

PORTAFAB

CASE STUDY

E-Liquid Manufacturing Cleanroom

Location: Grand Rapids, MI

Application: E-Liquid Manufacturing Cleanroom

Product: OmniFlex 300 Two-Story Building

Benefits Provided:

- Provided a clean environment that met ISO 6 (Class 1,000) classification
- Fast and low mess installation allowed client to maintain manufacturing progress, uninterrupted during the new construction project.
- Flexibility to expand or even re-locate the building due to future growth or changes in business needs.



THE SITUATION

Due to recent company growth and in light of pending regulations by the FDA governing e-cigarette and e-liquid manufacturing, our client wished to improve upon their manufacturing standards by complying with current GMPs as well as the anticipated FDA regulations.

Though this client already possessed a stick built cleanroom within their facility, the company had been experiencing tremendous growth and needed a larger clean environment to house their expanding e-liquid manufacturing processes. This client was already familiar with modular construction due to an existing PortaFab office within their facility. Based on the flexibility for expansion and speed at which modular structures could be installed and modified, they contacted PortaFab to discuss a potential solution.

"I cannot state enough how awesome the distributor was and how their expertise is the only reason why the project was successful."
-The Client

THE SOLUTION

Our distributor took the time to meet with their client over several weeks to discuss a wide range of solutions while also evaluating their client's needs, which included the desire to be up and running quickly after installation. Our client also appreciated the flexibility inherent in utilizing modular systems as they were experiencing recent growth and may need to expand their facility again in the near future.

In addition, being a growing company in a leased space, our client appreciated the tax benefits and the ability to completely re-locate the new cleanroom into another facility if future needs changed. All of these benefits resulted in the client accepting our distributor's proposed design and signing off on the cleanroom installation.

THE RESULT

There were a few challenges that our distributor faced head on during this project due to the particular layout of the existing facility. Due to its L-shaped design, our distributor needed the new cleanroom to fit within a designated space, while meeting height restrictions and connecting it to the existing 2-story building. Our distributor accomplished this by coordinating the installation of a mezzanine to integrate the two buildings together while accommodating the extra space between them.

Due to the cleanliness and speed of modular construction, our client was able to continue their manufacturing processes uninterrupted within the existing cleanroom while our distributor coordinated and completed the installation of the new cleanroom outside.

The completed installation resulted in a two-story building that housed laboratory space on the first floor and new office space on the 2nd floor. The cleanroom on the first floor was designed to meet ISO 6 (Class 1,000) classification and included a gowning room and pass through chambers to enhance operational efficiency.

Overall, the client was very pleased with the result, remarking "I cannot state enough how awesome the distributor was and how their expertise is the only reason why the project was successful." The final building was completed within one month of signoff, falling inside of the client's requested time frame.

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