

# Kinpactor

The Kinpactor utilizes kinetic energy to accomplish dust collection through the principle of impaction. The contaminated gas stream is accelerated through a venturi shaped throat section reaching velocities between 9,000 and 24,000 feet per minute (100 to 280 miles per hour). Water introduced ahead of the throat is atomized by the high-velocity gas stream, and dust particles collide with and are captured in the small droplets.

The venturi shape of the Kinpactor provides the most efficient conversion of potential energy (static pressure) into kinetic energy (velocity), and then allows maximum regain, or reconversion of this high-velocity back to static pressure, as velocity diminishes in the diverging section. With its venturi shape, the Kinpactor provides the highest possible collection efficiency for a given power consumption, since the power expended is the most effectively utilized.

## Features

- Easily replaceable reflector plates are provided ahead of the throat section.
- Manual reamers can be provided for insurance against jet plugging due to solids in recirculated water.
- Other than the reamers, there are no moving parts in the standard Kinpactor.
- Fabrication options include mild steel, stainless steel and fiberglass reinforced polyester.



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