

three inches = one foot
one and one-half inch = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

EXPANSION TANK SCHEDULE																										
MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPROX SYSTEM VOLUME		SYSTEM TEMPERATURE RANGE				INITIAL PRESSURE IN TANK		MAX OPERATING PRESSURE		FILL PRESSURE AT TANK				MIN VOLUME TANK		MIN BLADDER VOLUME		PIPE SIZE TO TANK		COLD WATER FILL SIZE		REMARKS
						MIN		MAX		PSIG		PSIG		RELIEF VALVE		AT TANK										
				GAL	[L]	°F	[°C]	°F	[°C]	PSIG	[kPa]	PSIG	[kPa]	PSIG	[kPa]	PSIG	[kPa]	GAL	[L]	GAL	[L]	IN	[mm]	IN	[mm]	
1-ET1	2ND FLOOR MECH ROOM	CHILLED WATER	VERT DIAPHRAGM	315	[1200]	45	[7]	55	[13]	12	[83]	125	[860]	80	[550]	70	[480]	2	[8]	1.3	[5]	0.75	[19]	0.75	[19]	NONE

PUMP SCHEDULE																						
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	CIRCULATING FLUID										MIN % EFF	ELECTRICAL MOTOR					REMARKS	
					FLUID	FLOW		HEAD		NPSH AVAILABLE		TEMPERATURE		SP GR		NOMINAL POWER		PHASE	VOLT	MAX RPM		SPEED CONTROL
						GPM	[L/s]	FT	[kPa]	FT	[kPa]	°F	[°C]		HP	[kW]						
1-PIA	2ND FLOOR MECH ROOM	PATIENT CARE	CHILLED WATER	END SUCTION	MATCH EXISTING HEADER	100	[6]	60	[960]	MODEL	MODEL	44	[7]	1	SEE SPEC.	5	[4]	3	208	1750	NO	WITH SUCTION DIFFUSER AND HAND-OFF-AUTO PANEL
1-PIB	2ND FLOOR MECH ROOM	PATIENT CARE	CHILLED WATER	END SUCTION	MATCH EXISTING HEADER	100	[6]	60	[960]	MODEL	MODEL	44	[7]	1	SEE SPEC.	5	[4]	3	208	1750	NO	WITH SUCTION DIFFUSER AND HAND-OFF-AUTO PANEL
1-PA2	2ND FLOOR MECH ROOM	PATIENT CARE	COOLING TOWER	END SUCTION	MATCH EXISTING HEADER	150	[10]	42	[670]	MODEL	MODEL	95	[35]	1	SEE SPEC.	5	[4]	3	208	1750	NO	WITH SUCTION DIFFUSER AND HAND-OFF-AUTO PANEL
1-P3B	2ND FLOOR MECH ROOM	PATIENT CARE	COOLING TOWER	END SUCTION	MATCH EXISTING HEADER	150	[10]	42	[670]	MODEL	MODEL	95	[35]	1	SEE SPEC.	5	[4]	3	208	1750	NO	WITH SUCTION DIFFUSER AND HAND-OFF-AUTO PANEL

STEAM HEATING COIL SCHEDULE																					
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	APPLICATION	AIR FLOW		MAX FACE VELOCITY		APD	TEMPERATURES				TOTAL MIN CAPACITY	STEAM				REMARKS		
					CFM	[L/s]	FPM	[M/s]		IN WG	[Pa]	EAT			LAT		ENT CONT VALVE	ENT COIL			
												°F	[°C]		°F	[°C]				PSIG	[kPa]
1-SHC2	2ND FLOOR MECH ROOM	WARD B	1-AHU2	PREHEAT	13200	[6200]	500	[2.54]	0.2	[50]	0	[-18]	58	[14]	861	[2900]	15	[100]	5	[35]	WITH FACE AND BYPASS

STEAM HUMIDIFIER SCHEDULE																										
MARK	LOCATION	SYSTEM AND/OR SERVICE	HUMIDIFIER TYPE	AIR FLOW		# OF MANIFOLDS	EAT						LAT		SOURCE	STEAM						CONTROL TYPE	TRAP		REMARKS	
				CFM	[L/s]		Db		Wb		DEWPOINT		DEWPOINT			PRESS ENT VALVE		PRESS ENT HEATER		FLOW			MARK	CAPACITY		
							°F	[°C]	°F	[°C]	°F	[°C]	°F	[°C]		PSIG	[kPa]	PSIG	[kPa]	LBS/HR	[kg/HR]					LBS/HR
1-SH2	2ND FLOOR MECH ROOM	1-AHU2	STEAM TO CLEAN STEAM	14000	[6600]	1	75	[24]	47	[8]	-11	[-24]	50	[10]	STEAM	10	[69]	10	[69]	255	[120]	FIELD MOUNTED	NA	255	[120]	

FAN SCHEDULE																									
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		TSP		FAN								MOTOR ELECTRICAL								CONTROL SEQUENCE	REMARKS
				CFM	[L/s]	IN	[Pa]	TYPE	WHEEL	CLASS	ARRANGEMENT, ROTATION, AND DISCHARGE	DIAMETER		MIN % EFF	DRIVE	FAN MAX RPM	NOMINAL POWER			PHASE	VOLT	RPM	SPEED CONTROL		
												IN	[mm]				BHP	HP	[kW]						
1-SF2	2ND FLOOR MECH ROOM	WARD B	1-AHU2	13200	[6200]	5.88	[1400]	CENTRIFUGAL	AF	2	VERTICAL	27	[680]	ASHRAE 90.1	BELT	2000	18	20	[15]	3	208	1750	VFD	THRU BAS	WITH MERV 7 AND MERV 14 FILTERS
1-RF2	2ND FLOOR MECH ROOM	WARD B	1-AHU2	13200	[6200]	2.85	[660]	CENTRIFUGAL	AF	2	HORIZONTAL	27	[680]	ASHRAE 90.1	BELT	2000	10	15	[11]	3	208	1750	VFD	THRU BAS	
1-EF1	ROOF	WARD B	EXHAUST	7800	[3700]	3.5	[860]	CENTRIFUGAL	BI	2	UPBLAST	38.5	[960]	ASHRAE 90.1	BELT	1750	7.5	7.5	[6]	3	208	1750	VFD	MANUALLY SET THRU BAS	REPLACE EXISTING
1-EF2	2ND FLOOR MECH ROOM	WARD B	MECH EXHAUST	1000	[470]	0.25	[63]	AXIAL SIDEWALL	-	-	HORIZONTAL	17	[430]	ASHRAE 90.1	DIRECT	1180	0.14	0.16	[]	1	115	1180	ON/OFF	THRU STAT & ALARM PANEL	

CHILLED WATER COOLING COIL SCHEDULE																																	
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	AIR FLOW		MAX FACE VELOCITY		APD	EAT				LAT				TOTAL CAPACITY	SENSIBLE CAPACITY	CHILLED WATER								REMARKS						
				CFM	[L/s]	FPM	[M/s]		IN WVG	[Pa]	°F	[°C]	°F	[°C]	°F	[°C]			°F	[°C]	MBH	[kW]	MBH	[kW]	FLOW			EWT		LWT		WPD	
																									GPM	[L/s]		°F	[°C]	°F	[°C]	FT	[M]
1-CWC2	2ND FLOOR MECHROOM	WARD B	1-AHU2	13200	[6200]	520	[9]	1.1	[280]	80	[27]	66	[19]	54	[12]	54	[12]	470	[140]	370	[110]	100	[6]	45	[7]	55	[13]	17	[5]	-----			

WATER COOLED CHILLER SCHEDULE																															
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	CAPACITY		MAX KW/TON	MIN COP	MAX IPLV (KW/TON)	EVAPORATOR					CONDENSER					ELECTRICAL				REMARKS								
				TONS	[KW]				FLOW	EWT	LWT	MAX WPD	FOULING FACTOR	FLOW	EWT	LWT	MAX WPD	FOULING FACTOR	POWER MCA	PHASE	VOLT	SPEED CONTROL									
									GPM	[L/S]	°F	[°C]		°F	[°C]	FT	[KPA]		GPM	[L/S]	°F	[°C]		°F	[°C]	FT	[KPA]				
1-WCH2	2ND FLOOR MECH ROOM	WARD B	SCROLL	50	[14]	ASHRAE 90.1	ASHRAE 90.1	ASHRAE 90.1	130	[8]	45	[7]	55	[13]	18	[54]	0.00010	130	[8]	85	[29]	95	[35]	10	[30]	0.00010	218	3	208	-	WITH (4) COMPRESSORS, R410A

COOLING TOWER SCHEDULE																																	
MARK	LOCATION	SERVICE	TOWER TYPE	TOTAL NOMINAL CAPACITY		# CELLS	FLOW RATE EACH CELL		WPD		TEMPERATURE						FAN MOTOR						SUMP HEATER		MAX OPERATING WEIGHT		MAX HEIGHT WITH HANDRAIL		REMARKS				
				TONS	[kW]		GPM	[L/s]			FT	[kPa]	AMBIENT Wb		EWT		LWT		NO	POWER		PHASE	VOLT	RPM	SPEED CONTROL	TYPE	CAPACITY			LB	[kg]	FT	[M]
													°F	[°C]	°F	[°C]	°F	[°C]		HP	[kW]						BTUH	[W]					
1-CT2	ROOF	CONDENSER WATER	OPEN LOOP	50	[14]	1	150	[10]	3.3	[10]	78	[26]	95	[35]	85	[29]	1	3	[2]	3	208	1750	VFD	ELEC	13650	4000	2460	[1100]	9	[3]	WITH BASIN PUMP AND CHEMICAL FREE FILTER, FAN VFD, AND LOW SOUND FAN OPTION		

SOLID SEPARATOR SCHEDULE (SIDE STREAM)											
MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	SIZE		CAPACITY		SIDE STREAM	PUMP (HP)	REMARKS	
				IN	[mm]	GPM	[L/S]				
1-SSR2-A	2ND FLOOR MECH ROOM	1-CT2-A	CENT	2	[50]	65	[4]	YES	[3]	SEE DWG MH606 FOR PUMP AND DETAILS	

HVAC DESIGN DATA												
DESIGN CONDITIONS	SUMMER					WINTER					LOWEST AVERAGE ANNUAL DEWPOINT	
	TEMP		WET BULB TEMP		% HUMIDITY	TEMP		DEWPOINT TEMP		% HUMIDITY		
	°F	[°C]	°F	[°C]		°F	[°C]	°F	[°C]		°F	[°C]
OUTDOOR DESIGN CONDITIONS	90	[32]	72	[22]	53	1	[-17]	0	[-18]	NA	-5	[-21]
INDOOR AREA DESIGN CONDITIONS												
GENERAL ROOMS	72	[22]	63	[17]	50	72	[22]	49	[9]	30		
PATIENT ROOMS	75	[24]	61	[16]	50	78	[26]	53	[12]	30		
DINING AREAS	72	[22]	63	[17]	50	72	[22]	49	[9]	30		
LOUNGE	72	[22]	63	[17]	50	72	[22]	49	[9]	30		
CONFERENCE ROOMS	72	[22]	63	[17]	50	72	[22]	49	[9]	30		
TOILET ROOMS	72	[22]	-		-	78	[26]	-		-		