

UNIT NUMBER	LOCATION	MOUNTING	CFM	FAN S.P. (IN-WG)	FAN SPEED (RPM)	AMCA CLASS	FAN TYPE	FAN CONTROL		MOTOR DATA @ 60 HZ				EQUIPMENT INTERLOCK	BASIS OF DESIGN MANUFACTURER & MODEL	KEY NOTES SEE BELOW	INTEGRATION FIRE ALARM	EMERGENCY POWER	
								DRIVE (DIRECT/BELT)	OUTPUT HZ AT DESIGN SPEED	DUTY HP (BHP)	MIN MHP	SPEED AT 60HZ (RPM)	VOLTS						PHASE
EF-1	STAFF BREAK 142	INLINE	1275	0.75	1673	I	CENTRIFUGAL	BELT	60	0.409	0.5	1725	115	1	AHU-1,2	COOK - SQN-B	1,2,3,4	YES	NO
EF-2	RECEIVING 150	INLINE	725	0.75	2224	I	CENTRIFUGAL	BELT	60	0.341	0.5	1725	115	1	AHU-2,3	COOK - SQN-B	1,2,3,5	YES	NO
OAF-1-1	MECH 114A	INLINE	1225	0.375	1461	I	CENTRIFUGAL	BELT	60	0.256	0.33	1725	115	1	AHU-1	COOK - SQN-B	1,2,3,6	YES	NO
OAF-2-1	MECH 149A	INLINE	1350	0.5	2703	I	CENTRIFUGAL	BELT	60	0.663	0.75	3450	208	3	AHU-2	COOK - SQN-B	1,2,3,7	YES	NO
OAF-3-1	MECH 150A	INLINE	900	0.375	2301	I	CENTRIFUGAL	BELT	60	0.355	0.5	3450	115	1	AHU-3	COOK - SQN-B	1,2,3,8	YES	NO

1. PROVIDE WITH BELT TENSIONER.
2. PROVIDE WITH BACKDRAFT DAMPER.
3. PROVIDE WITH INTEGRAL STARTER & DISCONNECT SWITCH.
4. BASIS OF DESIGN IS COOK WITH GREENHECK AS AN ACCEPTABLE MFR

IDENTITY	CFM RANGE (1)	BOX INLET SIZE (2)	DUCT RUNOUT SIZE (3-4)	INLET S.P. (N.W.G.) (5)	E.A.T. (°F) (6)	L.A.T. (°F) (7)	ELECTRICAL (KW) (8)	V/PH/Hz	MAXIMUM HEIGHT (IN.) (9)	MAXIMUM N.C. (9)
									DISCHARGE	RADIATED
V1	75-200	4"Ø	6"Ø	0.25	55	85	1	120/160	13	23 26
V2	205-300	5"Ø	8"Ø	0.3	55	85	1	120/160	13	22 23
V3	305-400	6"Ø	8"Ø	0.5	55	85	1.5	208/160	13	22 22
V4	405-600	7"Ø	10"Ø	0.55	55	85	2	208/160	13	27 26
V5	605-800	8"Ø	10"Ø	0.65	55	85	2.5	208/160	13	27 25
V6	805-1000	9"Ø	12"Ø	0.85	55	85	3	208/160	13	22 25
V7	1005-1250	10"Ø	12"Ø	0.7	55	85	4	208/360	15	24 27
V8	1255-1700	12"Ø	14"Ø	0.7	55	85	5	208/360	18	27 27
V9	1705-2400	14"Ø	16"Ø	0.7	55	85	7	208/360	21	22 27
V10	2405-3000	16"Ø	18"Ø	0.75	55	85	9	208/360	21	25 26

NOTES:

1. BOXES SHALL BE PRESSURE INDEPENDENT. (REFER TO SPECIFICATIONS & CONTROL DRAWINGS FOR CONTROL TYPES) BASIS OF DESIGN: JCI MODEL TSS-EH.
2. MAXIMUM INLET VELOCITY = 2300 FPM
3. TRANSITION AT TERMINAL FROM DUCT RUNOUT SIZE SHOWN TO BOX INLET SIZE.
4. IF DUCT RUNOUT EXCEEDS 12 IN LENGTH, INCREASE RUNOUT DIAMETER BY 2" & 8" 4" IF LONGER THAN 25'. FOR SIZES 5, 7 & 9 INCREASE BY 3" & BY 5".
5. MAXIMUM AIR FLOW TO TERMINAL COLLECTOR ATTENUATOR SHALL NOT EXCEED THIS VALUE.
6. HEAT CAPACITIES ARE BASED ON 30% OF MAXIMUM CFM FOR THE ASSOCIATED TERMINAL.
7. MANUFACTURERS THAT DO NOT OFFER INLET SIZES 5, 7 AND 9 SHALL USE 6, 8 AND 10 INLET SIZE TERMINALS.
8. PROVIDE 3 FOOT LONG PACKLESS "NO-FIBER" ATTENUATOR EQUAL TO RUSKIN MODEL PRLM3 MATCHED TO OUTLET OF TERMINAL. EITHER FIELD INSTALLED OR INTEGRAL TO THE VALVE BOX FROM THE FACTORY AND FIELD INSULATED.
9. N.C. LEVELS ARE FOR MAXIMUM CFM SHOWN.
10. REFER TO DETAIL SHEET FOR TERMINAL INLET AND DISCHARGE DUCT DETAILS.
11. PROVIDE LOW PRESSURE DIFFERENTIAL SWITCH.

IDENTITY	GFM RANGE (1)	BOX INLET SIZE (2)	DUCT RUNOUT SIZE (3,4)	INLET S.P. (IN.W.G.) (5)	E.A.T. (°F)	L.A.T. (°F)	FAN MHP	ELECTRICAL (KW)	V/PH/HZ	MAXIMUM HEIGHT (IN.)	MAXIMUM N.C. (9)	
											DISCHARGE	RADIATED
F1	50-250	4"Ø	6"Ø	0.25	55	85	18	1	208/1Ø/60	12	23	26
F2	251-350	4"Ø	6"Ø	0.3	55	85	18	1	208/1Ø/60	12	22	23
F3	351-650	6"Ø	6"Ø	0.55	55	85	18	1.5	208/1Ø/60	12	22	22
F4	651-1000	8"Ø	8"Ø	0.85	55	85	18	3	208/1Ø/60	12	27	26
F5	1001-1600	10"Ø	12"Ø	0.7	55	85	14	5	208/3Ø/60	12	27	25
F6	1601-2300	12"Ø	14"Ø	0.7	55	85	12	7	208/3Ø/60	12	22	25
F7	2301-3000	14"Ø	16"Ø	0.75	55	85	12	9	208/3Ø/60	12	24	27

1. BOXES SHALL BE PRESSURE INDEPENDENT. (REFER TO SPECIFICATIONS & CONTROL DRAWINGS FOR CONTROL TYPES) BASIS OF DESIGN: JCI MODEL TVL-EH.
2. MAXIMUM INLET VELOCITY = 2300 FPM
3. TRANSITION AT TERMINAL FROM DUCT RUNOUT SIZE SHOWN TO BOX INLET SIZE.
4. IF DUCT RUNOUT EXCEEDS 12" IN LENGTH, INCREASE RUNOUT DIAMETER BY 2" & BY 4" IF LONGER THAN 25'. FOR SIZES 5, 7, 8 & 9 INCREASE BY 3" & BY 5".
5. MAXIMUM STATIC PRESSURE DROP ACROSS TERMINAL/COIL/ATTENUATOR SHALL NOT EXCEED THIS VALUE.
6. HEAT CAPACITIES ARE BASED ON 30% OF MAXIMUM CFM FOR THE ASSOCIATED TERMINAL.
7. MANUFACTURERS THAT DO NOT OFFER INLET SIZES 5, 7 AND 9 SHALL USE 6, 8 AND 10 INLET SIZE TERMINALS.
8. PROVIDE 3 FOOT LONG PACKLESS "NO-FIBER" ATTENUATOR EQUAL TO RUSKIN MODEL PLRLM SHOWN TO OUTLET OF TERMINAL. EITHER FIELD INSTALLED OR INTEGRAL TO THE FAN POWERED TERMINAL FROM THE FACTORY AND FIELD INSULATED.
9. I.V.C. LEVELS ARE FOR MAXIMUM CFM SHOWN.
10. REFER TO DETAIL SHEET FOR TERMINAL INLET AND DISCHARGE DUCT DETAILS.
11. PROVIDE LOW PRESSURE DIFFERENTIAL SWITCH.

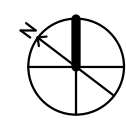
SPACE DESCRIPTION	(2) POPULATION	AREA (SQFT)	(1) CEILING HEIGHT (FT)	(1) TOTAL AIR CHANGE RATE	(1) OUTDOOR AIR CHANGE RATE	(2) PEOPLE OUTDOOR AIRFLOW RATE (CFM / PERSON)	(2) AREA OUTDOOR AIRFLOW RATE (CFM / SQFT)	VENTILATION REQUIRED (CFM)	VENTILATION PROVIDED (CFM)
OFFICE SPACE	#	594	9	N/A	N/A	5.0	0.06	121	125
EXAM ROOM	40	1,130	9	4	2	N/A	N/A	339	600
PATIENT CORRIDOR	0	802	9	2	N/A	0.0	0.06	49	350
MEDICATION ROOM	0	117	9	4	2	N/A	N/A	36	100
TOILET ROOM	0	52	9	N/A	N/A	N/A	N/A	N/A	50
TOTAL FOR AHU-1	57	2,695							1,225
MAIN ENTRY LOBBIES	15	847	9	N/A	N/A	5.0	0.06	126	150
OFFICE SPACE	12	447	9	N/A	N/A	5.0	0.06	87	100
BREAK ROOM	6	217	9	N/A	N/A	5.0	0.12	57	75
CORRIDOR	0	966	9	N/A	N/A	0.0	0.06	58	75
TREATMENT ROOM	0	328	9	6	2	N/A	N/A	99	100
DENTAL OPERATORY	9	333	9	N/A	N/A	10.0	0.18	150	350
MEDICATION ROOM	0	105	9	4	2	N/A	N/A	32	50
X-RAY	3	155	9	6	2	N/A	N/A	47	100
HAZARDOUS MATERIAL STORAGE	0	28	9	10	2	N/A	N/A	9	75
JANITOR CLOSET	0	26	9	N/A	N/A	N/A	N/A	N/A	25
RECEIVING	0	114	9	N/A	N/A	10.0	0.12	14	75
STORAGE ROOM	3	180	9	N/A	N/A	5.0	0.06	26	50
TOILET ROOM	0	154	9	N/A	N/A	N/A	N/A	N/A	125
TOTAL FOR AHU-2		3,900							1,350
PHYSICAL THERAPY	5	379	9	6	2	N/A	N/A	114	200
DINING ROOM	12	401	9	N/A	N/A	7.5	0.18	163	175
TOILET ROOM	0	200	9	N/A	N/A	N/A	N/A	N/A	200
OFFICE SPACE	9	486	9	N/A	N/A	5.0	0.06	75	75
PATIENT CORRIDOR	0	305	9	N/A	N/A	0.0	0.06	19	50
MAIN ENTRY LOBBIES	9	458	9	N/A	N/A	5.0	0.06	73	100
STORAGE ROOM	0	50	9	N/A	N/A	5.0	0.06	3	50
TOTAL FOR AHU-3		2,279							850

1. VALUES ARE BASED ON ASHRAE 170-2017, TABLE 7.1 DESIGN PARAMETERS.

UNIT TYPE	SERVICE	TYPE	THROW	AIRFLOW (CFM)	NOMINAL FACE SIZE / MODULE SIZE	NECK SIZE (IN.)	BRANCH DUCT SIZE	MATERIAL	MANUFACTURER / MODEL
S1	SUPPLY	SQUARE PLAQUE CEILING DIFFUSER	4-WAY	0 - 150	12x12 / 12x12	6"ø	10x6 / 8"ø	ALUMINUM	METALAIRE 5750
S2	SUPPLY	SQUARE PLAQUE CEILING DIFFUSER	4-WAY	0 - 150	24x24 / 24x24	6"ø	10x6 / 8"ø	ALUMINUM	METALAIRE 5750
				151 - 250	24x24 / 24x24	8"ø	10x8 / 10"ø		
				251 - 325	24x24 / 24x24	10"ø	12x8 / 12"ø		
				326 - 500	24x24 / 24x24	12"ø	14x8 / 12"ø		
				501 - 600	24x24 / 24x24	14"ø	16x10 / 14"ø		
S3	SUPPLY	DOUBLE DEFLECTION SIDEWALL GRILLE	2-WAY	601 - 825	24x24 / 24x24	16"ø	18x10 / 14"ø	ALUMINUM	METALAIRE H4004/V4004
				0 - 125	8x6 / 10x8	8x6	10x6 / 8"ø		
				126 - 300	12x8 / 14x10	12x8	12x8 / 12"ø		
				301 - 500	18x10 / 20x12	18x10	18x10 / 14"ø		
				501 - 750	18x12 / 20x14	18x12	18x10 / 14"ø		
				751 - 1100	20x16 / 22x18	20x16	20x16 / 18"ø		
				1100 - 1400	24x10	24x10	24x10 / 18"ø		
R1 / E1	RETURN / EXHAUST	SQUARE CEILING GRILLE	N/A	0-250	12x12 / 12x12	10x6	10x6 / 8"ø	ALUMINUM	METALAIRE RH
R2 / E2	RETURN / EXHAUST	SQUARE CEILING GRILLE	N/A	0 - 100	24x24 / 24x24	6"ø	8x6 / 6"ø	ALUMINUM	METALAIRE RH
				101 - 200	24x24 / 24x24	8"ø	10x6 / 8"ø		
				201 - 325	24x24 / 24x24	10"ø	12x8 / 12"ø		
				326 - 500	24x24 / 24x24	12"ø	14x10 / 12"ø		
				501 - 625	24x24 / 24x24	14"ø	16x10 / 14"ø		
				626 - 800	24x24 / 24x24	16"ø	22x10 / 16"ø		
R3 / E3	RETURN / EXHAUST	SIDEWALL GRILLE	N/A	0 - 125	8x6 / 10x8	8x6	10x6 / 8"ø	ALUMINUM	METALAIRE RH
				126 - 300	12x8 / 14x10	12x8	12x8 / 12"ø		
				301 - 500	18x10 / 20x12	18x10	18x10 / 14"ø		
				501 - 750	18x12 / 20x14	18x12	18x10 / 14"ø		
				751 - 1100	20x16 / 22x18	20x16	20x16 / 18"ø		

1. AIR DEVICE SIZES AND SCHEDULED AIR FLOWS ARE BY THIS SCHEDULE UNLESS OTHERWISE NOTED ON HVAC FLOOR PLANS.
2. BRANCH DUCT SIZES ARE BY THIS SCHEDULE UNLESS OTHERWISE NOTED ON HVAC FLOOR PLANS. PROVIDE TRANSITIONS FROM NECK SIZE TO BRANCH DUCT SIZE AS REQUIRED.
3. ALL AIR DEVICES INSTALLED IN INACCESSIBLE AND/OR DRYWALL CEILINGS SHALL BE PROVIDED WITH MANUAL, OPPOSED BLADE DAMPERS.
4. MAXIMUM PRESSURE DROP FOR ALL DEVICES SHALL NOT EXCEED 0.10 IN. W.G.
5. UNLESS OTHERWISE NOTED, ALL AIR DEVICES SHALL BE WHITE.
6. MAXIMUM NC RATING FOR ALL AIR DEVICES SHALL NOT EXCEED 25.
7. ALL AIR DEVICES SHALL INDICATE "S" FOR SUPPLY, "R" FOR RETURN, AND "E" FOR EXHAUST ON FLOOR PLANS.
8. ALL AIR DEVICES SHALL BE EXTERNALLY INSULATED BY MANUFACTURER AS SPECIFIED.
9. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNT REQUIREMENTS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND AIR DEVICE MANUFACTURER.

NO.	REASON	DATE
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MECHANICAL
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