

[illegible]

FRONT VIEW
SERVICE SIDE

1. UNIT WEIGHT APPROXIMATELY 2,300 LBS
2. INSTALLATION CLEARANCE REQUIRES 3 FT ON ALL SIDES

Diagram illustrating the front view of the unit. The unit is 44" wide. Air flow is indicated by arrows: AIR OUT on the left and AIR IN on the right. A FUSIBLE DISCONNECT is shown on the right side of the unit.

SYSTEM SHALL BE ETL LISTED
CONFORMS TO UL STD 1995



POWER SUPPLY: 208-230V/3PH/60HZ FUSE SIZE: 70 AMPS
MINIMUM AMPACITY= 59.1 AMPS

IDENT.		FIXTURES			COMPRESSORS										EVAPORATOR COILS										LINE SIZES **		
SYSTEM	ITEM	DESCRIPTION	FXT * F		REFRIG. R-1	MODEL NO.	H.P.	ELECTRICAL CHARACTERISTIC AT 60 HZ.			CAPACITY	* DEFROST	QUANTITY	MODEL NO.	FAN 1 PH		HEATER			TOTAL UNIT AMP. [RLA]	SUCTION	DISCH.	LIQUID	DEFROST OPTION NO.			
			FIXT.	SUCT.				RLA	V	PH					AMP	V	AMP	V	PH								
A2	35	WALK-IN RETARDER	41	30	448A	ZB19KCE	2.5	9.0	208	3	19.5	0	1	KLVZ17MA	3.0	115				9.0	7/8		3/8	KE2/M			
D	23	HOLDING COOLER	35	25	448A	ZB4SKCE	6.0	20.2	208	3	44.6	0	3	KLP214MA	2.0EA	115				20.2	1-3/8		1/2	KE2/MT			
E	29	PRODUCTION COOLER	55	40	448A	ZB21KCE	3.0	10.9	208	3	30.4	0	3	KLV106MA	1.5EA	115				10.9	7/8		1/2	KE2/MT			

- ALL COMPRESSORS AND CONDENSER CIRCUITS ARE SIZED TO OPERATE AT 120°F AMBIENT AIR TEMPERATURE
- EACH COMPRESSOR SYSTEM IS SUPPLIED WITH A CRANKCASE HEATER AND HEAD PRESSURE CONTROL FACTORY INSTALLED
- ALL WALK-IN EVAPORATOR COILS SUPPLIED WITH ECM MOTORS AND PATENTED "SMART SPEED TECHNOLOGY" WITH 2 - SPEED MOTORS
- ALL WALK-IN EVAPORATOR COILS SUPPLIED WITH KE2 DEMAND DEFROST CONTROLS.
- SYSTEM "A2" EVAPORATOR COIL SUPPLIED WITH STAINLESS STEEL HOUSING AND COATED CORE
- REFRIGERATION DESIGN AND LINE SET SHOWN IS BASED ON A MAXIMUM LINE RUN OF 100 FEET. THIS INCLUDES A VERTICAL ALLOWANCE OF 40 FEET MAX
- IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND INDUSTRY PIPING PRACTICES WHEN DETERMINING THE LINES SIZES

Diagram illustrating the layout of a walk-in freezer, showing dimensions and components:

- Refrigeration Rack:** Located on a concrete pad on the left side.
- Refrigeration Line Stub Out Location:** Indicated by a vertical line on the left.
- Electrical Supply Conduit:** Indicated by a line entering from the top right, labeled "BY G.C.".
- Service Side:** The interior area of the freezer.
- Dimensions:**
 - Overall width: 138"
 - Overall height: 14'
 - Refrigeration rack height: 52"
 - Refrigeration rack width: 15"
 - Refrigeration rack depth: 4"
 - Refrigeration rack base: 3" TYP.
 - Refrigeration rack base: 6" CONCRETE PAD (BY G.C.)
 - Refrigeration rack base: 4"
 - Refrigeration rack base: 128"
 - Refrigeration rack base: 4"

*36" CLEARANCE RECOMMENDED
ON ALL SIDES OF UNIT

208V/1PH/60HZ
HOUSE POWER

L1 L2

FIELD WIRING
BY ELECTRICIAN

FIELD WIRING
BY ELECTRICIAN

TEMPERATURE AND DEMAND DEFROST CONTROLLER

4 F X N 3 H1 H2

DRAIN LINE HEATER

FAN MOTOR PLUGS

M1 M2 FAN MOTORS -(AS REQ.)

DEFROST HEATERS

GROUND

TYPICAL EVAPORATOR HOUSING

MULTIPLE EVAP COILS IN THE SAME ROOM
MUST BE BONDED TO EACH AND CONNECTED
TO DATA SWITCH

3. GENERAL CONTRACTOR

- A. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.
- B. GENERAL CONTRACTOR SHALL PREPARE AND WEATHER PROOF THE PLATFORM AND CURBED OPENINGS.

2. REFRIGERATION CONTRACTOR

- A. THE COMPLETE SYSTEM SHALL BE EVACUATED WITH VACUUM PUMP.
- B. ALL COPPER TUBING TO BE REFRIGERANT GRADE A.C.R. OR TYPE "L".
- C. CHARGE, TEST AND ADJUST EACH UNIT TO BE IN AN OPERATIONAL SYSTEM.
- D. SILVER SOLDER AND/OR SIL-FOS SHALL BE USED FOR ALL REFRIGERANT PIPING. SOFT SOLDER IS NOT ACCEPTABLE.
- E. ALL PIPING TO BE PRESSURE TESTED WITH NITROGEN AT 300 PSI. AFTER THE CONDENSING UNIT AND COIL HAVE BEEN CONNECTED, THE BALANCE OF THE SYSTEM SHALL BE LEAK TESTED WITH ALL VALVES OPEN.
- F. REFRIGERATION CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINE HEATER IN FREEZER TO BE CONNECTED BY ELECTRICAL CONTRACTOR.

3. ELECTRICAL CONTRACTOR

- A. ELECTRICAL CONTRACTOR TO CONNECT DRAIN-LINE HEATER IN FREEZER.
- B. ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR REFRIGERATION PACKAGE AND CONNECT CONTROL AND DEFROST SYSTEM AS CALLED FOR IN THE WIRING DIAGRAM.
- C. ELECTRICAL CONTRACTOR TO PROVIDE COLOR CODED SERVICE FROM THE TIME CLOCK AT THE REFRIGERATION PACKAGE TO THE EVAPORATOR IN THE FIXTURE FOR DEFROST.
- D. ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.

4. PLUMBING CONTRACTOR

- A. PLUMBING CONTRACTOR TO PROVIDE HARD A.C.R. OR TYPE "L" COPPER DRAIN LINES FOR WALK-IN REFRIGERATION AND FREEZER, PITCHED 1/2" PER FOOT RUN. IN FREEZER, UNHEATED DRAIN LINE MUST BE OUTSIDE OF INSULATION TO PREVENT FREEZING. TRAP DRAIN LINE OUTSIDE OF REFRIGERATED SPACE TO A VOID ENTRANCE OF WARM AND MOIST AIR.
- B. PLUMBING CONTRACTOR TO PROVIDE INDIVIDUAL DRAIN LINE FOR EACH EVAPORATOR UNLESS OTHERWISE CALLED FOR.
- C. ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.

REV	DESCRIPTION	DATE



Ph: (661) 505-7913

Diagram illustrating the correct installation of a drain pan for a low-temperature unit. The unit is mounted on a wall. Refrigeration lines and a coil are shown. Air flow is indicated. The drain pan is installed with a 1/2 inch fall per foot minimum slope. The drain line is 7/8 inch nominal copper pipe. A trap is installed in the drain line. The drain line exits through the wall with a 1 inch air gap.

120V/1PH/60HZ

NEUTRAL

HOT

EVAPORATOR COIL

FAN MOTOR AS REQ'D.

GROUND

FACTORY WIRING _____

FIELD WIRING - - - - -

MULTIPLE EVAP COILS IN THE SAME ROOM
MUST BE BONDED TO EACH AND CONNECTED
TO DATA SWITCH

REFRIGERATION SYSTEM:

THE REFRIGERATION SYSTEM SHALL BE AN ADMIRAL REFRIGERATION MODEL # ADR-10D, ETL LISTED AS PER UL STANDARD 1995 AND CERTIFIED TO CSA STANDARD C22.2 NO. 236 AS MANUFACTURED BY ADMIRAL REFRIGERATION INC. 28310 AVENUE CROCKER, UNIT 'C', VALENCIA, CA 91355. PH: (661) 505-7913.

2. **FRAME:**

THE FRAME SHALL CONSTRUCTED OF STRUCTURAL STEEL AND SHALL BE CLEANED AND PAINTED FOR PROTECTION FROM CORROSION. THE WEATHER PROOF HOUSING SHALL BE MADE OF 18 GA. STAINLESS STEEL WITH ONE PIECE LOUVER DOORS.

3. **COMPRESSOR MOTOR AND COMPONENTS:**

THE SYSTEM SHALL BE EQUIPPED WITH SCROLL, SEMI-HERMETIC AND HERMETIC COMPRESSORS. EACH COMPRESSOR SHALL BE PRE-PIPED BUT NOT LIMITED TO FILTER DRIER, SIGHT GLASS, HEAD PRESSURE CONTROL, DEVIANTIAL PRESSURE CONTROL, AND VIBRATION ELIMINATORS (FOR SEMI-HERMETIC) WHICH IS FACTORY ASSEMBLED AND PRESSURE TESTED. EACH COMPRESSOR SHALL INCLUDE A CRANKCASE HEATER FOR LOW AMBIENT PROTECTION. LOW TEMPERATURE (FREEZER) SYSTEMS SHALL BE EQUIPPED WITH ELECTRIC DEFROST TIME CLOCKS TO BE FIELD SET ON START UP OF THE SYSTEM.

4. **CONDENSER:**

THE CONDENSER SHALL BE MULTI-CIRCUITED WITH 3/8" RIFLE TUBING, EACH CIRCUIT SIZING TO OPERATE AT MAXIMUM TEMPERATURE CONDITION WITH A 20° MAXIMUM TEMPERATURE DIFFERENCE ACROSS THE CONDENSER SURFACE. THE CONDENSER SHALL HAVE FREE AIR MOVEMENT WITH NO STATIC PRESSURE EXCEPT FOR THAT CAUSED BY THE FINNED SURFACES. 100% OF ALL CONDENSER AIR SHALL BE DIRECTED OVER THE COMPRESSOR BODIES.

5. **ELECTRICAL COMPONENTS:**

THE SYSTEM SHALL HAVE A FACTORY MOUNTED RECESSED, PRE-WIRED, WEATHER RATED ETL LISTED ELECTRICAL CONTROL PANEL WITH MAIN DISCONNECT FOR A SINGLE POINT ELECTRICAL CONNECTION BY THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL COMPONENTS SHALL INCLUDE BUT NOT LIMITED TO COMPRESSORS, TIME CLOCKS, CIRCUIT BREAKERS, CONTACTORS, RELAYS, FAN MOTORS AND OTHER CONTROLS OR COMPONENTS DEEMED NECESSARY FOR OPERATION OF THE SYSTEM.

6. **REFRIGERATION LINES:**

REFRIGERATION LINES SHALL BE A.C.R. GRADE TYPE "L" AND BE PRE-PIPED AND EXTENDED IN A NEAT AND ORDERLY MANNER TO ONE END OF THE SYSTEM FOR A SINGLE-POINT CONNECTION. ALL PIPING SHALL BE ANCHORED AND SECURED WITH UNISTRUT CLAMPS. EACH SYSTEM SHALL BE PRESSURIZED, CHECKED, TESTED AND SHIPPED WITH DRY NITROGEN.

Project Name and Address
REFRIGERATION PLAN

BEYOND BREAD
TUCSON, AZ

NOT DRAWN TO SCALE

DRAWING NUMBER 23-1176	JOB NUMBER
DATE 9-5-2023	SHEET NUMBER R-2
DRAWN BY R.D.	