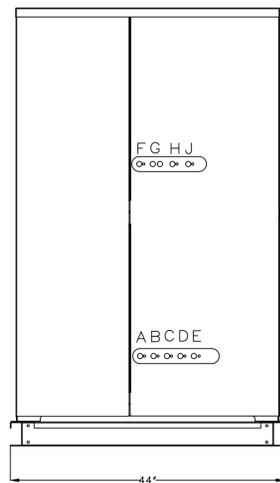
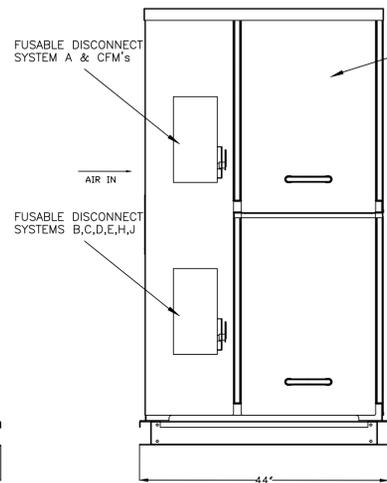


REFRIGERATION LINES



SIDE VIEW

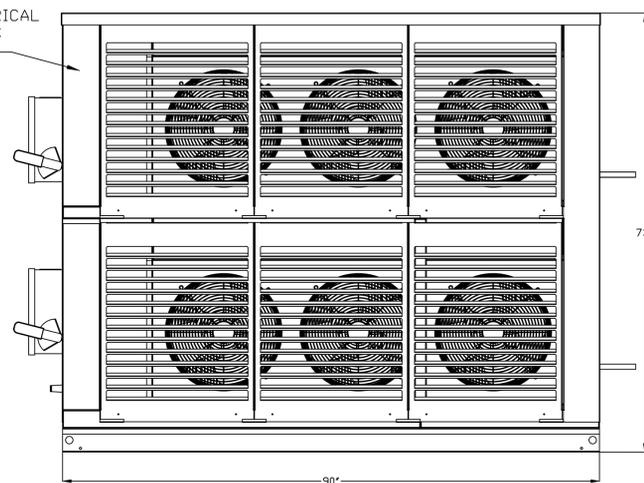
ELECTRICAL CONNECTIONS



SIDE VIEW

ADMIRAL MODEL # ADR-10D

ITEM # 154



FRONT VIEW

NOTES:

THIS SYSTEM IS INDOOR AIR COOLED WITH A POWDER COATED FRAME AND STAINLESS STEEL HOUSING SYSTEM WILL DISCHARGE 87,500 BTU/H INTO MECH. ROOM TOTAL VENTILATION REQUIRED: 8,450 CFM SYSTEM WEIGHT: 2,500 LBS INSTALLATION CLEARANCE REQUIRES 3 FT ON ALL SIDES

SYSTEM SHALL BE ETL LISTED CONFORMS TO UL STD 1995



ENGINEERING SUMMARY

SYSTEM 'A' & CONDENSER FANS

POWER SUPPLY: 208-230V/3PH/60HZ FUSE SIZE: 25 AMPS
MINIMUM AMPACITY= 22.8 AMPS

SYSTEM 'B','C','D','E','H' & 'J'

POWER SUPPLY: 208-230V/3PH/60HZ FUSE SIZE: 40 AMPS
MINIMUM AMPACITY= 34.6 AMPS

SYSTEM IDENT.	ITEM	FIXTURES DESCRIPTION	FIXT 'F'		REFRIG. R-1	MODEL NO.	H.P.	ELECTRICAL CHARACTERISTIC AT 60 HZ.			CAPACITY	DEFROST QUANTITY	EVAPORATOR COILS					DEFROST OPTION NO.					
			FIXT.	SUCT.				RLA	V	PH			FAN 1 PH	HEATER	TOTAL UNIT AMP. [RLA]		SUCTION		DISCH.	LIQUID			
A	38	WALK-IN COOLER	35	25	448A	ZB21KCE	3.0	10.9	208	3	23.2	0	2	KTM313MA	1.8EA	115			10.9	7/8	3/8	KE2/MT	
B		MULTIPLEX		-10	448A	ZF03KAE	1.0	3.7	208	3	5.0								3.7	1/2	3/8		
B1	142	1 SECT FREEZER BASE	0									E^A		BY OTHERS									
B2	1	1 SECT FREEZER BASE	0									E^A		BY OTHERS									
B3	1	1 SECT FREEZER BASE	0									E^A		BY OTHERS									
C		MULTIPLEX		20	448A	RST45C1E	.50	4.6	208	1	4.3								4.6	1/2	3/8		
C1	113	2 SECT REFRIGERATED BASE	38									E^A		BY OTHERS									
C2	113	2 SECT REFRIGERATED BASE	38									E^A		BY OTHERS									
D		MULTIPLEX		0	448A	ZF06K4E	2.0	8.3	208	3	10.4									8.3	7/8	3/8	
D1	113	COLD PAN	38									E^A		BY OTHERS									
D2	134	COLD PAN	38									E^A		BY OTHERS									
D3	134.1	COLD PAN	38									E^A		BY OTHERS									
E		MULTIPLEX		20	448A	RST45C1E	.50	4.6	208	1	4.3									4.6	1/2	3/8	
E1	2	2 DR BACK BARE REFRIGERATOR	38									E^A		BY OTHERS									
E2	2	2 DR BACK BAR REFRIGERATOR	38									E^A		BY OTHERS									
E3	3	1 DR BACK BAR REFRIGERATOR	38									E^A		BY OTHERS									
F	78	ICE MACHINE, KM-1100MRH			404A	HOSHIZAKI URC-14F															1/2	3/8	
G		HEAT RECOVERY SYSTEM																			1-1/2	1-1/2	
H		MULTIPLEX		20	448A	RST55C1E	.55	6.1	208	1	5.3									6.1	1/2	3/8	
H1	109.1	REFRIGERATED STAND W/BREAD DRWS	38									E^A		BY OTHERS									
H2	110	REFRIGERATED FRENCH FRY STATION	38									E^A		BY OTHERS									
H3	111.1	REFRIGERATED EQUIPMENT STAND	38									E^A		BY OTHERS									
H4	105	REFRIGERATED BATTER STATION	38									E^A		BY OTHERS									
J		MULTIPLEX		20	448A	RST45C1E	.50	4.6	208	1	4.3									4.6	1/2	3/8	
J1	134	2 SECT REFRIGERATED BASE	38									E^A		BY OTHERS									
J2	134.1	2 SECT REFRIGERATED BASE	38									E^A		BY OTHERS									
		(3) CONDENSER FAN MOTOR					1/4	1.8	208	1											10.8		

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

** VERIFY LINE SIZES WITH JOB SITE CONDITIONS

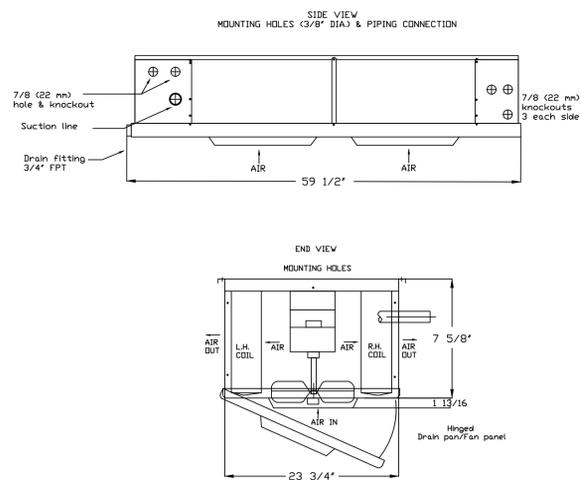
SYSTEM SHALL BE ETL LISTED CONFORMS TO UL STD 1995

NOTE:

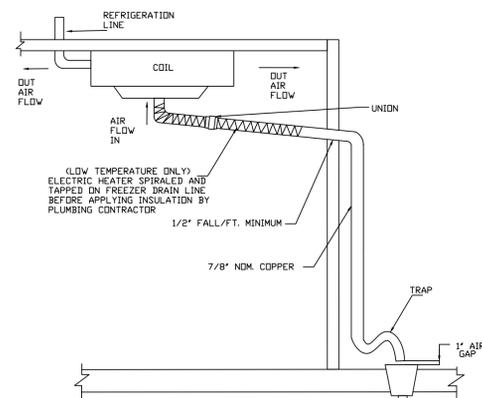
- ALL COMPRESSORS AND CONDENSER CIRCUITS ARE SIZED TO OPERATE AT 95°F AMBIENT AIR TEMPERATURE
- EACH COMPRESSOR SYSTEM IS SUPPLIED WITH A CRANKCASE HEATER AND HEAD PRESSURE CONTROL FACTORY INSTALLED
- ALL LOW TEMPERATURE SYSTEMS SUPPLIED WITH SUCTION LINE ACCUMULATORS
- SYSTEM 'E' SUPPLIED WITH OVERSIZED RECEIVER
- SYSTEM 'A' EVAPORATOR COILS SUPPLIED WITH PAINTED HOUSING, HERESITE COATED CORE AND 'ECM' FAN MOTORS
- SYSTEM 'F' ICE MACHINE CONDENSER TO BE SUPPLIED BY FSEC AND SHIPPED TO ADMIRAL REFRIG. FOR MOUNTING INTO FRAME
- ELECTRICAL POWER FOR SYSTEM 'F' ICE MACHINE CONDENSER TO BE PULLED FROM ICE MACHINE HEAD BY ELECTRICAL CONTRACTOR
- SYSTEM SUPPLIED WITH COPPER FINNED CONDENSER FOR SALT AIR PROTECTION
- ALL COMPRESSORS SUPPLIED WITH FACTORY PIPED DE-SUPER HEATER FOR HEAT RECOVERY, TOTAL T.H.R. 72,800 BTU/H
- "FLEXIQUICK" DISCONNECT ASSEMBLIES SUPPLIED FOR ITEMS 105, 109.1, 110 AND 111.1 TO BE FIELD INSTALLED



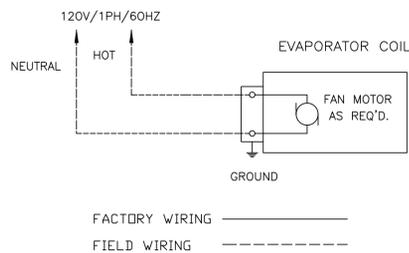
EVAPORATOR COIL #KTM313MA



DRAIN LINE DETAIL



KE2/MT WIRING DIAGRAM FOR 120V FAN MOTORS



GENERAL NOTES

- GENERAL CONTRACTOR
 - CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.
 - GENERAL CONTRACTOR SHALL PREPARE AND WEATHER PROOF THE PLATFORM AND CURBED OPENINGS.
- REFRIGERATION CONTRACTOR
 - THE COMPLETE SYSTEM SHALL BE EVACUATED WITH VACUUM PUMP.
 - ALL COPPER TUBING TO BE REFRIGERANT GRADE A.C.R. OR TYPE "L".
 - CHARGE, TEST AND ADJUST EACH UNIT TO BE IN AN OPERATIONAL SYSTEM.
 - SILVER SOLDER AND/OR SIL-FOS SHALL BE USED FOR ALL REFRIGERANT PIPING. SOFT SOLDER IS NOT ACCEPTABLE.
 - 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.
 - REFRIGERATION CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINE HEATER IN FREEZER TO BE CONNECTED BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR
 - ELECTRICAL CONTRACTOR TO CONNECT DRAIN-LINE HEATER IN FREEZER.
 - ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR REFRIGERATION PACKAGE AND CONNECT CONTROL AND DEFROST SYSTEM AS CALLED FOR IN THE WIRING DIAGRAM.
 - ELECTRICAL CONTRACTOR TO PROVIDE COLOR CODED SERVICE FROM THE TIME CLOCK AT THE REFRIGERATION PACKAGE TO THE EVAPORATOR IN THE FIXTURE FOR DEFROST.
 - ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.
- PLUMBING CONTRACTOR
 - 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.
 - PLUMBING CONTRACTOR TO PROVIDE INDIVIDUAL DRAIN LINE FOR EACH EVAPORATOR UNLESS OTHERWISE CALLED FOR.
 - ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.

REFRIGERATION NOTES

- 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.
- 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.
- 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 DEVICE, DUAL 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.
- CONDENSER:

THE CONDENSER SHALL BE MULTI-CIRCUITED WITH 3/8" RIFLE TUBING, EACH CIRCUIT SIZING TO OPERATE AT AT A DESIGN TEMPERATURE CONDITION WITH A 20°F 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.
- 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. 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.
- 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.

GENERAL NOTES

#	DESCRIPTION	DATE
# 1	REVISED TO INDIVIDUAL CONDENSING UNITS WITH COPPER FINNS, REVISED SIZE, WEIGHT AND FUSE SIZE	7.19.19
# 2	ADDED HEAT RECLAIM CONNECTIONS	7.22.19
# 3	ADDED SYSTEM 'H', REVISED TO INDOOR CONDENSING UNITS, REVISED TO STAINLESS STEEL FRAME, REVISED SIZE, WEIGHT AND FUSE SIZE. ADDED HERESITE COATED EVAP CORE TO SYSTEM 'A'.	7.29.19
# 4	ADDED SYSTEM 'H3', REVISED HP ON SYSTEMS 'D', 'E' & 'H'. REVISED THR, SIZE, WEIGHT & FUSE SIZE. ADDED 'QUICKFLEX' ASSEMBLIES.	7.30.19
# 5	REVISED TO MULTI-CIRCUITED REFRIG. SYSTEM, REVISED SIZE, WEIGHT, FUSE SIZE, EVAP MODEL ON SYSTEM 'A'	9.12.23
# 6	REVISED TO TWO (2) ELECTRICAL POWER CONNECTIONS	9.22.23
# 7	ADDED ITEMS 134 & 134.1. REVISED SYSTEM 'D', ADDED SYSTEM 'J'. REVISED THR, SIZE, WEIGHT, FUSE SIZE & VENTILATION	2.6.24
REV	DESCRIPTION	DATE

ADMIRAL
COMMERCIAL REFRIGERATION SYSTEMS

Ph: (661) 505-7913

Project Name and Address
REFRIGERATION PLAN
HILLSTONE RESTAURANT
DEL MAR, CA

NOT DRAWN TO SCALE

DRAWING NUMBER: 19-1026
DATE: 2-21-2019
DRAWN BY: R.D.

JOB NUMBER: R-1
SHEET NUMBER: R-1