



COOLING TOWER UNITS						
UNIT NO.	LOCATION	NO. CELLS	EACH CELL	MAX. P.D. FT. WATER	AIR WBT. WATER IN	WATER OUT
1	70	2	1275	15	79	95
2	76	2	1275	15	79	95
3	76	1	1500	15	79	95

WATER COOLED CHILLER UNIT									
UNIT NO.	LOCATION	TONS	COMPRESSOR MOTOR			EVAPORATOR			
			HP	PHASE	VOLT.	ENT. WATER TEMP. F.	LG. WATER TEMP. F.	MAX. P.D. F.	CONDENSER
1-COU1	70	650	553	3P/4160	1370	56.9	42.0	15	2550
1-COU2	70	650	553	3P/4160	1370	56.9	42.0	15	2550
1-COU3	70	500	425	3P/4160	867	55.9	42.0	15	1500

FCO 3V PROVIDE UNIT CAPABLE OF USING R410A OR R22 REFRIGERANT.

PACKAGE AIR COOLED RECIPROCATING CHILLER UNIT (OPERATING ROOM)									
UNIT NO.	EQUIPMENT	LOCATION	PERFORMANCE			MOTOR		REMARKS	
			MINIMUM CAPACITY	HP	PHASE	INPUT	VOLT.		
1-ACRCU1	COMPRESSOR	ROOF	240 TONS	161	3P/460	17	3P/460	COMPRESSOR SHALL BE CAPABLE OF PROVIDING 240 TONS	
1-ACRCU2	CHILLER	ROOF	240 TONS	161	3P/460	17	3P/460	COMPRESSOR SHALL BE CAPABLE OF PROVIDING 240 TONS	
1-ACRCU3	AIR COOLED CONDENSER	ROOF	240 TONS	161	3P/460	17	3P/460	COMPRESSOR SHALL BE CAPABLE OF PROVIDING 240 TONS	

1. PACKAGE AIR COOLED RECIPROCATING CHILLER UNIT SHALL BE PROVIDED WITH HOT GAS BYPASS BY MANUFACTURER TO BE FURNISHED BY MANUFACTURER OR EQUIPMENT COMPRESSOR STARTER SHALL BE PARTITIONED OFF WITH A MAXIMUM CURRENT IN EXCESS OF 600 OF LOCKED ROTOR CURRENT OR MULTIPLE COMPRESSORS SHALL BE FURNISHED.

2. CHILLERS SHALL BE PIPED IN SERIES TO PRODUCE SPECIFIED DUTY. MACHINE SHALL BE IDENTICAL.

PACKAGE AIR COOLED RECIPROCATING CHILLER UNIT (ANIMAL ROOM)									
UNIT NO.	EQUIPMENT	LOCATION	PERFORMANCE			MOTOR		REMARKS	
			MINIMUM CAPACITY	HP	PHASE	INPUT	VOLT.		
1-ACRCU1	COMPRESSOR	ROOF	193 TONS	237	3P/460	20	3P/460	COMPRESSOR SHALL BE CAPABLE OF PROVIDING 193 TONS	
1-ACRCU2	CHILLER	ROOF	193 TONS	237	3P/460	20	3P/460	COMPRESSOR SHALL BE CAPABLE OF PROVIDING 193 TONS	
1-ACRCU3	AIR COOLED CONDENSER	ROOF	193 TONS	237	3P/460	20	3P/460	COMPRESSOR SHALL BE CAPABLE OF PROVIDING 193 TONS	

1. PACKAGE AIR COOLED RECIPROCATING CHILLER UNIT SHALL BE PROVIDED WITH HOT GAS BYPASS BY MANUFACTURER TO BE FURNISHED BY MANUFACTURER OR EQUIPMENT COMPRESSOR STARTER SHALL BE PARTITIONED OFF WITH A MAXIMUM CURRENT IN EXCESS OF 600 OF LOCKED ROTOR CURRENT OR MULTIPLE COMPRESSORS SHALL BE FURNISHED.

PRESSURE REDUCING VALVES									
PRV NO.	LOCATION	STEAM PRESSURE		CAPACITY LBS/HR		BYPASS VALVE		PIPE SIZES	
		INLET	OUTLET	REQUIRED	MAXIMUM			D <sub>1</sub>	D <sub>2</sub>
1-PRV1A	BOILER ROOM NORTH	65	30	350	510	3/4"	1"	2"	
1-PRV1B	BOILER ROOM SOUTH	65	30	350	4050	3/4"	1"	2"	
1-PRV2A	BOILER ROOM SOUTH	65	30	6660	7555	2 1/2"	3"	5"	
1-PRV2B	BOILER ROOM SOUTH	65	30	1400	1950	2"	4"	4"	
1-PRV3A	SERV. BAY A PENTHOUSE	65	30	7900	10275	2 1/2"	4"	6"	
1-PRV3B	SERV. BAY B PENTHOUSE	65	30	1400	10275	2"	4"	4"	
1-PRV3C	SERV. BAY C PENTHOUSE	65	30	4600	6975	2"	3"	5"	
1-PRV3D	SERV. BAY D PENTHOUSE	65	30	4600	6975	2"	3"	5"	
1-PRV3E	SERV. BAY E PENTHOUSE	65	30	4600	6975	2"	3"	5"	
1-PRV3F	SERV. BAY F PENTHOUSE	65	30	4600	6975	2"	3"	5"	
1-PRV3G	SERV. BAY G PENTHOUSE	65	30	4600	6975	2"	3"	5"	
1-PRV3H	SERV. BAY H PENTHOUSE	65	30	4600	6975	2"	3"	5"	
1-PRV3I	SERV. BAY I PENTHOUSE	65	30	4600	6975	2"	3"	5"	
1-PRV3J	SERV. BAY J PENTHOUSE	65	30	4600	6975	2"	3"	5"	

1. STEAM PRESSURE REDUCING VALVES TO BE PROVIDED BY MANUFACTURER.

SAFETY VALVES & RELIEF VALVES									
VALVE NO.	SERVICE	FLUID	TEMP. F.	MINIMUM CAPACITY	SET PRESSURE PSIG	PIPE SIZES		ORIFICE	
						D <sub>1</sub>	D <sub>2</sub>		
1-SV1	1-PRV1A	STEAM	312	510	40	3/4"	1"	E	
1-SV2	1-PRV2A	STEAM	312	11665	40	4"	6"	N	
1-SV3	1-PRV3A	STEAM	312	12225	40	4"	6"	P	
1-SV4	1-PRV4A	STEAM	312	15900	40	4"	6"	P	
1-SV5	1-PRV5A	STEAM	312	9955	40	4"	6"	N	
1-SV6	1-PRV6A	STEAM	312	9955	40	4"	6"	N	

CIRCULATING PUMPS									
PUMP NO.	LOCATION	SYSTEM	CIRCULATING FLUID			SPEC. GRAV.	EFF.	TYPE	REMARKS
			FLUID	GPM	TEMP. F.				
1-P1	LEVEL 7 NORTH BOILER ROOM	CONDENSER WAT	WATER	2550	75	1.0	63	HORIZ. SPLIT	
1-P2	LEVEL 7 NORTH BOILER ROOM	CONDENSER WAT	WATER	2550	75	1.0	63	HORIZ. SPLIT	
1-P3	LEVEL 7 NORTH BOILER ROOM	CONDENSER WAT	WATER	1500	65	1.0	65	HORIZ. SPLIT	
1-P4	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	1370	35	1.0	60	HORIZ. SPLIT	
1-P5	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	1370	35	1.0	60	HORIZ. SPLIT	
1-P6	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	807	35	1.0	60	HORIZ. SPLIT	
1-P7	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	2000	105	1.0	61	HORIZ. SPLIT	
1-P8	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	2000	105	1.0	61	HORIZ. SPLIT	
1-P9	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	2000	105	1.0	61	HORIZ. SPLIT	
1-P10	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P11	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P12	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P13	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P14	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P15	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P16	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P17	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P18	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P19	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P20	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P21	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P22	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P23	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P24	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P25	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P26	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P27	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P28	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P29	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P30	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P31	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P32	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P33	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P34	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P35	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P36	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P37	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P38	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P39	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P40	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P41	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P42	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P43	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P44	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P45	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P46	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P47	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P48	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P49	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P50	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P51	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P52	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P53	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P54	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P55	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P56	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P57	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P58	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P59	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P60	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P61	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P62	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P63	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P64	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P65	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P66	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P67	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P68	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P69	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P70	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P71	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P72	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P73	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P74	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P75	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P76	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P77	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P78	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P79	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	
1-P80	LEVEL 7 NORTH BOILER ROOM	CH. WAT P&I	WATER	300	80	1.0	74	END SUCT.	