



FARR APC
Air Pollution Control

Case Study

Seed Corn Processor Lends Ear to FARR

Product: Gold Series
Size: (2) GS20 & (1) GS12
Application: Fugitive Dust from Corn Seed Processing
Customer: Pioneer Hi-Bred International - Durant, IA
Representative: W.D. Patterson Company, Inc.

Challenge

Pioneer Hi-Bred International produces and markets a full line of top-quality seeds and grain additives. New sheller equipment was being added to their plant in Durant, IA and they wanted to replace the existing cyclone collectors for higher efficiency as well. Their shellers would remove the corn from the cobs after going through a dehusker. A variety of fugitive dust and particles from fluffy fines to broken cob pieces needed to be captured.



Solution

The engineering firm that Pioneer uses recommended Farr as the dust collector supplier. Our rep, Jerry Ruggle of W.D. Patterson Company, was called in for a visit. Jerry saw the two sheller lines as well as a variety of auxiliary equipment like conveyors and bins that would also need containment. He sized up and offered three Gold Series units - two GS20's to handle 10,600 CFM each on the sheller lines, plus a GS12 to handle 9,000 CFM for general "housekeeping" of the auxiliary equipment.



Despite competitive bids, Pioneer specified the Farr Gold Series units for their project. The units were installed in August 2003 with wide-pleat P_{TSW} cartridges and overbags. Rupture-type explosion vents provide safety for this potentially volatile application. Both of the larger GS units discharge through 20" airlocks into their own separate screw conveyors for removal. Unique, unitary base fans with inlet boxes are roof-mounted to save space and duct work. The smaller unit utilizes a standard, top-mount 25HP fan with silencer.

These Gold Series systems have been running great since installation. At this writing (August 2004), they have not needed filter change-out yet and the pressure drop is 2.0" w.c. on each filter!

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