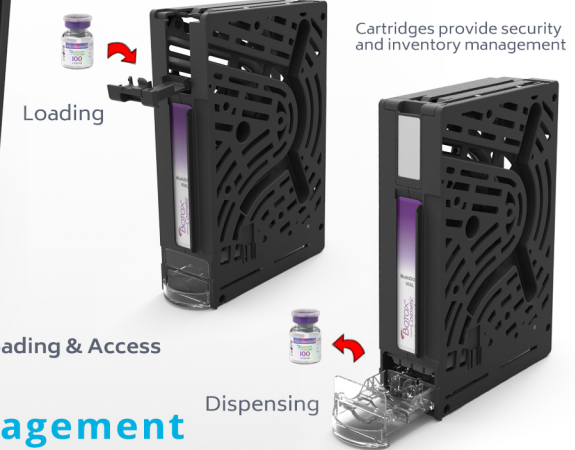


“Helix provided our team with great solutions from concept to production, leveraging their rapid prototyping capabilities to quickly test complex mechanical assemblies.”

**Tony Torano**  
Chief Executive Officer  
Minibar Systems



**MINIBAR<sup>Rx</sup>**  
TM  
[www.minibarrx.com](http://www.minibarrx.com)



Loading

Cartridges provide security and inventory management

Vaccine Loading & Access

Dispensing

## Innovative dispensing and management

MINIBAR<sup>Rx</sup> V3



MINIBAR<sup>Rx</sup>™  
www.minibarrx.com



### PROJECT OBJECTIVES:

- Design and develop aesthetic and mechanical solutions for dispensing vaccines and supported products
- Work closely with multiple teams to create a reliable, secure system for securing, tracking and dispensing vaccine
- Provide multiple options for expandable configurations that support new sizes and products as needed

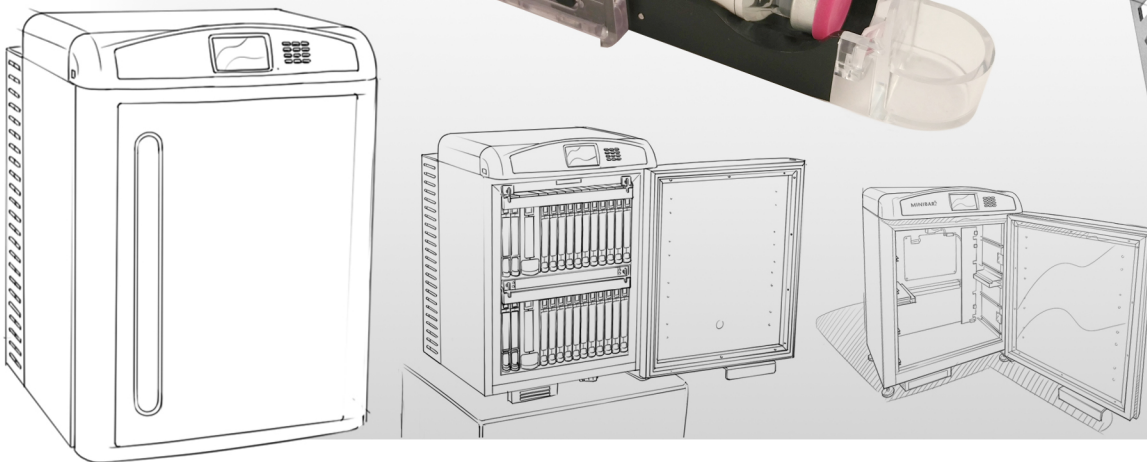


### PRODUCT SOLUTIONS:

- Secure, durable cold cube system providing medical-grade cross-cartridge cooling
- Intuitive cartridge designs with pull tray access that sense loading and dispensing vials, with integrated safeguards
- Modular system supports a variety of cartridge types and size requirements
- Secure user interface with networked support and management



**Concept Development**



**Mechanical Development**

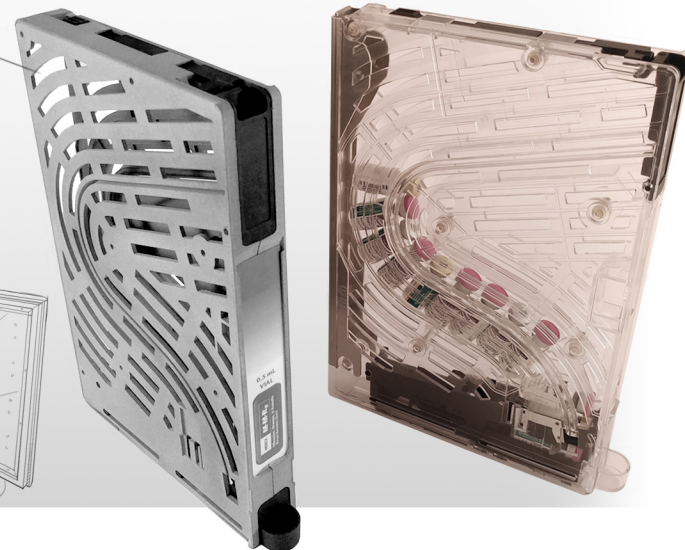
Clear prototypes used to analyze vial flow and refine loading and dispensing functions

Cartridge ventilation design for optimum cool air flow

**Prototypes**



Refined loading and vial flow for a variety of types and sizes



**HELIX'S APPROACH:**

- Develop integrated design with OTS cold cube design
- Mechanical engineering development for vial management
- Test a variety of cartridge approaches with rapid prototypes
- Design and test sheet metal chassis to receive multiple cartridges
- Work closely with Minibar and multiple vendors to deliver functional systems
- Review user testing and field trials to refine design and deliver production solutions

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