



FARR APC
Air Pollution Control

Case Study

Gold Series Hot Ticket for High Temps

Product: Gold Series
Size: GS72 Designed for 13,600 CFM
Application: Magnesium Oxide
Customer: Martin Marietta Magnesia Specialties - Manistee, MI
Salesmen: John Burke of Burke Sales & Engineering,
Lee Morgan and John Dauber of Farr APC



Another case where the GS Trailer helped close the sale!

Challenge

Martin Marietta's facility in Manistee, MI produces magnesium oxide as a fire retardant agent used in composite patio decking and shake shingles. Mixed as a wet slurry, the compound is run through a high-temperature spray dryer to evaporate all moisture and produce the powder. In May 2004, they installed an additional dryer to increase output capacity. They needed another self-cleaning, high-temperature filter media system that would effectively act as a product receiver. They were happy with the current performance of the huge Farr Tenkay that they purchased in 1996. It had been specially modified to handle the high temperatures that causes tube sheet warpage.



Solution

Farr sales rep John Burke of Burke Sales & Engineering rounded up John Dauber and Lee Morgan of Farr APC and drove to Manistee with a Gold Series demo trailer in tow. Martin Marietta, who would have been happy to buy another Tenkay, was completely "wowed" with the gauge and heaviness of the Gold Series' construction. Any fears of warping metal surfaces were eliminated. The GS construction style with modular design does not have long spans of sheet metal. With stiffeners running up and down the tube sheet, the Gold Series is much more stable, eliminating any potential warpage. With maximum temperatures reaching 375°F for this application, special cartridges were called for. A Gortex® heavyweight PTFE membrane over a Nomex® substrate media made up the 63 ft² cartridges capable of withstanding such extreme temperatures. A GS72 would provide the desired 3:1 air-to-cloth ratio for the 13,600 CFM. Silicon would be used for all gasketing material. Result: Martin Marietta gladly ordered the Gold Series system, which was started up in August 2004 and is running great. All of the dry magnesium oxide powder is collected through the unit and conveyed to storage silos.

For further information regarding this application, contact John Burke of Burke Sales and Engineering at 734-697-9230, Lee Morgan at 870-933-8048 or John Dauber at 402-791-5333.

