



Design a Process Requiring an “Ideal Vacuum Modular High Vacuum Chamber”

Judging Criteria for Design Submissions

As you design your high vacuum process, experiment, or other laboratory scenario in which having an Ideal Vacuum Products modular vacuum chamber would be critical please keep in mind that we'll be looking at the following information:

Project Description

- **Design Title-** Title of experiment, process, or study.
- **Design Description-** Brief (about 500 words) description of how a modular vacuum chamber system would be implemented in the work. If your proposed design is part of a broader study, or process, please include how it fits into the overall scope.
- **Application-** Applicability of vacuum chamber modularity to the work. Describe some unique capability of the IVP modular design not found with conventional chambers.
- **Broader Impacts-** A modular chamber may solve a simple problem that would otherwise require a complex workaround if using a conventional chamber. Or it could streamline an experimental procedure or production process. Describe where you see modular vacuum chamber systems providing broader benefits to your group's work.

Detailed Specifics

- Specifically detail how having these IVP interchangeable vacuum chamber walls will affect the work. As an example, might the integrated threaded breadboard on the interior side provide a specific benefit?
- List the plates and hardware that would be needed and what components would be mated. Feel free to list any items found on the IVP website, catalogs, or anywhere else on the web.
- Provide a CAD model or other drawing or photos of your set-up.

If You Win

- Describe how you or your group would implement any one of the prizes, detailing a timeline.