

Order Plans

PANEL: MDP												SQD MFGR		
VOLTAGE: 120 / 208		3 PHASE			4 WIRE			TYPE		MOUNTING: SURFACE		42,000 AIC		
LOAD KVA	LOAD SERVED	WIRE	TRIP	FRAME (Note 1)	CKT NO	A	B	C	CKT NO	FRAME (Note 1)	TRIP	WIRE	LOAD SERVED	LOAD KVA
16.29	PANEL A	3/0	200	5	1	3	4	2	2	60	6	6	RTU-1	5.06
13.05	PANEL B	3/0	200	7	3	4	8	6	6	80	6	6	RTU-2	7.76
13.73	PANEL C	3/0	200	11	7	10	12	14	6	6	6	SPD	7.76	0.00
10.34	SPACE ONLY	3/0		19	13	14	16	18	60	6	6		SPACE ONLY	0.00
11.85	SPACE ONLY	3/0		21	15	16	18	20	60	6	6		SPACE ONLY	0.00
0.00	SPACE ONLY			25	19	20	22	24					SPACE ONLY	0.00
0.00	SPACE ONLY			25	21	22	24	26					SPACE ONLY	0.00
0.00	SPACE ONLY			29	25	26	28	30					SPACE ONLY	0.00
0.00	SPACE ONLY			31	27	28	30	32					SPACE ONLY	0.00
0.00	SPACE ONLY			33	29	30	32	34					SPACE ONLY	0.00
0.00	SPACE ONLY			35	31	32	34	36					SPACE ONLY	0.00
0.00	SPACE ONLY			37	33	34	36	38					SPACE ONLY	0.00
0.00	SPACE ONLY			39	35	36	38	40					SPACE ONLY	0.00
0.00	SPACE ONLY			41	37	38	40	42					SPACE ONLY	0.00
123.8													SUB-TOTALS	38.5
LOAD		KVA		TOTAL LOAD PER PHASE:		CONNECTED		NOTES:						
LIGHTS		18.4		A = 53.2 KVA		442.8 A		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.						
HEATING		41.7		B = 57.4 KVA		477.9 A		2. UNUSED						
COOLING		0.0		C = 51.7 KVA		430.6 A		3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.						
VENTILATION		6.0		DEMAND				4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.						
MOTORS		14.5		DEMAND				5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.						
KITCHEN		46.4		A = 45.3 KVA		377.5 A		6. PROVIDE METAL DIRECTORY FRAME.						
RECEPTACLES		24.2		B = 46.5 KVA		404.4 A		7. THIS PANEL SHALL BE UL LISTED FOR USE AS S.E. EQUIP.						
WATER HEATER		0.3		C = 45.0 KVA		375.1 A								
MISC.		9.7		DEMAND @ 125%										
SPARE		1.1		A = 56.7 KVA		471.8 A								
TOTAL (CONNECTED)		182.3		B = 60.7 KVA		505.5 A								
TOTAL (DEMAND)		138.9		C = 56.3 KVA		468.9 A								

PANEL: B												SQD MFGR			
VOLTAGE: 120 / 208		3 PHASE			4 WIRE			TYPE		MOUNTING: SURFACE		200 AMP	MAIN LUGS ONLY	42,000 AIC	
LOAD KVA	LOAD SERVED	WIRE	TRIP	FRAME (Note 1)	CKT NO	A	B	C	CKT NO	FRAME (Note 1)	TRIP	WIRE	LOAD SERVED	LOAD KVA	
1.68	MILK SHAKE MACHINE UNIT EQUIP -	12	20	3	1	3	4	2	20	12	20	12	POS	0.72	
1.68	MILK SHAKE MACHINE UNIT	12	20	9	3	4	8	6	20	12	20	12	POS	0.72	
1.68	MILK SHAKE MACHINE UNIT	12	20	9	9	10	12	14	20	12	20	12	POS	0.72	
1.88	MILK SHAKE MACHINE UNIT	12	20	11	9	10	12	14	20	12	20	12	MONITOR	0.50	
0.72	GREASE HEATER	12	20	13	13	14	16	18	20	12	20	12	SHAKE MOTOR	0.50	
0.72	KEF-1 & KSF-1 (NOTE 8)	12	20	17	15	16	18	20	12	20	12	12	KITCHEN REC	0.82	
2.00	SHUNT TRIP	10	25	21	19	20	22	24	20	12	20	12	WARMER EQUIP - 23	1.64	
1.06	ICE MACHINE CONDENSING UNIT	12	20	23	21	22	24	26	20	12	20	12	TEA BREWIER	1.68	
1.06	ICE MACHINE EVAP. FAN	12	20	25	23	24	26	28	20	12	20	12	FREEZER DOOR HEATER (NOTE 8)	1.20	
2.01	ICE MACHINE CONDENSING UNIT	12	20	29	27	28	30	32	20	12	20	12	REFRIGERATOR EQUIP - 35	1.20	
1.20	ICE MACHINE CONDENSING UNIT	12	20	31	29	30	32	34	20	12	20	12	SPARE	0.00	
0.00	SHUNT TRIP	10	25	33	31	32	34	36	20	12	20	12	SPARE	0.00	
1.00	GREASE HEAT TAPE (NOTE 8)	12	20	35	33	34	36	38	20	12	20	12	SPARE	0.00	
0.00	SHUNT TRIP	10	25	37	35	36	38	40	20	12	20	12	SPARE	0.00	
26.6													SUB-TOTALS	17.5	
LOAD		KVA		TOTAL LOAD PER PHASE:		CONNECTED		NOTES:							
LIGHTS		18.4		A = 13.7 KVA		114.3 A		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.							
HEATING		41.7		B = 16.4 KVA		136.1 A		2. UNUSED							
COOLING		0.0		C = 14.0 KVA		116.6 A		3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.							
VENTILATION		6.0		DEMAND				4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.							
MOTORS		14.5		DEMAND				5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.							
KITCHEN		46.4		A = 12.0 KVA		96.6 A		6. PROVIDE METAL DIRECTORY FRAME.							
RECEPTACLES		24.2		B = 13.9 KVA		115.8 A		7. PROVIDE BREAKER WITH HANDLE LOCK-ON DEVICE.							
WATER HEATER		0.3		C = 12.1 KVA		101.1 A		8. PROVIDE BREAKER WITH SHUNT TRIP.							
MISC.		9.7		DEMAND @ 125%				9. VERIFY CIRCUIT BREAKER SIZE AND WIRING WITH MANUFACTURER NAME PLATE RATINGS BEFORE PURCHASE OR ROUGH-IN.							
SPARE		1.1		A = 14.9 KVA		124.5 A									
TOTAL (CONNECTED)		44.1		B = 17.4 KVA		144.7 A									
TOTAL (DEMAND)		38.0		C = 15.2 KVA		126.4 A									

AIR CURTAIN (FLY FAN) SCHEDULE						
SYMBOL	LOCATION	CFM	MOTOR R.P.M.	H.P.	VOLTAGE	DISCONNECT
FF-1	KITCHEN 104	1050	1550	1/8	115V-1Ø	MANUAL MOTOR STARTER

ROOFTOP UNIT SCHEDULE															
SYMBOL	CFM	NOMINAL TONNAGE	COMPRESSOR (EA)	CFM	IFM	COMB. FAN	POWER EXHAUST	POWER SUPPLY	DISCONNECT						
			NO.	RLA	LRA	QTY.	FLA	FLA	LRA	MCA	MOCP	VOLTAGE			
RTU-1	4000	10	2	SEE NOTE "A"	1	4	7.3	1	---	50.1	60	208V-3Ø	60A/F80-3P-3R		
RTU-2	5000	12½	2	20.4	156	2	3.2	16.7	.5	6.6	13.5	64	80	208V-3Ø	100A/F80-3P-3R

COMPRESSOR NOTES:  
A. COMPRESSOR #1: 19.6 RLA, 136 LRA; COMPRESSOR #2: 13.1 RLA, 83 LRA

FAN SCHEDULE											
SYMBOL	AREA SERVED (LOCATED)	TYPE	CFM	ELECTRICAL DATA		CONTROLS		DISCONNECT			
				WATTS	H.P.	VOLTAGE					
EF-1	WOMEN 110 (SAME)	EXHAUST	150	129	—	120V-1Ø	INTERLOCK WITH ROOM LIGHT SWITCH				
EF-2	MEN 109 (SAME)	EXHAUST	150	129	—	120V-1Ø	INTERLOCK WITH ROOM LIGHT SWITCH				
EF-3	JANITOR (SAME)	EXHAUST	150	129	—	120V-1Ø	MANUAL MOTOR STARTER				
EF-4	UNSEX 106 (SAME)	EXHAUST	150	129	—	120V-1Ø	INTERLOCK WITH ROOM LIGHT SWITCH				
KEF-1	KITCHEN 104 (ROOF)	KITCHEN EXH.	3900	—	3	208V-3Ø	INTERLOCK WITH KITCHEN HOOD CONTROLS	30A/F20-3P-3R			
KSF-1	KITCHEN 104 (ROOF)	KITCHEN SUPPLY	3120	—	2	208V-3Ø	INTERLOCK WITH KITCHEN HOOD CONTROLS	30A/F15-3P-3R			

PANEL: A												SQD MFGR			
VOLTAGE: 120 / 208		3 PHASE			4 WIRE			TYPE		MOUNTING: SURFACE		200 AMP	MAIN LUGS ONLY	42,000 AIC	
LOAD KVA	LOAD SERVED	WIRE	TRIP	FRAME (Note 1)	CKT NO	A	B	C	CKT NO	FRAME (Note 1)	TRIP	WIRE	LOAD SERVED	LOAD KVA	
2.49	COOLER CONDENSER	10	25	1	1	3	4	2	20	12	20	12	REC AT ORDERING	0.18	
2.49	COOLER EVAP. FAN	10	25	3	3	4	8	6	20	12	20	12	REC	0.18	
1.38	COOLER EVAP. FAN	12	20	7	7	10	12	14	20	12	20	12	REC	0.18	
1.38	COOLER EVAP. FAN	12	20	9	9	10	12	14	20	12	20	12	ROOF REC	1.08	
3.90	FREEZER CONDENSER	6	50	11	11	14	16	18	20	12	20	12	REC MANAGERS DESK	0.90	
3.90	FREEZER EVAP. FAN	6	50	15	15	16	18	20	20	12	20	12	REC MANAGERS DESK	1.08	
1.38	FREEZER EVAP. FAN	12	20	19	19	20	22	24	20	12	20	12	REC	0.90	
1.38	FREEZER EVAP. FAN	12	20	21	21	22	24	26	20	12	20	12	SANDWICH / SALAD PREP	1.65	
0.50	KITCHEN HOOD SHUT DOWN	12	20	23	23	24	26	28	20	12	20	12	QUESDILLA GRILL	0.25	
0.50	SANDWICH / SALAD PREP EQUIP - 7 (NOTE 6)	12	20	25	25	26	28	30	20	12	20	12	AIR CURTAIN (FLY FAN - NOTE 7)	0.25	
0.00	SHUNT TRIP	10	25	27	27	28	30	32	20	12	20	12	GAS WATER HEATER	0.28	
0.00	FRYER / PREP UNIT EQUIP - 10 (NOTE 8)	12	20	29	29	30	32	34	20	12	20	12	REC REC-BUMP	1.40	
0.00	SHUNT TRIP	10	25	31	31	32	34	36	20	12	20	12	HOT DRYER	1.40	
0.00	SHUNT TRIP	10	25	33	33	34	36	38	20	12	20	12	WIND DRYER	1.40	
2.00	SHUNT TRIP	12	30	35	35	36	38	40	20	12	20	12	CONTROL	0.50	
1.00	EQUIPMENT (NOTE 9)	12	20	37	37	38	40	42	20	12	20	12	SPARE	0.00	
1.00	EQUIPMENT (NOTE 9)	12	20	39	39	40	42	44	20	12	20	12	SPARE	0.00	
31.1													SUB-TOTALS	14.6	
LOAD		KVA		TOTAL LOAD PER PHASE:		CONNECTED		NOTES:							
LIGHTS		0.0		A = 16.3 KVA		135.6 A		1. BREAKER FRAME SHALL BE AS REQ'D PER PANEL AIC RATING.							
HEATING		0.0		B = 14.4 KVA		119.5 A		2. UNUSED							
COOLING		0.0		C = 14.0 KVA		116.6 A		3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.							
VENTILATION		6.0		DEMAND				4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.							
MOTORS		14.5		DEMAND				5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.							
KITCHEN		46.4		A = 13.9 KVA		115.8 A		6. PROVIDE METAL DIRECTORY FRAME.							
RECEPTACLES		24.2		B = 13.2 KVA		110.6 A		7. PROVIDE BREAKER WITH HANDLE LOCK-ON DEVICE.							
WATER HEATER		0.3		C = 11.1 KVA		92.6 A		8. PROVIDE BREAKER WITH SHUNT TRIP.							
MISC.		4.7		DEMAND @ 125%				9. VERIFY CIRCUIT BREAKER SIZE AND WIRING WITH MANUFACTURER NAME PLATE RATINGS BEFORE PURCHASE OR ROUGH-IN.							
SPARE		0.0		A = 16.0 KVA		132.9 A									
TOTAL (CONNECTED)		45.7		B = 16.5 KVA		137.1 A									
TOTAL (DEMAND)		37.1		C = 13.9 KVA		115.7 A									

PANEL: C												SQD MFGR			
VOLTAGE: 120 / 208		3 PHASE			4 WIRE			TYPE		MOUNTING: SURFACE		200 AMP	MAIN LUGS ONLY	42,000 AIC	
LOAD KVA	LOAD SERVED	WIRE	TRIP	FRAME (Note 1)	CKT NO	A	B	C	CKT NO	FRAME (Note 1)	TRIP	WIRE	LOAD SERVED	LOAD KVA	
1.20	ROAD SIGN - NOTE 7.9	12	20	1	1	3	4	2	20	12	20	12	LIGHTING RR / DRY STORAGE - NOTE 10	0.90	
1.20	ROAD SIGN - NOTE 7.9	12	20	3	3	4	8	6	20	12	20	12	LIGHTING KITCHEN - NOTE 10	1.68	
1.20	ROAD SIGN - NOTE 7.9	12	20	5	5	6	8	10	20	12	20	12	LIGHTING DINING ROOM - NOTE 10	0.29	