

Mist Eliminator-Multi Cyclone**Product Coding**
P210302XXX**Introduction**

Multi cyclone is ideal for applications where gas flow is relatively constant, but contamination, either liquids or solids, such as may occur in long pipelines. Also, they are used widely as pre-separators, cartridge filter or coalescers. The multi cyclone is very efficient, usually removing over 99% of contaminants above particle sizes of 8-10 μm at a pressure drop around 0.5% of the inlet pressure at design conditions. Our unique quick install design means that the multi cyclone can be fitted later in the manufacturing phase, either in the workshop or at the site. They are easily removed for inspection, cleaning, or replacement. The multi cyclone features twin, opposing inlet ports to boost the capacity of the cyclone and offer improved vortex stability. This provides a high degree of separation of liquid droplets and solid particles, even at high operating pressures, but requires accurate design and is sensitive to the flow rate.

Multi cyclone scrubbers use centrifugal force to effectively remove solid particles and liquids from gas without moving parts.

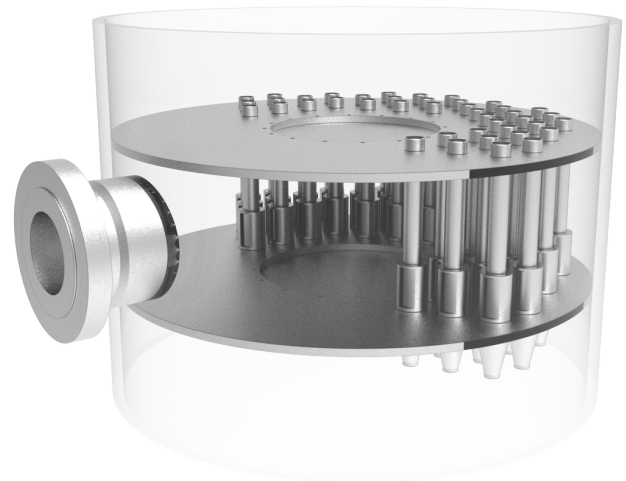
1. Contaminated gas enters the cyclone tube tangentially.
2. The tube housing forces the gas into a cyclonic flow pattern. Centrifugal force throws the solids and liquids against inner cyclone tube wall.
3. Solid and liquid particles drain down the cyclone tube walls and collect at the bottom.
4. Clean gas flows down and then up through the center annulus and exits at the top

Features

- 99% efficiency for removing particles of 8-10 μm
- Pressure drop typically more than knitted wire and vane pack
- Low maintenance
- Resistance to fouling service
- Compact design
- Constant pressure drop regardless of loading
- Sensitive to gas rate

Applications

- Gas/solid separation
- Scrubbers
- Pre-cleaning step before fine filtration systems
- Dust removal
- Distribution systems
- Slug catching
- Absorption processes
- Reciprocating compressor protection



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