



Custom Multi-Zone -70°C Freezer Room for Pharmaceutical Storage

A leading manufacturer of health care solutions approached CSZ with a unique need to store valuable bottles of pharmaceutical fluid at a steady state of -70°C . Thus, the customer was looking for a reliable multi-compartment solution as opposed to purchasing several small upright freezers in order to save on floor space, operating and maintenance costs.

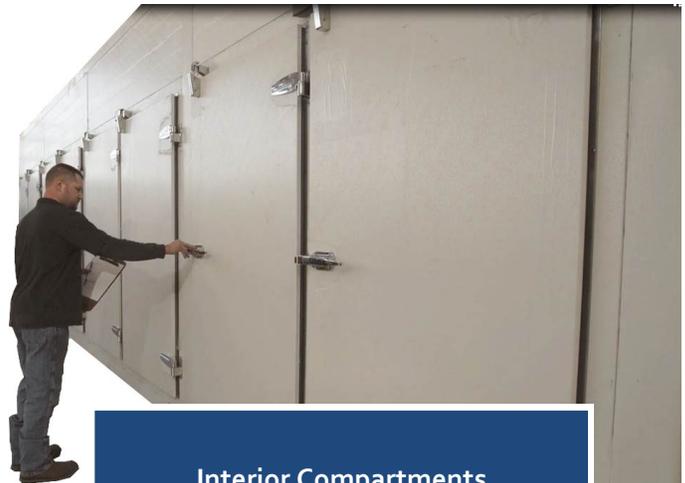
The CSZ sales and engineering team designed a BioStore Freezer Room for the customer that consisted of four (4) freezer zones, each with two doors for access, allowing for storage of 288 bottles of product. This solution won the job over our competitors because of CSZ's willingness to customize the system to meet the customers requirements.

The individual compartments were conditioned using coils with wide fin spacing to minimize frost accumulation. Convection cooling was also utilized in order to maintain a temperature of -70°C with a uniformity of $\pm 10^{\circ}\text{C}$.



Exterior Control System

- Chamber Features:
 - White Embossed Exterior
 - Stainless Steel Interior
 - Interior Corridor Lighting
 - Redundant Refrigeration System for Backup
 - Multi-Zone Temperature Control
 - EZT-570i Touch Screen Controller
- Chamber Dimensions:
 - Exterior: 32' 6" L x 17' 4" W x 10' 6" H
 - Freezer Compartments: 7' 6" L x 4' 3" W x 9' 6" H



Interior Compartments

