



Bahnson

Environmental Specialties An EMCOR Company

REVISIONS DESCRIPTION OF REVISION

NOTES OVERVIEW

-40°C TO -80°C ± 5.0°C VOL. UNIFORMITY -20°C ± 5.0°C VOL. UNIFORMITY UNCONDITIONED ANTEROOM PRODUCT: PRODUCT AT TEMPERATURE WHEN LOADED INTO FREEZER. NO PRODUCT LOAD

ASSUMED 85 FT2 PER SIDE 170 FT2 TOTAL 680 FT3 PER SIDE, 1,360 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

CONTROLS: ALLEN-BRADLEY COMPACTLOGIX PLC (NON -REDUNDANT) CONTROL PANELS: NEMA 4/12 (GRAY)

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** CUSTOMER TO SPECIFY NUMBER OF TIERS 8

TERTIARY BACKUP INCLUDES OXYGEN MONITOR INSIDE THE CORRIDOR AND AT THE

LN2 VALVE RACK. 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

 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

LOW TEMP. FREEZER 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

8 DOOR ULTRA-LOW

14 FEB 22 BAHN - 08D 00