



Environmental Specialties

DEL/IOIONO				
REV	DATE	BY	APP	REVISIONS DESCRIPTION OF REVISION
00	14 FEB 22	GH		DRAWING CREATED
				NOTES
	OVERVIEV	V		
	TEMPERATURE: -		-4	0°C TO -80°C ± 5.0°C VOL, UNIFORMITY
			-2	0°C ± 5.0°C VOL. UNIFORMITY
	PRODUCT:			NCONDITIONED ANTEROOM RODUCT AT TEMPERATURE WHEN LOADED
		•	IN	TO FREEZER. NO PRODUCT LOAD
	L.T. FREEZ	FR		SSUMED 16 FT² PER SIDE 212 FT² TOTAL
	STORAGI			18 FT3 PER SIDE, 1,696 FT3 TOTAL AT 8'-0"
			•	EIGHT) OF STORAGE
	CONDENS DOOR OP			'ATER-COOLED 0°C = 15 SECONDS
				T. FREEZER = 30 SECOND
	DOOR REG	COVER		0°C = 3 MINUTES (OPEN TO ANTEROOM)
			L.	T. FREEZER = 3 MIN. (OPEN TO -20°C)
	ARCHITECTURAL			
	PANEL FIN	PANEL FINISH:		TERIOR/EXTERIOR = EMBOSSED
	DOOR SIZ	E.		ALVANIZED STEEL PRE-PAINTED WHITE -0" WIDE X 7'-6" TALL (ANTEROOM)
			3'-	0" WIDE X 7'-6" TALL (-20°C CORRÍDOR)
				6" WIDE X 8'-0" TALL (LOW TEMP STORAGE REEZER)
	FM 4880:		O	UTSIDE CHAMBER ONLY (4" PANELS)
	FLOOR RA			00 LBS/SQ.FT. 5 LBS/SQ.FT. (5 LBS/SQ.FT. DEAD LOAD/ 10
	CLILING	ATING.		SS/SQ.FT. LIVE LOAD)
	MECHANIC	CAL		
	REFRIGER	RATION:		EDUNDANT MECHANICAL REFRIGERATION
				YSTEM FOR -20°C AND LOW TEMP. FREEZEI HAMBERS.
	PIPING:			AX. DISTANCE FROM SKID TO CHAMBER
	ELECTRIC	ΔΙ	N	OT TO EXCEED 50' HORIZ./50' VERTICAL
	CONTROL	S:		LLEN-BRADLEY COMPACTLOGIX PLC (NON REDUNDANT)
	CONTROL	PANEL		EMA 4/12 (GRAY)
	LIGHTING:		LE	ED LIGHTING
	SAFETY			
	PERSON-I			MED OCCUPANCY ALARM OF CORRIDOR
	PERSONN	CL ALA		MERGENCY PUSH-BUTTON LOCATED IN TH
	ODTIONS		C	ORRIDOR AT THE DOOR LOCATION 16" A.F.F
	OPTIONS			
	PANEL FIN	IICH.	20	A CTAINI ECC CTEEL INTEDIOD OD
	FANLLTIN			04 STAINLESS STEEL INTERIOR OR CTERIOR

TERTIARY BACKUP INCLUDES OXYGEN

CONTROL PANEL: NEMA 4X EMERGENCY LIGHTING:

OPTION TO NOT INCLUDE

IF COIL GUARD IS PREFERRED.

CUSTOMER TO SPECIFY NUMBER OF TIERS 8

YOKOGAWA ALARM CONTACTS - FORM-C (N.C./N.0.)

CONNECTION BY OTHERS

CEILING RATING: 20 LBS/SQ.FT.

 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

DOOR AJAR

LOW TEMP. FREEZER

 LOW TEMPERATURE DEVIATION HIGH TEMPERATURE LIMIT LOW TEMPERATURE LIMIT

 CONDENSER FAILURE (SYSTEM '1') CONDENSER FAILURE (SYSTEM '2')

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

ENVIRONMENTAL SPECIALTIES

4412 TRYON RD. RALEIGH, NC 27606 SCALE: 3/8" = 1'-0"

STANDARD MODEL 10 DOOR ULTRA-LOW

DATE CREATED:

14 FEB 22 BAHN - 10D 00