

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
three-eighths inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot

V.A.V. TERMINAL SCHEDULE

MARK	PRIMARY AIR			TYPE	MNF	MODEL NO.	PRESSURE		DUCT CONN.		HEATING COIL										NOTES
	MAX. C.F.M.	MIN. C.F.M.	HEATING C.F.M.				DESIGN INLET STATIC IN. W.G.	DESIGN DROP IN. W.G. MAX.	INLET	OUTLET	MAXIMUM TERMINAL HEIGHT (IN)	AIR HANDLING SYSTEM	HOT WATER ELECTRIC	AIR TEMP. ENT./LVG.	CAP. MBH OR KW.	G.P.M.	PRESS. DROP FT. W.G.	WATER TEMP. ENT./LVG.	CONNECTIONS PIPE	MAX. NOISE NC.	
VAV-301	360	230	360	SHUTOFF		DESV-6	1.0	0.3	6	12x8	12x8	2-AHU-2	55/85	11.5	0.75	0.18	180/130	1/2	30	1:2:3:4:5:6:	
VAV-302	500	270	500			DESV-7	1.0	0.27	7	12x8	12x8	2-AHU-2	55/85	15.9	1.0	0.33	180/130	1/2	30	1:2:3:4:5:	
VAV-303	360	300	360			DESV-6	1.0	0.3	6	12x8	12x8	2-AHU-2	55/85	11.5	0.75	0.18	180/130	1/2	30	1:2:3:4:5:	
VAV-304	400	290	400			DESV-6	1.0	0.37	6	12x8	12x8	2-AHU-2	55/85	12.7	0.8	0.15	180/130	1/2	30	1:2:3:4:5:	
VAV-305	330	330	330			DESV-5	1.0	0.22	5	12x8	12x8	2-AHU-2	55/85	10.6	0.7	0.15	180/130	1/2	30	1:2:3:4:5:	
VAV-306	855	380	855			DESV-8	1.0	0.60	8	12x10	12x8	2-AHU-2	55/85	27.0	1.8	1.07	180/130	3/4	30	1:2:3:4:5:	
VAV-307	560	370	560			DESV-7	1.0	0.34	7	12x10	12x8	2-AHU-2	55/85	17.8	1.2	0.47	180/130	3/4	30	1:2:3:4:5:	
VAV-308	220	220	220			DESV-4	1.0	0.16	4	12x8	12x8	2-AHU-3	55/85	7.0	0.5	0.06	180/130	1/2	30	1:2:3:4:5:	
VAV-309	380	330	380			DESV-6	1.0	0.33	6	12x8	12x8	2-AHU-3	55/85	12.1	0.8	0.15	180/130	1/2	30	1:2:3:4:5:	
VAV-310	350	350	350			DESV-6	1.0	0.28	6	12x8	12x8	2-AHU-3	55/85	11.1	0.75	0.18	180/130	1/2	30	1:2:3:4:5:	
VAV-311	290	290	290			DESV-6	1.0	0.34	6	12x8	12x8	2-AHU-3	55/85	9.2	0.6	0.11	180/130	1/2	30	1:2:3:4:5:6:	
VAV-312	330	330	330			DESV-6	1.0	0.26	6	12x8	12x8	2-AHU-3	55/85	10.6	0.7	0.16	180/130	1/2	30	1:2:3:4:5:	
VAV-313	410	275	410			DESV-6	1.0	0.39	6	12x8	12x8	2-AHU-3	55/85	13.0	0.9	0.20	180/130	1/2	30	1:2:3:4:5:6:	
VAV-314	370	330	370			DESV-6	1.0	0.31	6	12x8	12x8	2-AHU-3	55/85	11.8	0.8	0.20	180/130	1/2	30	1:2:3:4:5:	
VAV-315	500	300	500			DESV-7	1.0	0.27	7	12x10	12x8	2-AHU-3	55/85	15.9	1.2	0.47	180/130	3/4	30	1:2:3:4:5:	
VAV-316	270	230	270			DESV-5	1.0	0.14	5	12x8	12x8	2-AHU-3	55/85	8.6	0.6	0.08	180/130	1/2	30	1:2:3:4:5:	
VAV-317	230	210	230			DESV-5	1.0	0.10	5	12x8	12x8	2-AHU-3	55/85	7.3	0.5	0.06	180/130	1/2	30	1:2:3:4:5:6:	
VAV-318	390	290	390			DESV-6	1.0	0.34	6	12x8	12x8	2-AHU-3	55/85	12.4	0.8	0.20	180/130	1/2	30	1:2:3:4:5:	
VAV-319	200	200	200			DESV-4	1.0	0.14	4	12x8	12x8	2-AHU-3	55/85	6.4	0.5	0.06	180/130	1/2	30	1:2:3:4:5:	
VAV-320	350	160	350			DESV-6	1.0	0.28	6	12x8	12x8	2-AHU-3	55/85	11.1	0.75	0.18	180/130	1/2	30	1:2:3:4:5:	
VAV-321	260	110	260			DESV-5	1.0	0.12	5	12x8	12x8	2-AHU-3	55/85	8.1	0.6	0.08	180/130	1/2	30	1:2:3:4:5:	
VAV-322	370	120	370			DESV-6	1.0	0.31	6	12x8	12x8	2-AHU-3	55/85	9.8	0.5	0.06	180/130	1/2	30	1:2:3:4:5:	
VAV-323	260	260	260			DESV-5	1.0	0.13	5	12x8	12x8	2-AHU-3	55/85	8.3	0.6	0.08	180/130	1/2	30	1:2:3:4:5:	
VAV-324	640	370	640			DESV-7	1.0	0.45	7	12x10	12x8	2-AHU-3	55/85	11.8	0.8	0.21	180/130	1/2	30	1:2:3:4:5:	
VAV-325	1440	270	1440			DESV-10	1.0	0.72	10	14x12	12x8	2-AHU-3	55/85	45.8	3.0	1.50	180/130	1	30	1:2:3:4:5:	
VAV-326	620	260	620			DESV-7	1.0	0.44	7	12x10	12x8	2-AHU-3	55/85	19.7	1.3	0.60	180/130	3/4	30	1:2:3:4:5:	
VAV-327	330	90	330			DESV-5	1.0	0.21	5	12x8	12x8	2-AHU-3	55/85	10.4	0.7	0.12	180/130	1/2	30	1:2:3:4:5:	
VAV-328	390	260	390			DESV-6	1.0	0.34	6	12x8	12x8	2-AHU-3	55/85	12.4	0.8	0.15	180/130	1/2	30	1:2:3:4:5:	
VAV-329	360	300	360			DESV-6	1.0	0.30	6	12x8	12x8	2-AHU-3	55/85	11.4	0.8	0.15	180/130	1/2	30	1:2:3:4:5:	
VAV-330	490	290	490			DESV-6	1.0	0.55	6	12x8	12x8	2-AHU-3	55/85	15.5	1.2	0.34	180/130	3/4	30	1:2:3:4:5:	
VAV-331	260	230	260			DESV-5	1.0	0.13	5	12x8	12x8	2-AHU-3	55/85	8.3	0.6	0.08	180/130	1/2	30	1:2:3:4:5:6:	
VAV-332	330	330	330			DESV-5	1.0	0.22	5	12x8	12x8	2-AHU-3	55/85	10.6	0.7	0.09	180/130	1/2	30	1:2:3:4:5:	

NOTES:
1. MAXIMUM AIR PRESSURE DROP FOR TERMINAL IS SUM OF DESIGN DROP AND COIL DROP AT MAXIMUM C.F.M.
2. N.C. LEVEL BASED ON 10dB ROOM ABSORPTION, RE RAISED TO THE -12 WATTS.
3. PRIMARY AIR VALVE C.F.M. SHALL NOT EXCEED MANUFACTURER'S "NOMINAL C.F.M."
4. HEATING COIL LVG TEMPERATURE IS AT HEATING C.F.M.
5. MINIMUM ALLOWED HEATING WATER FLOW IS 0.5 G.P.M.
6. PROVIDE WITH 3-WAY HEATING WATER CONTROL VALVE.

DUCT MOUNTED REHEAT COIL SCHEDULE

MARK	DUCT SIZE INCHES	MAX AIR FRICTION IN WC	WINTER PERFORMANCE				PIPE SIZE INCHES		NOTES		
			CFM	EAT * F	EWI * F	LWT * F	GPM	WPD/FT		S	R
RHC-01	12x10	0.57	540	55/80	180	150	1.0	0.6	3/4"	3/4"	1:
RHC-02	6x6	0.20	100	55/80	180	169	0.5	0.15	3/4"	3/4"	1:

NOTES:
1. 1/2" BOOSTER COILS RATED IN CONFORMANCE WITH ARI STANDARD 410.

DUCT PRESSURE AND SEAL CLASS

DESCRIPTION	PRESSURE CLASS	SEAL CLASS
2-AHU-3 RETURN	1" NEGATIVE	A
2-AHU-3 SUPPLY ON ROOF	4" POSITIVE	A
2-AHU-3 SUPPLY RISER	3" POSITIVE	A
2-AHU-3 OTHER MEDIUM PRESSURE	2" POSITIVE	A
ALL LOW PRESSURE SUPPLY	1/2" POSITIVE	A
2-EF-3-1 & -2	3" NEGATIVE	A
2-EF-9	2" NEGATIVE	A
2-EF-10	NEGATIVE	A

FAN SCHEDULE

MARK	MAX CFM	MIN CFM	E.S.P. IN. W.G.	MNF	MODEL NO.	MAX. OPER. WEIGHT (LBS)	MAX. TIP SPEED (F.P.M.)	MAX. NOISE dBA	DRIVE ACCESSORIES				GENERAL NOTE: MARK SF=SUPPLY FAN MARK EF=EXHAUST FAN MARK RF=RETURN FAN	
									DIRECT COUPLER	GRANITE DAMPER	ELECTRIC DAMPER	BIRD SCREEN		
2-EF-3-1	2,350	2,350	1.75	*	SKYPLUME	2.0	2,155	8,251	52	*	*	*	*	1:2:3:
2-EF-3-2	2,350	2,350	1.75	*	G1-ELFHV-18	2.0	2,155	8,251	52	*	*	*	*	1:2:3:
2-EF-9	1600	1600	0.45	*	SWB-215-3	1/3	251	4,193	59	*	*	*	*	1:
2-EF-10	3115	3115	4.50	*	SWB-215-50	5.0	335	10,022	75	*	*	*	*	1:

NOTES:
1. CFM INCLUDES DUCT LEAKAGE ALLOWANCE. BALANCE TO CONNECTED LOADS.
2. UP-BLAST REDUNDANT FANS WITH ROOF-TOP BY-PASS DAMPER AND OUTSIDE (BY-PASS) AIR INLET THAT ALLOWS FANS TO OPERATE FULL FLOW AND DISCHARGE VELOCITY WHILE SPACE EXHAUST IS REDUCED. SEE CONTROL SHEETS.
9. SCHEDULED CFM IS CONSTANT FLOW TO MAINTAIN PLUME HEIGHT. BALANCE FLOW FROM EXHAUST TERMINALS TO 695 CFM.

AIR FLOW CONTROL VALVES

VALVE NO.	MNF	TYPE	MODEL NO FOR BASIS OF DESIGN.	SERVING ROOM NO.	SIZE (IN.)	AIR FLOW C.F.M.		PRESSURE OPERATING RANGE IN W.G.	MAXIMUM AIR LOSS IN W.G.	NOTES
						MAX.	MIN.			
EV-01	*	CONSTANT	HEVA112L-ALNHZ-PSL	ISOLATION ROOM - 3114		695	695	0.3 TO 3.0		1:
SV-01	*	CONSTANT	HSVA112L-ALEHZ-PSL	ISOLATION ROOM - 3114		540	540	0.3 TO 3.0		1:
SV-02	*	SUPPLY	HSVA108L-ALEHZ-PSL	ANTE ROOM - 3112		100	100	0.3 TO 3.0		1:

NOTES:
1. EACH VALVE SHALL HAVE WIRE FRAMING AROUND TO ALLOW WRAPPING WITH ACOUSTICAL LAGGING WITHOUT INTERFERENCE WITH THE FULL RANGE OF MOTION OF THE ACTUATOR AND ITS LINKAGE. ACOUSTICAL LAGGING SHALL BE 1 PSF LOADED VINYL SEPTUM WITH 2 PCF 2" THICK FIBERGLASS.

AIR DEVICE SCHEDULE

MARK	SIZE		TYPE	MNF	MODEL NO.	MATERIAL	FINISH	ACCESSORIES	MOUNTING	MTG HT.	THROW	MAX. NC.	MAX. LOSS IN. W.C.	NOTES
	FACE	NECK												
A	48" L	10"	DIFFUSER		EOS-ST	STEEL (ST)	ALL STAINLESS STEEL	CLR BY ARCH	PAR BLADE DAMPER			20	0.07	2:
B	14x12	12x10	GRILLE		350 FL	ALUMINUM (AL)	OFF WHITE	PRIMER	PAR BLADE DAMPER			15	0.06	1:2:
C	24" L	6"	GRILLE		EOS-ST	STEEL (ST)	ALL STAINLESS STEEL	CLR BY ARCH	PAR BLADE DAMPER			24	0.11	2:
D	22x12	20x10	GRILLE		350 FL	ALUMINUM (AL)	OFF WHITE	PRIMER	PAR BLADE DAMPER			25	0.09	1:2:
E	24x24	6"	GRILLE		TMS	STEEL (ST)	ALL STAINLESS STEEL	CLR BY ARCH	PAR BLADE DAMPER			-	0.03	2:
F	16x12	14x10	GRILLE		350 FL	ALUMINUM (AL)	OFF WHITE	PRIMER	PAR BLADE DAMPER			22	0.09	1:2:
G	12x12	6"	GRILLE		TMS	STEEL (ST)	ALL STAINLESS STEEL	CLR BY ARCH	PAR BLADE DAMPER			10	0.03	2:
H	24x24	10"	GRILLE		TMS	STEEL (ST)	ALL STAINLESS STEEL	CLR BY ARCH	PAR BLADE DAMPER			17	0.05	2:
J	12x10	10x8	GRILLE		350 FL	ALUMINUM (AL)	OFF WHITE	PRIMER	PAR BLADE DAMPER			13	0.06	1:2:
K	12x8	10x6	GRILLE		350 FL	ALUMINUM (AL)	OFF WHITE	PRIMER	PAR BLADE DAMPER			18	0.08	1:2:
L	14x12	12x10	GRILLE		350 FL	ALUMINUM (AL)	OFF WHITE	PRIMER	PAR BLADE DAMPER			15	0.06	1:2:
M	24x24	22x22	GRILLE		50F	STEEL (ST)	ALL STAINLESS STEEL	CLR BY ARCH	PAR BLADE DAMPER			10	0.02	1:2:
N	12x6	10x4	GRILLE		350 FL	ALUMINUM (AL)	OFF WHITE	PRIMER	PAR BLADE DAMPER			10	0.05	1:2:
P	12x12	10x10	GRILLE		50F	STEEL (ST)	ALL STAINLESS STEEL	CLR BY ARCH	PAR BLADE DAMPER			10	0.01	1:2:
Q	8x6	6x4	GRILLE		350 FL	ALUMINUM (AL)	OFF WHITE	PRIMER	PAR BLADE DAMPER			10	0.05	1:2:

NOTES:
1. PAINT FLAT BLACK INTERIOR DUCT SURFACES VISIBLE FROM OUTSIDE THE GRILLE.
2. PROVIDE DUCT MOUNTED BALANCING DAMPER ON ALL GRILLES AND DIFFUSERS IN ADDITION TO DAMPER MOUNTED ON GRILLE/DIFFUSER. IN CASES WHERE ONLY ONE OUTLET IS CONNECTED TO VAV TERMINAL DAMPER IS NOT REQUIRED.

PRESSURE POWERED CONDENSATE PUMPS SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION (ROOM)	LIFT (FT)	CONDENSATE FLOW RATE (GPM)	MOTIVE PRESSURE (PSIG)	RECEIVER (GAL)	OUTLET PIPE SIZE (IN)	MOTIVE PIPE SIZE (IN)	NOTES
PPP-3	SHIPCO	FLOT 1X1	PENTHOUSE	20	2	50	NONE	1"	1/2"	

NOTES:

HUMIDIFIER SCHEDULE

MARK	MNF	TYPE	HEAT SOURCE	STEAM INPUT	MAX. C.F.M.	HUMIDIFICATION LB/HR	ACCESSORIES		NOTES
							AIR FLOW SWITCH	HIGH LIMIT HUMIDISTAT	
2-H-3	DRISTEEM NEPTRONIC	STEAM ULTRASOUND	ELECTRIC	15 PSI	33,500	250	*	*	1 1/2" 1" 1:2:3:4:

NOTES:
1. PER SPECIFICATION PROVIDE UNIT. COMPLETE WITH ACCESSORIES, FILL VALVE, CONTROL VALVE STEAM TRAP, ETC.
2. SIZE HUMIDIFICATION STEAM LINE FROM HUMIDIFIER TO AIR HANDLING UNIT PER HUMIDIFIER MANUFACTURER'S REQUIREMENTS. INSULATE WITH 2" MINIMUM FIBERGLASS INSULATION AND ALUMINUM JACKET.
3. PROVIDE WITH MANUFACTURER'S WEATHER PROOF HEATED ENCLOSURE.
4. PROVIDE WITH MANUFACTURER'S CONTROLS AS SPECIFIED.

AIR HANDLING UNIT SCHEDULE

MARK	TYPE	MNF	MODEL SERIES	SUPPLY FAN				MOTOR		RETURN/RELIEF FAN				MOTOR				COOLING COIL				HEATING COIL				HUMIDIFIER				MAXIMUM SOUND POWER DATA RE 10 WATTS OCTAVE BAND CENTER FREQUENCY HZ SUPPLY AND RETURN							
				MAX. C.F.M.	MIN. C.F.M.	MIN O.A. C.F.M.	TYPE	RPM	H.P.	R.P.M.	MAX. C.F.M.	MIN. C.F.M.	TYPE	RPM	H.P.	R.P.M.	TOTAL MBH CLG	MIN. FACE AREA SQ.FT.	E.A.T. °F	W.B. °F	L.A.T. °F	W.B. °F	E.A.T. °F	L.A.T. °F	STEAM PRESSURE 15 PSIG STEAM	STEAM (LB/HR)	AIR FRICTION IN. W.G.	TYPE	HEAT SOURCE	HUMIDIFICATION LB/HR	AIR FLOW SWITCH	HIGH LIMIT HUMIDISTAT	W				