

# Shimi Research Center Pvt. Ltd

INFORMATION BROCHURE

CYCLONE DUST COLLECTORS



# SHIMI RESEARCH CENTER PVT. LTD

Several years of extensive experience in design and manufacture of environment friendly technologies, has made Shimi Research Center Pvt. Ltd the prime choice of leading companies across various sectors both in India and overseas. An ISO 9001:2008 company, Shimi Research Center Pvt. Ltd is well known for delivering the highest levels of performance, excellence and quality in all its products and services. Our product portfolio stands out because of the extensive range of tailor made pollution control equipment and remedial solutions for pollution, waste management, recycling technology and process control offerings.

## CYCLONE

Cyclonic separation is a method of removing particulates from an air, gas or liquid stream, without the use of filters, through vortex separation. Rotational effects and gravity are used to separate mixtures of solids and fluids. The method can also be used to separate fine droplets of liquid from a gaseous stream.

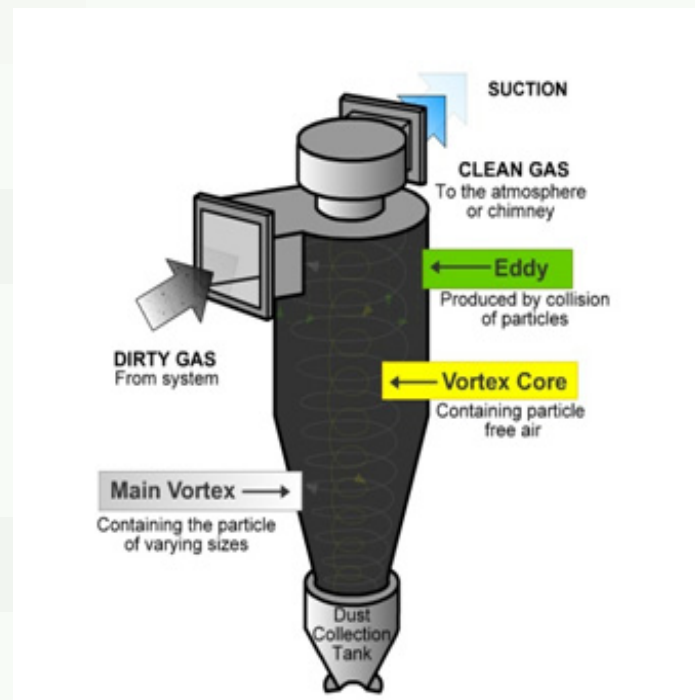
A high speed rotating (air)flow is established within a cylindrical or conical container called a cyclone. Air flows in a helical pattern, beginning at the top (wide end) of the cyclone and ending at the bottom (narrow) end before exiting the cyclone in a straight stream through the center of the cyclone and out the top. Larger (denser) particles in the rotating stream have too much inertia to follow the tight curve of the stream, and strike the outside wall, then falling to the bottom of the cyclone where they can be removed. In a conical system, as the rotating flow moves towards the narrow end of the cyclone, the rotational radius of the stream is reduced, thus separating smaller and smaller particles

## ENERGY EFFICIENT CYCLONE AND MULTI CYCLONE

EEC & EEMC are widely used in Coal Fired Boilers to control air pollution and reduce coal consumption by 15-20%.

EEC & EEMC systems fabricated from high grade stainless steel, SS-316 to withstand corrosion caused by high temperature flue gas and acids formed during the burning of sulphur containing feasible fuels.

The concept of EEC & EEMC is based on increasing boiler feed water temperature using the heat generated from the EEC & EEMC. A well designed system with proper water management can produce feed water of 70-80°C resulting in considerable coal consumption reduction.



# BENEFITS

- Convenient and efficient cleaning of work area
- No expensive filters
- Low maintenance costs
- Highly durable
- Ease of operation
- Works at high temperatures as well

Cyclones find wide applications in industries such as :

Wood Products Manufacturing

Buffing and Polishing

Ceramics

Chemical Processing

Ore Processing

Dust Collection involving sticky materials

At Shimi Research Center, we strive to provide our customers with high quality environment solutions. Our team of highly experienced and talented professionals work with you to deliver a solution that is best suited to your organization's needs.

An association with Shimi Research Center Pvt. Ltd guarantees:

- » State of the art equipment
- » Exclusive – one of a kind- Tailor Made Solutions to match all your needs
- » Flexible designs to suit variation in available space
- » User friendly and easy to handle constructions
- » Provision of extensive safety features for smooth and trouble free operation
- » A team of knowledgeable professionals dedicated solely to your project
- » Dependable Customer Support
- » Regular system upgrades offerings by our R&D Division

The Shimi Research Center Promise:



## OUR ESTEEMED CLIENTS

- » UNITED BROTHERS, Mathura Road , Delhi, India
- » METAL FORGING, Mayapuri, Delhi, India
- » JINDAL STEELS, Bahadurgarh, Haryana , India
- » M F RINGS, Ballabgarh, Delhi, India
- » VOLGA METAL INDUSTRIES LTD. , Mangolpuri, Delhi India
- » SNB ENTERPRISES PVT. LTD . , Jahangirpuri , Delhi, India
- » SPARTON INDUSTRIES INDIA, Wazirpur, Delhi, India
- » JUMBO HOUSE, Okhla, UP, India
- » PARVATI LTD., Rajasthani Udyog Nagar, Delhi, India

## WE ALSO DEAL IN

- » Venturi Scrubbers, Bag House (Pulse Jet Bag Filters).
- » Wet scrubbers viz multi-stage spray tower, packed bed towers and other custom made combinations.
- » Waste water treatment systems such as Effluent Treatment Plant (ETP), Sewage Treatment Plant (STP)
- » Blowers up to 2,50,000 CMH and pressure of 1,200 mmWG
- » Pumps: High pressure pumps in SS-304, SS-316, PP and GFPP.
- » Fumes exhaust systems.

## CONTACT

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