

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

Challenge:

The customer processes seed for corn on a seasonal basis. The cobbled 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:

The Imperial Rep diagnosed the problems, sized up the equipment and sold the BRF. The Imperial Rep 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 installation and has grown confident that Imperial Dust Collectors will serve them well each year at harvest.

For further information regarding this application, contact Imperial Systems.