# 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



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## **Collect the Facts... Discover the Difference!**

### **High Side Inlet**

Particle velocity entering the dust collector slows down, to less than 3,000 FPM, allowing gravity to settle dust into the hopper, while the dusty air travels down and sideways to the filter bags, making can velocity a non-issue.

### Three Inch Bag Spacing

TWICE that of generic dust collector designs. Proper bag spacing prevents collecting the same dust particle over and over again. (Reintrainment) aided by gravity and proper spacing.

### Patented Cleaning Nozzle

Providing greater induced cleaning air for FULL LENGTH cleaning of the entire filter bag.

### Elimination of the Flow Restricting Venturi.

LOWER system pressure drop and less energy required for system fan flow.

### Non-Turbulent Hopper — Discharge Zone.

Allows dust to quickly discharge from baghouse hopper.

### "Why settle for less when a better alternative is available. Buy the best."



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