

Mist Eliminator-Axial Cyclone

Product Coding
P210301XXX

Introduction

Cyclone separators utilize centrifugal force to separate solid or liquid particles from a gas stream. The gas enters from the top and follows a spiral path along the axis of the cyclone. This spinning motion generates a centrifugal field that drives the particles toward the outer walls. The separated particles are then collected and discharged from the bottom of the unit. The high speed axial cyclone provides a high degree of separation of fine droplets and dust even at high operating pressures. It can be positioned vertically or horizontally within a separator vessel. Horizontal Installations: For higher contaminant loadings, the cyclones are laid horizontally, and the elements are sealed at each end within a free draining box. A small amount of carrier gas is recirculated. Due to its high capacity, it is ideal for retrofitting into existing separators when higher throughputs are required with improved efficiency. In new build applications, these axial cyclones will result in significantly smaller vessels, thereby giving considerable weight savings and cost reductions, but require accurate design and are sensitive to the flow rate.

- Tolerates solids, motion, foaming, and fouling
- Excellent turndown in combination with a mesh precoalescer



Features

- Low maintenance
- High gas throughput capacity
- Suitable for liquid and solids removal
- 99% efficiency for removing particles of 6-8 μm
- Pressure drop typically 20-30 mbar (more than knitted wire and vane pack)
- Typically 2/3 of the size of a vane pack K.O. drum
- Typically 1/3 the size of a wire mesh K.O. drum
- Major savings in column weight and cost
- High performance at very high pressure

Applications

- Pressure boosting stations
- Scrubbers
- Gas transmission lines
- Cement plants
- Steel mills
- Metallurgical facilities
- Sawmills



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