







**ELEVATION VIEW** 



Environmental Specialties An EMCOR Company

REVISIONS					
REV	DATE	BY	APP	DESCRIPTION OF REVISION	
00	14 FEB 22	GH		DRAWING CREATED	

NOTES OVERVIEW -40°C TO -80°C ± 5.0°C VOL. UNIFORMITY -20°C ± 5.0°C VOL. UNIFORMITY UNCONDITIONED ANTEROOM PRODUCT AT TEMPERATURE WHEN LOADED PRODUCT: INTO FREEZER. NO PRODUCT LOAD 106 FT2 PER SIDE 212 FT2 TOTAL 848 FT3 PER SIDE, 1,696 FT3 TOTAL AT 8'-0" STORAGE: (HEIGHT) OF STORAGE CONDENSERS: WATER-COOLED -20°C = 15 SECONDS DOOR OPENING: L.T. FREEZER = 30 SECOND DOOR RECOVER TIME: -20°C = 3 MINUTES (OPEN TO ANTEROOM) L.T. FREEZER = 3 MIN. (OPEN TO -20°C) **ARCHITECTURAL** INTERIOR/EXTERIOR = EMBOSSED GALVANIZED STEEL PRE-PAINTED WHITE 3'-0" WIDE X 7'-6" TALL (ANTEROOM) 3'-0" WIDE X 7'-6" TALL (-20°C CORRIDOR) 3'-6" WIDE X 8'-0" TALL (LOW TEMP STORAGE

OUTSIDE CHAMBER ONLY (4" PANELS) FLOOR RATING: 600 LBS/SQ.FT. CEILING RATING: 15 LBS/SQ.FT. (5 LBS/SQ.FT. DEAD LOAD/ 10 LBS/SQ.FT. LIVE LOAD) **MECHANICAL** 

**REFRIGERATION:** REDUNDANT MECHANICAL REFRIGERATION SYSTEM FOR -20°C AND LOW TEMP. FREEZER CHAMBERS. MAX. DISTANCE FROM SKID TO CHAMBER NOT TO EXCEED 50' HORIZ./50' VERTICAL

ELECTRICAL ALLEN-BRADLEY COMPACTLOGIX PLC (NON CONTROLS:

-REDUNDANT) CONTROL PANELS: NEMA 4/12 (GRAY) LIGHTING: LED LIGHTING

PERSON-IN-BOX: TIMED OCCUPANCY ALARM OF CORRIDOR PERSONNEL ALARM: EMERGENCY PUSH-BUTTON LOCATED IN THE CORRIDOR AT THE DOOR LOCATION 16" A.F.F.

PANEL FINISH: 304 STAINLESS STEEL INTERIOR OR **CEILING RATING** OPTION TO NOT INCLUDE FM 4880: CUSTOMER TO SPECIFY NUMBER OF TIERS 8

TERTIARY BACKUP INCLUDES OXYGEN MONITOR INSIDE THE CORRIDOR AND AT THE CONTROL PANEL: NEMA 4X

UPS BACKUP: CONTROLS ONLY (20 MINUTE) EMERGENCY LIGHTING:

## ALARM CONTACTS - FORM-C (N.C./N.0.) CONNECTION BY OTHERS

-20°C CORRIDOR HIGH TEMPERATURE DEVIATION

 LOW TEMPERATURE DEVIATION HIGH TEMPERATURE LIMIT LOW TEMPERATURE LIMIT

 DOOR AJAR EVAPORATOR FAN FAILURE (SYSTEM '1') EVAPORATOR FAN FAILURE (SYSTEM '2')

 CONDENSER FAILURE (SYSTEM '1') CONDENSER FAILURE (SYSTEM '2')
PERSONNEL/PERSON-IN-BOX ALARM

 HIGH TEMPERATURE DEVIATION LOW TEMPERATURE DEVIATION

 HIGH TEMPERATURE LIMIT LOW TEMPERATURE LIMIT DOOR AJAR CONDENSER FAILURE (SYSTEM '1')

 CONDENSER FAILURE (SYSTEM '2') O2 ALARM LN2 EMERGENCY VALVE CLOSED

LN2 ACTIVE

LN2 OFFLINE 1. THE MAXIMUM DESIGN NOISE LEVEL OF THE EQUIPMENT MAY EXCEED 80 DBA, MEASURED AT 3'-0" AWAY.

2. REFRIGERANT RELIEF PIPING IF REQUIRED IS BY OTHERS. 3. CONDENSATE DRAIN CONNECTION TO BE WITHIN 10' OF THE

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THIS DRAWING IS TO BE USED IN CONJUNCTION WITH PROJECT SUBMITTAL TEXT FOR COMPLETE CHAMBER DETAILS

BAHNSON ENVIRONMENTAL SPEC

4412 TRYON RD. RALEIGH, NC 27606

SCALE: 3/8" = 1'-0" STANDARD MODEL

10 DOOR ULTRA-LOW

14 FEB 22 BAHN - 10D 00