

Cooling Coil Schedule																	
Coil Number	Unit or System Served	Flow, cfm	Maximum Fins per Inch	Rows	Minimum Face Area, sq.ft.	Airside Performance						Waterside Performance					Comments
						Entering Air		Leaving Air		Face Velocity, fpm	Pressure Drop, in.w.c.	Entering Water Temperature, °F	Leaving Water Temperature, °F	Flow Rate, gpm	Pressure Drop, ft.w.c.	Tons	
						Dry bulb, °F	Wet bulb, °F	Dry bulb, °F	Wet bulb, °F								
CC-1	AHU1 - Hotel Lobby and Administration	26,000	8	6	52.0	81.0	63.8	51.0	50.5	433	0.63	42.0	56.0	141.0	8.6	82.2	
CC-2	Main Ball Room	20,000	9	6	40.0	86.6	66.1	51.4	50.9	500	0.82	42.0	54.0	148.7	11.0	74.4	
CC-3	Junior Ball Room	15,000	8	6	30.0	80.2	63.5	51.7	51.1	500	0.74	42.0	54.0	88.7	9.2	44.3	
CC-4	Meeting Rooms	15,000	9	6	30.0	90.3	67.6	52.2	51.6	500	0.83	42.0	54.0	120.1	9.1	60.1	3-way valve
CC-5	Corridor Make-up Air	23,775	8	6	47.6	90.3	67.6	52.8	52.0	500	0.76	42.0	54.0	186.3	6.9	93.2	
CC-6	Corridor Make-up Air	23,775	8	6	47.6	90.3	67.6	52.8	52.0	472	0.70	42.0	54.0	186.3	6.9	93.2	
CC-7	Laundry	10,000	8	6	20.0	81.3	65.0	53.9	53.3	500	0.75	42.0	54.0	57.9	3.1	29.0	
CC-8	Breakfast/Lunch Café	6,500	8	6	13.0	82.7	64.5	50.9	50.4	406	0.56	42.0	54.0	43.9	7.8	21.9	3-way valve
CC-9	Restaurant and Lounge	11,500	8	6	23.0	82.7	64.5	51.8	51.2	479	0.70	42.0	54.0	73.7	9.3	36.9	
CC-10	Main Kitchen	19,000	8	6	38.0	88.5	67.6	51.5	51.0	396	0.56	42.0	54.0	157.2	9.2	78.6	
VF-1	Electrical Room	8,200	8	3	16.4	83.7	67.6	60.7	57.9	410	0.35	42.0	54.0	42.5	9.8	21.2	
CC-GR01	Typcial North Exposure Guest Room (294 thus)	300	14	3	1.4	72.0	60.0	49.4	49.0	214	0.15	42.0	48.6	2.7	3.5	0.7	3-way valve top of riser
CC-GR02	Typcial East Exposure Guest Room (22 thus)	400	14	3	1.4	72.0	60.0	51.2	50.5	285	0.22	42.0	49.4	2.8	3.7	0.9	3-way valve top of riser
CC-GR03	Typcial South Exposure Guest Room (292 thus)	600	14	3	2.2	72.0	60.0	50.4	49.8	275	0.21	42.0	50.1	4.1	9.7	1.4	3-way valve top of riser
CC-GR04	Typcial West Exposure Guest Room (22 thus)	400	14	3	1.4	72.0	60.0	51.2	50.5	285	0.22	42.0	49.4	2.8	3.7	0.9	3-way valve top of riser
CC-CR05	Typcial Luxury Guest Room (4 thus)	1,000	14	3	3.2	72.0	60.0	51.2	50.4	313	0.26	42.0	50.3	6.3	8.9	2.2	

Notes All selections based on Greenheck


Pump Schedule													
Pump Number	Unit or System Served	Make	Model	Flow, gpm	Head, ft.w.c.	Impeller Diameter, in.	Rpm	Bhp	Minimum Pump Efficiency	Motor			Comments
										Hp	Volts	Phase	
CHWP-01	Chiller 01 Evaporator Pump	Bell and Gossett	1510 6G	1,100	40	10-7/8	1,150	13.6	82.1%	15.0	480.0	3.0	
CHWP-02	Chiller 02 Evaporator Pump	Bell and Gossett	1510 6G	1,100	40	10-7/8	1,150	13.6	82.1%	15.0	480.0	3.0	
CHWP-03	Chilled Water Distribution Pump	Bell and Gossett	1510 5A	1,100	90	6	3,550	34.7	72.0%	40.0	480.0	3.0	Note 1,3
CHWP-04	Chilled Water Distribution Pump	Bell and Gossett	1510 5A	1,100	90	6	3,550	34.7	72.0%	40.0	480.0	3.0	Note 1, 3
CWP-01	Chiller 01 Condenser Pump	Bell and Gossett	1510 6E	1,650	84	10-1/4	1,770	40.7	85.9%	50.0	480.0	3.0	Note 2
CWP-02	Chiller 02 Condenser Pump	Bell and Gossett	1510 6E	1,650	84	10-1/4	1,770	40.7	85.9%	50.0	480.0	3.0	Note 2

Notes

1. VFD Rated Motor

2. Pump selection allows for the head required for the future addition of a 550 ton absorptoin chiller

3. Revision 1, VE Analysis

Chiller Schedule																		
Chiller Number	Unit or System Served	Make	Model	Nominal Tons	Evaporator				Condenser				kW	Motor			Comments	
					Flow, gpm	Entering Temperature, °F	Leaving Temperature, °F	Pressure Drop, ft.wc.	Flow, gpm	Entering Temperature, °F	Leaving Temperature, °F	Pressure Drop, ft.wc.		kW	Volts	Phase		
CH-1	Chiller 01	Train	CVHF0570	550	1,100	54.0	42.0	9.76	1,650	85.0	94.3	15.45	286.0	286.0	480.0	3.0	Note 3 4	
CH-2	Chiller 02	Train	CVHF0570	550	1,100	54.0	42.0	9.76	1,650	85.0	94.3	15.45	309.2	309.2	480.0	3.0		

Notes

1. With adjustable frequence drive

2. With hot gas bypass

3. With free standing Y-Delta closed transition starter

4. Revision 1, VE Analysis

Cooling Tower Schedule																					
Cooling Tower Number	Unit or System Served	Make	Type	Model	Nominal Tons	Flow, gpm	Entering Temperature, °F	Leaving Temperature, °F	Approach Temperature, °F	Rating Wet Bulb Temperature, °F	Airflow, cfm	Fan Speed, rpm	Sound Power, dBA	Lift, ft.w.c.	gpm/hp	Heat Rejection, Btu/hr	Motor				Comments
																	Hp	Speed	Volts	Phase	
CT-1	Cooling Tower 01	Gnarly	Induced Draft, Cross Flow	NC8409PAS1-420	550	1,873	95.0	85.0	12.10	72.9	139,200	214	71	12.3	132	9,332,200	15.0	1,200	480	3	Note 1, 2, 3
CT-2	Cooling Tower 02	Gnarly	Induced Draft, Cross Flow	NC8409PAS1-420	550	1,873	95.0	85.0	12.10	72.9	139,200	214	71	12.3	132	9,332,200	15.0	1,200	480	3	Note 1, 2, 3

Notes

1. Selection based on serving CH-01, CH-02 and a future nominal 550 to absorptoin chiller by adding a third identical cell. For this project, set up the towers for 1,650 gpm of flow per cell

2.

3. Revision 1, VE Analysis

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5-19-2004 - VE Study
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Chilled Water System Equipment Schedules

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