

# Why is Scientific Dust Collectors' Baghouse Superior?

## Why use a high side inlet?

- Creates a downflow pattern leading the dust particles towards the hopper
- Lower can velocity than generic upward air flow systems that have the inlet in the bottom
- Provides a baffled drop out section that reduces loading on the bags

## Why use a supersonic cleaning nozzle?

- Our patented cleaning system is unique to SDC and replaces generic drilled blowpipe holes
- This allows SDC to eliminate the internal venturi at the top of the bag/cage
- Our heavy duty design has been proven in the field for over 33 years

## What is the advantage of no venturi?

- Much less pressure drop across the tube sheet. (4" flange to flange)
- No flow restriction at the top of the bags, allowing for three times the clean air to be induced
- Higher filtration efficiency due to a more even dust cake build-up

## Why larger bag spacing? [3" between bags]

- Reduces dust bridging or packing between bags
- No puffing of dust from bag to bag and row to row during cleaning cycle

## How does SDC save you Energy?

- Horsepower/electricity savings from 2" less static on the fan than all other venturi based baghouses
- Compressed Air savings (clean with 80psi vs. generic 100psi)

## How does SDC save you money?

- Longer filter life, guaranteed
- Less downtime for fewer bag changes
- Energy Savings on fan and compressed air
- Smaller Footprint
- Fewer replacement parts  
(less bags, cages, and valves)



Ashrae 199 Test Lab



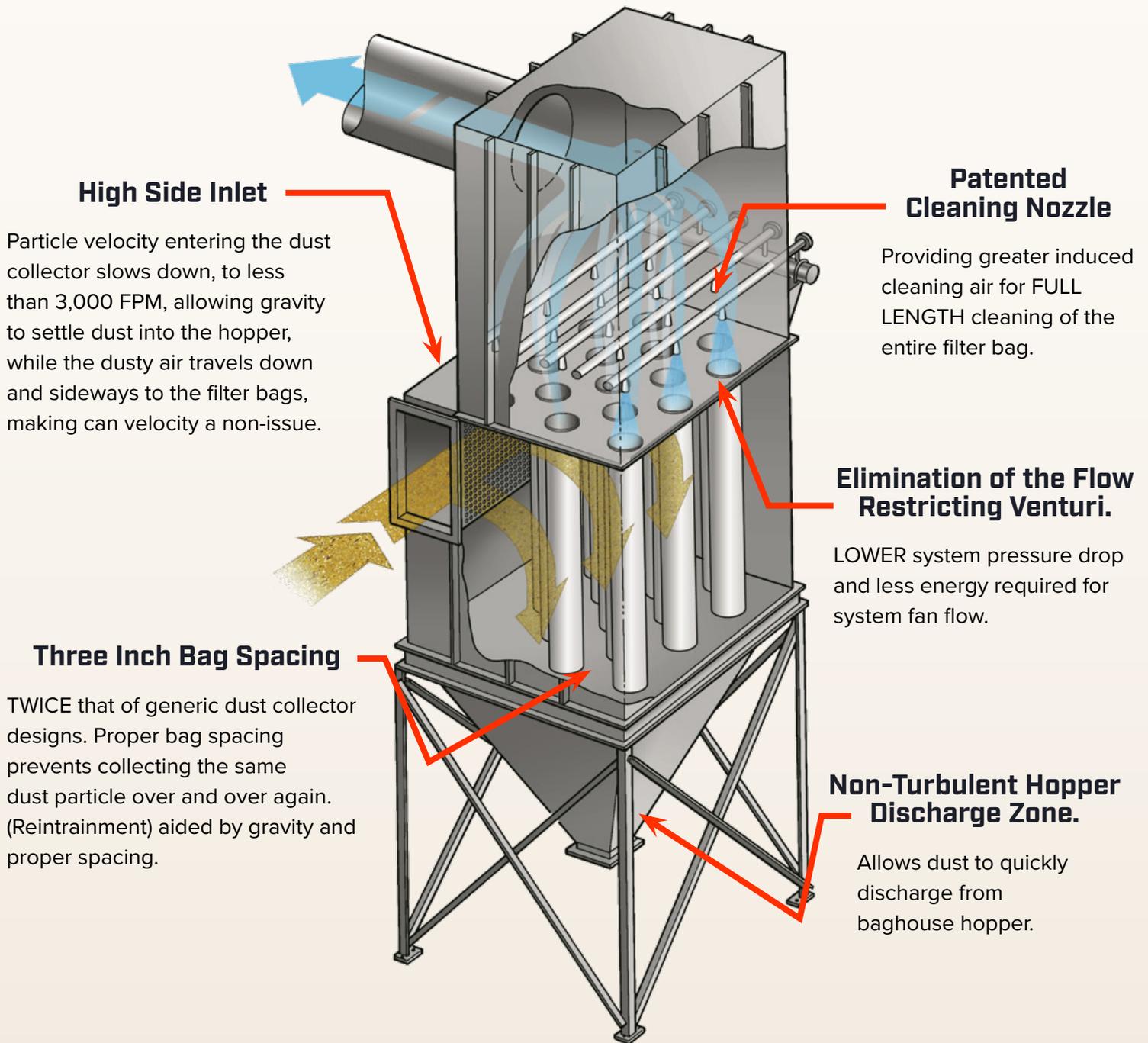
**SCIENTIFIC**  
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www.scientificdustcollectors.com  
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# Collect the Facts... Discover the Difference!



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



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