W. L. GORE & ASSOCIATES, INC. ELECTRONIC PRODUCTS FACILITY LANDENBERG, PA

KEY PARAMETERS

- Type of Facility – High Value Electronic Products Manufacturing Facility
- Function – Improve Manufacturing Environment
- Area – 300,000 square feet
- Project Completed – August, 2012

Challenge: IAQ

Unacceptable levels of airborne particulates from nearby agricultural operations were found to be present in outdoor makeup air brought in to replace significant amounts of air vented from exhaust hoods used in the manufacturing process.

In addition, Gore had concerns about the frequency of filter change-outs necessary to maintain the desired level of indoor air quality.


W. L. Gore & Associates, well known for its GORE-TEX® fabric, focuses its efforts in four main areas: electronics, fabrics, industrial and medical products. The Electronic Products Division (EPD) incorporates the unique properties of ePTFE (expanded polytetrafluoroethylene) to develop and manufacture cables and assemblies that provide electrical and mechanical integrity in demanding environments such as semiconductor manu-facturing and aerospace applications.
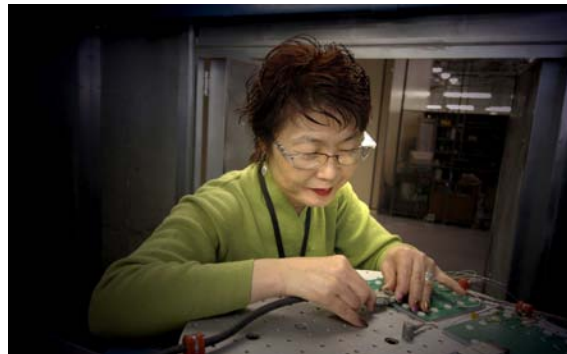
Solution: Eight (8) Dynamic V8 Air Cleaning Systems and forty-four (44) Dynamic Versacomb™ activated carbon matrix panels were installed in a large custom air handling unit to filter incoming outdoor air and recirculated indoor air.

Results: Post-installation continuous air testing indicates a significant improvement in the level of contaminants. In addition, the filter service life is expected to exceed two (2) years which eliminated the concerns about frequency of filter change-outs.
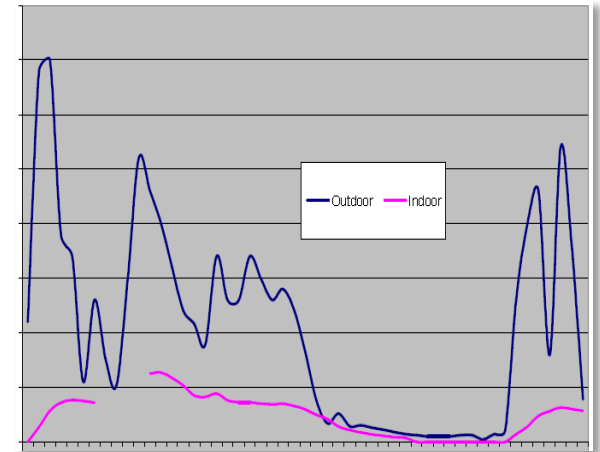
Graph shows post-installation gas phase contaminants from incoming outdoor air (blue line) and recirculated indoor air (pink line) measured over a 5-hour period

TEAM

- Engineering – Dynamic Air Quality Solutions
- Project Mgmt – Seiberlich Energy Services
- Facility Mgmt -- In-house Facilities Team

MECHANICAL SYSTEMS

- HVAC – Custom Air Handling Units

www.DynamicAQS.com