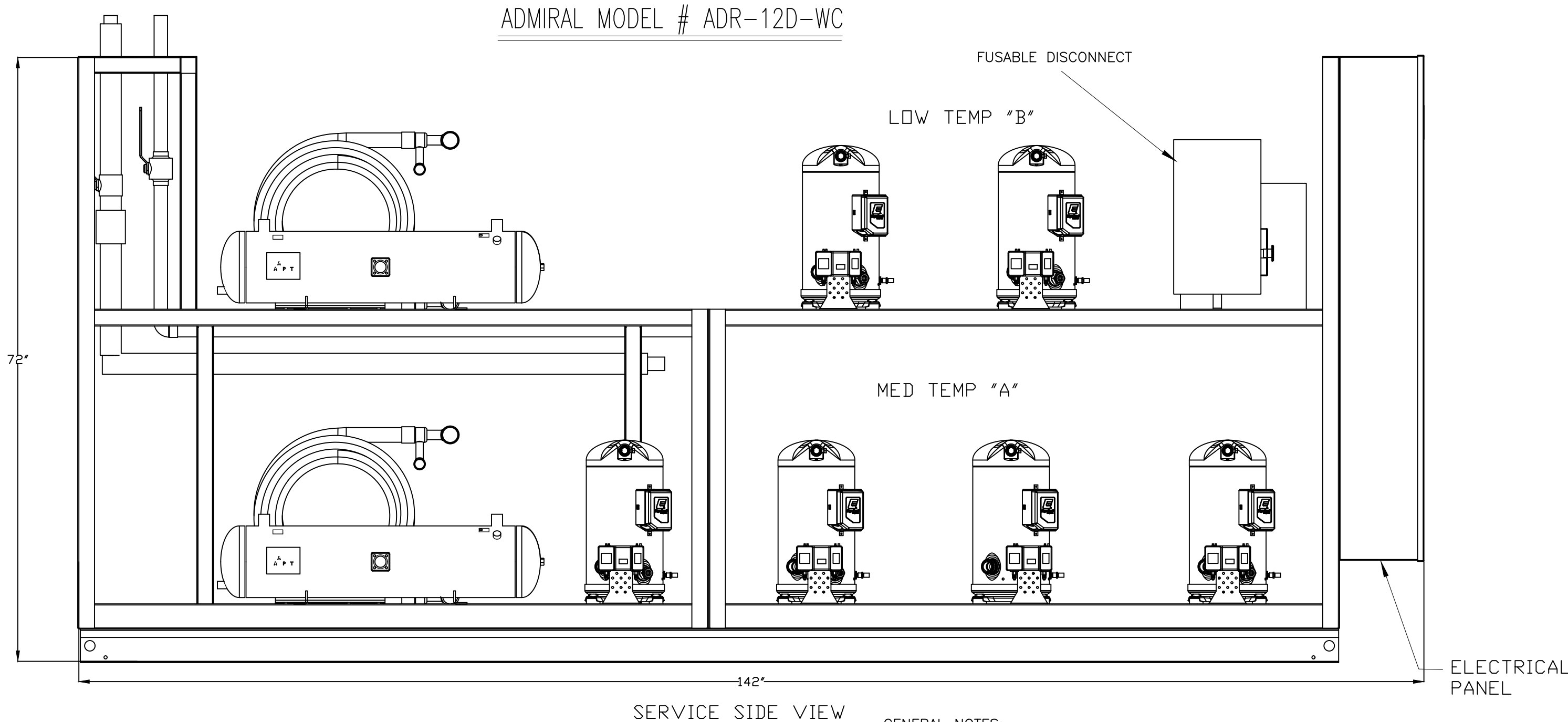


ADMIRAL MODEL # ADR-12D-WC

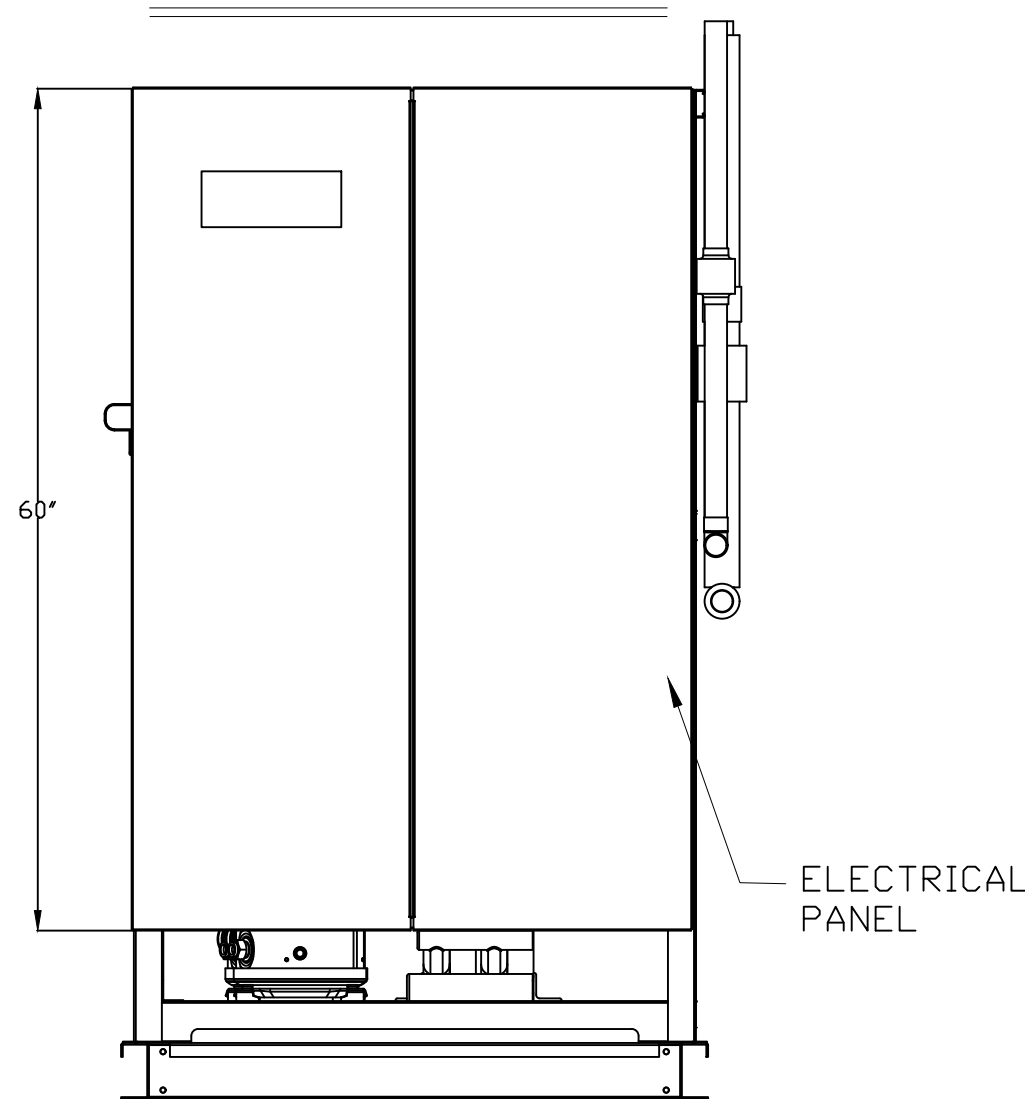


SERVICE SIDE VIEW

GENERAL NOTES:

1. UNIT WEIGHT APPROXIMATELY 4625 LBS
2. INCOMING AND OUTGOING WATER MANIFOLD PIPE SIZE 2 5/8" INCHES OUTSIDE DIAMETER
3. MAXIMUM WATER FLOW RATE 82.1 GALLONS PER MINUTE

ELECTRICAL CONNECTIONS

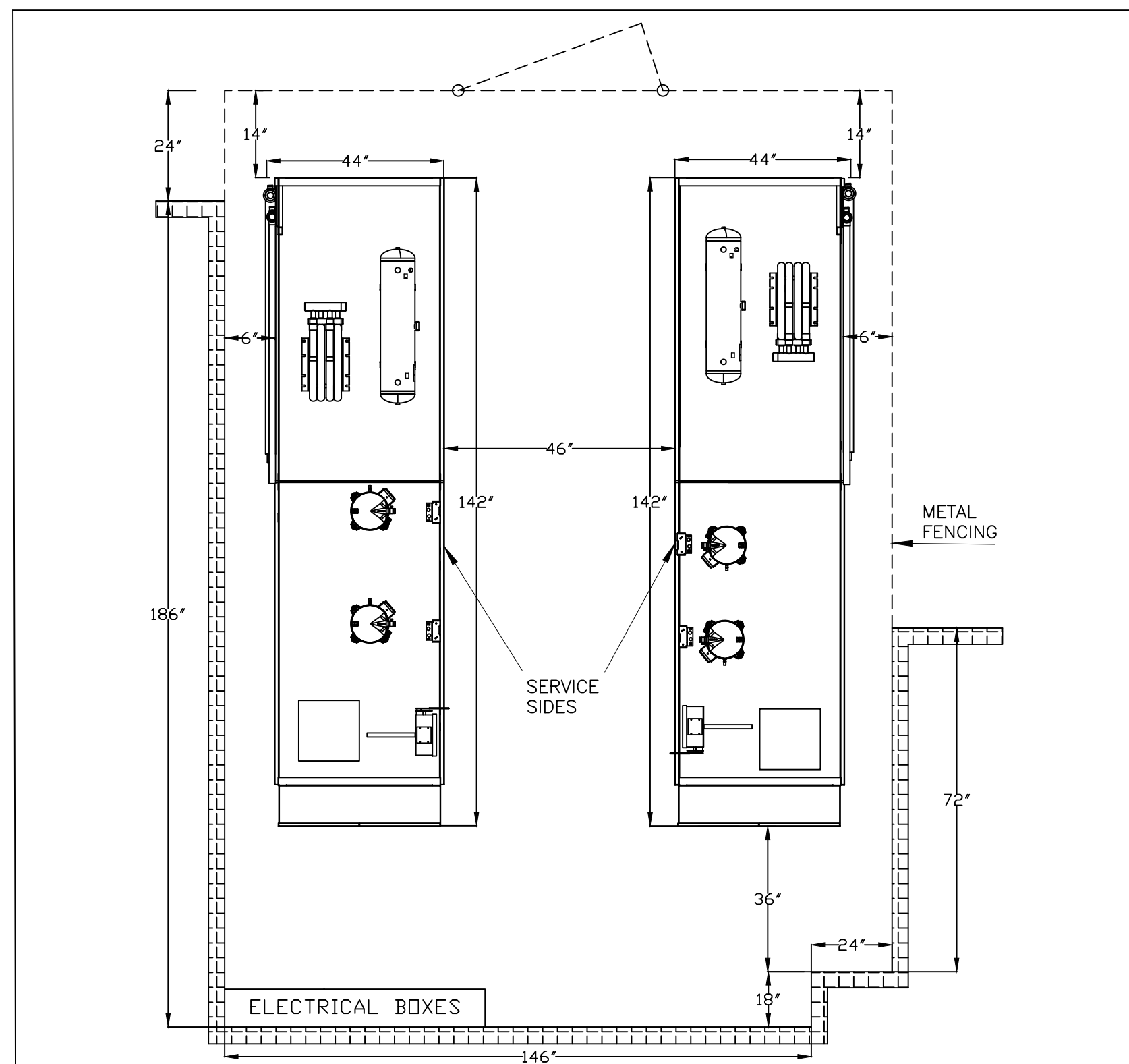
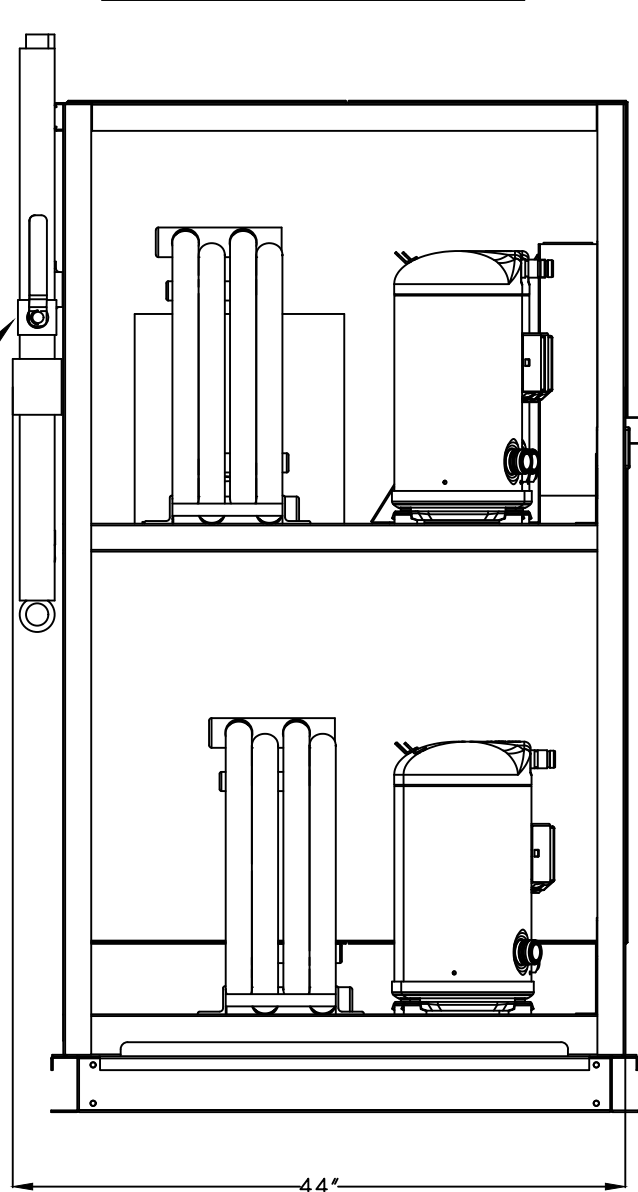


ELECTRICAL PANEL

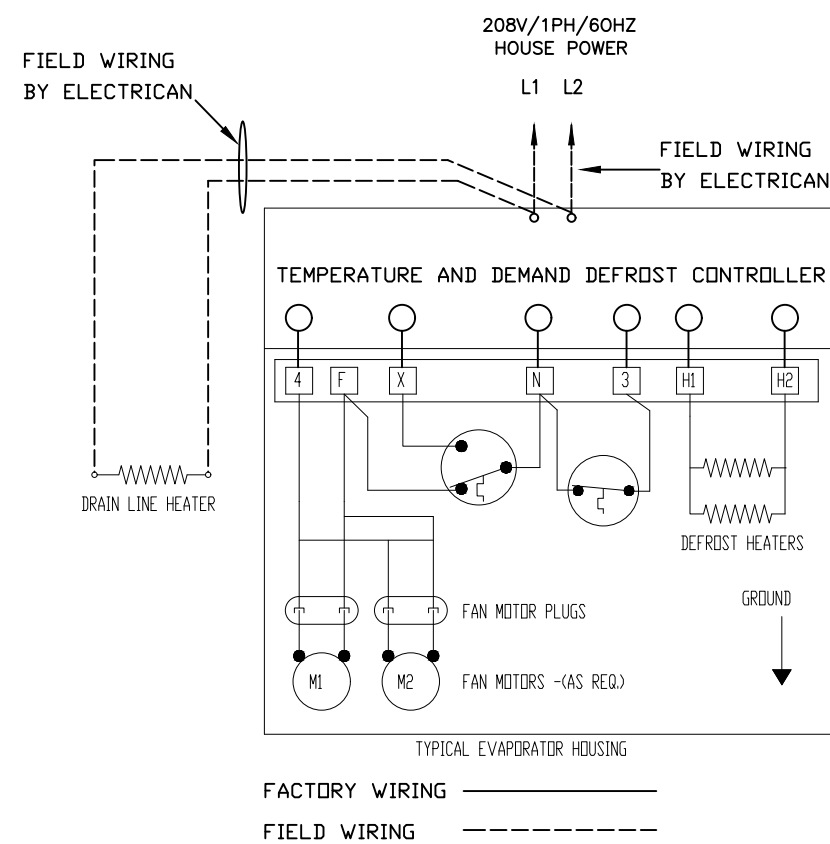
CHILLED WATER LINES

2 5/8" COPPER CONNECTIONS

CHILLED WATER LINES SHUT-OFF VALVE



DEMAND-ELECTRIC DEFROST WIRING



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.

ENGINEERING SUMMARY

POWER SUPPLY: 460V/3PH/60HZ

FUSE SIZE: 150 AMPS
MINIMUM AMPACITY=122.8 AMPS

IDENT.		FIXTURES		COMPRESSORS								EVAPORATOR COILS										LINE SIZES **			DEFROST OPTION NO.
SYSTEM	ITEM	DESCRIPTION	FIXT 'F'		REFRIG. R-	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		
			FIXT.	SUCT.				RLA	V	PH					AMP	V	AMP	V	PH						
AA1		MT PARALLEL SCROLL COMPRESSOR	35	20	448A	ZB76K5E	8.5	18.6	460	3	86.0	0								18.6	2 5/8		1 1/8		
AA2		MT PARALLEL SCROLL COMPRESSOR	35	20	448A	ZB95K5E	10.0	21.8	460	3	104.0	0								21.8					
AA3		MT PARALLEL SCROLL COMPRESSOR	35	20	448A	ZB95K5E	10.0	21.8	460	3	104.0	0								21.8					
AA4		MT PARALLEL SCROLL COMPRESSOR	35	20	448A	ZB95K5E	10.0	21.8	460	3	104.0	0								21.8					
A10	2.001A	WALK-IN REF EVAP COILS	35	25								BY OTHERS													
A15	2.020	PREP ROOM COILS	50	30								BY OTHERS													
A15	2.020	PREP ROOM COILS	50	30								BY OTHERS													
A12	2.021A	WALK-IN REF EVAP COILS	35	25								BY OTHERS													
A11	2.021D	WALK-IN REF EVAP COILS	35	25								BY OTHERS													
A63	2.048	WORK CTR & REF COIL	35	20								BY OTHERS													
A14	2.065A	WALK-IN REF EVAP COILS	35	25								BY OTHERS													
A14	2.065A	WALK-IN REF EVAP COILS	35	25								BY OTHERS													
A16	2.084A	WALK-IN REF EVAP COILS	35	25								BY OTHERS													
A17	2.084B	WALK-IN REF EVAP COILS	35	25								BY OTHERS													
A18	2.084D	WALK-IN REF EVAP COILS	35	25								BY OTHERS													
A19	2.084E	WALK-IN REF EVAP COILS	35	25								BY OTHERS													
A2	1.018	REF BASE (3 SEC)	35	25								BY OTHERS													
A3	1.023	DESSERT CTR BASE (2 SEC)	35	25								BY OTHERS													
A4	1.025	GRAB-N-G-REF CASE	35	20								BY OTHERS													
A5	1.027	REF BASE (2 SEC)	35	25								BY OTHERS													
A6	1.032	REF SAND/SALAD STATION	35	20								BY OTHERS													
A7	1.045	REF EQUIP BASE	35	20								BY OTHERS													
A8	1.051	REF PREP TABLE	35	25								BY OTHERS													
A20	7.001	WALK-IN REF EVAP COIL	35	25								BY OTHERS													
A21	7.010A	BEER REF EVAP COIL	35	25								BY OTHERS													
A25 SW-16		DOCK TRASH ROOM										BY OTHERS													
A1	1.001	U/C REF (2 SEC)	35	20								BY OTHERS													
BB1		LT PARALLEL SCROLL COMPRESSOR	-10	-20	448A	ZF41K5E	13.0	17.3	460	3	41.0	E								17.3	1 5/8		5/8		
BB2		LT PARALLEL SCROLL COMPRESSOR	-10	-20	448A	ZF34K5E	10.0	16.0	460	3	32.8	E								16.0					
B5	2.001B	WALK-IN FREEZER EVAP COIL	-10	-20								BY OTHERS											DEMAND		
B6	2.021B	WALK-IN FREEZER EVAP COIL	-10	-20								BY OTHERS											DEMAND		
B7	2.021C	WALK-IN FREEZER EVAP COIL	-10	-20								BY OTHERS											DEMAND		
B8	2.084C	WALK-IN FREEZER EVAP COIL	-10	-20								BY OTHERS											DEMAND		
B2	1.018	REF COLD PAN	35	10								BY OTHERS													
B3	1.023	DESSERT CTR REF COLD PAN	35	10								BY OTHERS													
B4	1.027	REF COLD PAN	35	10								BY OTHERS													
B9	7.001B	WALK-IN FREEZER EVAP COIL	-10	-20								BY OTHERS											DEMAND		

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:

- MINIMUM INCOMING CHILLED WATER TEMPERATURE 45°F MAXIMUM INCOMING CHILLED WATER TEMPERATURE 85°F
- MAXIMUM INCOMING CHILLED WATER PRESSURE - 120 P.S.I.G.
- REFRIGERATION SYSTEM WILL DISCHARGE A MAXIMUM OF 18,550 B.T.U.'s PER HOUR INTO THE MECHANICAL ROOM.
- REFRIGERATION SYSTEM WILL DISCHARGE A MAXIMUM OF 657,296 B.T.U.'s PER HOUR INTO THE CHILLED WATER SYSTEM
- MINIMUM MECHANICAL ROOM VENTILATION 1,237 C.F.M. TO MAINTAIN A MAXIMUM OF 15°F TEMPERATURE RISE IN THE MECHANICAL ROOM

REFRIGERATION NOTES

1. REFRIGERATION SYSTEM:
THE REFRIGERATION SYSTEM SHALL BE AN ADMIRAL REFRIGERATION MODEL # ADR-12D-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: # (562) 941-2100.
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 PRESSUR 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.
4. CONDENSER:
THE CONDENSER SHALL BE MULTI-CIRCUITED WITH 3/8" RIFLE TUBING, EACH CIRCUIT SIZING TO OPERATE 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.
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. 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 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

#1	REVISED ENGINEERING SCHEDULE, REMOVED SYS. "C" BLAST CHILLER REVISED NOTES WITH PIPE SIZES, FLOW RATES, DISCHARGE BTUH & RACK LENGTH TO 142"	5/8/19
#2	REVISED COMPRESSOR ROOM DRAWING	5/9/19

REV	DESCRIPTION	DATE
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Ph: (562) 941-2100

Project Name and Address
REFRIGERATION PLAN
FOUR SEASONS HOTEL
BANQUET & EMPLOYEE
KITCHEN
WESTLAKE, CA

NOT DRAWN TO SCALE.

DRAWING NUMBER 19-0418B	JOB NUMBER
DATE 4/18/2019	SHEET NUMBER R-1
DRAWN BY SUJAY	