

Welcome to Techflow Enterprises

Air Pollution Control Systems

Quick inquiry



About

Air Pollution Control Systems

TECHFLOW is an established and trusted manufacturer and supplier of Air Pollution Control systems and equipment for hazardous industrial applications that degrade the climate through the emission of certain damaging pollutants. Technoflow designs and supplies a wide array of products across different categories namely, Dust Collection Systems, Centrifugal Blowers/Industrial Blowers, Cartridge Filter, Air Pollution Control Equipment, Pulse Jet Bag Filters, Pneumatic Conveying Systems, Mobile Welding Fume Extractor, & many more varieties of other components and spare parts for these systems.

Right from Conceptualization to Installation, TECHFLOW are competent in providing solution for Air Pollution Control Systems for any kind of issue related to Dust Collection System, Centrifugal Blowers, Pneumatic Conveying Systems, Air Pollution Control Equipment, Pulse Jet Bag Filters, and Industrial Blowers.

Discover more



Applications

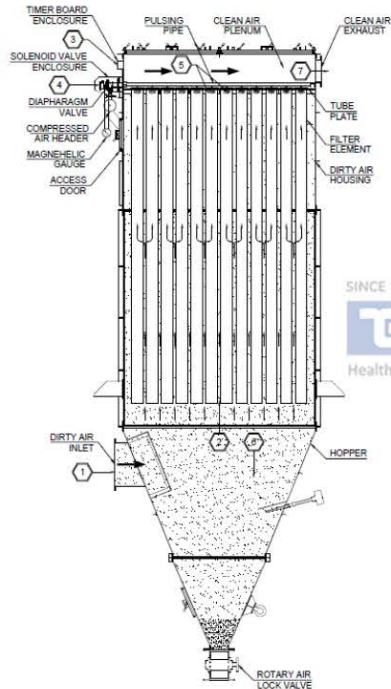
Air Pollution Control Systems

What are Air Pollution Control Systems?

- Air Pollution Control Systems are the equipment that refines and releases clean breathable air into the atmosphere by extracting the polluted air that may contain

particles or dust released from any type of manufacturing plant or processing equipment, filtering it, and separating the different particles from the air. The system goes by many different names in a wide spectrum of industries. It comprises many parts like filter cage, pulse cleaning valve, centrifugal blower, filter bag, filter cartridge, sequential timer, rotary airlock valve (RAV), and more. The schematic mentioned below shall explain in detail the operation of the machine.

Schematic : Air Pollution Control Systems



SEQUENCE OF OPERATION

1. DUST LADEN AIR OR GAS ENTERS THE DUST COLLECTOR THROUGH THE INLET.
2. AIR PASSES THROUGH THE FILTER MEDIA WHILE SOLID ARE RETAINED ON THE MEDIA'S SURFACE.
3. A SIGNAL FROM THE TIMER ACTUATES THE OPENING OF THE NORMALLY CLOSED SOLENOID VALVE.
4. OPENING OF THE SOLENOID VALVE RELEASE THE AIR PRESSURE IN THE TUBE CONNECTING THE SOLENOID TO THE DIAPHRAGM VALVE, CAUSING THE VALVE TO OPEN.
5. A MOMENTARY PULSE OF COMPRESSED AIR FLOWS FROM THE AIR HEADER DOWN THE PURGE PIPE AND OUT INTO EACH FILTER BAG. THIS MOMENTARY PULSE TAKES ALL BAGS IN ONE ROW OFF LINE THROUGH PRESSURE REVERSAL.
6. SOLIDS ARE RELEASED TO FALL INTO THE FILTER HOPPER OR BIN
7. FILTERED AIR EXITS THROUGH THE CLEAN AIR PLENUM EXHAUST.

SINCE 1979

TECHFLOW
Healthy Air-vironment Always ... Anywhere!

The system goes by many different types of names like Bag House, Pulse Bag Filter, Dedusting System, Cassette type filter, flue gas emission control system, fume extraction system, dust recovery system, silo vent filter to name a few.

The Suspended Particulate matter is kept in control, thanks to the use of the pulse jet bag filter both in the indoor and outdoor environment. The design of the equipment is made on the basis of different parameters like Air to cloth ratio, temperature of the air, Dust Loading, Can Velocity, and the type of dust.

How Effective is a pulse jet bag filter or air pollution control device?

The air pollution control equipment by TECHNOFLOW has a remarkable filtration effectiveness of as low as 2 mg/nm³. Different countries have different general emission or filtration standards. Our pulse jet bag filter can be tailor-made to achieve the best results of filtration whilst keeping in check the regulations.

TECHNOFLOW's pulse jet bag filter caters to a wide spectrum of industries like Steel mills, TMT making industry, cement plant, boiler flue gas, kiln, aluminium plant, waste to energy plant, mineral industry, rubber recycling, food plant, cattle feed plant, particle board plants, steel plants, cement mills, crushing plant, ceramic plant, dryer, aluminium smelting, DRI plant, WTE, pharma plant, dairy plant, cattle feed plant, and many more industries.

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Installations



Components & Spares

- Rotary Air Lock Valves
- Dome Valve
- Wear Resistant Bends
- Aeration Pad
- Welding Fume Extraction System
- Vent Filters Dust Aspiration Units
- Motorised Shaker Dust Collectors
- Dense Phase Pneumatic Transporter
- Axial Fans
- Accessories / Spares

Industry Specific Solutions

- Foundry, Steel & Sponge Iron
- Wood, Laminates & Particle Board Plants
- Master Batch / Plastics / Pigments / Paints
- Mineral / Mining
- SAW Pipe Manufacturing
- Food, Spices, Tobacco, Agriculture, Dairy & Cattle Feed
- Boiler (Manufacturer & End Users)
- Ceramics & Tiles

Corporate Office

- 302,303,304,305 Shilp Aperia, Bopal
- Ambli Road, Near Neptune House, Opp to BRTS Stop Ahmedabad - 380058,Gujarat, India

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Direction

Works & Registered Office

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Direction

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- Processing
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- Blasting
- Glass
- Engineering
- Automobile, Robotic Welding &
- Welding Workshops

Working Days - Monday to Saturday -
Timing - 8:30 a.m. to 5:00 p.m.



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