

Separate fine solid particles from dusty air with a uniflow cyclone

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Uniflow cyclones have unique characteristics and many advantages over reverse-flow cyclone separators. The uniflow cyclone has a compact design and low pressure drop, collects a smaller particle size than 5 micron of cut-size particles, and can be easily installed at any orientation in an existing line. Uniflow cyclones can be used in a number of areas in the oil and gas industry as such (a) Pre-collector for a HEPA filter installed in gas power station; (b) Separation of fine particles for high-pressure gas used in plant; (c) Pre-collector for air handling equipment (e.g. compressors, blowers) and Separate the catalyst particles (e.g. in fluid catalytic cracking) from the reacting gases and vapors. This article discusses the present development, unique characteristics and behavioural performance of uniflow cyclones, and offers recommendations for overcoming the challenges of commercial implementation.

Further more information on <https://www.hydrocarbonprocessing.com/magazine/2019/may-2019/process-optimization/separate-fine-solid-particles-from-dusty-air-with-a-uniflow-cyclone>