



**FARR APC**  
*Air Pollution Control*

Case Study

## Gold Series Shines in Furniture Maker's Finish

**Product:** Gold Series  
**Size:** GS48 Designed for 22,210 CFM  
**Application:** Wood Finish Sanding  
**Customer:** New England Wood Craft - Forest Dale, VT  
**Representative:** Ventilation Control Products



### Challenge

New England Woodcraft has been in the custom contract furniture manufacturing business since 1963 and has furnished a number of universities, colleges and military bases all over the world. In 2001, they added new sander/sealer equipment to their operation and needed a dust collection system to capture the sealer finish fines. The job went out for bid and Farr competition included Torit and others.

### Solution

Farr sales rep Brian Flynn of Ventilation Control Products visited the operation and analyzed the application surrounding two sanding machines. Some wood dust would have to be captured, but most of the dust to be collected would be extreme fines from the finish sanding of the dry sealer compound. Brian wisely collected and sent a dust sample to the Farr lab for analysis. Based on Farr lab results and recommendations, a GS48 was selected for a calculated air volume of 22,210 CFM at a 2.3:1 air-to-cloth ratio. Spun-bond Dura-Pleat DPS200 filter cartridges would handle any potentially sticky dust should sealer mix variations occur. Essentially treated as a plastic dust, the explosion venting option was chosen for safety on this application that could be prone to building a static charge. Brian submitted the bid, selling the unique features and benefits of the Farr Gold Series. We were awarded the project and the system went on-line in November 2001. New England Woodcraft is very pleased with the performance of their GS unit, especially with the fact that the original filters have not needed replacing for 3 years now!

As an interesting side note, final installation included a quick-acting abort damper, which was wired to a spark detector and suppression system. The abort damper would instantly stop the recirculated air from re-entering the building should a fire or explosion occur in the system.

Finally, submitting a dust sample to the Farr laboratory is a good idea for questionable applications or dusts with unusual properties. Farr will provide a free analysis and report using state-of-the-art equipment. Just be sure that the submitted dust sample is representative of what the dust collector will be challenged with.



*For further information regarding this application, contact Farr rep Brian Flynn of Ventilation Control Products at 603-786-2660.*