



## **CECO Busch PPS / DBF**



**High Efficiency Mist Eliminator for Rolling Mills  
and Other Oil Mist Control Applications**

**CECO  
Busch**



## For High Efficiency Control Of Submicron Liquid Particulate

The Busch PPS / DBF unit was developed specifically to meet the increasingly stringent PM-10, PM-2.5 and condensable particulate regulations for metal rolling operations. The quantity and particle size of liquid mist generated from rolling mills are a function of many variables including coolant type, coolant flow rate, metal temperature, strip speeds and saturation dew point. Rolling Mills have several mist generation mechanisms such as hydraulic pressure sprays and surface boiling followed by condensation. For this reason, size and character of liquid particulate vary greatly.

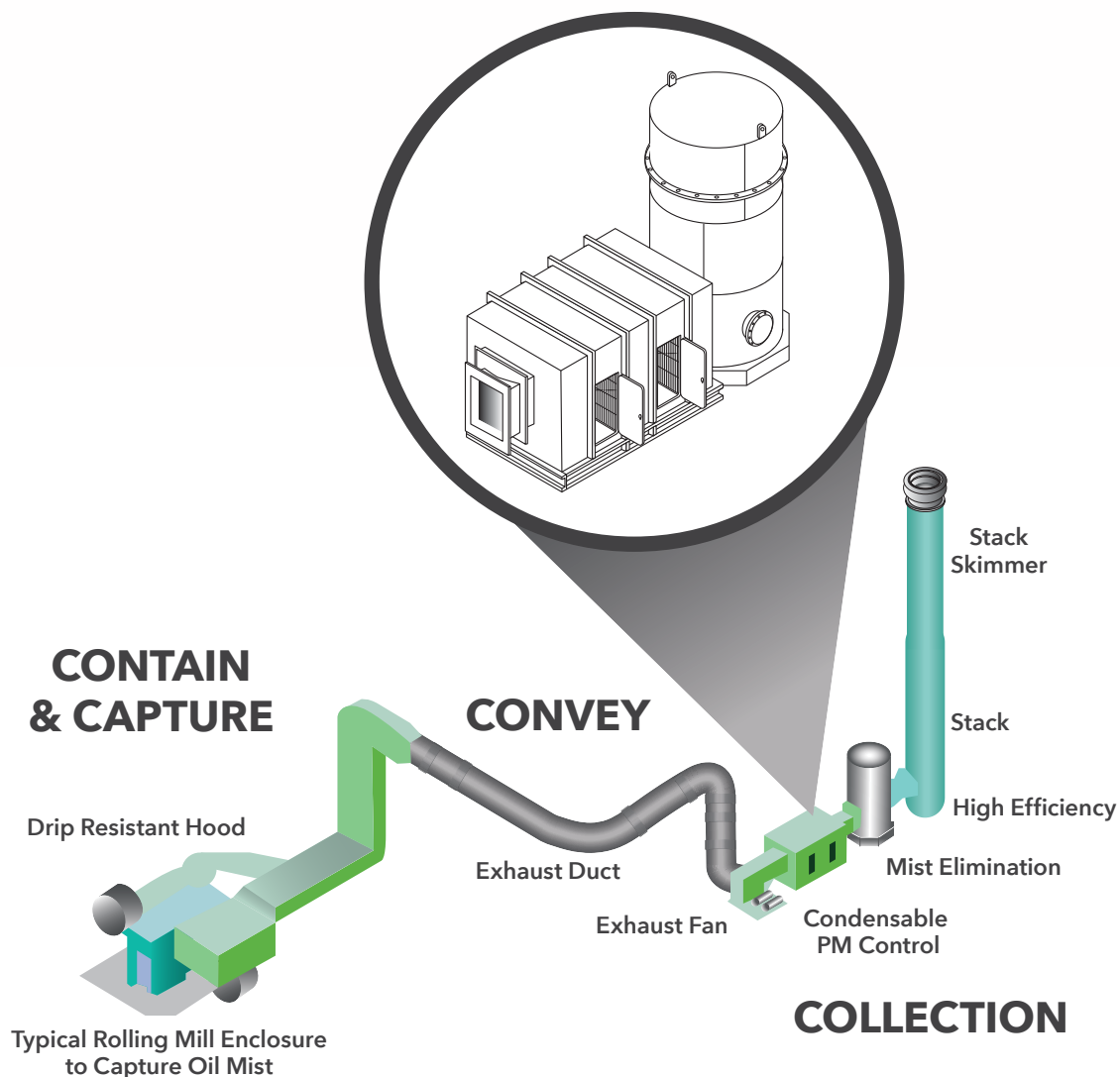
A multiplicity of coolants and rolling methods mandate the use of multiple stages to achieve the lowest maintenance and highest possible collection efficiency. The PPS / DBF unit employs cleanable media, disposable media or a combination of both.

The PPS / DBF eliminator mechanically removes and drains liquid particulate using several mechanisms. Mists are removed by inertial impaction, direct interception and Brownian capture depending on the droplet diameter and liquid density. The PPS / DBF unit provides removal of liquid particulate down to 0.3 micron. When vapor phase emission control is not required, the PPS / DBF mist eliminator offers maximum collection efficiency and lowest opacity.

## Design And Construction

The PPS / DBF unit is custom designed to suit each system requirement. Capacity, unit arrangement and dimensions, number of eliminators stages, location size of duct connections and materials of construction can be varied to assure proper installation and operation.

Construction of the PPS / DBF unit includes heavy structural base, sloped steel floor plate with multiple drain ports, reinforced housing and inspection and maintenance access panels. Critical welds are leak tested to detect pinhole leaks. If lighting is present, electrical wiring is in rigid, liquid-tight conduit in accordance with the plant's electrical standards.



# TRUST CECO ENVIRONMENTAL

Purchasing pollution control equipment can be a complex process, particularly when you have a system that requires many different pieces of equipment. CECO Environmental simplifies that challenging situation by meeting all your needs with the full scope of CECO Industrial Air and Fluid Solutions products. Whether you have a project that requires a thermal oxidizer, wet scrubber, blower and ducting or a dust collector, mist eliminator and other filtration equipment, CECO Environmental has you covered. Our CECO Industrial Air and Fluid Solutions family of technology brands can provide all your pollution control needs from one source.

## OTHER CECO SOLUTIONS

### Busch

- Rolling Mill Fume Exhaust
- Metals Industry Air Pollution Control
  - Pickle Lines
  - Dust Collection
  - Fugitive Emission Filtration
- Jet\*Star Strip and Coil Cooling

### HEE-Duall

- Corrosion Resistant Exhaust Duct and Fans
- Mist Eliminators and Wet Scrubbers
- Fume and Gas Scrubbers
- Odor Control
- Biofiltration Technologies

### Fisher-Klosterman

- High Efficiency ASME Cyclones
- Severe Service Cyclones
- Classifiers
- Wet Particulate Scrubbers
- Gas Absorbing & Fume Scrubbers

### Adwest

- Regenerative Thermal Oxidizers
- VOC Concentrators
- Media Change Outs
- RTO Rebuilds (All RTO Brands)

### CECO Filters

- Fiber Bed Mist Eliminators
- Mesh Pad Mist Eliminators
- Chevron Vane Mist Eliminators
- Sub-Micron Droplet Control for Various Acid and Oil Mist Particles

### Kirk & Blum

- Custom Sheet Metal Fabrication
- Flanged Ductwork Fabrication
- Industrial Ductwork Systems
- Air Quality System Design

### KB Duct

- Clamp Together Ducting
- Welded Flanged Duct
- No Return Isolation Valve
- Spark Arrestor
- Design Support
- Gates and Dampers

### CECO EIS

- Thermal and Catalytic Oxidizers
- Rotary Concentrators
- VOC Abatement
- Odor Control Systems

### Sethco

- Off-the-Shelf Drum Pumps
- End Suction Pumps
- Corrosion-Resistant

### Fybroc

- Corrosion-Resistant FRP Pumps
- Horizontal and Vertical Configurations
- Many Advantages over Metal Pumps
- Market Leader for Aquariums

### Dean

- High-Temperature Pumps
- Complete Air-Cooled Line Requires No Water Cooling
- Custom Solutions for Virtually Any Pumping Need

### Mefiag

- Filters Include Horizontal Disc, Cartridge, Bag, Carbon, Pleated and Oil Absorbing
- Electroplating Filtration
- Applications Include Automotive, Plating, Anodizing and Metal Finishing

## CECO Industrial Air and Fluid Solutions



### Busch

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[For more info, visit CECOBusch](#)