



At **CECO Fisher-Klosterman**, we take cyclone design very seriously. Our vast experience and scientific knowledge of cyclone design allows us to achieve extremely high collection efficiencies that in many applications can eliminate the necessity of final filtration devices. Our sophisticated computer modeling allows us to offer guaranteed performance when provided with complete operating information.\*

**CECO Fisher-Klosterman** offers seven basic models of Cyclone Dust Collectors - the XQ Series. These cyclones provide various levels of efficiency to meet your specific collection needs and are available in sizes from miniature collectors to units so large they must be shipped in sections. Dual, quad and other multiple arrangements are also available to solve height restriction issues or increase dust collection efficiency. Common inlet manifolds, outlet manifolds, and hoppers can be supplied to simplify connecting ductwork. Whether you want to remove relatively large particles from the air, eliminate fine particulate from plant emissions, or recover highly valuable product from process gas streams, there's an XQ cyclone that's right for you.



### Available Features

- Carbon, stainless, or alloy steel construction
- ASME Code design and construction for pressure vessels
- High temperature designs to over 2000 F continuous service
- Abrasion resistant linings for extended life including vulcanized rubber, refractory, and ceramics
- Internal and/or external insulation materials to minimize heat loss or meet skin temperature requirements
- Non-stick coatings
- Break-apart construction or manways for interior access
- Interior finishes conforming to 3A Dairy, food, or pharmaceutical standards
- Clean-in-place (CIP) systems
- Explosion containment or venting per NFPA
- Jacketing for heat transfer requirements including dimple plate, coils, half pipe, or double wall construction
- Tremendous variation of design to meet space and performance requirements
- Ultra-high efficiency designs for product recovery or emission control
- Performance Guarantee\*

## How it Works:

A cyclone is a mechanical collector designed to impart a centrifugal force on a particulate laden gas stream. The force throws the particles to the wall of the cyclone where they are sent to the bottom discharge. The cleaned gas reverses direction and exits the top. Cyclone efficiency is a function of the centrifugal force created and the amount of time the gas spends inside the cyclone – its residence time. Extensive research, testing, and experience allows Fisher-Klosterman Emtrol to guarantee the performance of its long residence time cyclones, which exceed the performance of typical designs available in the marketplace.\*



## Severe service cyclones are available for a wide variety of applications including:

- Waste incineration
- Gasification
- Combustion processes
- Fluid bed reactors and regenerators
- Chemical production
- Activated carbon
- Coking
- Cement and rock products
- Petrochemical reactors
- Drying & cooling processes
- Kilns & calciners

CECO Fisher-Klosterman has become a leader in the supply of cyclones for severe service by establishing an impressive track record in the most challenging applications. Our success is built upon experience, quality of engineering, and rigid adherence to quality control programs.

*\* For detailed information on how we can provide your company with a tailored performance guarantee, please contact us at:*

**CECO**  
ENVIRONMENTAL

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