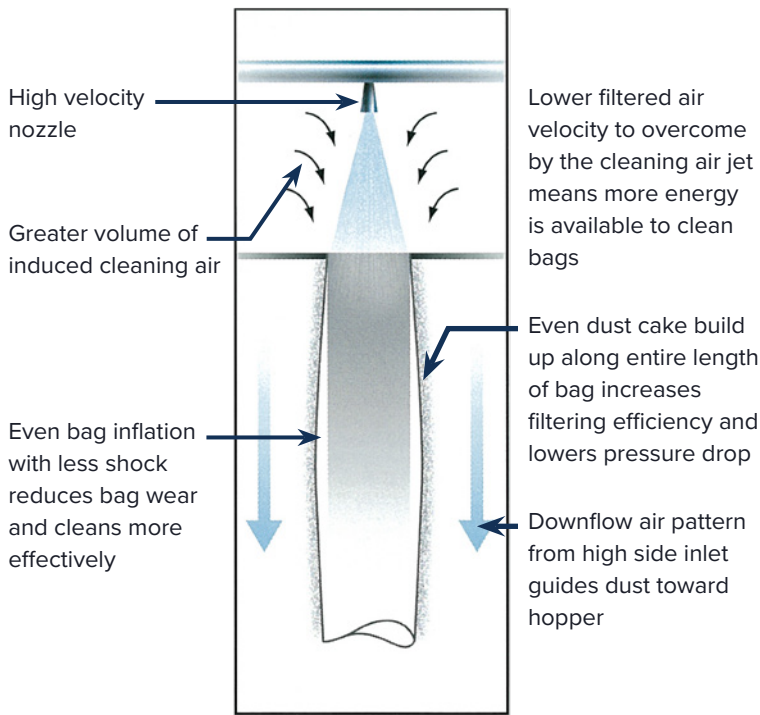


Better Cleaning Means Less Filter Area is Required

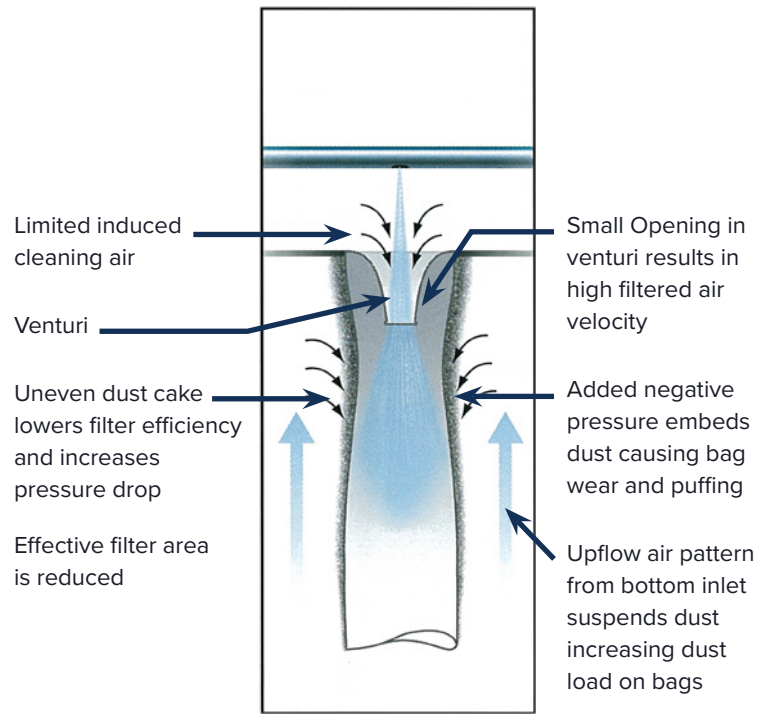
Scientific Dust Collector's patented cleaning system more effectively cleans the filter bags and promotes a more even dust cake along the entire length of the filter bag. As a result, significantly less cloth area is required compared to generic dust collectors using venturi-based cleaning systems that compensate for poor cleaning by adding more cloth area.

Scientific Dust Collectors Advanced Cleaning



- *Scientific Dust Collectors'* high velocity nozzle increases the speed and energy of the air jet pulse inducing a greater volume of cleaning air.
- Greater cleaning energy with less shock allows *Scientific Dust Collectors* to more effectively clean the filters. Less filter area is required because we clean it better.
- A more even dust cake build up along the entire length of the bag increases the filtering efficiency and reduces the filtered air pressure drop. This is true even with only half the cloth area required in venturi-based systems.

Venturi-Based Generic Cleaning



- Venturi-based systems start with a low velocity air jet located close to the bag opening. This limits the induction of cleaning air.
- Flow restricting venturis create a high filtered air velocity that must be overcome by the cleaning air jet, robbing it of energy to clean.
- A high negative pressure is created at the exit of the venturi causing fine dust particles to embed into the filter cloth. The strong shock produced by the cleaning air increases bag wear resulting in "puffing" as dust is sucked through the cloth.



SCIENTIFIC
DUST COLLECTORS

4101 W. 126th Street + Alsip, IL 60803 USA
ph 708-597-7090 + fx 708-597-0313

www.scientificdustcollectors.com
A Venturedyne Ltd. Company

BUL #297
03/2019

Collect the Facts... Discover the Difference

Look inside a Scientific Dust Collector, by scanning the QR Codes below, to see how reliable dust collection is achieved with less filter area.



Video of SDC Cleaning System



Improving the Cleaning Cycle Summary



Advantages of Cleaning w/o Venturi



Ineffective Cleaning in Generic Baghouses



New Nozzle Technology - Cleaning MORE with Less



ASHRAE 199 Test Standard



Combustible Dust & NFPA 652

What Better Cleaning Means For You

- *More reliable dust collection* from an improved cleaning system.
- *Space Savings.* Less filter area required means collector is more compact.
- *Higher filtering efficiencies* due to more even dust cake build-up and better cleaning.
- *Fan energy savings* from lower pressure drop. Flow-restricting venturis are eliminated.
- *Extended bag life* results from reduced abrasion and less shock during pulse cleaning.
- *Fewer bags, cages, valves, etc.* to maintain.

“Why settle for less when a better alternative is available. Buy the best.”



**SCIENTIFIC
DUST COLLECTORS**

4101 W. 126th Street + Alsip, IL 60803 USA
ph 708-597-7090 + fx 708-597-0313

www.scientificdustcollectors.com
A Venturedyne Ltd. Company

BUL #297
03/2019