

GENERAL GUIDE

AIR EXCHANGE RATE - FREE HANGING UNITS

NOTES: 1. The AER (recirculation) is based on equivalent make-up air of acceptable standards

2. The Estimated Occupancy and CFM/Person are as listed in table 2, ASHRAE standard 62-1989

3. The suggested AER is based on areas with an arbitrary ceiling height of 12 feet.

4. * The AER has been adjusted or determined based on experience.

APPLICATION	ESTIMATED OCCUPANCY P/1000 FT ²	CFM/PERSON	SUGGESTED AER RANGE (MINUTES)
COMMERCIAL			
Assembly Rooms (Hotel)	120	15	6-8
Auditoriums (Educational)	150	15	4-6
Ball Rooms	100	25	4-6
Bar Rooms	100	30	3-5
Barber Shops	25	15	20-30*
Beauty Salons	25	25	15-20
Bingo Halls	100	30	3-5
Bowling Alleys	70	25	8-10*
Cafeterias (Fast Food)	100	20	5-7
Class Rooms	50	15	12-16*
Cocktail Lounges	100	30	3-5
Computer Rooms (Data Entry)	60	20	9-11
Conference Rooms (Hotel)	50	20	11-13
Dining Rooms	70	20	8-10
Discos	100	25	4-6

APPLICATION	ESTIMATED OCCUPANCY P/1000 FT ²	CFM/PERSON	SUGGESTED AER RANGE (MINUTES)
COMMERCIAL			
Fraternal Organizations	100	15	7-9
Gambling Casinos	120	30	2-4
Game Rooms, Amusement	70	25	8-10
Libraries	20	15	20-30*
Lobbies, Hotel	30	15	20-30*
Lobbies, Theaters	150	20	3-5
Office Space	—	20	VARIES*
Reception Areas (Offices)	60	15	12-14
Reducing Salons	20	15	20-30*
Restaurants	70	20	8-10
Smoking Lounges	70	60	2-4
Transportation Waiting Rooms	100	15	7-9
INDUSTRIAL			
Auto Body Shop	—	—	4-8*
Diesel Fume	—	—	4-8*
Dental Labs	—	—	4-8*
Metal Cutting EDM	—	—	4-8*
Metal Cutting Torch	—	—	4-8*
Metal Working	—	—	4-8*
Plastic Smoke	—	—	4-8*
Printing Shops	—	—	4-8*
Resistance Welding Smoke	—	—	4-8*
Soldering Fume	—	—	4-8*
INDUSTRIAL			
Welding Fume	—	—	4-8*
Woodworking	—	—	4-8*