

VARIABLE FREQUENCY DRIVE SCHEDULE

I.D. NUMBER	LOCATION	SERVICE	CATALOG		ELECTRICAL		DIMENSIONS			WEIGHT	ANCHOR DETAIL	REMARKS
			MFG	MODEL	HP	CURRENT (A)	VOLTAGE	HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)		
VD 1	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	1.5	2.7	460/3/60	31.7	7.6	8.3	90	9/M10-07
VD 2	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	2	3.4	460/3/60	31.7	7.6	8.3	90	9/M10-07 NOT USED
VD 3	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	3	4.8	460/3/60	31.7	7.6	8.3	90	9/M10-07
VD 4	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	5	8.2	460/3/60	31.7	7.6	8.3	90	9/M10-07
VD 5	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	7.5	11	460/3/60	31.7	7.6	8.3	100	9/M10-07
VD 6	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	10	14.5	460/3/60	31.7	7.6	8.3	100	9/M10-07
VD 7	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	15	21	460/3/60	21.5	19.1	12.9	160	9/M10-07
VD 8	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	20	27	460/3/60	21.5	19.1	12.9	160	9/M10-07
VD 9	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	25	34	460/3/60	21.5	19.1	12.9	160	9/M10-07
VD 10	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	30	40	460/3/60	28.2	19.1	12.9	190	9/M10-07
VD 11	TOWER II ROOF	EXHAUST FANS	DANFOSS	VLT HVAC	40	52	460/3/60	28.2	19.1	12.9	190	9/M10-07

NOTES:
 1. ALL VFD'S WITH NEMA 1 WITH 3-CONTRACTOR MANUAL BYPASS;
 2. ALL VFD'S DRIVES FOR AIR HANDLER UNITS, CHILLERS, HOT WATER PUMPS SHALL BE SIZED AND SUPPLIED BY THE EQUIPMENT MANUFACTURER.
 3. ALL VFD'S FOR THE CHILLED WATER PUMPS AND COOLING TOWERS SHALL BE FURNISHED WITH THE CHILLED WATER AND CONDENSER WATER PUMPING PACKAGE.

QUENCH PIPE & INSULATION

I.D. NUMBER	LOCATION	SERVICE	PIPE			INSULATION LAYER II			INSULATION LAYER I		REMARKS
			SIZE	MATERIAL	SCHEDULE	THICK	MATERIAL	JACKET	THICK	MATERIAL	
QV 1	PER FLOOR PLANS	MRI EQ	12"	304 S.S.	10	1"	FIBER	WHITE VP. BARRIER	1"	ARMAFLEX	INSULATION LAYER I & II FOR QUENCH VENT IN THE CEILING SPACE INSULATION LAYER I FOR QUENCH VENT IN THE PIPE SHAFT.
						20K					

STEAM HUMIDIFIERS

SYMBOL	LOCATION	AREA SERVED	CATALOG DATA		AIR		STEAM		DISPERSION TUBE (NO.)	NON-WETTING DISTANCE IN	OPERATING WEIGHT LB	EMERGENCY POWER SUPPLY	REMARKS
			COMPANY NAME	MODEL TYPE	NOMINAL AIR (CFM)	NOMINAL DUCT SIZE (IN x IN)	CAPACITY LB/HR	WORKING PRESS (PSIG)					
H-W15	3RD FLOOR WEST	3RD FLOOR PACU	DRISTEEM	MINI-BANK	450	12X10	10	11	1	10	20	YES	①
H-W16	3RD FLOOR WEST	3RD FLOOR PACU	DRISTEEM	MINI-BANK	550	12X10	12	11	1	10	20	YES	①
H-W17	3RD FLOOR WEST	3RD FLOOR PACU	DRISTEEM	MINI-BANK	850	18X15	18	11	1	10	20	YES	①
H-W18	3RD FLOOR WEST	3RD FLOOR PACU	DRISTEEM	MINI-BANK	500	12X10	10	11	1	10	20	YES	①
H-W19	3RD FLOOR WEST	3RD FLOOR PACU	DRISTEEM	MINI-BANK	300	12X10	9	11	1	10	20	YES	①
H-W20	3RD FLOOR WEST	3RD FLOOR PACU	DRISTEEM	MINI-BANK	275	12X10	8	11	1	10	20	YES	①
H-W21	3RD FLOOR WEST	3RD FLOOR PACU	DRISTEEM	MINI-BANK	400	12X10	10	11	1	10	20	YES	①
H-W22	3RD FLOOR WEST	3RD FLOOR PACU	DRISTEEM	MINI-BANK	400	12X10	10	11	1	10	20	YES	①
H-W23	3RD FLOOR WEST	3RD FLOOR PACU	DRISTEEM	MINI-BANK	450	12X10	10	11	1	10	20	YES	①

① HUMIDIFIER IS PART OF DUCT OVERHEAD SUPPORT SYSTEM.

STEAM MUFFLER SCHEDULE

I.D. NUMBER	LOCATION	SERVICE	CATALOG		STEAM FLOW RATE LBS/HR	SILENCER DISCHARGE TEMP	SILENCER PRESSURE DROP	OPERATING WEIGHT	ANCHORAGE DETAIL	REMARKS
			MFG	MODEL						
SM 1	CHOC NORTH ROOF	STEAM	FLUID KINETICS	EVO 14-48-56	13,800	300	41.6 PSI	500 LBS.	ISAT	

CRAC UNIT SCHEDULE

ID NUMBER	LOCATION	AREA SERVED	MANUFACTURE	MODEL NUMBER	TYPE	SUPPLY FAN			COOLING				ELECTRICAL DATA				OPERATING WEIGHT LBS	ANCHORAGE REFERENCE DETAIL	SPECIAL SEISMIC CERTIFICATION CAN 2-1708A.5	
						BLOWER CFM	EXT S.P. WG	FAN HP	CAPACITY MBH TOTAL	CAPACITY MBH SENSIBLE	TEMP F-DB	HUMIDITY (%)	FLOW RATE (GPM)	EMERGENCY POWER	FLA	OPD				V/PH/HZ
CRAC 1&2	BASEMENT	TELEPHONE SWITCH	LIEBERT	114	CHILLED WATER	16,500	0.5	15	402	340	72	50	87.1	YES	32.6	50	460/3/60	3,000	4/M5.17	YES
REMARKS																				
1. 2-WAY CHILLED WATER CONTROL VALVE						4. VFD PACKAGE						8. PROVIDE WALL MOUNTED REMOTE GRAPHIC CONTROL PANEL								
2. REMOVE ICOM MICROPROCESSOR WITH LARGE GRAPHIC DISPLAY						5. 24" SEISMIC FLOORSTAND						RFI 3964								
3. REMOVE LOCKING DISCONNECT SWITCH						6. DOWNFLOW WITH TURNING VANE CONFIGURATION						Reference RFI for Supply and Return Piping details.								
						7. INFRARED HUMIDIFIER SECTION WITH AUTOFLUSH - 22.1 LBS/HR						A								

RADIOLOGY/EQUIPMENT CHILLER SCHEDULE

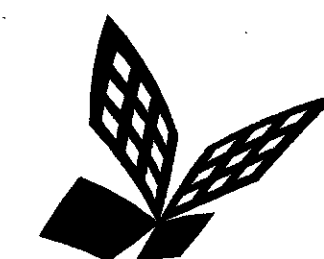
I.D. NUMBER	LOCATION	SERVICE	MFG	MODEL	TYPE	REFRIG. CAPACITY BTU/HR	RATING COOLANT DISCHARGE TEMP. F	CONDITION AMBIENT AIR TEMP. F	TANK CAPACITY GAL.	PUMP		ELECTRICAL DATA				PIPE CONNECTION		OPERATING WEIGHT (LBS)	SOUND LEVEL (DBA)	ANCHOR DETAIL	REMARKS
										HP	CAPACITY	VOLT	PHASE	HERTZ	FULL LOAD AMP	IN	OUT				
CH 1	PANCAKE ROOF	CT-SCAN	FILTRINE	SMS-750G-80-A-WP	R404A	58,045	5	90	95	1-1/4	7 GPM @ 35 PSI	460	3	60	18.8	1-1/4"	1-1/4"	4,000	74	5/M10.09	
CH 2	PANCAKE ROOF	MRI	FILTRINE	SMS-2000-230-A-WP	R404A	163,783	48.2	90	135	5	26 GPM @ 58 PSI	460	3	60	51	2"	2"	6,000	76	4/M10.09	
CH 3	PANCAKE ROOF	MRI	FILTRINE	SMS-2500-270-A-WP (FOR SKYRA W/FIX TABLE)	R404A	214,964	48.2	90	140	5	26 GPM @ 58 PSI	460	3	60	51	2"	2"	6,000	76	4/M10.09	

① DUAL PUMPS: AUTOMATIC SWITCHOVER TO BACK UP PUMP ON LOSS OF COOLANT FLOW.
 ② HIGH TEMPERATURE INTERLOCK: THERMOSTAT LIGHTS A WARNING IF COOLANT TEMPERATURE RISES ABOVE SAFE HIGH LIMIT.
 ③ LOW FLOW INTERLOCK: FLOAT SWITCH LIGHT A WARNING LIGHT IF FLOW RATE DROPS BELOW SAFE LOW LIMIT.
 ④ BAC NET CONNECTION FOR THE EMS MONITORING

STEAM HUMIDIFIERS

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			COMPANY NAME	MODEL TYPE	NOMINAL AIR (CFM)	NOMINAL DUCT SIZE (IN x IN)	CAPACITY LB/HR	WORKING PRESS (PSIG)					
H-E1	1ST FLOOR EAST	1ST FLOOR EAST	DRISTEEM	MAXI-BANK 5-50	1,250	20X18	31	11	5	10	41	YES	①
H-E2	1ST FLOOR EAST	1ST FLOOR EAST	DRISTEEM	MAXI-BANK 5-50	1,250	20X18	31	11	5	10	41	YES	①
H-W1	1ST FLOOR WEST	1ST FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	1,200	20X18	31	11	5	10	41	YES	①
H-W2	1ST FLOOR WEST	1ST FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	1,200	20X18	31	11	5	10	41	YES	①
H-W3	1ST FLOOR WEST	1ST FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	1,000	20X18	31	11	5	10	41	YES	①
H-W4	1ST FLOOR WEST	1ST FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	1,000	20X18	31	11	5	10	41	YES	①
H-W5	1ST FLOOR WEST	1ST FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	1,100	20X18	31	11	5	10	41	YES	①
H-W6	1ST FLOOR WEST	1ST FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	1,100	20X18	31	11	5	10	41	YES	①
H-E3	3RD FLOOR EAST	3RD FLOOR PROCEDURE GI ENDO	DRISTEEM	MAXI-BANK 5-50	1,400	20X18	31	11	5	10	41	YES	①
H-E4	3RD FLOOR EAST	3RD FLOOR PROCEDURE GI ENDO	DRISTEEM	MAXI-BANK 5-50	1,400	20X18	31	11	5	10	41	YES	①
H-E5	3RD FLOOR EAST	3RD FLOOR PROCEDURE ROOM	DRISTEEM	MAXI-BANK 5-50	1,400	20X18	31	11	5	10	41	YES	①
H-E6	3RD FLOOR EAST	3RD FLOOR PROCEDURE ROOM	DRISTEEM	MAXI-BANK 5-50	1,400	20X18	31	11	5	10	41	YES	①
H-E7	3RD FLOOR EAST	3RD FLOOR PROCEDURE ROOM	DRISTEEM	MAXI-BANK 5-50	1,400	20X18	31	11	5	10	41	YES	①
H-W7	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	4,500	38x18	91	11	5	10	51	YES	①
H-W8	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	4,500	38x18	91	11	5	10	51	YES	①
H-W9	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	2,500	24x18	51	11	5	10	45	YES	①
H-W10	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	3,080	38x18	61	11	5	10	45	YES	①
H-W11	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	3,000	38x18	61	11	5	10	41	YES	①
H-W12	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	3,000	24x18	61	11	5	10	45	YES	①
H-W13	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	3,000	24x18	61	11	5	10	45	YES	①
H-W14	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	2,500	24x18	51	11	5	10	45	YES	①
H-W15	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	2,500	24x18	51	11	5	10	45	YES	①
H-W16	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	2,500	24x18	51	11	5	10	45	YES	①
H-W17	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	2,500	24x18	51	11	5	10	45	YES	①
H-W18	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	2,500	24x18	51	11	5	10	45	YES	①
H-W19	3RD FLOOR WEST	3RD FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	2,000	24x18	41	11	5	10	45	YES	①
H-W20	4TH FLOOR WEST	4TH FLOOR WEST	DRISTEEM	MAXI-BANK 7-60	10,000	48x24	192	11	3	35	80	YES	①
H-W21	4TH FLOOR WEST	4TH FLOOR WEST	DRISTEEM	MAXI-BANK 7-60	9,500	48x24	182	11	3	35	80	YES	①
H-W22	4TH FLOOR WEST	4TH FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	5,000	40x14	102	11	3	29	43	YES	①
H-W23	4TH FLOOR WEST	4TH FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	6,000	26x24	115	11	3	40	75	YES	①
H-W24	4TH FLOOR WEST	4TH FLOOR WEST	DRISTEEM	MAXI-BANK 5-50	9,000	48x24	182	11	3	35	80	YES	①
H-E1	5TH FLOOR EAST	5TH FLOOR EAST	DRISTEEM	MAXI-BANK 5-50	11,000	50X20	211	11	3	35	80	YES	①
H-E2	5TH FLOOR EAST	5TH FLOOR EAST	DRISTEEM	MAXI-BANK 5-50	9,000	50X20	173	11	3	35	77	YES	①
H-E3	5TH FLOOR EAST	5TH FLOOR EAST	DRISTEEM	MAXI-BANK 5-50	11,000	56X22	211	11	3	35	77	YES	①
H-E4	5TH FLOOR EAST	5TH FLOOR EAST	DRISTEEM	MAXI-BANK 5-50	8,000	54X20	164	11	3	35	77	YES	①

① HUMIDIFIER IS PART OF DUCT OVERHEAD SUPPORT SYSTEM.



FKP Architects

ARCHITECT OF RECORD

*Architect of Record signature line only; this drawing was not prepared under the direct supervision of the Architect of Record. The direct responsibility for preparation of this sheet lies with its corresponding professional stamp and signature. The signature of the Architect of Record in general responsible charge of the project is provided as required by Title 24, Part 9, Section 7-115 (a).

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Changes on these drawings do not consist of materially altered changes to approved drawings and don't require a change order.
 OSHPD review ACO
 OSHPD review FLSO
 OSHPD review DSE

REVISIONS

1	05/28/2010	ASI #8
2	05/19/2010	CHANGE ORDER #11
3	10/10/2010	CHANGE ORDER #69
4	03/28/2011	CHANGE ORDER #161
5	06/27/2011	CHANGE ORDER #229
6	11/02/2011	CHANGE ORDER #271
7	01/23/2012	