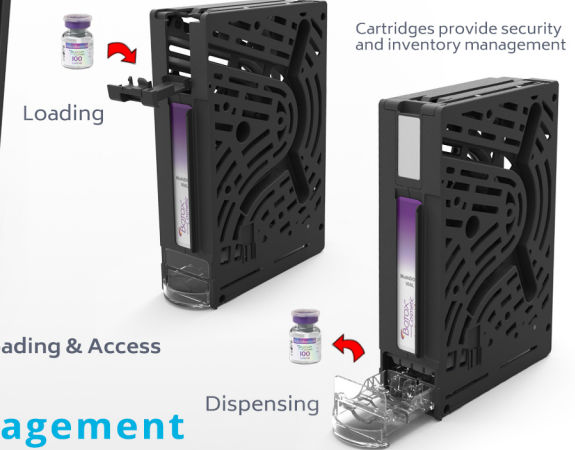


“Helix provided our team with great solutions from concept to production, leveraging their rapid prototyping capabilities to quickly test complex mechanical assemblies.”

Tony Torano
Chief Executive Officer
Minibar Systems



MINIBAR^{Rx}
TM
www.minibarrx.com



Loading

Vaccine Loading & Access

Dispensing

Cartridges provide security and inventory management

Innovative dispensing and management

MINIBAR^{Rx} V3



MINIBAR^{Rx}™
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PROJECT OBJECTIVES:

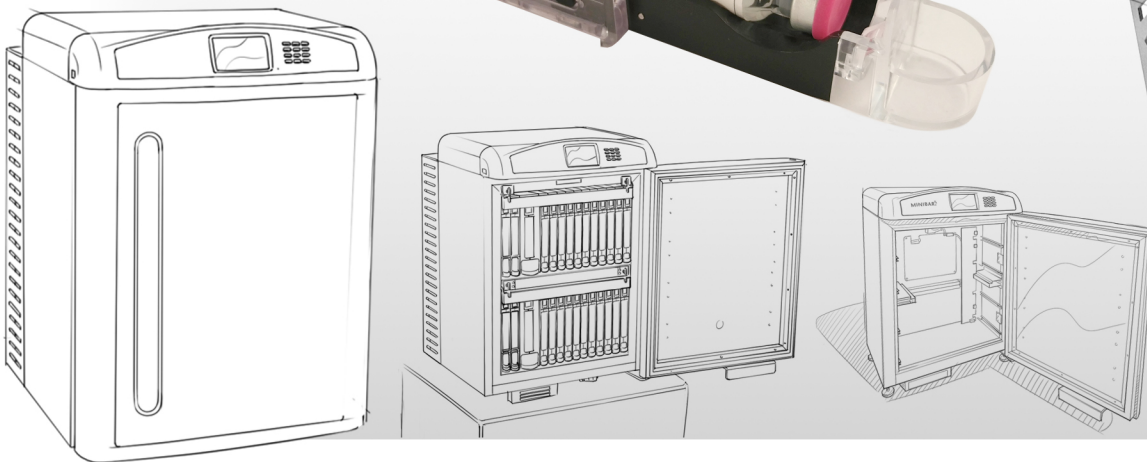
- Design and develop aesthetic and mechanical solutions for dispensing vaccines and supported products
- Work closely with multiple teams to create a reliable, secure system for securing, tracking and dispensing vaccine
- Provide multiple options for expandable configurations that support new sizes and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

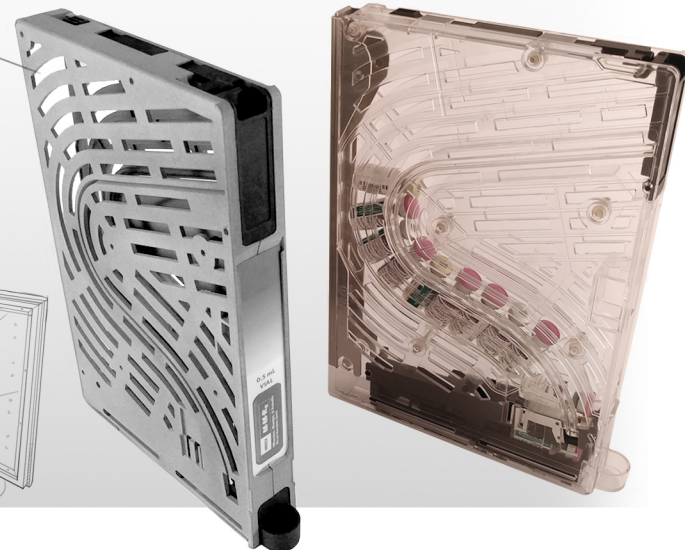
Clear prototypes used to analyze vial flow and refine loading and dispensing functions

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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