



Pilot Plant Emission Control Systems

- **FOR TESTING FIBER-BED FILTER SYSTEM EFFICIENCY**
- **USE AS TEMPORARY MIST FILTER FOR PROTOTYPE PROCESS TESTING**
- **USE AS A BACK-UP FILTER SYSTEM DURING REGULAR FILTER MAINTENANCE**
- **USE AS A COMPLETE MIST FILTER SYSTEM FOR SMALL (400 ACFM) EMISSIONS CONTROL REQUIREMENTS**

CECO Filters, Inc. introduces two complete Pilot Plant Fiber-Bed Filter Emission Control Systems: the P-101 Unit with an Epoxy-Coated Steel Filter Tank for mildly corrosive environments and the P-102 Unit with a Fiberglass Filter Tank for many corrosive environments. These two Systems, designed by our experienced mist-eliminator engineers, utilize the latest state-of-the-art techniques in filter design, media and system operation to provide industry with an economical, efficient skid-mounted system for a wide variety of testing and emission controls.

Applications

- An emission control system for designing and testing prototype processing systems and techniques in the field.
- A backup emission control system for use during routine or emergency emission system maintenance or modification.
- A complete emission control system for small (up to 400 ACFM) processing operations.
- Evaluation of various fiber-bed filter media to determine the right mist eliminator system and media for your specific need.

Features of CECO's Pilot Plant Emission Control System

- The system consists of a filter, filter tank, process inlet connection, blower, fan, motor and starter, exhaust stack with damper and manometer taps, all mounted on a steel skid for mobility. All system components are carefully chosen to provide optimum, maintenance-free performance.
- The system may be supplied with any of CECO's wide range of performance-proven filter media to meet process parameters. CECO's expert filter engineers can



CECO P-101 Pilot Plant System

provide the correct filter media for virtually any mist eliminator application. The filter system can achieve a collection efficiency of 99.5 + % of all particles less than 1 micron in diameter, depending upon the choice of filter media. CECO's exclusive, disposable N-SERT™ * PREFILTER may be provided to capture particles that can clog the main filter, thus prolonging the life of the main filter.

- Optional features to tailor these units to the specific application include: a mesh pad prefilter, filter wash-down nozzles, special instrumentation for emission analysis, and others.
- CECO's P-101 and P-102 Pilot Plant Emission Control Systems are available on a rental basis for short term testing in industrial processes. Contact CECO for availability and scheduling.

For application assistance on CECO's Pilot Plant Emission Control Systems, contact CECO Filters, Inc. . . the technological leader in products and application know-how for solving blue haze, hazardous and non-hazardous emission control problems and product recovery requirements. Our 20 years of mist elimination experience is at your disposal. Call, write or FAX CECO today!

CECO FILTERS, INC.

*PATENT NO. 4,838,903



Specifications of CECO Pilot Plant Emission Control Systems

Model Numbers: P-101 Unit with Epoxy-Coated Steel Filter Tank.
P-102 Unit with Fiberglass Filter Tank.

Flow Rate — Nominal 400 ACFM. Rate may be modified depending on specific efficiency requirements and mist or solids loading in the process stream.

Filter Media — Available in a wide range of material depending on the application.

N-SERT™ Prefilter — May be furnished if specified for mounting inside the main filter. (Used for collection of small insoluble particles that would plug the main filter.)

Mesh Pad Prefilter — If required, a mesh pad prefilter may be placed upstream of the fiber bed filter. (Used for high load applications for reducing amount of liquid that fiber bed filter must handle.)

Filter Wash-Down Nozzles — May be supplied for washing down both fiber bed filter and mesh pad filter.

Pressure Taps — Manometer taps are provided for determining pressure drop across the filter.

Inlet Connection — 6" flanged to match ANSI 150# bolt pattern.

Tank Exhaust to Blower — 7" Diameter flexible hose.

Blower — 400 ACFM, centrifugal-type fan.

Motor — 5 HP non-overloading type.

Motor Starter — Combination disconnect/motor starter box mounted on skid. Designed for NEC Non-Hazardous Area.

Electrical Requirements — 240 volt/ 60 Hz/ 3-Phase.

Exhaust Stack — 4" Exhaust stack with Damper (P-101.)
6" Exhaust stack with Damper (P-102.)

Skid Mounted — Units are pre-assembled on metal platform ready for connection to services and gas stream.

Dimensions (Nominal) — 100" (2.54 M) length x 44" (1.12 M) wide x 106" (2.69 M) high to top of filter tank, 113 1/4" (2.88 M) to top of exhaust stack.

Weight — Nominal weight (dry) is 1,500 lbs. (679.5 kg.).
Nominal weight (wet) is approximately 2,200 lbs. (996.6 kg.).

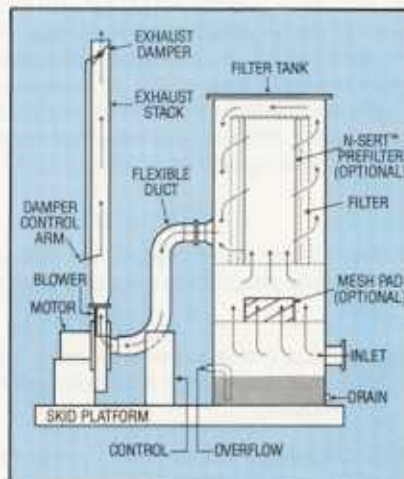
Specifications subject to change without notice.



CECO P-102 Pilot Plant System

Operation

Process emissions are drawn into the fiber bed filter tank and up through the center of the filter. The gases pass through the filter media and the mist and particles are captured by the fibers and coalesced into droplets on the media. The droplets drain by gravity to the tank bottom where they are removed by a drain. The clean, filtered gas is drawn through a duct to the fan which exhausts it to atmosphere.



Operation

How to Order

Please specify the following on all orders:

1. Model Number
2. Main Filter Media
3. N-SERT™ PREFILTER (optional)
4. Mesh Pad Prefilter (optional)
5. Wash Down Nozzles (optional)
6. Other special requirements
7. Shipping and billing instructions.

About CECO Filters, Inc.

One of America's oldest suppliers of fiber bed filters, systems and services, CECO Filters, Inc. provides

industries around the world with cost effective, efficient solutions to a wide variety of air pollution and recovery problems. The unique design and exclusive on-site repack capability of CECO filters have made them standard equipment wherever submicron aerosol particles need to be captured or removed.

Call CECO Today!

For complete information on CECO's Pilot Plant Emission Control Systems or other CECO products, it will pay you to contact CECO Filters, Inc., producing the highest quality mist eliminator filters and systems for a better bottom line. Call, FAX or write CECO.



FILTERS, INC.

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