


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

## AIR HANDLING UNIT SCHEDULE


AHU	UNIT		SUPPLY FAN						RETURN/RELIEF FAN			COOLING SECTION (CHILLED WATER)										HEATING SECTION (STEAM)						FILTER SECTION						REMARKS
	MODEL	WEIGHT (lbs.)	TYPE	MAX ACFM	ESP (in. w.c.)	TSP (in. w.c.)	MOTOR HP	TYPE	MOTOR HP	ESP (in. w.c.)	TOTAL (Mbtuh)	SENSIBLE (Mbtuh)	EAT(°F) (db/wb)	LAT(°F) (db/wb)	ROWS FINS/IN	MAX APD (in. w.c.)	EWT/LWT (°F)	MAX WPD (ft.w.c.)	FLOW (gpm)	TOTAL (Mbtuh)	EAT(°F) (db/wb)	LAT(°F) (db/wb)	ROWS FINS/IN	MAX APD (in. w.c.)	ESP/COND PSI/LB/HR	MAX WPD (ft.w.c.)	TYPE	SUB-TYPE	DEPTH (IN.)	EFFICIENCY	FA (SQ. FT)	VELOCITY (FPM)		
8	JCI SOLUTION 51X78	3,500	DUAL PL	10,004	2	5.3	7.5	DUAL PL	5	0.75	197	197	75.6/56.1	54.1/47.8	3/12	0.3	45/55	4.5	39.2	340	53.2	84.7	1/6	0.08	2/384.8	—	—	HEPA COMBO	PRE FILTER	12	99.97	36	228	CALCULATED FOR 4400 FT ELEVATION. UNIT TO BE DESIGNED FOR 10,004 CFM. ACTUAL CFMS TO BE: SUPPLY 9,504, RETURN 7,322, OSA 2,182
15	EXISTING AMERICAN INC.	—	MECHANOVENT MODEL 363 ARR 3	20,000 NEW 16,717	2	5	25	MECHANOVENT MODEL 303 ARR 3	5	1	329	329	79.5/56.8	49.6/45.0	4/13.5	0.46	45/59.8	9.5	65.8	207	33.1	52.0	1/10	0.23	15/979.1	—	—	HEPA COMBO	PRE FILTER	12	99.97	48	250	CALCULATED FOR 4400 FT ELEVATION.
REMARKS:			B. AHU-15, BALANCE EXISTING AIR-HANDLER TO NEW SPECIFICATIONS. REPLACE EXISTING FAN						MOTORS WITH PREMIUM EFFICIENCY. REPLACE EXISTING VFD'S, SHEEVES, BELTS, FILTERS.																									
A. PRODUCTS OF COMBUSTION DETECTOR																																		

REMARKS:  
A. PRODUCTS OF COMBUSTION DETECTOR  
B. AHU-15, BALANCE EXISTING AIR-HANDLER TO NEW SPECIFICATIONS. REPLACE EXISTING FAN  
MOTORS WITH PREMIUM EFFICIENCY. REPLACE EXISTING VFD'S, SHEEVES, BELTS, FILTERS.

## COMPUTER ROOM AIR HANDLER SCHEDULE

DAC 	MANUFACTURER	MODEL	SEER	SUPPLY FAN				COOLING COIL								FILTERS		ELECTRICAL REQUIREMENTS							OPER. WEIGHT (LBS.)	REMARKS						
				CFM	EXT. S.P. IN. W.C.	MOTOR HP	CONFIGURATION	ENT. AIR TEMP. °F DB/WB	ENT/LV WATER TEMP. (°F)	ROWS FINS/IN.	GPM	FACE		CAPACITY (MBH)		FILTER TYPE, QUANTITY AND SIZE	EFF. %/ MERV	VOLTS	PHASE	HERTZ	FLA	MCA	OPD									
1	NOT USED																															
2	ECOSAIRE	SH030W	—	2000	0.3	0.75	UPFLOW	74.4 58.1	45.0 55.0	4/8	4.3	4.9	408	47.3	46.5	4" PLEATED 2-14X20	60 14	460	3	60	9	10	15	410	SEE NOTES							
3	ECOSAIRE	SH030W	—	2000	0.3	0.75	UPFLOW	74.4 58.1	45.0 55.0	4/8	4.3	4.9	408	47.3	46.5	4" PLEATED 2-14X20	60 14	460	3	60	9	10	15	410	SEE NOTES							
4	ECOSAIRE	CMS030C2	—	1500	0.3	0.75	HORIZONTAL	80 67	45 55	4/8	3	3.6	417	38	57	2" PLEATED 1-24X24	30 7	460	3	60	2	3	15	650	SEE NOTES							
PROVIDE AIR HANDLER COMPLETE WITH THE FOLLOWING OPTIONS/FEATURES: A. DIRECT DRIVE UNIT WITH BI PLUG FANS. B. 2-WAY CHILLED WATER CONTROL VALVE.																C. UNIT MOUNTED CONDENSATE PUMP. D. PC03 MICROPROCESSOR CONTROL SYSTEM. E. FIRESTAT AND SMOKE DETECTOR. F. LOCKING DISCONNECT SWITCH. G. LEAK SENSORS (2 FOR UNIT)										NOTES/GENERAL CONSTRUCTION STANDARDS FOR ALL EQUIPMENT SCHEDULED ABOVE: A. ALL CAPACITIES SHOWN FOR SEA LEVEL. B. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.						

## EXHAUST FAN SCHEDULE

EF 	MFR.	MODEL NUMBER	AIR FLOW (CFM)	TOTAL STATIC PRESSURE (IN. W.C.)	DRIVE	RPM	MINIMUM DIA. OF WHEELS (IN.)	MOTOR					OPERATING WEIGHT (LBS)	REMARKS
								HP	AMPS	VOLTS	PHASE	HZ		
1	COOK	165CPA	1900	1.25	BELT	1279	21	3/4	1.6	460	3	60	398	A, F, H
2	EXIST	—	540	0.25	—	—	—	—	—	—	—	—	—	
3	COOK	100SQN	535	.5	DIRECT	1552	10	1/6	140W	115	1	60	130	D, F, I
4	EXIST	BSQ100	1667	.5	BELT	2247	10	1	2.1	460	3	60	140	
5	COOK	GN—720	610	.25	DIRECT	1243	—	—	211W	115	1	60	45	D, E, F, G, I
6	COOK	GN—862	925	.25	DIRECT	872	—	—	230W	115	1	60	85	D, E, F, G, I
7	EXIST	—	—	—	—	—	—	—	—	—	—	—	—	
8	EXIST	—	—	—	—	—	—	—	—	—	—	—	—	
9	EXIST	—	600	0.375	—	—	—	—	—	—	—	—	—	C
10	DEMO	—	—	—	—	—	—	—	—	—	—	—	—	
11	EXIST	—	1020	0.5	—	—	—	—	—	—	—	—	—	C
12	EXIST	—	540	0.25	—	—	—	—	—	—	—	—	—	C
13	DEMO	—	—	—	—	—	—	—	—	—	—	—	—	
14	DEMO	—	—	—	—	—	—	—	—	—	—	—	—	
15	EXIST	—	530	.375	—	—	—	—	—	—	—	—	—	C
16	COOK	135C10D	1080	.3	DIRECT	942	13.5	—	1/6	115	1	60	135	B, D, E, F, G
17	COOK	90C15DH	275	.3	DIRECT	1218	9	—	1/8	115	1	60	79	B, D, E, F, G
18	COOK	120C10B	650	.375	DIRECT	1032	12	—	1/6	115	1	60	87	B, D, E, F, G
REMARKS														
A. 8" HIGH ROOF CURB B. 12" HIGH ROOF CURB C. BALANCE TO NEW CONDITIONS D. SOLID STATE CONTROL E. DISCONNECT F. BIRDSCREEN G. BACKDRAFT DAMPER H. ROOF CAP I. SPRING ISOLATORS J. RUBBER ISOLATORS														

## SOUND ATTENUATOR SCHEDULE

TAG	VIBRO-ACOUSTICS MODEL	QTY	FAN SYSTEM	FACE DIMENSION W(in) H(in)	LENGTH (in)	FLOW (cfm)	VELOCITY (ft/min)	SILENCER P.D.* (in wg)	P.D. INCL SYSTEM EFFECTS (in wg)	DYNAMIC INSERTION LOSS	NOTES
SA-SI	RD-MHV-FC-115423	1	AHU-8	36 24	72	10000	+1667	0.25	0.25	6 12 21 23 25 18 14 11	1, 2, 3
SA-RT	RD-UHV-F9-115423	1	AHU-8	36 20	60	10000	-2000	0.12	0.12	5 5 13 27 39 33 23 18	1, 2, 3

NOTES:  
1. LENGTH SHOWN FOR ELBOW SILENCERS IS CENTERLINE LENGTH.  
2. VELOCITY SHOWN IS + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-06a  
3. PRESSURE DROP, DYNAMIC INSERTION LOSS AND SELF GENERATED NOISE PER ASTM E477-06a  
4. MAXIMUM PRESSURE DROP WITH SYSTEM EFFECTS = SILENCER PRESSURE DROP PER ASTM E477-06a  
5. SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.  
6. RD = RECTANGULAR DISSIPATIVE  
7. GALVANIZED CONSTRUCTION  
8. PROVIDE, FOR APPROVAL, ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS w/ SILENCERS TO DEMONSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVEL, INCLUDING AIRBORNE AND BREAKOUT NOISE, IN THE OCCUPIED SPACES MEET NC 35-40.

(+/-) THE SYMBOL (+) DESIGNATES FORWARD FLOW AND THE SYMBOL (-) DESIGNATES REVERSE FLOW.  
\* SCHEDULED SILENCER PRESSURE DROP(S) ARE REPORTED IN ACCORDANCE WITH ASTM E477 TEST METHODS. THE PRESSURE DROPS ARE AT IDEAL FLOW CONDITIONS (3-4 DUCT DIAMETERS OF STRAIGHT DUCT ON SILENCER INLET AND 4-5 DUCT DIAMETERS OF STRAIGHT DUCT ON SILENCER OUTLET). LESS THAN IDEAL CONDITIONS WILL RESULT IN INCREASE IN PRESSURE DROP - SEE VA REPRESENTATIVE FOR ASSISTANCE.  
# SILENCER PRESSURE DROP INCLUDING ESTIMATED SYSTEM EFFECTS BASED ON LESS THAN IDEAL INLET AND OUTLET FLOW CONDITIONS.

## SINGLE DUCT TERMINAL UNIT WITH HOT WATER HEAT SCHEDULE

TAG	MODEL	SIZE		CFM		STATIC PRESSURE			NC LEVELS		CFM	MBH	HOT WATER HEATING COIL				WPD	ROWS
		UNIT	OUTLET	MAX	MIN	INLET	DOWN	MIN	RAD.	DISCH.			EAT/LAT	APD	GPM	EWT/LWT		
CAV-01	LMHS	06	12x8	460	460	1	0.25	0.38	18	15	460	14.6	55/90	0.29	0.7	170/130.5	0.2	2
CAV-02	LMHS	06	12x8	445	445	1	0.25	0.36	18	15	445	14.2	55/90	0.27	0.7	170/129.6	0.1	2
CAV-03	LMHS	07	12x10	735	735	1	0.25	0.52	19	15	735	23.4	55/90	0.39	1.2	170/130.3	0.5	2
CAV-04	LMHS	05	12x8	200	200	1	0.25	0.08	13	11	200	6.4	55/90	0.03	0.7	170/150.6	0.3	1
CAV-05*				250	250													
CAV-06	LMHS	04	12x8	120	120	1	0.25	0.06	—	—	120	4.6	55/97	0.01	0.3	170/142	0.1	1
CAV-07	LMHS	06	12x8	350	350	1	0.25	0.23	16	12	350	12.7	55/95	0.18	0.7	170/131.3	0.1	2
CAV-08	LMHS	05	12x8	290	290	1	0.25	0.16	18	18	290	9.2	55/90	0.07	2.5	170/162.7	2.8	1
CAV-09	LMHS	06	12x8	520	520	1	0.25	0.48	21	17	520	16.6	55/90	0.35	0.9	170/134.1	0.2	2
CAV-10	LMHS	07	12x10	700	700	1	0.25	0.48	18	16	700	22.3	55/90	0.36	1.1	170/128.7	0.4	2
CAV-11	LMHS	12	16x15	1450	1450	1	0.25	0.44	17	12	1450	46.2	55/90	0.38	2	170/124.1	0.9	2
CAV-12	LMHS	05	12x8	340	340	1	0.25	0.3	18	18	340	12.8	55/96	0.17	0.7	170/131.7	0.1	2
CAV-13	LMHS	07	12x10	640	640	1	0.25	0.41	17	15	640	20.4	55/90	0.31	0.9	170/125.7	0.3	2
CAV-14	LMHS	08	12x10	800	800	1	0.25	0.55	17	15	800	25.5	55/90	0.46	1.4	170/133.2	0.6	2
CAV-15	LMHS	05	12x8	240	240	1	0.25	0.11	15	14	240	7.6	55/90	0.05	1.1	170/156.7	0.7	1
CAV-16	LMHS	05	12x8	240	240	1	0.25	0.11	15	14	240	7.6	55/90	0.05	1.1	170/156.7	0.7	1
CAV-17	LMHS	12	16x15	1464	1464	1	0.25	0.45	17	12	1464	46.6	55/90	0.39	2	170/124.5	0.9	2
CAV-18	LMHS	06	12x8	370	370	1	0.25	0.26	16	12	370	13	55/94	0.19	0.7	170/130.5	0.1	2
CAV-19	LMHS	06	12x8	380	380	1	0.25	0.27	17	12	380	13.3	55/93	0.2	0.7	170/130.2	0.1	2
CAV-20	LMHS	05	12x8	330	330	1	0.25	0.29	18	18	330	12.4	55/96	0.16	0.7	170/132.2	0.1	2
CAV-21	LMHS	05	12x8	330	330	1	0.25	0.29	18	18	330	12.4	55/96	0.16	0.7	170/132.2	0.1	2
CAV-22	LMHS	05	12x8	330	330	1	0.25	0.29	18	18	330	12.4	55/96	0.16	0.7	170/132.2	0.1	2
CAV-23	LMHS	05	12x8	330	330	1	0.25	0.29	18	18	330	12.4	55/96	0.16	0.7	170/132.2	0.1	2
CAV-24	LMHS	06	12x8	410	410	1	0.25	0.31	17	15	410	22.7	55/90	0.23	2.9	170/150.8	1.7	2
CAV-25	LMHS	06	12x8	440	440	1	0.25	0.35	18	15	440	14	55/90	0.26	0.7	170/129.3	0.1	2
CAV-26	LMHS	06	12x8	440	440	1	0.25	0.35	18	15	440	14	55/90	0.26	0.7	170/129.3	0.1	2
CAV-27	LMHS	06	12x8	375	375	1	0.25	0.26	16	12	375	13.3	55/93	0.2	0.7	170/130.4	0.1	2
CAV-28	LMHS	06	12x8	375	375	1	0.25	0.26	16	12	375	13.3	55/93	0.2	0.7	170/130.4	0.1	2
CAV-29	LMHS	06	12x8	410	410	1	0.25	0.31	17	14	410	13.4	55/91	0.23	0.7	170/129.1	0.1	2
CAV-30	LMHS	07	12x10	530	530	1	0.25	0.29	16	15	530	16.9	55/90	0.22	0.7	170/119.9	0.2	2
CAV-31	LMHS	08	12x10	800	800	1	0.25	0.55	17	15	800	25.5	55/90	0.46	1.4	170/133.2	0.6	2
CAV-32*				680	680													
CAV-33*				720	720													
CAV-34*				630	630													
CAV-35*				400	400													
CAV-36	LMHS	06	12x8	400	400	1	0.25	0.3	17	14	400	13.3	55/92	0.22	0.7	170/129.5	0.1	2
CAV-37	LMHS	06	12x8	340	340	1	0.25	0.14	16	12	340	10.6	55/89	0.09	6.8	170/166.8	15.9	1
CAV-38	LMHS	06	12x8	346	346	1	0.25	0.15	17	14	346	10.8	55/89	0.09	7.7	170/167.2	20.1	1
CAV-39	LMHS	09	14x13	940	940	1	0.25	0.39	15	14	940	29.9	55/90	0.31	1.4	170/126.5	0.4	2
CAV-40	LMHS	07	12x10	700	700	1	0.25	0.48	18	16	700	22.3	55/90	0.36	1.1	170/128.7	0.4	2
CAV-41	LMHS	07	12x10	700	700	1	0.25	0.48	18	16	700	22.3	55/90	0.36	1.1	170/128.7	0.4	2
CAV-42	LMHS	04	12x8	180	180	1	0.25	0.13	17	17	180	5.7	55/90	0.03	0.5	170/145.2	0.1	1
CAV-43	LMHS	04	12x8	165	165	1	0.25	0.11	15	15	165	5.3	55/90	0.02	0.4	170/144.7	0.1	1
CAV-44	LMHS	04	12x8	140	140	1	0.25	0.08	11	11	140	4.8	55/93	0.02	0.3	170/145.0	0.1	1
CAV-45	LMHS	05	12x8	210	210	1	0.25	0.09	13	13	210	6.7	55/90	0.04	0.8	170/152.2	0.3	1
CAV-46	LMHS	05	12x8	220	220	1	0.25	0.1	14	13	220	7	55/90	0.04	0.9	170/153.8	0.4	1
CAV-47	LMHS	07	12x10	520	520	1	0.25	0.28	16	15	520	16.6	55/90	0.21	0.7	170/119.5	0.2	2
CAV-48	LMHS	06	12x8	419	419	1	0.25	0.32	17	14	419	13.5	55/90	0.24	0.7	170/128.8	0.1	2
VAV-01	LMHS	04	12x8	100	100	1	0.25	0.04	—	—	100	4.3	55/102	0.01	0.3	170/143.8	0.1	1
VAV-02	LMHS	05	12x8	220	220	1	0.25	0.1	14	13	220	7	55/90	0.04	0.9	170/153.8	0.4	1
VAV-03*				70	70													
VAV-04*				165	165													
VAV-05	LMHS	04	12x8	95	95	1	0.25	0.04	—	—	95	4.2	55/104	0.01	0.3	170/144.3	0.1	1
VAV-06	LMHS	04	12x8	210	210	1	0.25	0.18	20	21	210	6.7	55/90	0.04	0.8	170/152.2	0.3	1
VAV-07	LMHS	06	12x8	525	525	1	0.25	0.49	21	17	525	16.7	55/90	0.36	0.9	170/134.4	0.2	2
VAV-08	LMHS	07	12x10	650	650	1	0.25	0.42	17	15	650	20.7	55/90	0.32	0.9	170/126.2	0.3	2
VAV-09	LMHS	05	12x8	260	260	1	0.25	0.13	17	15	260	8.3	55/90	0.05	1.5	170/159.3	1.2	1
VAV-10	LMHS	07	12x10	620	620	1	0.25	0.38	17	15	620	19.7	55/90	0.32	0.9	170/124.7	0.3	2
VAV-11	LMHS	04	12x8	85	85	1	0.25	0.03	—	—	85	4	55/107	0.01	0.3	170/145.3	0.1	1
VAV-12	LMHS	04	12x8	100	100	1	0.25	0.04	—	—	100	4.3	55/102	0.01	0.3	170/143.8	0.1	1
VAV-13	LMHS	07	12x10	514	514	1	0.25	0.27	16	15	514	16.5	55/90	0.21	0.7	170/119.7	0.2	2
VAV-14	LMHS	04	12x8	120	120	1	0.25	0.06	—	—	120	4.6	55/97	0.01	0.3	170/142	0.1	1
VAV-15	LMHS	04	12x8	130	130	1	0.25	0.07	10	10	130	4.7	55/95	0.02	0.3	170/141.2	0.1	1
VAV-16	LMHS	07	12x10	510	510	1	0.25	0.17	18	16	510	5.9	55/96	0.11	0.3	170/134.1	0.1	1
VAV-17	LMHS	06	12x8	535	550	1	0.25	0.33	22	18	250	8	55/90	0.2	1.3	170/158	0.9	1
VAV-18*				1200	850													
VAV-19	LMHS	05	12x8	170	100	1	0.25	0.06	10	10	100	4.3	55/102	0.03	0.3	170/143.8	0.1	1
VAV-20	LMHS	04	12x8	140	90	1	0.25	0.08	11	11	90	4.5	55/106	0.02	0.3	170/144.8	0.1	1
VAV-21	LMHS	04	12x8	110	110	1	0.25	0.05	—	—	110	4.5	55/100	0.01	0.3	170/142.8	0.1	1
VAV-22	LMHS	04	12x8	140	90	1	0.25	0.08	11	11	90	4.1	55/106	0.02	0.3	170/144.8	0.1	1
VAV-23	LMHS	04	12x8	140	90	1	0.25	0.08	11	11	90	4.1	55/106	0.02	0.3	170/144.8	0.1	1