



FARR APC
Air Pollution Control

Case Study

Planting the Seed for Dependability

Product: Big Round Filter
Size: 90BRF-8 (Custom) Designed for 10,000 CFM
Application: Fugitive Dust from Corn Sheller and Cleaner
Customer: Golden Harvest Seeds - Waterloo, NE
Representative: W.D. Patterson Company

Challenge

Golden Harvest Seeds processes seed for corn on a seasonal basis. The cobbed corn goes through a dehusker, then shelling equipment to remove the corn from the cob. This creates a large quantity of dust in the process, including husks, "bee wings," silks, broken cobs and light, fluffy material. This customer had a MAC collector in place, but was displeased with its plugging issues and the complicated timing mechanism for the filter cleaning system.



Solution

Jerry Ruggle, our sales engineer at the W.D. Patterson Company diagnosed the problems, sized up the equipment and sold the FARR Big Round Filter (BRF) you see here. Jerry explains, "The keys to success were the right air-to-cloth ratio, can velocity, proper hopper design and large discharge airlock. The high entry inlet first helped to reduce the can velocity. A custom layout of the filter bags optimized it. A special tube sheet with 90 holes was designed and fabricated. The layout permitted more space between bags."

The customer is very pleased with the 2001 installation and has grown confident that the Farr collector will serve them well each year at harvest.

For further information regarding this application, contact Farr rep Jerry Ruggle of W.D. Patterson Company at 515-465-7786.

