

CASE STUDY

SANDING OF RESIN, CALCIUM & STONE



SINK MANUFACTURER'S DUST PROBLEMS DOWN THE DRAIN

PRODUCT

Product	Farr Gold Series® Dust Collector
Model	GSB6 & GSB8
Application	Sanding of resin, calcium and stone
Customer	Sink Factory Inc. (SFI) - Sparta, WI

CHALLENGE

SFI is a manufacturer of cast polymer products. In 2004, they started their business in a facility that already had a baghouse dust collector in place. However, the volume of dust generated by the grinding and sanding of the cast sinks proved to be too great a challenge for the undersized collection system. Employees with protective masks worked in an environment of dust laden air and thick layers of settled particulate.

SOLUTION

Camfil APC sales rep Greg Schreier properly sized a six cartridge Farr Gold Series GSB6 with horizontal inlets to accommodate the massive dust loading. The unit was mounted outside and against one wall of the sanding/grinding room, drawing air through a large opening. SFI was quite pleased with the results.

When business and production increased for SFI, they decided to move to a larger facility in October 2005. They called Greg Schreier and asked him to engineer the dust filtration system for the new, expanded production area which consisted of a main room and two smaller “bump out” areas totaling 3,000 square feet. They took their Farr Gold Series GSB6 to the new facility (shown on the right) and Greg recommended an additional, larger Farr Gold Series GSB8 to install as well.



Gold Series
FARR

◀ Farr Gold Series GSB6



◀ SFI new facility with GSB6 installed

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Further, SFI had the idea to have the clean air from the Farr Gold Series® units to be ducted back 75 feet over and behind the sanders to increase the air exchange rate. Their intent for the Farr Gold Series units was two-fold: collect the dust from the grinding operations immediately in front of the modules, and clear the air of nuisance dust through recirculation. They connected the sanding tools directly to a separate vacuum system.

The installation was a success and the Farr Gold Series units are performing to high expectations, maintaining a clear environment for the 10 to 20 workers that are in the production area at any one time. SFI admitted consideration of competitive dust collection equipment, but was swayed to the Farr Gold Series by the vertical cartridge design because of the high dust loading, and by their success with their first Farr Gold Series. In fact, neither unit has needed replacement filters (over a year for the GSB8 and nearly two years for the GSB6), and the pressure drop has not yet exceeded 2" s.p. SFI continues to be pleased with the Farr Gold Series' performance and they often receive compliments from visitors on how clean their operation is (see below!).



▲ SFI new facility
with GSB8 installed

For further information regarding this application, contact Matt Caulfield of Camfil APC at 937-773-0866.

