Environmental Specialties
An EMCOR Company

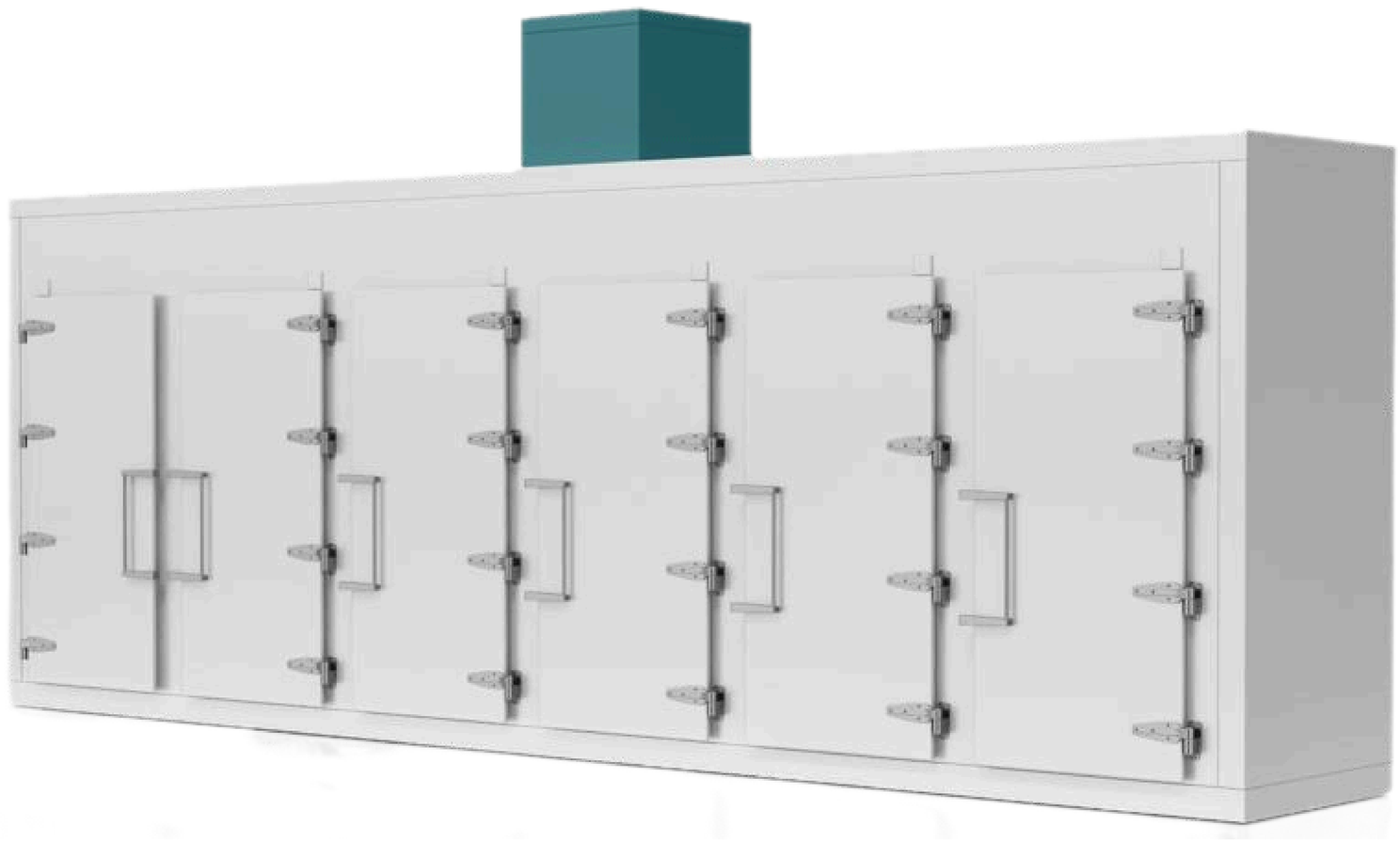
ES Herdman ULT

High-Capacity Ultra-Low Temperature Storage System

More Storage. Less Maintenance.

The ES Herdman ULT provides the same high-capacity ultra-low temperature storage as our traditional suites, delivering dependable product protection now in a flexible standalone design that can be installed within existing freezer room environments.

Engineered with fully redundant refrigeration, natural draft airflow, advanced controls, and OverShield® by Predictive Monitor®, it combines reliable temperature performance, simplified facility integration, and no moving parts, significantly reducing the cost of ownership.



-40°C to -70°C TEMPERATURE RANGE

1003 ft³ TOTAL CAPACITY

6 DOORS

REDUNDANT COOLING

ALLEN-BRADLEY COMPACTLOGIX CONTROLS

WHY ES HERDMAN ULT?

HIGH-CAPACITY BULK STORAGE
Large volume design maximizes storage density and operational efficiency.

MODULAR EXPANSION CAPABILITY
Add capacity as your facility grows without disrupting operations.

REDUNDANT REFRIGERATION SYSTEMS
A & B systems provide enhanced protection for critical inventory.

LOW FROST OPERATION
Minimizes frost buildup and preserves storage usability.

DRAFT COOLING
Convective airflow delivers consistent temperatures with proven reliability.

ADVANCED CONTROLS
Allen-Bradley CompactLogix platform for reliability, security, and scalability.

SERVICE-FRIENDLY DESIGN
Critical components are accessible outside of the storage environment.

BUILT FOR FINISHED PRODUCT STORAGE
Engineered for bulk storage of finished products and raw materials.

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919-829-9300

eschambers.com

PRODUCT SPECIFICATIONS

Temperature Range (Standard)	-40°C to -70°C
Temperature Uniformity	±4°C
Refrigerants (High and Low Stage)	R-744 (CO2) & R-508B
Cooling / Airflow Method	Convective / Natural Draft
Redundancy (Mechanical)	100% - A/Primary & B/Backup
OD (W x D x H)	30’-6” x 5’-3” x 11’
ID (W x D x H)	29’-6” x 4’-3” x 10’
Storage Capacity (Total)	1003 ft^3
Door Quantity	6
Weight (Total)	6,500 lbs
Ambient Conditions	≤-20C, <5% RH
Electrical Utilities Required (Per System)	460 V / 3 PH / 60 A
Dry Air Cooled Utility (Optional)	23 CFM @ -120°F dewpoint min.
Cooling Water Required (Per System); Air-cooled optional	9 GPM @ 45°F
Controls & User Interface	Allen-Bradley CompactLogix, PLC & 10” Touchscreen
Predictive Analytics & Diagnostics	OverShield by Predictive Monitor

ES HERDMAN ULT KEY FEATURES

- **High-Capacity Bulk Storage Platform**
- **Convective Draft Technology**
- **100% Refrigeration Redundancy**
- **No Forced Air through Fans**
- **24/7 Visibility with OverShield by Predictive Monitor**
- **Low Heat of Rejection**
- **Frost-free Operation**
- **Service Components**
- **Factory Built & Tested**

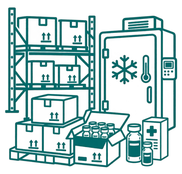
BUILT FOR CRITICAL APPLICATIONS



Biobanking



Pharmaceutical Manufacturing



Finished Product Storage



Clinical Distribution



Cell & Gene Therapy

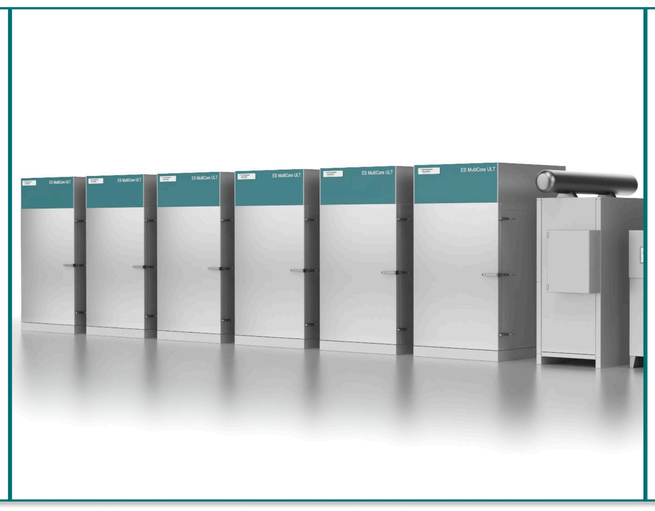


Bulk Material Storage

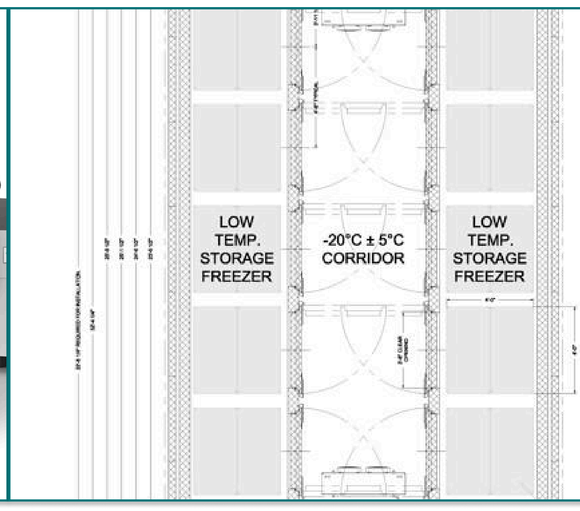
ULT PRODUCT FAMILY



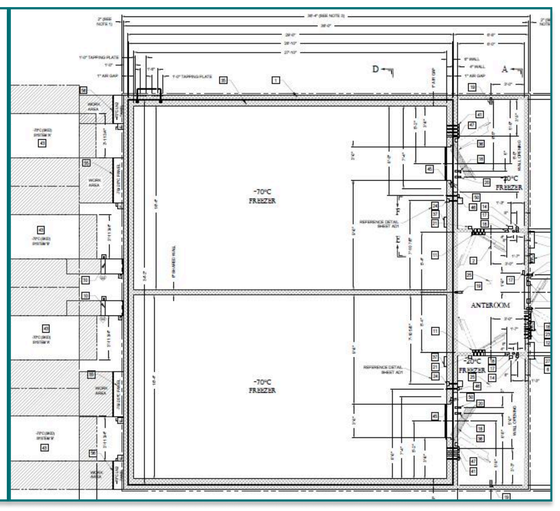
ES POWERCORE ULT



ES MULTICORE ULT



ULTRA-LOW SUITES



-70°C/-80°C OPEN ROOM

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