

# Du Fresne Manufacturing

## Design Assistance Case Study

### Customer Challenge

- To update an existing Solidworks design for a commercial air evacuation (vacuum) system and provide an aesthetic, cost effective, manufacturable housing and vacuum (pressure) tank.
- Small foot print/form factor
- Develop process to manufacture an air tight pressure vessel capable of handling 95% complete vacuum
- Stable during operation
- 7+ year life cycle

### Customer Proof of Concept



### Background

- Existing design was functional
- Tank cost was high
- Design was too industrial
- Large form factor

### Du Fresne Design

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- Small form factor
- Durable powder paint finish
- Below initial cost target
- Custom packaging for UPS

