

PORTAFAB

CASE STUDY

Cleanroom Improves Quality and Product Yield

Customer: Pioneer Electronics

Location: Springboro, Ohio

Application: 2,000 Feet of Cleanroom Walls

Product: OmniFlex 300 Plus

Benefits Provided:

- Improved product quality with greater environmental control.
- Enclosed processes to maximize product yield.



THE SITUATION

Pioneer Electronics is a leading manufacturer of stereo products for the car, home and business markets, with high profile clients around the world including Lexus and Toyota.

Due to the environmental conditions within their manufacturing facility, dust and other airborne particles were a cause for concern as even the smallest particle could land on a circuit board and compromise the quality of their product. Based on the desire to maximize throughput and protect their manufacturing processes, our client discussed the need for greater environmental control with one of PortaFab's distributors.

THE EVALUATION

During the evaluation process, our distributor discussed the variety of products available through PortaFab that could provide a custom solution with the required level of environmental control. Due to our assortment of modular wall systems, panels and interchangeable components, our client determined that PortaFab had the unique ability to effectively meet their goals and budget.

■ *"Unlike other cleanroom suppliers that have very limited systems and a couple of wall panels options, we have multiple systems and wall panels in both our cleanroom and inplant office lines that can be used for creating controlled environments." Wayne McGee, President - PortaFab*

THE SOLUTION

Based on Pioneer's needs, PortaFab supplied the electronics company with our OmniFlex 300 Plus, steel stud modular wall system. Featuring load-bearing roofs and 18-foot high walls without the cost of support columns, the OmniFlex 300 Plus offers a high quality and low-cost solution, making it our most popular wall system. While this system is not necessarily designed for cleanroom applications, it was the perfect fit for this project since there was no requirement to meet a particular classification.

Featuring all-white steel wall panels, the OmniFlex 300 system provided the optimal environmental control that was essential to Pioneer's needs. The flow of particulate in the air was controlled utilizing high-efficiency particulate air (HEPA) filters and the wall system provided excellent thermal insulation and sound deadening properties, increasing the efficiency of sound-performance tests throughout the plant.

By improving the environmental conditions within their manufacturing facility by using modular systems from PortaFab, this client later reported an improved product yield and increased ROI.

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