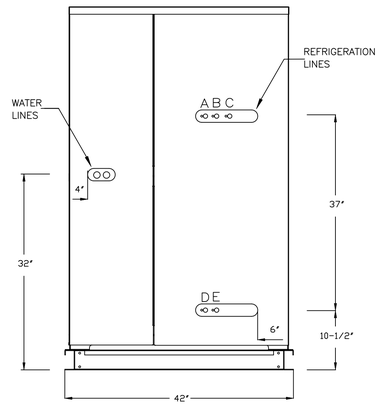
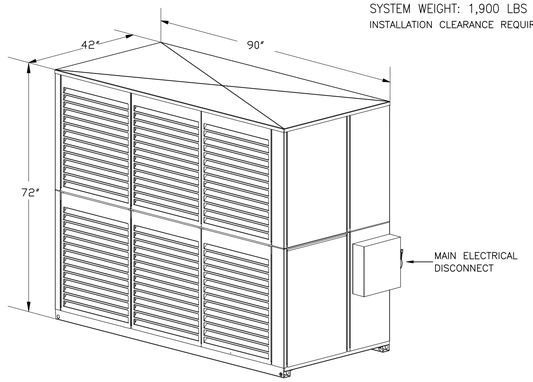
MODEL # ADR-8D-WC

ITEM # 1-131, INDOOR WATER COOLED REFRIGERATION SYSTEM
SYSTEM WITH WEATHER PROOF HOUSING

REFRIGERATION AND WATER LINES



SIDE VIEW



NOTES:

WATER FLOW RATE: 12.0 GPM
MANIFOLD CONNECT SIZE: 1-1/8" OD
VENTILATION REQUIRED: 180 CFM
WATER TEMPERATURE INLET: 85°F MAX., 55°F MIN.
CONDENSING TEMPERATURE: 105°F
MAX. WORKING PRESSURE: 120 PSIG
PRESSURE DROP THRU SYSTEM: 10 PSIG
SYSTEM WEIGHT: 1,900 LBS
INSTALLATION CLEARANCE REQUIRES 3 FT ON ALL SIDES

ENGINEERING SUMMARY

POWER SUPPLY: 208-230V/3PH/60HZ FUSE SIZE: 40 AMPS
MINIMUM AMPACITY= 34.9 AMPS

IDENT.		FIXTURES			COMPRESSORS						EVAPORATOR COILS									LINE SIZES **			
SYSTEM	ITEM	DESCRIPTION	FIXT. °F	SUCT.	REFRIG. R-	MODEL NO.	H.P.	ELECTRICAL CHARACTERISTIC AT 60 HZ. RLA	V	PH	CAPACITY	DEFROST *	QUANTITY	MODEL NO.	FAN 1 PH AMP	FAN 1 PH V	HEATER AMP	HEATER V	HEATER PH	TOTAL UNIT AMP. [RLA]	SUCTION	RISER	LIQUID	DEFROST OPTION NO.
A	1-124	WALK-IN COOLER	35	25	448A	ZB08KAE	.90	4.7	208	3	9.1	O	1	RL6A094	1.6	115				4.7	7/8	5/8	3/8	KE2/MT
B		COLD WORK ROOM	55	35	448A	ZB15KCE	2.0	8.0	208	3	22.4	O	1	RV6A085	1.6	115				8.0	1-1/8	7/8	1/2	KE2/MT
C		MULTIPLEX		20	448A	ZB08KAE	.90	4.7	208	3	9.1	O								4.7	7/8	5/8	3/8	
C1	1-068	CHEF'S COUNTER	35											BY OTHERS										
C2	1-077	CHEF'S COUNTER	35											BY OTHERS										
C3	1-137	WORK COUNTER	35											BY OTHERS										
D	1-124	WALK-IN FREEZER	-10	-20	448A	ZF08K4E	2.5	8.7	208	3	8.4	E	1	RL6E077	1.0	208	9.8	208	1	8.7	7/8	7/8	3/8	KE2/LT
E		MULTIPLEX		-10	448A	ZF05KAE	1.5	6.6	208	3	8.8	O								6.6	7/8	5/8	3/8	
E1	1-068	COLD RAIL	0											BY OTHERS										
E2	1-077	COLD RAIL	0											BY OTHERS										

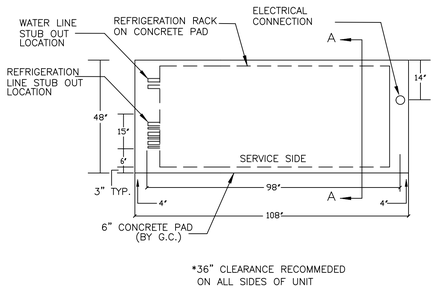
LEGEND | * O — OFF CYCLE E — ELECTRIC G — GRAVITY [W/TIMER]
E^ — DEFROST CLOCK BY FIXTURE MANUFACTURER

** VERIFY LINE SIZES WITH JOB SITE CONDITIONS

SYSTEM SHALL BE ETL LISTED
CONFORMS TO UL STD 1995

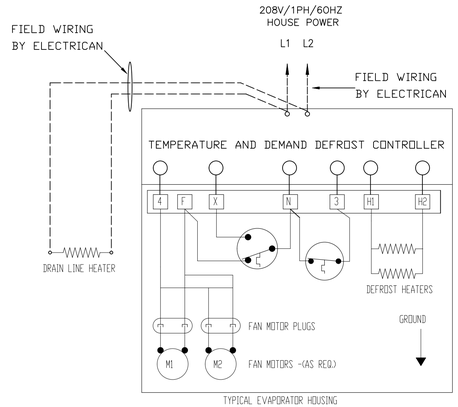
NOTE:
- EACH COMPRESSOR SYSTEM IS SUPPLIED WITH A WATER REGULATING VALVE FACTORY INSTALLED
- ALL LOW TEMPERATURE SYSTEMS SUPPLIED WITH SUCTION LINE ACCUMULATORS
- ALL WALK-IN EVAPORATOR COILS SUPPLIED WITH ECM MOTORS AND 2 - SPEED MOTORS
- ALL WALK-IN EVAPORATOR COILS SUPPLIED WITH KE2 DEMAND DEFROST CONTROLS.
- 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

GRADE PAD DETAIL

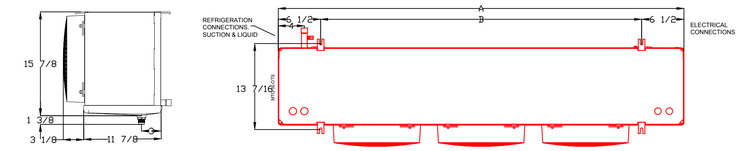


*36" CLEARANCE RECOMMEDED ON ALL SIDES OF UNIT

KE2/LT-ELECTRIC DEFROST WIRING

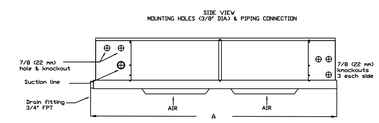


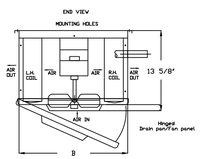
EVAPORATOR COILS



1, 2, AND 3 FAN MODELS (TOP VIEW)

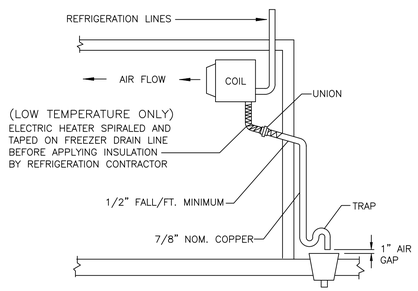
	MODEL RL6	NO. OF FANS	A IN	B IN	SUCTION CONNECTION (ID) SWEAT
SYS - A	RL6A094	2	43 5/8	33 1/4	5/8
SYS - D	RL6E077	2	43 5/8	33 1/4	7/8



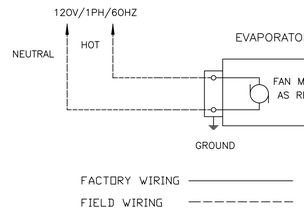


	MODEL RV6A	NO. OF FANS	A IN	B IN	SUCTION CONNECTION (ID) SWEAT
SYS - B	RV6A085	2	52"	28 3/8"	5/8

DRAIN LINE DETAIL



KE2/MT WIRING DIAGRAM FOR 120V FAN MOTORS



GENERAL NOTES

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 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 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.

REFRIGERATION NOTES

1. REFRIGERATION SYSTEM:
   THE REFRIGERATION SYSTEM SHALL BE AN ADR REFRIGERATION MODEL # ADR-8D-WC, 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 BE WELDED, CLEANED, DE-BURRED AND CONSTRUCTED OF STRUCTUAL STEEL. THE WEATHER PROOF HOUSING AND LOUVERED DOORS SHALL BE MADE OF GALVANZIED STEEL AND POWDER COATED FOR PROTECTION FROM CORROSION.
3. COMPRESSOR MOTOR AND COMPONENTS:
   THE SYSTEM SHALL BE EQUIPED WITH SCROLL, SEMI-HERMETIC AND HERMETIC COMPRESSORS. EACH COMPRESSOR SHALL BE PRE-PIPED BUT NOT LIMITED TO FILTER DRIER, SIGHT GLASS, WATER REGULATIING VALVE, COAXIAL WATER COOLED CONDENSER, DUAL PRESSURE CONTROL AND VIBRATION ELIMINATORS (FOR SEMI-HERMETIC) WHICH IS FACTORY ASSEMBLED AND PRESSURE TESTED.
4. ELECTRICAL COMPONENTS:
   THE SYSTEM SHALL HAVE A FACTORY MOUNTED, PRE-WIRED, WEATHER RATED ETL LISTED ELECTRICAL CONTROL PANEL WITH MAIN DISCONNECT FOR A SINGLE POINT ELECTRCAL CONNECTION BY THE ELECTRICAL CONTRACTOR. ELECTRICAL COMPONETS 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.
5. 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 SIDE 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.
6. WATER PIPING
   WATER SUPPLY AND RETURN HEAER SHALL BE MADE FROM GRADE TYPE 'M' COPPER TUBING.
   EACH COMPRESSOR SHALL BE PRE-PIPED WITH ISOLATION VALVES FOR THE WATER SUPPLY AND RETURN.

GENERAL NOTES

REV	DESCRIPTION	DATE

ADMIRAL
COMMERCIAL REFRIGERATION SYSTEMS
Ph: (661) 505-7913

Project Name and Address
REFRIGERATION PLAN
RED FARM
AUSTIN, TX
NOT DRAWN TO SCALE

DRAWING NUMBER 22-1141	JOB NUMBER
DATE 9-15-2022	SHEET NUMBER R-1
DRAWN BY R.D.	