

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM					
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					SELECTED OA VALUES					DESIGN COOLING LOAD, CFM					MIN FLOW WITH REGR. CFM						ZONE REGR. EFFIC. Er				
														OCCUP Pz+Rp	AREA A+Ra	TOTAL OA REQ Voz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM	AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zpz	OA CFM	OA CRITERIA	BASED CFM	BASED CFM/SF	DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH REGR. CFM	MAX FLOW WITH REGR. CFM	ZONE REGR. EFFIC. Er	SA CFM (Vpz)	SA CRITERIA								
103	OFFICE 1	166	5	9	1	3	1	5.0	0	5.0	0.06	0.0	30%	5	10	15	80%	19	0	10%	19	ASHRAE 62	0	0	360	108	108	360	100%	360	LOAD	21							
104	OFFICE 2	164	5	9	1	3	1	5.0	0	5.0	0.06	0.0	30%	5	10	15	80%	19	0	10%	19	ASHRAE 62	0	0	195	59	59	195	100%	195	LOAD	12							
105	OFFICE 3	226	5	9	2	3	2	4.3	0	5.0	0.06	0.0	30%	10	14	24	80%	29	0	14%	29	ASHRAE 62	0	0	420	126	126	420	100%	420	LOAD	25							
106	OFFICE 4	119	5	9	1	3	1	4.4	0	5.0	0.06	0.0	30%	5	7	12	80%	15	0	9%	15	ASHRAE 62	0	0	325	98	98	325	100%	325	LOAD	19							
107	OFFICE 5	159	5	9	1	3	1	4.9	0	5.0	0.06	0.0	30%	5	10	15	80%	18	0	10%	18	ASHRAE 62	0	0	350	105	105	350	100%	350	LOAD	21							
108	OFFICE 6	155	5	9	1	3	1	4.9	0	5.0	0.06	0.0	30%	5	9	14	80%	18	0	12%	18	ASHRAE 62	0	0	305	92	92	305	100%	305	LOAD	18							
111	OFFICE 7	158	5	9	1	3	1	4.9	0	5.0	0.06	0.0	30%	5	9	14	80%	18	0	12%	18	ASHRAE 62	0	0	305	92	92	305	100%	305	LOAD	18							
112	OFFICE 8	150	5	12	1	3	1	6.6	0	5.0	0.06	0.0	30%	5	10	15	80%	18	0	10%	18	ASHRAE 62	0	0	350	105	105	350	100%	350	LOAD	21							
113	OFFICE 9	120	5	12	1	3	1	5.9	0	5.0	0.06	0.0	30%	5	7	12	80%	15	0	9%	15	ASHRAE 62	0	0	325	98	98	325	100%	325	LOAD	19							
114	OFFICE 10	227	5	12	2	3	2	5.8	0	5.0	0.06	0.0	30%	10	14	24	80%	30	0	9%	30	ASHRAE 62	0	0	645	194	194	645	100%	645	LOAD	39							
115	OFFICE 11	167	5	12	1	3	1	6.7	0	5.0	0.06	0.0	30%	5	10	15	80%	19	0	12%	19	ASHRAE 62	0	0	325	98	98	325	100%	325	LOAD	19							
116	OFFICE 12	161	5	12	1	3	1	6.6	0	5.0	0.06	0.0	30%	5	10	15	80%	18	0	10%	18	ASHRAE 62	0	0	360	108	108	360	100%	360	LOAD	21							
119A	KITCHEN / STORAGE	229	50	9	12	2	2	1.2	0	5.0	0.12	0.0	30%	0	27	37	80%	47	0	16%	47	ASHRAE 62	0	0	580	174	174	580	100%	580	LOAD	35							
121	VOLUNTEER ROOM	225	5	12	2	5	2	5.7	0	5.0	0.06	0.0	30%	10	14	24	80%	29	0	15%	29	ASHRAE 62	0	0	395	119	119	395	100%	395	LOAD	24							
122	OFFICE 13	217	5	12	2	3	2	5.7	0	5.0	0.06	0.0	30%	10	13	23	80%	29	0	12%	29	ASHRAE 62	0	0	475	143	143	475	100%	475	LOAD	28							
														100	173	273	341	0	WORST 19%	341											5,715	100%	5,715	341					

TO CODE OFFICIALS:
 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
 o IF THE "USER INPUT" NUMBER OF PEOPLE IS LESS THAN THAT COMPUTED FROM THE "ASHRAE TABLE", THE NUMBER OF PEOPLE HAS BEEN ADJUSTED BASED ON THE AVERAGE OCCUPANCY OVER THE "AVG TIME PERIOD" SHOWN. THE AVG TIME PERIOD IS CALCULATED PER THE ASHRAE STANDARD.
 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 20 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS
 NUMBER OF PEOPLE FROM SUM OF ZONES 20
 MAX SIMULTANEOUS SYSTEM POPULATION 20 Pp
 SYSTEM PRIMARY AIRFLOW, CFM 5,715 Vp
 OCCUPANT DIVERSITY 100% D
 UNCORRECTED OA INTAKE, CFM -- Yvu
 UNCORRECTED OA INTAKE FRACTION -- Zp
 UNCORRECTED OA INTAKE FRACTION -- Xs
 SYSTEM VENTILATION EFFICIENCY -- Ev
 OA INTAKE FLOW, CFM 341 Vot
 OA INTAKE FLOW % OF SYSTEM PRIM FLOW 6%

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM					
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					SELECTED OA VALUES					DESIGN COOLING LOAD, CFM					MIN FLOW WITH REGR. CFM						ZONE REGR. EFFIC. Er				
														OCCUP Pz+Rp	AREA A+Ra	TOTAL OA REQ Voz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM	AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zpz	OA CFM	OA CRITERIA	BASED CFM	BASED CFM/SF	DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH REGR. CFM	MAX FLOW WITH REGR. CFM	ZONE REGR. EFFIC. Er	SA CFM (Vpz)	SA CRITERIA								
101 / 101	WELCOME / LOBBY	525	30	12	3	3	3	6.8	0	5.0	0.06	0.0	100%	15	32	47	80%	58	0	24%	58	ASHRAE 62	0	0	200	200	200	200	100%	200	LOAD	49							
109	NORTH INT. CUBICLES	560	5	12	4	4	4	6.3	0	5.0	0.06	0.0	100%	20	34	54	80%	67	0	21%	67	ASHRAE 62	0	0	270	270	270	270	100%	270	LOAD	66							
117	SOUTH INT. CUBICLES	558	5	12	4	4	4	6.3	0	5.0	0.06	0.0	100%	20	33	53	80%	67	0	21%	67	ASHRAE 62	0	0	270	270	270	270	100%	270	LOAD	66							
118	FRONT SUPPORT CORRIDOR WEST	1,199	0	10	3	3	3	8.3	0	5.0	0.06	0.0	100%	0	72	72	80%	90	0	21%	90	ASHRAE 62	0	0	350	350	350	350	100%	350	LOAD	85							
120A	MAIL / COPY	167	5	12	1	1	1	6.7	0	5.0	0.06	0.0	100%	5	10	15	80%	19	0	13%	19	ASHRAE 62	0	0	125	125	125	125	100%	125	LOAD	30							
122A	VOL ENGINT	354	5	12	2	2	2	6.8	0	5.0	0.06	0.0	100%	10	21	31	80%	39	0	22%	39	ASHRAE 62	0	0	150	150	150	150	100%	150	LOAD	36							
124A	PROG SERV	292	5	12	4	4	4	4.7	0	5.0	0.06	0.0	100%	20	18	38	80%	47	0	17%	47	ASHRAE 62	0	0	225	225	225	225	100%	225	LOAD	55							
														90	219	309	387	0	WORST 24%	387											1,590	100%	1,590	387					

TO CODE OFFICIALS:
 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
 o IF THE "USER INPUT" NUMBER OF PEOPLE IS LESS THAN THAT COMPUTED FROM THE "ASHRAE TABLE", THE NUMBER OF PEOPLE HAS BEEN ADJUSTED BASED ON THE AVERAGE OCCUPANCY OVER THE "AVG TIME PERIOD" SHOWN. THE AVG TIME PERIOD IS CALCULATED PER THE ASHRAE STANDARD.
 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 21 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS
 NUMBER OF PEOPLE FROM SUM OF ZONES 21
 MAX SIMULTANEOUS SYSTEM POPULATION 21 Pp
 SYSTEM PRIMARY AIRFLOW, CFM 1,590 Vp
 OCCUPANT DIVERSITY 100% D
 UNCORRECTED OA INTAKE, CFM -- Yvu
 UNCORRECTED OA INTAKE FRACTION -- Zp
 UNCORRECTED OA INTAKE FRACTION -- Xs
 SYSTEM VENTILATION EFFICIENCY -- Ev
 OA INTAKE FLOW, CFM 387 Vot
 OA INTAKE FLOW % OF SYSTEM PRIM FLOW 24%

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM					
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					SELECTED OA VALUES					DESIGN COOLING LOAD, CFM					MIN FLOW WITH REGR. CFM						ZONE REGR. EFFIC. Er				
														OCCUP Pz+Rp	AREA A+Ra	TOTAL OA REQ Voz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM	AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zpz	OA CFM	OA CRITERIA	BASED CFM	BASED CFM/SF	DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH REGR. CFM	MAX FLOW WITH REGR. CFM	ZONE REGR. EFFIC. Er	SA CFM (Vpz)	SA CRITERIA								
119	CONFERENCE RM	1,027	50	12	52	28	28	1.9	0	5.0	0.06	0.0	30%	140	62	202	80%	252	0	42%	252	ASHRAE 62	0	0	1,200	360	360	1,200	100%	1,200	LOAD	252							
														140	62	202	252	0	WORST 42%	252											1,200	100%	1,200	252					

TO CODE OFFICIALS:
 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
 o IF THE "USER INPUT" NUMBER OF PEOPLE IS LESS THAN THAT COMPUTED FROM THE "ASHRAE TABLE", THE NUMBER OF PEOPLE HAS BEEN ADJUSTED BASED ON THE AVERAGE OCCUPANCY OVER THE "AVG TIME PERIOD" SHOWN. THE AVG TIME PERIOD IS CALCULATED PER THE ASHRAE STANDARD.
 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 28 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS
 NUMBER OF PEOPLE FROM SUM OF ZONES 28
 MAX SIMULTANEOUS SYSTEM POPULATION 28 Pp
 SYSTEM PRIMARY AIRFLOW, CFM 1,200 Vp
 OCCUPANT DIVERSITY 100% D
 UNCORRECTED OA INTAKE, CFM -- Yvu
 UNCORRECTED OA INTAKE FRACTION -- Zp
 UNCORRECTED OA INTAKE FRACTION -- Xs
 SYSTEM VENTILATION EFFICIENCY -- Ev
 OA INTAKE FLOW, CFM 252 Vot
 OA INTAKE FLOW % OF SYSTEM PRIM FLOW 21%

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM					
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					SELECTED OA VALUES					DESIGN COOLING LOAD, CFM					MIN FLOW WITH REGR. CFM						ZONE REGR. EFFIC. Er				
														OCCUP Pz+Rp	AREA A+Ra	TOTAL OA REQ Voz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM	AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zpz	OA CFM	OA CRITERIA	BASED CFM	BASED CFM/SF	DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH REGR. CFM	MAX FLOW WITH REGR. CFM	ZONE REGR. EFFIC. Er	SA CFM (Vpz)	SA CRITERIA								
135	DATA	104	0	12	0	0	0	10.0	0	0.0	0.06	0.0	100%	0	6	6	80%	8	0	13%	8	ASHRAE 62	0	0	50	50	50	50	100%	50	LOAD	11							
124	OFFICE 14	225	5	12	2	3	2	4.7	0	5.0	0.06	0.0	100%	10	14	24	80%	29	0	20%	29	ASHRAE 62	0	0	120	120	120	120	100%	120	LOAD	27							
125	OFFICE 15	202	5	9	2	3	2	4.1	0	5.0	0.06	0.0	100%	5	12	22	80%	28	0	22%	28	ASHRAE 62	0	0	105	105	105	105	100%	105	LOAD	24							
126	OFFICE 16	190	5	9	1	3	1	5.2	0	5.0	0.06	0.0	100%	5	11	16	80%	21	0	17%	21	ASHRAE 62	0	0	100	100	100	100	100%	100	LOAD	23							
127	OFFICE 17	164	5	9	1	3	1	5.0	0	5.0	0.06	0.0	100%	5	10	15	80%	19	0	16%	19	ASHRAE 62	0	0	95	95	95	95	100%	95	LOAD	21							
137	OFFICE 18	137	5	9	1	3	1	4.7	0	5.0	0.06	0.0	100%	5	8	13	80%	17	0	15%	17	ASHRAE 62	0	0	90	90	90	90	100%	90	LOAD	20							
139	OFFICE 19	135	5	9	1	3	1	4.6	0	5.0	0.06	0.0	100%	5	8	13	80%	16	0	15%	16	ASHRAE 62	0	0	90	90	90	90	100%	90	LOAD	20							
140	OFFICE 20	133	5	9	1	3	1	4.6	0	5.0	0.06	0.0	100%	5	8	13	80%	16	0	15%	16	ASHRAE 62	0	0	90	90	90	90	100%	90	LOAD	20							
141	OFFICE 21	167	5	9	1	3	1	5.0	0	5.0	0.06	0.0	100%	5	10	15	80%	19	0	16%	19	ASHRAE 62	0	0	95	95	95	95	100%	95	LOAD	21							
129	SUPPORT HALLWAY EAST	785	0	10	0	2	0	8.3	0	0.0	0.06	0.0	100%	0	47	47	80%	59	0	32%	59	ASHRAE 62	0	0	155	155													

VENTILATION SCHEDULE FOR SYSTEM RTU-06

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zp2	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er	SELECTED VALUES						
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM			OA CFM	OA CRITERIA						BASED CFM	BASED CFM/SF	SA CFM (Vp2)	SA CRITERIA			
146	BREAK ROOM	739	25	8	19	24	24	2.1	0	5.0	0.06	0.0	100%	120	44	164	80%	205	0	14%	205	ASHRAE 62	0	0	1,190	1,190	1,190	1,190	100%	1,190	LOAD	224		
147	COAT LOCKERS	253	0	10	0	0	0	4.2	0	0.0	0.0	0.0	100%	0	30	30	80%	38	0	30%	38	ASHRAE 62	0	0	105	105	105	105	100%	105	LOAD	20		
		992			19	24	24		0					120	75	195		243	0	WORST 30%	243									1,295	LOAD	243		

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 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
 o IF THE "USER INPUT" NUMBER OF PEOPLE IS LESS THAN THAT COMPUTED FROM THE "ASHRAE TABLE", THE NUMBER OF PEOPLE HAS BEEN ADJUSTED BASED ON THE AVERAGE OCCUPANCY OVER THE "AVG TIME PERIOD" SHOWN. THE AVG TIME PERIOD IS CALCULATED PER THE ASHRAE STANDARD.
 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 24 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS
 NUMBER OF PEOPLE FROM SUM OF ZONES 24 Ps
 MAX SIMULTANEOUS SYSTEM POPULATION 24 Ps
 SYSTEM PRIMARY AIRFLOW, CFM 1,295 Vps
 OCCUPANT DIVERSITY 100% D
 UNCORRECTED OA INTAKE, CFM -- Vou
 MAX PRIMARY OA FRACTION -- Zp
 UNCORRECTED OA INTAKE FRACTION -- Xs
 SYSTEM VENTILATION EFFICIENCY -- Ev
 OA INTAKE FLOW, CFM 243 Vot
 OA INTAKE FLOW % OF SYSTEM PRIM FLOW 19%

VENTILATION SCHEDULE FOR SYSTEM RTU-07

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zp2	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er	SELECTED VALUES						
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM			OA CFM	OA CRITERIA						BASED CFM	BASED CFM/SF	SA CFM (Vp2)	SA CRITERIA			
148	CUSTOMER CARE	350	5	10	2	5	5	5.6	0	5.0	0.06	0.0	100%	25	21	46	80%	58	0	9%	58	ASHRAE 62	0	0	560	560	560	560	100%	560	LOAD	65		
149	OFFICE 23	137	5	9	1	2	1	4.7	0	5.0	0.06	0.0	100%	5	8	13	80%	17	0	12%	17	ASHRAE 62	0	0	115	115	115	115	100%	115	LOAD	13		
151	OFFICE 22	139	5	9	1	3	1	4.7	0	5.0	0.06	0.0	100%	5	8	13	80%	17	0	15%	17	ASHRAE 62	0	0	90	90	90	90	100%	90	LOAD	10		
152	TRANSPORTATION OFFICE 2	264	5	9	2	4	2	4.6	0	5.0	0.06	0.0	100%	10	16	26	80%	32	0	8%	32	ASHRAE 62	0	0	320	320	320	320	100%	320	LOAD	37		
153	TRANSPORTATION OFFICE 1	135	5	9	1	2	1	4.6	0	5.0	0.06	0.0	100%	5	8	13	80%	16	0	12%	16	ASHRAE 62	0	0	115	115	115	115	100%	115	LOAD	13		
		1,025			7	16	10		0					50	62	112		139	0	WORST 15%	139								1,200	LOAD	139			

TO CODE OFFICIALS:
 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
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 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 10 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS
 NUMBER OF PEOPLE FROM SUM OF ZONES 10 Ps
 MAX SIMULTANEOUS SYSTEM POPULATION 10 Ps
 SYSTEM PRIMARY AIRFLOW, CFM 1,200 Vps
 OCCUPANT DIVERSITY 100% D
 UNCORRECTED OA INTAKE, CFM -- Vou
 MAX PRIMARY OA FRACTION -- Zp
 UNCORRECTED OA INTAKE FRACTION -- Xs
 SYSTEM VENTILATION EFFICIENCY -- Ev
 OA INTAKE FLOW, CFM 139 Vot
 OA INTAKE FLOW % OF SYSTEM PRIM FLOW 12%

VENTILATION SCHEDULE FOR SYSTEM RTU-08

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zp2	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er	SELECTED VALUES						
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM			OA CFM	OA CRITERIA						BASED CFM	BASED CFM/SF	SA CFM (Vp2)	SA CRITERIA			
175	DRY INGREDIENT STORAGE	1,573	0	21	0	4	4	8.8	0	0.0	0.12	0.0	100%	0	189	189	80%	236	0	27%	236	ASHRAE 62	0	0	735	735	735	735	100%	735	LOAD	68		
	PRODUCTION HALLWAY NORTH	1,514	0	21	0	0	0	17.5	0	0.0	0.06	0.0	100%	0	91	91	80%	114	0	15%	114	ASHRAE 62	0	0	645	645	645	645	100%	645	LOAD	60		
177	RECEIVING AND PALLET STORAGE	2,450	0	21	0	4	4	8.8	0	0.0	0.12	0.0	100%	0	294	294	80%	368	0	5%	368	ASHRAE 62	0	0	6,350	6,350	6,350	6,350	100%	6,350	LOAD	589		
		5,537			0	8	8		0					0	574	574		717	0	27%	717								7,730	LOAD	717			

TO CODE OFFICIALS:
 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
 o IF THE "USER INPUT" NUMBER OF PEOPLE IS LESS THAN THAT COMPUTED FROM THE "ASHRAE TABLE", THE NUMBER OF PEOPLE HAS BEEN ADJUSTED BASED ON THE AVERAGE OCCUPANCY OVER THE "AVG TIME PERIOD" SHOWN. THE AVG TIME PERIOD IS CALCULATED PER THE ASHRAE STANDARD.
 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 8 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS
 NUMBER OF PEOPLE FROM SUM OF ZONES 8 Ps
 MAX SIMULTANEOUS SYSTEM POPULATION 8 Ps
 SYSTEM PRIMARY AIRFLOW, CFM 7,730 Vps
 OCCUPANT DIVERSITY 100% D
 UNCORRECTED OA INTAKE, CFM -- Vou
 MAX PRIMARY OA FRACTION -- Zp
 UNCORRECTED OA INTAKE FRACTION -- Xs
 SYSTEM VENTILATION EFFICIENCY -- Ev
 OA INTAKE FLOW, CFM 717 Vot
 OA INTAKE FLOW % OF SYSTEM PRIM FLOW 9%

VENTILATION SCHEDULE FOR SYSTEM RTU-09

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zp2	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er	SELECTED VALUES						
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM			OA CFM	OA CRITERIA						BASED CFM	BASED CFM/SF	SA CFM (Vp2)	SA CRITERIA			
173 / 173	KITCHEN / FOOD PREP	2,440	20	21	49	12	12	3.9	0	7.5	0.12	0.0	100%	90	293	383	80%	479	0	16%	479	ASHRAE 62	0	0	2,220	2,220	2,220	2,220	100%	2,220	LOAD	468		
173c	OFFICE KITCHEN MANAGER	130	5	21	1	3	1	10.7	0	5.0	0.06	0.0	100%	5	8	13	80%	16	0	11%	16	ASHRAE 62	0	0	125	125	125	125	100%	125	LOAD	28		
		2,570			50	15	13		0					95	301	396		495	0	WORST 18%	495								2,345	LOAD	495			

TO CODE OFFICIALS:
 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
 o IF THE "USER INPUT" NUMBER OF PEOPLE IS LESS THAN THAT COMPUTED FROM THE "ASHRAE TABLE", THE NUMBER OF PEOPLE HAS BEEN ADJUSTED BASED ON THE AVERAGE OCCUPANCY OVER THE "AVG TIME PERIOD" SHOWN. THE AVG TIME PERIOD IS CALCULATED PER THE ASHRAE STANDARD.
 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 13 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS
 NUMBER OF PEOPLE FROM SUM OF ZONES 13 Ps
 MAX SIMULTANEOUS SYSTEM POPULATION 13 Ps
 SYSTEM PRIMARY AIRFLOW, CFM 2,345 Vps
 OCCUPANT DIVERSITY 100% D
 UNCORRECTED OA INTAKE, CFM -- Vou
 MAX PRIMARY OA FRACTION -- Zp
 UNCORRECTED OA INTAKE FRACTION -- Xs
 SYSTEM VENTILATION EFFICIENCY -- Ev
 OA INTAKE FLOW, CFM 495 Vot
 OA INTAKE FLOW % OF SYSTEM PRIM FLOW 21%

VENTILATION SCHEDULE FOR SYSTEM RTU-10

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zp2	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er	SELECTED VALUES						
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM			OA CFM	OA CRITERIA						BASED CFM	BASED CFM/SF	SA CFM (Vp2)	SA CRITERIA			
172	CLEANING AND SANITATION	799	20	21	16	16	16	3.9	600	7.5	0.12	0.0	100%	120	96	216	80%	270	0	19%	270	ASHRAE 62	0	0	1,200	1,200	1,200	1,200	100%	1,200	LOAD	270		
		799			16	16	16		600					120	96	216		270	0	WORST 19%	270								1,200	LOAD	270			

TO CODE OFFICIALS:
 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
 o IF THE "USER INPUT" NUMBER OF PEOPLE IS LESS THAN THAT COMPUTED FROM THE "ASHRAE TABLE", THE NUMBER OF PEOPLE HAS BEEN ADJUSTED BASED ON THE AVERAGE OCCUPANCY OVER THE "AVG TIME PERIOD" SHOWN. THE AVG TIME PERIOD IS CALCULATED PER THE ASHRAE STANDARD.
 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 16 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS
 NUMBER OF PEOPLE FROM SUM OF ZONES 16 Ps
 MAX SIMULTANEOUS SYSTEM POPULATION 16 Ps
 SYSTEM PRIMARY AIRFLOW, CFM 1,200 Vps
 OCCUPANT DIVERSITY 100% D
 UNCORRECTED OA INTAKE, CFM -- Vou
 MAX PRIMARY OA FRACTION -- Zp
 UNCORRECTED OA INTAKE FRACTION -- Xs
 SYSTEM VENTILATION EFFICIENCY -- Ev
 OA INTAKE FLOW, CFM 270 Vot
 OA INTAKE FLOW % OF SYSTEM PRIM FLOW 22%

WARNING - EXHAUST IS GREATER THAN OUTDOOR AIR FLOW

VENTILATION SCHEDULE FOR SYSTEM RTU-11

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES										SUPPLY AIR TO ZONES										FINAL OA FLOW AT DESIGN SA FLOW, CFM
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE					AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zp2	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er	SELECTED VALUES						
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM	ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM			OA CFM	OA CRITERIA						BASED CFM	BASED CFM/SF	SA CFM (Vp2)	SA CRITERIA			
170	PORTIONING AND PACKAGING	2,387	20	21	48	12	12	3.9	0	7.5	0.12	0.0	100%	90	286	376	80%	471	0	21%	471	ASHRAE 62	0	0	1,850	1,850	1,850	1,850	100%	1,850	LOAD	471		
		2,387			48	12	12		0					90	286	376		471	0	WORST 21%	471								1,850	LOAD	471			

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 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
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 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 12 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS
 NUMBER OF PEOPLE FROM SUM OF ZONES 12 Ps
 MAX SIMULTANEOUS SYSTEM POPULATION 12 Ps
 SYSTEM PRIMARY AIRFLOW, CFM 1,850 Vps
 OCCUPANT DIVERSITY 100% D
 UNCORRECTED OA INTAKE, CFM -- Vou
 MAX PRIMARY OA FRACTION -- Zp
 UNCORRECTED OA INTAKE FRACTION -- Xs
 SYSTEM VENTILATION EFFICIENCY -- Ev
 OA INTAKE FLOW, CFM 471 Vot
 OA INTAKE FLOW % OF SYSTEM PRIM FLOW 25%

DNK Architects
 2616 Central Parkway
 Cincinnati, OH 45214
 T 513.948.4145

CHAMPLIN
 720 East Pete Rose Way,
 Suite 140
 Cincinnati, OH 45202
 T 513.241.4474

EOP
 architecture | interiors

VENTILATION SCHEDULE FOR SYSTEM RTU-12

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES						SUPPLY AIR TO ZONES						FINAL OA FLOW AT DESIGN SA FLOW, CFM						
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE			AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zpz	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er		SELECTED VALUES					
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM			ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM							OA CFM	OA CRITERIA	BASED CFM	BASED CFM/SF	SA CFM (Vpz)	SA CRITERIA
ELECTRICAL		286	0	21	0	0	0	17.5	0	0.0	0.06	0.0	100%	0	17	17	80%	21	0	2%	21	ASHRAE 62	0	0	810	810	810	810	100%	810	LOAD	43
EMERGENCY SWITCHGEAR		253	0	21	0	0	0	17.5	0	0.0	0.06	0.0	100%	0	15	15	80%	19	0	2%	19	ASHRAE 62	0	0	770	770	770	770	100%	770	LOAD	41
MAINTENANCE		267	20	21	6	2	2	2.6	0	10.0	0.18	0.0	100%	20	48	68	80%	85	0	26%	85	ASHRAE 62	0	0	275	275	275	275	100%	275	LOAD	15
MECHANICAL		299	0	21	0	0	0	17.5	0	0.0	0.06	0.0	100%	0	18	18	80%	22	0	2%	22	ASHRAE 62	0	0	830	830	830	830	100%	830	LOAD	44
MENS TOILET RM		139	0	21	0	3	0	0.0	100	0.0	0.00	0.0	100%	0	0	0	80%	0	0	0%	0	EXH ONLY	0	0	50	50	50	50	100%	50	LOAD	3
WOMENS TOILET RM		140	0	21	0	3	0	0.0	100	0.0	0.00	0.0	100%	0	0	0	80%	0	0	0%	0	EXH ONLY	0	0	50	50	50	50	100%	50	LOAD	3
		1,384			6	8	2		200					20	98	118		148	0	WORST 26%	148									2,785 100% 2,785	148	

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 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
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 o IF THE 'USER INPUT' NUMBER OF PEOPLE IS LESS THAN THAT COMPUTED FROM THE 'ASHRAE TABLE', THE NUMBER OF PEOPLE HAS BEEN ADJUSTED BASED ON THE AVERAGE OCCUPANCY OVER THE 'AVG TIME PERIOD' SHOWN. THE AVG TIME PERIOD IS CALCULATED PER THE ASHRAE STANDARD.
 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 2 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS	
NUMBER OF PEOPLE FROM SUM OF ZONES	2
MAX SIMULTANEOUS SYSTEM POPULATION	2
SYSTEM PRIMARY AIRFLOW, CFM	2,785
OCCUPANT DIVERSITY	100%
UNCORRECTED OA INTAKE, CFM	-
MAX PRIMARY OA FRACTION	-
UNCORRECTED OA INTAKE FRACTION	-
SYSTEM VENTILATION EFFICIENCY	-
OA INTAKE FLOW, CFM	148
OA INTAKE FLOW % OF SYSTEM PRIM FLOW	5%

WARNING - EXHAUST IS GREATER THAN OUTDOOR AIR FLOW

VENTILATION SCHEDULE FOR SYSTEM RTU-13

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES						SUPPLY AIR TO ZONES						FINAL OA FLOW AT DESIGN SA FLOW, CFM						
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE			AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zpz	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er		SELECTED VALUES					
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM			ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM							OA CFM	OA CRITERIA	BASED CFM	BASED CFM/SF	SA CFM (Vpz)	SA CRITERIA
MEAL ASSEMBLY		1,791	20	21	36	10	10	3.9		7.5	0.12	0.0	50%	75	215	290	80%	362	0	37%	362	ASHRAE 62	0	0	1,400	700	1,400	1,400	100%	1,400	LOAD	362
		1,791			36	10	10		0					75	215	290		362	0	WORST 37%	362									1,400 100% 1,400	362	

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 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
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 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 10 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS	
NUMBER OF PEOPLE FROM SUM OF ZONES	10
MAX SIMULTANEOUS SYSTEM POPULATION	10
SYSTEM PRIMARY AIRFLOW, CFM	1,400
OCCUPANT DIVERSITY	100%
UNCORRECTED OA INTAKE, CFM	-
MAX PRIMARY OA FRACTION	-
UNCORRECTED OA INTAKE FRACTION	-
SYSTEM VENTILATION EFFICIENCY	-
OA INTAKE FLOW, CFM	362
OA INTAKE FLOW % OF SYSTEM PRIM FLOW	26%

VENTILATION SCHEDULE FOR SYSTEM RTU-14

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES						SUPPLY AIR TO ZONES						FINAL OA FLOW AT DESIGN SA FLOW, CFM						
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE			AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zpz	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er		SELECTED VALUES					
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM			ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM							OA CFM	OA CRITERIA	BASED CFM	BASED CFM/SF	SA CFM (Vpz)	SA CRITERIA
CONTENARIZATION		4,541	0	21	0	16	16	17.5		10.0	0.06	0.0	100%	160	272	432	80%	541	0	16%	541	ASHRAE 62	0	0	2,755	2,755	2,755	2,755	100%	2,755	LOAD	577
PET FOOD PACKAGING		155	0	21	0	2	2	17.5		10.0	0.06	0.0	100%	20	9	29	80%	37	0	8%	37	ASHRAE 62	0	0	365	365	365	365	100%	365	LOAD	76
PRODUCTION HALLWAY SOUTH		1,730	0	21	0	0	0	17.5		10.0	0.06	0.0	100%	0	104	104	80%	130	0	30%	130	ASHRAE 62	0	0	365	365	365	365	100%	365	LOAD	76
SNACK BOX PACKAGING		344	0	21	0	4	4	17.5		10.0	0.06	0.0	100%	40	21	61	80%	76	0	25%	76	ASHRAE 62	0	0	250	250	250	250	100%	250	LOAD	52
		6,770			0	22	22		0					220	406	626		783	0	WORST 30%	783									3,735 100% 3,735	783	

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 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
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 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 22 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS	
NUMBER OF PEOPLE FROM SUM OF ZONES	22
MAX SIMULTANEOUS SYSTEM POPULATION	22
SYSTEM PRIMARY AIRFLOW, CFM	3,735
OCCUPANT DIVERSITY	100%
UNCORRECTED OA INTAKE, CFM	-
MAX PRIMARY OA FRACTION	-
UNCORRECTED OA INTAKE FRACTION	-
SYSTEM VENTILATION EFFICIENCY	-
OA INTAKE FLOW, CFM	783
OA INTAKE FLOW % OF SYSTEM PRIM FLOW	21%

VENTILATION SCHEDULE FOR SYSTEM RTU-15

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES						SUPPLY AIR TO ZONES						FINAL OA FLOW AT DESIGN SA FLOW, CFM						
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE			AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zpz	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er		SELECTED VALUES					
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM			ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM							OA CFM	OA CRITERIA	BASED CFM	BASED CFM/SF	SA CFM (Vpz)	SA CRITERIA
DISTRIBUTION		3,566	0	21	0	16	0	8.8		5.0	0.12	0.0	100%	0	428	428	80%	535	0	10%	535	ASHRAE 62	0	0	4,345	4,345	4,345	4,345	100%	4,345	LOAD	541
DISTRIBUTION OFFICE 1		139	5	21	1	2	1	10.9		5.0	0.06	0.0	100%	5	8	13	80%	17	0	13%	17	ASHRAE 62	0	0	105	105	105	105	100%	105	LOAD	13
DISTRIBUTION OFFICE 2		139	5	21	1	2	1	10.9		5.0	0.06	0.0	100%	5	8	13	80%	17	0	13%	17	ASHRAE 62	0	0	105	105	105	105	100%	105	LOAD	13
TRANSPORTATION OFFICE 3		147	5	21	1	2	1	11.2		5.0	0.06	0.0	100%	5	9	14	80%	17	0	10%	17	ASHRAE 62	0	0	150	150	150	150	100%	150	LOAD	19
		3,991			3	22	3		0					15	453	468		586	0	WORST 13%	586									4,705 100% 4,705	586	

TO CODE OFFICIALS:
 o THIS TABLE CALCULATES THE OUTDOOR AIR INTAKE FLOW REQUIREMENT FOR THE SYSTEM SHOWN, BASED ON ASHRAE STD 62.1-2004. IT ALSO TAKES INTO ACCOUNT THE AIA 2006 GUIDELINE FOR HEALTHCARE FACILITIES, WHEN APPLICABLE.
 o THE AIR HANDLER SYSTEM IS CLASSIFIED AS A SZ SYSTEM TYPE.
 o IF THE 'USER INPUT' NUMBER OF PEOPLE IS LESS THAN THAT COMPUTED FROM THE 'ASHRAE TABLE', THE NUMBER OF PEOPLE HAS BEEN ADJUSTED BASED ON THE AVERAGE OCCUPANCY OVER THE 'AVG TIME PERIOD' SHOWN. THE AVG TIME PERIOD IS CALCULATED PER THE ASHRAE STANDARD.
 o THE MAXIMUM SIMULTANEOUS SYSTEM POPULATION OF 3 IS USED PER THE STANDARD.
 o FOR VARIABLE-FLOW SYSTEMS, THE OUTDOOR AIR CALCULATIONS HAVE BEEN DONE AT THE MINIMUM PRIMARY AIR FLOW RATES, PER THE STANDARD.

AHU SYSTEM CALCULATIONS	
NUMBER OF PEOPLE FROM SUM OF ZONES	3
MAX SIMULTANEOUS SYSTEM POPULATION	3
SYSTEM PRIMARY AIRFLOW, CFM	4,705
OCCUPANT DIVERSITY	100%
UNCORRECTED OA INTAKE, CFM	-
MAX PRIMARY OA FRACTION	-
UNCORRECTED OA INTAKE FRACTION	-
SYSTEM VENTILATION EFFICIENCY	-
OA INTAKE FLOW, CFM	586
OA INTAKE FLOW % OF SYSTEM PRIM FLOW	12%

VENTILATION SCHEDULE FOR SYSTEM RTU-16

PLAN RM NO.	ZONE NAME	NET FLOOR AREA, SF	PEOPLE PER 1,000 SF	ZONE HEIGHT, FT	NUMBER OF PEOPLE			AVG TIME PERIOD FOR OCCUP, HR	LOCAL ZONE EXH, CFM	OA REQUIREMENTS BASED ON			MIN BOX POSIT %	OUTDOOR AIR TO ZONES						SUPPLY AIR TO ZONES						FINAL OA FLOW AT DESIGN SA FLOW, CFM				
					ASHRAE TABLE	USER INPUT	VALUE USED Pz			CFM/PERSON Rp	CFM/SF Ra	AC/HR		OA CFM TO BREATHING ZONE			AIR CHANGE BASED, CFM	PRIMARY AIR FRACTION, Zpz	SELECTED OA VALUES		DESIGN COOLING LOAD, CFM	MIN FLOW CFM	MIN FLOW WITH RECIRC, CFM	MAX FLOW WITH RECIRC, CFM	ZONE RECIRC EFFIC, Er		SELECTED VALUES			
														OCCUP BASED Pz*Rp CFM	AREA BASED A2*Ra CFM	TOTAL OA REQ Vbz, CFM			ZONE AIR DISTRIB EFFECTIV, Ez	TOTAL OA REQ Voz, CFM							OA CFM	OA CRITERIA	BASED CFM	BASED CFM/SF
182 COMMUNITY DINING		2,480	100	10	248	104	104	0.5	0	7.5	0.18	0.0	100%	780	446	1,226	80%	1,533	0	35%	1,533	ASHRAE 62	0	0	3,625	5,500	100%	3,625	LOAD	1,515
182A STORAGE		225	0	9	0	0	0	3.8	0	0.0	0.12	0.0	100%	0	27	27	80%	34	0	96%	34	ASHRAE 62	0	0	50	50	100%	50	LOAD	21
183A ADA TOILET 3		54	0	9	0	1	0	0.0	50	0.0	0.00	0.0	100%	0	0	0	80%	0	0	0%	0	EXH ONLY	0	0	25	25	100%	25	LOAD	10
183B ADA TOILET 2		48	0	9	0	1	0	0.0	50	0.0	0.00	0.0	100%	0	0	0	80%	0	0	0%	0	EXH ONLY	0	0	25	25	100%	25	LOAD	10
183C ADA TOILET 1		47	0	9	0	1	0	0.0	50	0.0	0.00	0.0																		