Cyclone Collector Encyclopedia Article

Cyclone Collector

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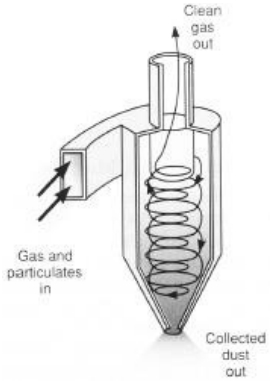
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Cyclone Collector

A device that removes solids from an **effluent** stream (solid/liquid or solid/gas) using gravitational settling. The input stream enters a vertical tapered cylinder tangentially and spiral fins or grooves cause the stream to swirl. The centrifugal force created by this swirling action causes particles to settle out of the input stream. These solids are concentrated at the walls and move to the bottom of the tapered cone. The solid-free fluid or gas is removed along the center line of the collector via a vortex finder. A **cyclone** collector is a compact device capable of processing large volumes of effluent; however, pressure energy is expended in its operation. It removes particles from the effluent stream less effectively than bag **filters** or **electrostatic precipitation**.



A cyclone collector. (McGraw-Hill Inc. Reproduced by permission.)

See Also

Baghouse