

Ultra-clean. Ultra-fast. **UltraPure.**

Modular Devices has been selected to supply custom, prefabricated, ISO 4 cleanroom for Chemtrade's UltraPure Sulfuric Acid facility-expansion in Cairo, Ohio

UltraPure Sulphuric Acid, critical to the semiconductor industry, is manufactured through an exacting process that requires extraordinary levels of purity (hence, the 'Ultra'). For important stages of the production process, the acid lab must be housed in an ISO Level 4 cleanroom to avoid atmospheric contamination of the product.

Utilizing exceptional cleanroom technology, Modular Devices is creating the prefabricated cleanroom in our Indianapolis manufacturing facility. To be delivered in three sections that will then be connected on-site, the new high-purity acid lab can be installed and operational in less than a day.



Rendering of proposed clean lab space and adjacent mechanical room.



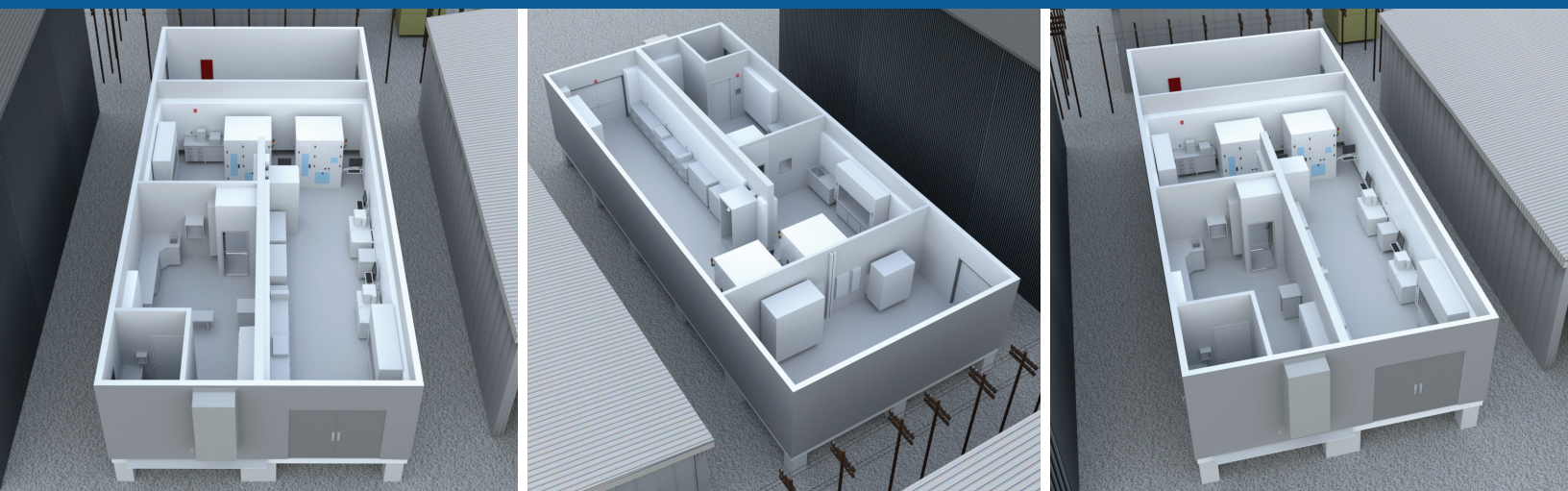
The precision ISO 4 trace metals cleanroom being prefabricated in Modular Devices facility.

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The confidence Chemtrade has placed in Modular Devices to deliver their trace-metals laboratory for the Cairo, Ohio facility, speaks volumes about our team and in-house capabilities.

Chris Patterson,
Modular Devices Vice President, Cleanrooms

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Looking to increase production capabilities in their Cairo, Ohio UltraPure Sulfuric Acid facility, an advanced cleanroom system was needed for the highly-sensitive process.

The new Modular Devices prefabricated, trace metals, ISO 4 cleanroom features:

- Three sections to be connected on-site to form the complete cleanroom complex.
- Two units will create the ISO Class 4 clean area.
- One unit will house the mechanical systems.
- The prefabricated design supports a simple installation and can be operational within a day of delivery.
- The Ultra-low Penetration Air (ULPA) filtration system covers 60% of the clean areas' ceiling.
- ULPA filtration removes 99.999% of airborne particles down to 0.12 microns.
- The cleanroom areas are subject to more than 300 air changes per hour – or five per minute!
- The pre-engineered cleanroom will be delivered to exacting standards in a fraction of the time of a traditional design-build project.

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The trace-metals lab allows us to showcase our design/build skills in the construction of a unique cleanroom designed to be operational the day it arrives on site, extending Chemtrade's capabilities overnight.

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Greg Mink,
Modular Devices CEO

THE NEW CLEANROOM PROJECT IS ON A FAST TRACK AND IS EXPECTED TO 'GO LIVE' IN SEPTEMBER 2023.

For more information on Modular Devices and cleanroom technology, please contact:

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