

**AIR HANDLING UNIT SCHEDULE**

CODE (A/H)	AREA SERVED	LOCATION	MANUFACTURER/ MODEL NO.	SUPPLY FAN				PREHEATING CAP (HEATING WATER)				COOLING CAPACITY (CHILLED WATER)				REHEATING CAP (HEATING WATER)				FILTER		ELECTRICAL		AMP CONFIG	WEIGHT (LB.)	REMARKS								
				CFM	TYPE	ESP "W.C. (A/L)	HP	MIN OAI (CFM)	EAT (F)	CAP MBH	WPD (FT)	APD "W.C.	EAT (F)	TOTAL MBH	SENS MBH	GPM	WPD (FT)	APD "W.C.	EAT (F)	CAP MBH	GPM	WPD (FT)	APD "W.C.				TYPE	APD ("W.C.)		VOL	PH			
																												INITIAL	FINAL					
																												UB	WB					
AC-SC-2	VAV UNIT	SUB-CELLAR	TRANE/MC3B008	3,150	VAV	2.40	1.0	5	1,300													ANGLED	0.54	0.54	200	3	HORZ	1,907.00	A					
AC-SC-3	SUITE	SUB-CELLAR	TRANE/BCHD072	1,650	CV	2.14	1	1	675													ANGLED	0.54	0.54	200	3	HORZ	274.2	A					
AC-C-1	DISC/REHAB	CELLAR	TRANE/MC3B003	1,000	CV	3.17	1	1	460													ANGLED	0.51	0.51	200	3	HORZ	1,481.00	A					
AC-C-2	CORRIDOR	CELLAR	TRANE/BCHD018	475	CV	1.85	1	0.5	75													ANGLED	0.51	0.51	200	3	HORZ	112.1	A					
AC-C-3	BOYS LOCKER	CELLAR	TRANE/MC3B003	775	CV	1.86	1	1	775	0	45.7	4.8	2.4	0.03	95	75	52.7	33.7	11.4	10	0.26	55	40.7	4.3	1	0.03	ANGLED	0.51	0.51	200	3	HORZ	1,416.70	A
AC-C-4	GIRL LOCKER	CELLAR	TRANE/MC3B003	775	CV	1.88	1	1	775	0	45.7	4.8	2.4	0.03	95	75	52.7	33.7	11.4	10	0.26	55	40.7	4.3	1	0.03	ANGLED	0.51	0.51	200	3	HORZ	1,416.70	A
AC-1-1	GYM HALL	1ST FLOOR	TRANE/MC3B008	3,950	CV	2.73	1	5	850													ANGLED	0.54	0.54	200	3	HORZ	1,893.80	A					
AC-1-2	RECEPTION	1ST FLOOR	TRANE/BCHD036	1,400	CV	2.11	1	1	50													ANGLED	0.51	0.51	200	3	HORZ	175.8	A					
AC-1-3	CLASS RM 3	1ST FLOOR	TRANE/BCHD036	1,150	CV	2.39	1	1.5	1150	0	47.8	7.1	10.4	0.06	95	75	75.7	50.1	17.1	17.1	0.7	52	22.2	7.4	0	0.1	ANGLED	0.52	0.52	200	3	VERT	1,027.00	A
AC-2-1	CLASS RM 1	2ND FLOOR	TRANE/BCHD072	2,000	CV	1.24	0	0	0													ANGLED			200	3	HORZ	250.2	A					
AC-2-2	CLASS RM 2	2ND FLOOR	TRANE/BCHD072	1,800	CV	1.00	0.0	0.0	0													ANGLED			200	3	HORZ	290.2	A					
AC-2-3	CLASS RM 3	2ND FLOOR	TRANE/BCHD036	1,150	CV	2.12	0	0	0													ANGLED			200	3	HORZ	175.8	A					
AC-2-4	CLASS RM 4	2ND FLOOR	TRANE/BCHD018	525	CV	1.43	0.0	0.5	0													ANGLED			200	3	HORZ	103.8	A					
AC-2-5	CORRIDOR	2ND FLOOR	TRANE/BCHD018	300	CV	1.12	0.0	0.5	150													ANGLED			200	3	HORZ	103.1	A					
AC-2-6	OFFICE/ADMIN	2ND FLOOR	TRANE/BCHD072	1,950	CV	1.50	0	1	225													ANGLED			200	3	HORZ	240.0	A					

**IC/N**

**GENERAL NOTES**

1. CHILLED WATER: EWT = 45 F, LWT = 55 F, 30% PROPYLENE GLYCOL, 0.0005 FOULING FACTOR.
2. HEATING WATER: EWT=180 F, LWT=160 F, 30% PROPYLENE GLYCOL, 0.0005 FOULING FACTOR.
3. PROVIDE DUCT SMOKE DETECTORS IN THE SUPPLY AND RETURN AIR OF ALL UNITS 2000 CFM OR GREATER. RE: SPECIFICATIONS.
4. PROVIDE FREEZE STAT DOWNSTREAM OF HEATING COIL.
5. PROVIDE HIGH EFFICIENCY MOTORS (RELIANCE E+ OR EQUIVALENT)
6. INSTALL UNITS WITH ADEQUATE CLEARANCE FOR COIL PULL, FILTER REPLACEMENT AND TO FULLY OPEN ACCESS DOORS.
7. PROVIDE A COMPLETE SET OF FILTERS FOR ALL UNITS.

**REMARKS**

1. PROVIDE CONDENSATE PUMP AT UNIT AND PIPE TO NEAREST FLOOR DRAIN OR INDIRECT WASTE.

FAN SCHEDULE													CTRL	WEIGHT LBS.	REMARKS
CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	TYPE	CFM	ESP "W.C. (A/L)	DRIVE	ELECTRICAL			REMARKS				
								HP	VOLT	PH					
RF-SC-1	GREENHECK/BDF-120	SUB-CELLAR	CELLING	CABINET	3,600	1	B	2	200	3	142	A			
FX-SC-1	GREENHECK/BDF-80	CLASSROOM	CELLING	TRULINE	800	0.75	B				A,B				
F-SC-1	GREENHECK/BDF-80	CORRIDOR/STAIR WY	CELLING	CABINET	1,290	0.20	B	0.5	200	3	91	A,B			
GX-SC-1	GREENHECK/BDF-90	POOL EQUIP EXHAUST	CELLING	CABINET	500	0.75	B	0.30	115	1	71	A			
GX-SC-2	GREENHECK/BDF-90	KILN EXHAUST	CELLING	CABINET	1,400	1	B	0.70	200	3	91	A			
RF-C-1	GREENHECK/BDF-80	BOY'S LOCKER	CELLING	CABINET	1,000	1	B	0.5	200	3	70	A			
TX-C-1	GREENHECK/BDF-100	BATHROOM	CELLING	CABINET	1,800	1	B	1	200	3	106	A			
RF-1-1	GREENHECK/BDF-80	GYM HALL	CELLING	CABINET	850	0.5	B	0.30	200	3	106	A,B			
RF-1-2	GREENHECK/BDF-80	2ND FLOOR	CELLING	CABINET	800	1	B	0.30	200	3	70	A			
TX-1-1	GREENHECK/BDF-100	EXHAUST	CELLING	CABINET	300	0.75	B	0.20	115	1	80	A			
RF-2-1	GREENHECK/BDF-100	OFFICE/ADMIN	CELLING	CABINET	1,900	0.75	B	0.70	200	3	90	A			
TX-2-1	GREENHECK/BDF-100	BATHROOM	CELLING	CABINET	500	0.5	B	0.20	115	1	80	A			

**GENERAL NOTES**

1. DRIVE TYPE: D-DIRECT-PROVIDE VFD/STAD SPEED CONTROLLER IN FAN HOUSING UNLESS OTHERWISE NOTED. B-BELT-PROVIDE ADJUSTABLE SHEAVE UNLESS OTHERWISE NOTED. VFD-VARIABLE FREQUENCY DRIVE.
2. PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE UNITS EXCEPT WHEN SERVED FROM MOTOR CENTER.
3. PROVIDE HIGH EFFICIENCY MOTORS. (RELIANCE E+ OR EQUIVALENT)
4. INSTALL FAN WITH FLEXIBLE CONNECTIONS AT DUCT INLET AND OUTLET AND WITH HANGING VIBRATION ISOLATORS.
5. PROVIDE BACKDRIFT DAMPERS ON ALL FANS EXCEPT KITCHEN EXHAUST.

HEAT EXCHANGER SCHEDULE										
CODE	MANUFACTURER/ MODEL NO.	SERVICE	CAPACITY MBH	FLUID	COLD		HOT		REMARKS	
					GPM	DELTA T	GPM	DELTA T		
HX-1	ALFA LAVAL / SST PLATE AND FRAME		650	WATER	145	9	WATER	60	20	A

**REMARKS**

1. ALL MATERIALS SHALL BE SUITABLE FOR USE WITH CHLORINE

BOILER SCHEDULE H R IC					
CODE	MANUFACTURER/ MODEL NO.	INPUT MBH S.L.	OUTPUT MBH A/L	GPM	REMARKS
B-	WEIL-MCLAIN/688	1,703	1,358	130	80 PSI RATING
B-2	WEIL-MCLAIN/688	1,703	1,358	130	80 PSI RATING

**GENERAL NOTES**

1. LWT = 180 F
2. WATER CONTAINS 30% PROPYLENE GLYCOL. 3. FUEL TYPE = GAS.

**REMARKS**

1. PROVIDE BELT AND MOTOR GUARD. B. VARIABLE FREQUENCY DRIVE

B SCHEDULE												
CODE	UNIT NO.	AREA SERVED	MANUFACTURER/ MODEL NO.	DESIGN CFM	CAPACITY (CFM)		MAX. NC B. ROW MAX.	INLET SIZE	OUTLET SIZE	CONTROL TYPE	APD (IN.)	REMARKS
					MIN.	MAX.						
VAV-1	AC-SC-2	STUDIO OFFICES	ITTUS /	365	80	500	31	6	12 X 8	DIGITAL	0.25	A,B
VAV-2	AC-SC-2	THEATRE RM	ITTUS /	1000	230	1400	31	10	14 X 12.5	DIGITAL	0.25	A,B
VAV-3	AC-SC-2	CONTROL RM	ITTUS /	300	80	500	31	6	12 X 8	DIGITAL	0.25	A,B
VAV-4	AC-SC-2	ART RM 1	ITTUS /	800	175	1050	26	9	14 X 12.5	DIGITAL	0.25	A,B
VAV-5	AC-SC-2	ART RM 2	ITTUS /	760	175	1050	26	9	14 X 12.5	DIGITAL	0.25	A,B
VAV-6	AC-SC-2	CLASS RM	ITTUS /	1000	230	1400	31	10	14 X 12.5	DIGITAL	0.25	A,B

**GENERAL NOTES**

1. CONTROLS SHALL BE BY MANUFACTURER OR BY CONTROL MANUFACTURER AND INSTALLED AT THE FACTORY (SEE SPECIFICATIONS).
2. MOUNT WITH 5 STRAIGHT DUCT DIAMETERS UPSTREAM OF THE BOX.
4. MAXIMUM NC LEVELS ARE RADIATED SOUND DATA AND BASED ON THE MAXIMUM BOX CFM LISTED AND AT A PRESSURE DROP ACROSS THE BOX OF 1.0". 3. MAXIMUM INLET S.P. = 1.

**REMARKS**

1. PROVIDE CONTROL TRANSFORMER FOR EACH VAV SUITABLE FOR 120 VOLT POWER SUPPLY. B. PROVIDE SOUND ATTENUATOR DOWNSTREAM.

CHILLER SCHEDULE (AIR COOLED)													
CODE	MANUFACTURER/ MODEL NO.	TOTAL NUMBER OF MODULES	CAPACITY		CHILLED WATER DATA				ELECTRICAL			REMARKS	
			NOM (TONS)	ACTUAL (TONS)	EWT (F)	LWT (F)	GPM	WPD (FT)	AMB-T (F)	CHILLER VOLTS	PH		
CH-1	aric chb	4	109.4	1,313	53	45	288	7.6	105	208	3		0.75" STATIC PRESSURE COOLERS/FANS

**GENERAL NOTES**

1. WATER CONTAINS 30% PROPYLENE GLYCOL.

P SCHEDULE												
CODE	MANUFACTURER/ MODEL NO.	SERVICE	LOCATION	PUMP TYPE	GPM	HEAD (FT)	NPSHR (FT)	ELECTRICAL			WEIGHT LBS.	REMARKS
								HP	VOLT	PH		
CHWP-1	TACO F 1511	CHILLED WATER	SUB-CELLAR MECH. ROOM	END-SUCTION	75	115	10	5	208	3	300	A,B,C
CHWP-2	TACO F 1511	CHILLED WATER	SUB-CELLAR MECH. ROOM	END-SUCTION	75	115	10	5	208	3	300	A,B,C
CHWP-3	TACO F 1511	CHILLED WATER	SUB-CELLAR MECH. ROOM	END-SUCTION	75	115	10	5	208	3	300	A,B,C
CHWP-4	TACO F 1511	CHILLED WATER	SUB-CELLAR MECH. ROOM	END-SUCTION	75	115	10	5	208	3	300	A,B,C
CHWP-5	TACO F 1511	CHILLED WATER	SUB-CELLAR MECH. ROOM	END-SUCTION	75	115	10	5	208	3	300	A,B,C
HWP-1	TACO FT 1511	HOT WATER	SUB-CELLAR MECH. ROOM	END-SUCTION	130	110	10	7.5	208	3	280	A,B,C
HWP-2	TACO FT 1511	HOT WATER	SUB-CELLAR MECH. ROOM	END-SUCTION	130	110	10	7.5	208	3	280	A,B,C
PWP-1	MARLOW / 5305C-1/14/7		SUB-CELLAR POOL MECH. ROOM	END-SUCTION	40	30	3.5	1	208	3		

**GENERAL NOTES**

1. PROVIDE MAGNETIC STARTER WITH AUXILIARY CONTACTS AND HOA SWITCH ON ALL THREE PHASE MOTORS.
2. PROVIDE HIGH EFFICIENCY MOTORS. (RELIANCE E+ OR EQUIVALENT)
3. FOR PARALLEL PUMP APPLICATIONS MANUFACTURER SHALL REVIEW SINGLE PUMP OPERATION SUCH THAT PUMP CAN OPERATE AND NOT EXCEED THE DETAILED OPERATION POINT ON THE PUMP CURVE AND MOTOR HP IS PROPERLY SELECTED TO PREVENT OVERLOADING.
4. NPSHR AT SCHEDULED OPERATING POINT SHALL NOT EXCEED 0.8"NPSHA.
5. REFER TO DRAWINGS TO DETERMINE REQUIRED PUMP ROTATION. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING. 6. ALL PUMPS ARE 1750 RPM UNLESS OTHERWISE NOTED.