Case Study

BHA® PulsePleat®

US charcoal briquette producer eliminated short filter bag life and increased airflow to achieve higher production rates.

Challenge:

Fine charcoal particulate would lodge in the fabric interstices of the woven polyester filter bags in the Pneumafil™ baghouse used to vent charcoal production and bagging. This led to heavy dust buildup and high differential pressure within six months after bag installation. The plant also needed airflows beyond their current capability to increase production.

Solution:

Parker Hannifin recommended installing top-load BHA PulsePleat filter elements to provide significantly more filter surface area in the same physical space, reducing differential pressure. The spunbond polyester filter medium used in BHA PulsePleat filters provided a smooth surface and tight pore structure to provide better dustcake release and prevent particulate bleedthrough.

Results:

- Maintenance and filter replacement was reduced, resulting in significant savings.
- Differential pressure was reduced to less than half previous levels (from 5" w.c. to 2" w.c.). The resulting increase in airflow allowed for increased production without any collector modification or new equipment purchase.

BHA PulsePleat filter elements reduced maintenance and replacement cost by outlasting traditional filter bags.

The lowered differential pressure that resulted from increased surface area allowed greater airflows that were critical to raising production.

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