

## VENTILATION REQUIREMENTS AT THE SYSTEM AIR INTAKE

<b>System summary:</b>	S-1	S-2	S-3
Maximum of the space outdoor air fractions	32%	25%	0%
System ventilation efficiency, $\eta_2$	0.8	0.9	1
Peak occupancy: Maximum of col.AH	114	0	0
Sum of the space design occupancies	114	16	0
Occupant diversity: line 9/line 10	100%	0%	0%
Diversity x $\Sigma(\text{People} \times \text{ft}^3/\text{min}/\text{person}) + \Sigma(\text{Space area} \times \text{ft}^3/\text{min}/\text{ft}^2)$	1,945	165	0
Outdoor airflow rate at air-intake (Line 12/Line 8), $\text{ft}^3/\text{min}$	2,431	183	0
Percent of outdoor to supply air volumes	19%	0%	0%

Space	System	Space supply airflow rate, $\text{ft}^3/\text{min}$	Min. airflow rate: col.D x MinAir%, $\text{ft}^3/\text{min}$	System 1 Outdoor- to-Supply Air ratio	System 2 Outdoor- to-Supply Air ratio	System 3 Outdoor-to- Supply Air ratio
101	1	1,668	1,668	23%	0%	0%
102	1	247	247	5%	0%	0%
103	1	437	437	5%	0%	0%
104	1	871	871	7%	0%	0%
105	1	47	47	22%	0%	0%
106	1	1,055	1,055	17%	0%	0%
107	1	703	703	13%	0%	0%
108	1	548	548	6%	0%	0%
109	1	467	467	4%	0%	0%
110	1	2,437	2,437	7%	0%	0%
111	1	239	239	4%	0%	0%
112	2	516	516	0%	5%	0%
113	1	680	680	32%	0%	0%
114	1	1,840	1,840	6%	0%	0%
115	1	424	424	3%	0%	0%
116	1	98	98	13%	0%	0%
117	2	244	244	0%	7%	0%
118	2	239	239	0%	6%	0%
119	1	2,021	2,021	24%	0%	0%
120	1	936	936	12%	0%	0%
121	2	850	850	0%	17%	0%
122	2	167	167	0%	25%	0%

123	3	0	0	0%	0%	0%
124	3	0	0	0%	0%	0%
125	3	0	0	0%	0%	0%
126	3	0	0	0%	0%	0%
127	3	0	0	0%	0%	0%
128	3	0	0	0%	0%	0%
129	3	0	0	0%	0%	0%
130	3	0	0	0%	0%	0%
131	3	0	0	0%	0%	0%
132	3	0	0	0%	0%	0%
133	3	0	0	0%	0%	0%
134	3	0	0	0%	0%	0%
135	3	0	0	0%	0%	0%
136	3	0	0	0%	0%	0%
137	3	0	0	0%	0%	0%
138	3	0	0	0%	0%	0%
139	3	0	0	0%	0%	0%
140	3	0	0	0%	0%	0%
141	3	0	0	0%	0%	0%
142	3	0	0	0%	0%	0%
143	3	0	0	0%	0%	0%
144	3	0	0	0%	0%	0%
145	3	0	0	0%	0%	0%
146	3	0	0	0%	0%	0%
147	3	0	0	0%	0%	0%
148	3	0	0	0%	0%	0%
149	3	0	0	0%	0%	0%
150	3	0	0	0%	0%	0%



Occupancy = Maximum occup

0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
0	0	0	0	0	0	0	0	10	10	10	10
0	0	0	0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	0	0	2	2	2	2
0	0	0	0	0	0	0	0	4	4	4	4
0	0	0	0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	0	0	16	16	16	16
0	0	0	0	0	0	0	0	6	6	6	6
0	0	0	0	0	0	0	0	2	2	2	2
0	0	0	0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	0	0	11	11	11	11
0	0	0	0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	13	13	13	13
0	0	0	0	0	0	0	0	7	7	7	7
0	0	0	0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	0	0	1	1	1	1
0	0	0	0	0	0	0	0	30	30	30	30
0	0	0	0	0	0	0	0	7	7	7	7
0	0	0	0	0	0	0	0	9	9	9	9
0	0	0	0	0	0	0	0	3	3	3	3



Occupancy x Occupancy Schedule%											
12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
10	10	10	10	10	10	0	0	0	0	0	0
1	1	1	1	1	1	0	0	0	0	0	0
2	2	2	2	2	2	0	0	0	0	0	0
4	4	4	4	4	4	0	0	0	0	0	0
1	1	1	1	1	1	0	0	0	0	0	0
16	16	16	16	16	16	0	0	0	0	0	0
6	6	6	6	6	6	0	0	0	0	0	0
2	2	2	2	2	2	0	0	0	0	0	0
1	1	1	1	1	1	0	0	0	0	0	0
11	11	11	11	11	11	0	0	0	0	0	0
1	1	1	1	1	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
13	13	13	13	13	13	0	0	0	0	0	0
7	7	7	7	7	7	0	0	0	0	0	0
1	1	1	1	1	1	0	0	0	0	0	0
1	1	1	1	1	1	0	0	0	0	0	0
1	1	1	1	1	1	0	0	0	0	0	0
1	1	1	1	1	1	0	0	0	0	0	0
30	30	30	30	30	30	0	0	0	0	0	0
7	7	7	7	7	7	0	0	0	0	0	0
9	9	9	9	9	9	0	0	0	0	0	0
3	3	3	3	3	3	0	0	0	0	0	0



Peak system cooling load hour	Occupancy at Peak Hour in col. AG
17	10
17	1
17	2
17	4
17	1
17	16
17	6
17	2
17	1
17	11
17	1
0	0
17	13
17	7
17	1
17	1
0	0
0	0
17	30
17	7
0	0
0	0

