

Diagram illustrating a game tree for a game between a woman and a man. The woman moves first, choosing between 'C' and 'A1 B'. If she chooses 'C', the man chooses between 'c' and 'C'. If she chooses 'A1 B', the man chooses between 'a1' and 'B'. Payoffs are given as (woman, man).



POWER SUPPLY: 208-230V/3PH/60HZ      FUSE SIZE: 70 AMPS  
MINIMUM AMPACITY= 62.4 AMPS

IDENT.		FIXTURES			COMPRESSORS							EVAPORATOR COILS								LINE SIZES **			DEFROST OPTION NO.	
SYSTEM	ITEM	DESCRIPTION	FIT * F		REFRIG. R- NO.	MODEL NO.	ELECTRICAL CHARACTERISTIC AT 60 HZ.			CAPACITY	DEFROST *	QUANTITY	MODEL NO.	FAN 1 PH		HEATER			TOTAL UNIT AMP. [RLA]	SUCTION	DISCH.	LIQUID		
			FIXT.	SUCT.			H.P.	RLA	V					PH	AMP	V	AMP	V						PH
A1	35	WALK-IN RETARDER	41	30	448A	ZB19KCE	2.5	9.0	208	3	19.5	0	1	KLV217MA	3.0	115				9.0	7/8		3/8	KE2/MT
B	10	WALK-IN FREEZER	-10	-20	448A	ZF18K4E	6.0	19.6	208	3	17.1	E	1	KLP316LE	1.8	208	11.9	208	1	19.6	7/8		3/8	KE2/LT
C	17	STAGING COOLER	35	25	448A	ZB30KCE	4.0	14.1	208	3	30.1	0	2	KLP214MA	2.0EA	115				14.1	1-1/8		1/2	KE2/MT

\* \* VERIFY LINE SIZES WITH  
JOB SITE CONDITIONS

- 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 "A1" 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 a typical service side layout for a walk-in freezer. The layout shows the refrigeration rack on a concrete pad, the refrigeration line stub out location, and the electrical supply conduit by G.C. The dimensions are as follows:

- Refrigeration rack on concrete pad: 52" high, 15" wide, 6" deep.
- Refrigeration line stub out location: 3" TYP. from the rack.
- Electrical supply conduit by G.C.: 14" diameter.
- Service side: 128" wide, 138" high.
- Concrete pad (by G.C.): 6" thick.

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

FAN MOTORS -(AS REQ.)

DEFROST HEATERS

GROUND

1. 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 TO THE UNIT OR TO THE CALLED FOR.
- 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 OF 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.

Diagram illustrating the installation of a low-temperature electric heater on a freezer drain line. The heater is a coil taped to the drain line, with a union connecting it to the main drain line. The drain line is labeled "1/2\" FALL/FT. MINIMUM" and "7/8\" NOM. COPPER". The heater is connected to "REFRIGERATION LINES" and "AIR FLOW" is indicated. The drain line ends in a "TRAP" and a "1\" AIR GAP".

(LOW TEMPERATURE ONLY)  
ELECTRIC HEATER SPIRALED AND  
TAPED ON FREEZER DRAIN LINE  
BEFORE APPLYING INSULATION  
BY REFRIGERATION CONTRACTOR

120V/1PH/60HZ

NEUTRAL

HOT

EVAPORATOR COIL

FAN MOTOR  
AS REQ'D.

GROUND

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

1. REFRIGERATION SYSTEM:  
THE REFRIGERATION SYSTEM SHALL BE AN ADMIRAL REFRIGERATION MODEL # ADR-100, ETL LISTED AS PER UL STANDARD 1995 AND CERTIFIED TO CSA STANDARD 222.2 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, HEAT PRESSUR CONTROL VALVE, DISCHARGE 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 DESIGN TEMPERATURE CONDITION WITH A 20°F WIND 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.

GENERAL NOTES

[illegible]

Ph: (661) 505-7913

Project Name and Address

REFRIGERATION PLAN

BEYOND BREAD  
TUCSON, AZ

NOT DRAWN TO SCALE

DRAWING NUMBER

23-1176  
DATE 9-5-2023

DRAWN BY  
R.D.

JOB NUMBER

SHEET NUMBER  
R-1