5, 6, 8, 16 and 24 also available

Sizes

- Common diameters: 4″ – 6-1/8″ (fits most baghouse OEMs)
- Common lengths: 6′ – 12′ (shorter/longer lengths also available)

Cage Top Styles

- Rolled Flange (Turned Down Flange) – Most Common Top Load Style
- Split Collar (Rolled Band) – Most Common Bottom Load Style
- Slotted
- All Wire
- Split Ring

Cage Shape

- Round (most common)
- Oval

Cage Bottom Styles

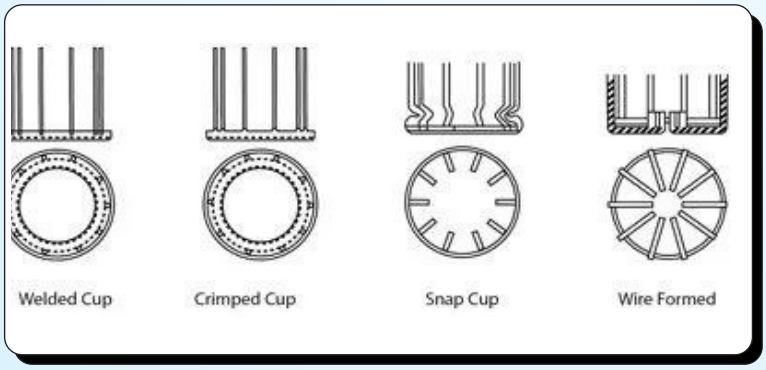
- Welded – Most Common
- Crimped
- Snap
- Wire Formed

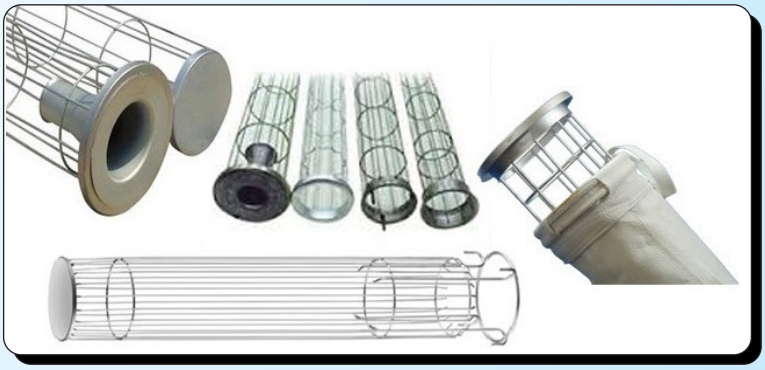
Additional Options Venturi

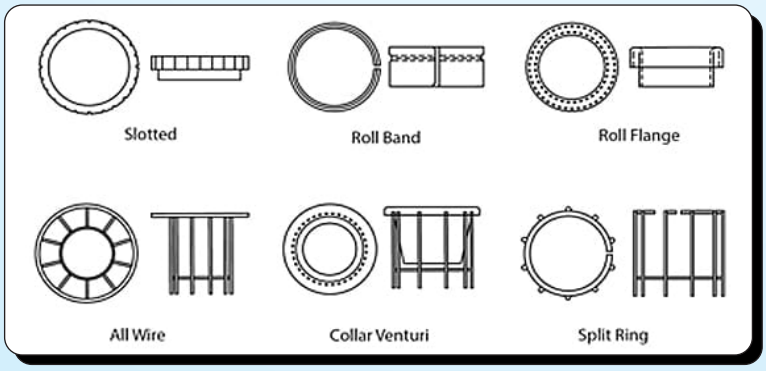
- Aluminum, carbon steel, galvanized or stainless steel
- Attached (riveted) or drop-in/removable designs
- 3″ – 6″ lengths

Two-piece option

- "Twist-lok" style (good for baghouses with low clearance)
- "Fingers" style
- Slide Lock









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FILTER BAGS

We Manufacture and supply various types of Dust Collector Fiter Bags That are widely used in cement industries, Steel Industries, steel Industries, Chemical Industries etc. Our Dust Colector Fiter Bags are available in different shapes and sizes. These are manufactured using different materials depending on the needs of the clients such as Fibre Glass, Basalt Fibre, Polyester Nomex, PPS, P84.

P84 fibre is famous for its micro pore structure to needle into felt. It is high temperature resistant filter media, with good acid and alkali resistance, and good oxidation resistance. Working temperature is 260 deg. cent. and has ability to deal with accedences and excellent chemical resistance.



Aramid needle felt characteristice: High temperature (204-210), anti acid, anti alkali, high filteration blow speed, low pressure drop, anti-break and antiabsorsion but it easily be hydrolyzed in the condition of high temperature, which mostly applied in pitch mix gas, blast furnace gas in steel factory, kiln applications etc.



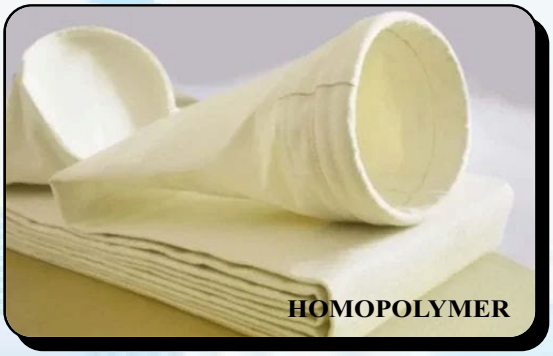
Fiber glass composite needle felt is made of more than two varieties of heat resistant fibre for getting better chemical performance. It has many advantages such as heat resisting, High Strength and resistance to corrosion. It possess the abilities of easily cleaning, waterproof antistatic and so on.



Between 130 and 150 Degree Cent., PET felt is widely applied. Needle felt made from polyester yarns have good air permeability and are not yielding, with some surface finished, They are excellent in industrial fume dust controlled and dust collection.



The fabric is particularly suitable for applications where moisture is high due to its good hydrolysis and acid resistance. It is often used as an alternative to polyester to protect against hydrolysis problems.

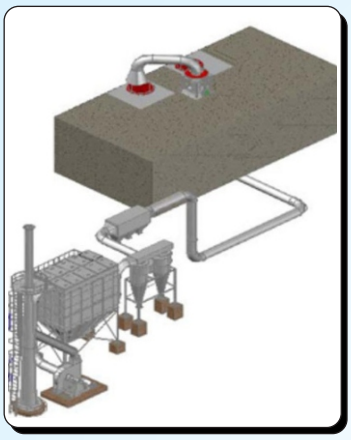


Fiber Selection Chart

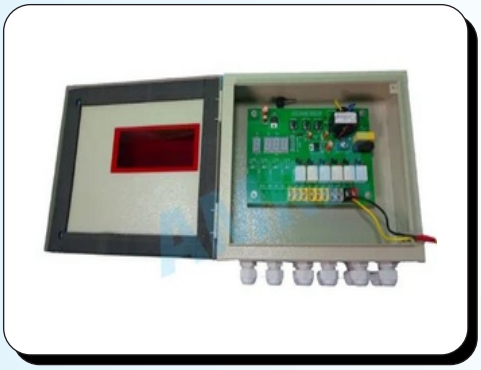
Fibre's Generic Name	Polypropyl-ene	Polyester	Homopoly-mer Acrylic HPA	PPS	M-Aramid	Polyimide (P84 / PI)	PTFE	Fibreglass
Cont. Op Temp (Dry Heat)	90° C	135° C	120° C	160° C	200° C	240° C	260° C	260° C
Cont. Op Temp (Moist Heat)	90° C	90° C	110° C	190° C	175° C	220° C	260° C	260° C
Max. Short Peak Temp (Dry Heat)	105° C	150° C	140° C	200° C	220° C	260° C	280° C	280° C
Resistance to Alkali	Excellent	Fair	Fair	Excellent	Good	Good	Excellent	Fair
Resistance to Acid	Excellent	Fair	Fair	Excellent	Fair	Good	Excellent	Very Good
Abrasion resistance	Excellent	Excellent	Fair	Good	Good	Good	Excellent	Fair
Typical structure								

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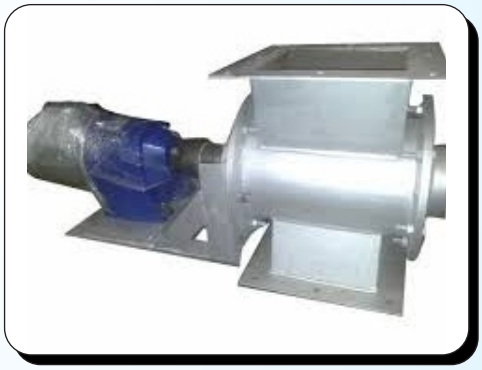
INDUCTION FURNACE POLLUTION CONTROL EQUIPMENT



Induction furnace are the most used furnace to melt steel around the world. in this device a pinnacle draft or an aspect draft suction hood is provided at the top or side of the furnace vessel to extract the fumes generated via the fireplace at the time of melting, this hood further goes to the spark arrestor to rule out the extra warmness or sparks from the fumes. Then the fumes which can be cooled down go to the pulse jet bag filter or bag house or air pollution control machine where SPM or dirt or fumes get filtered after which clean air travels via the ID fan and to the atmosphere through a stack or chimney. the whole emission after these systems may be achieved as low as 2-5 mg/nm3 depending on the pollutants manipulation norms in the vicinity.



TIMER CARD



RALV



SOLENOID VALVE



DAMPER



AXIAL FAN



ID FAN

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ELECTRO STATIC PRECIPITATOT (ESP)

An electrostatic precipitator (ESP) removes particles from a gas stream by using electrical energy to charge particles either positively or negatively. The charged particles are then attracted to collector plates carrying the opposite charge



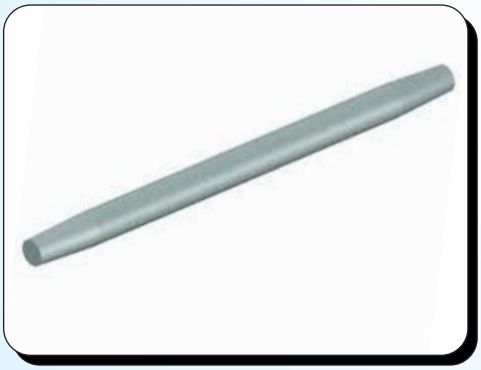
Support Insulator



Suspension Insulator



Wall Through Bushing



FRP Rod Insulator



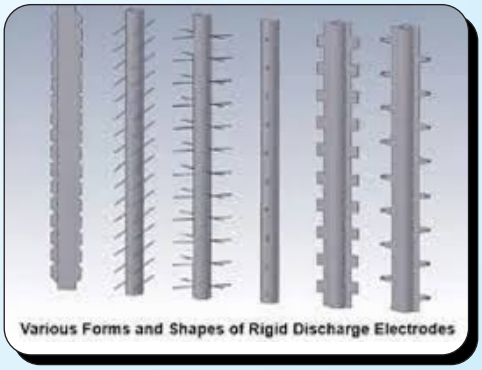
Bus Duct Insulator



Shift Insulator for ESP



Collecting Electrodes



Discharge Electrodes

COMMITTED

"We are committed to delivering reliable, cost effe ctive environment friendiy solutions for maximizing prosperity of our customers while expanding our sphere of operations globally."

OUR VISION

- Customer Satisfaction is our motto.
- Clean environment is our resposibility.
- Our commitment is to deliver a product or service which exceed customer expectation.

OUR CLIENTS

OUR ACHIEVEMENTS

2006
YEAR ESTABLISHED

562/75%
REPEAT CUSTOMERS/CLIENTS

500 CR
CUMULATIVE REVENUE SINCE ESTABLISHMENT

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