

Clean Air Solutions



Mist Collectors, Dust Collectors and Scrubbers



CECO Filters Mist Collector Systems and Scrubber Systems

CECO Filters designs and builds air pollution control systems to create cleaner and safer working environments inside, and cleaner and safer emissions released outside.

CECO offers a complete line of fiber bed filter mist collector systems to eliminate liquid mist emissions and scrubber systems to clean contaminated gas streams and reduce particulate emissions. CECO's systems are used extensively by companies seeking to reduce emissions in a wide range of industries and applications.

Fiber Bed Filter Mist Collector Systems

Fiber bed filter mist collectors are used to trap, collect and remove liquids and soluble particulate suspended in a gas stream. They are also used to collect insoluble solids.

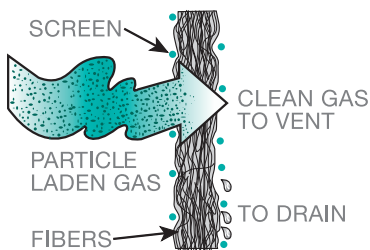


Figure 1

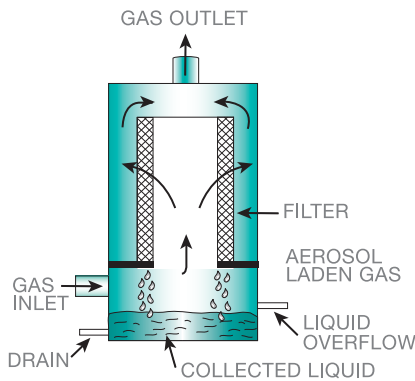


Figure 2

Filters are typically constructed in annular cylindrical form with an outer and inner screen and the filter material placed between the two screens. (See Fig 1)

Mist laden gas passes in a horizontal direction perpendicular to one side of the fiber bed and cleaned gas exists from the opposite side.

The particles are trapped and held by the fibers as they try to pass through the fiber bed. The collected particles coalesce on the filter surface and drain by gravity.

The filter units rest or are suspended from a tube sheet inside a closed tank. Gas flow can be from outside the filter face to the inside or vice versa. (See Fig 2)

Fiber Bed Filter Systems

Filter-In-Duct (FID) System

The FID System is used to collect metalworking fluid mists in wet machining. Typical applications include turning centers, screw machines, lathes, cold heading, etc. This unit may be used on individual machines.

CECO Mist Collector (CMC) System

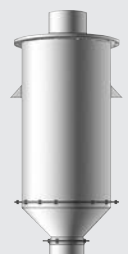
The CMC System is designed for use in metalworking, asphalt, food processing, and other applications. This unit is typically used on applications where exhaust from one or more areas is taken to a central location for mist elimination.

Filter-In-Vessel (FIV) System

The FIV System is designed to reduce and eliminate mist emissions in a wide range of applications and industries. This unit is available in various materials of construction (steels, alloys, plastics and fiberglass).

DLM Filter System

The DLM System is designed for lightning fast maintenance and it allows plant personnel to change the main filter and pre-filter very quickly. Available in standard or custom-designed configurations and materials of construction, this system offers simplified maintenance.





Industries and Typical Applications

CHEMICAL

ACID / CAUSTIC MIST

ASPHALT

STORAGE TANK EMISSIONS

STEEL AND METALS

ROLLING MILL

LUBRICANT EMISSIONS

POWER

TURBINE LUBE OIL VENT

COAL HANDLING

COMPRESSED AIR SYSTEMS

PULP & PAPER

VISIBLE EMISSIONS

SEMICONDUCTOR

WET BENCH ACID MIST

PRINTED WIRE BOARD

HOT AIR SOLDER LEVELLING

FERTILIZER

NITRIC ACID

PLATINUM RECOVERY

FOOD PROCESSING

FRYER LINES

BRICK AND TILE PRODUCTION

IRON FOUNDRIES

CEMENT AND ROCK PRODUCTS

Tank Vent Filter (TVF) System

The TVF System is specifically designed to handle liquid mist emissions from storage tanks.

STTOR Filter Systems

These systems are designed to control turbine lube oil vent emissions in the power generation industry and to control emissions in other applications, such as compressors, generators, gears, diesel engines, etc. These systems are very successful in eliminating blue haze emissions.

Dust Collector Systems

CECO Filters offers a complete line of dust collector systems for a wide range of applications and industries. We offer fabric dust collectors, cartridge dust collectors, and downdraft benches. To remove the dust periodically from the units we offer pulse jet, reverse air, and shaker style cleaning systems.

Custom designs and sizes, existing dust collector upgrades, and complete turnkey systems allow our company to address all our customers' dust control problems.

Scrubber Systems

Catenary Grid Scrubber (CGS)

The CGS incorporates a simple design of curved grids, in lieu of packing, weirs, or downcomers, to scrub contaminated gases with clean liquids or slurries while maintaining high removal efficiency.

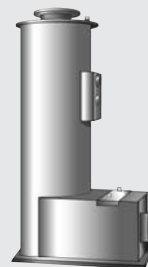
- High Solids Handling Capability
- High Removal Efficiency
- Low Pressure Drop
- High Capacity / Compact Size
- Acid Gas Neutralization
- VOC Scrubbing
- Particulate Elimination



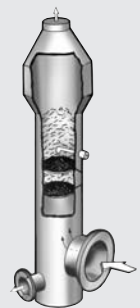
FIV



CMC



DLM



CGS



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The CECO Advantage:

- Turnkey Systems
- Custom Designs / Dimensions
- Vessel Materials: Steels, Alloys, Plastics, or FRP
- On-Site Filter Repack Capability

CECO Filters is part of CECO Environmental, a group of companies creating better working environments for you. CECO Environmental is a family of companies, each playing a specialized role in the creation of clean air solutions for industry. Working together, we can offer solutions to most air quality problems we encounter.

CECO Filters, Conshohocken, PA. Manufacturer of fiber bed filter mist eliminator systems, dust collector systems, and scrubber systems.

Kirk & Blum, Cincinnati, OH. Offers solutions from custom dust and fume control systems to complete turnkey design-build services as a prime ventilation contractor.

Busch Company, Pittsburgh, PA. Designs and builds conditioned air systems for filtering, cooling, heating and capture of emissions in the metals and converting industries.

KBD Technic, Cincinnati, OH. Offers emissions compliance testing through complete system design. The industrial ventilation engineering company.

CECO Abatement, Downers Grove, IL. Designs and builds thermal oxidizer systems.

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