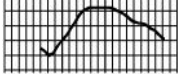
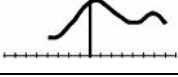
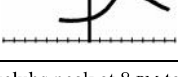
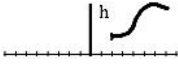

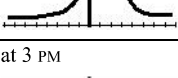
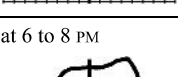
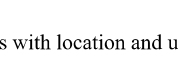
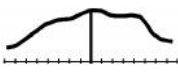
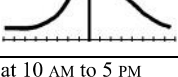
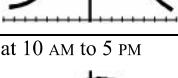
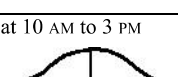



Table 1 General Design Criteria^{a, b}

| General Category | Specific Category | Inside Design Conditions | | Air Movement | Circulation, air changes per hour |
|---|---------------------------------|--|-----------------------------|---|--------------------------------------|
| | | Winter | Summer | | |
| Dining and Entertainment Centers | Cafeterias and Luncheonettes | 21 to 23°C 20 to 30% rh | 26°C ^d 50% rh | 0.25 m/s at 1.8 m above floor | 12 to 15 |
| | Restaurants | 21 to 23°C 20 to 30% rh | 23 to 26°C 55 to 60% rh | 0.13 to 0.15 m/s | 8 to 12 |
| | Bars | 21 to 23°C 20 to 30% rh | 23 to 26°C 50 to 60% rh | 0.15 m/s at 1.8 m above floor | 15 to 20 |
| | Nightclubs and Casinos | 21 to 23°C 20 to 30% rh | 23 to 26°C 50 to 60% rh | below 0.13 m/s at 1.5 m above floor | 20 to 30 |
| | Kitchens | 21 to 23°C | 29 to 31°C | 0.15 to 0.25 m/s | 12 to 15 ^g |
| Office Buildings | | 21 to 23°C 20 to 30% rh | 23 to 26°C 50 to 60% rh | 0.13 to 0.23 m/s 4 to 10 L/(s·m ²) | 4 to 10 |
| Museums, Galleries, Libraries and Archives | Average | 20 to 22°C 40 to 55% rh | | below 0.13 m/s | 8 to 12 |
| | Archival | See Chapter 21 | | below 0.13 m/s | 8 to 12 |
| Bowling Centers | | 21 to 23°C 20 to 30% rh | 24 to 26°C 50 to 55% rh | 0.25 m/s at 1.8 m above floor | 10 to 15 |
| Communication Centers | Telephone Terminal Rooms | 22 to 26°C 40 to 50% rh | 22 to 26°C 40 to 50% rh | 0.13 to 0.15 m/s | 8 to 20 |
| | Radio and Television Studios | 21 to 23°C 40 to 50% rh | 23 to 26°C 45 to 55% rh | 0.13 to 0.15 m/s | 15 to 40 |
| Transportation Centers (also see Chapter 13) | Airport Terminals | 23 to 26°C 30 to 40% rh | 23 to 26°C 40 to 55% rh | below 0.13 m/s at 3.7 m above floor | 8 to 12 |
| | Ship Docks | 21 to 23°C 20 to 30% rh | 23 to 26°C 50 to 60% rh | 0.13 to 0.15 m/s at 1.8 m above floor | 8 to 12 |
| | Bus Terminals | 21 to 23°C 20 to 30% rh | 23 to 26°C 50 to 60% rh | 0.13 to 0.15 m/s at 1.8 m above floor | 8 to 12 |
| | Garages ^l | 4 to 13°C | 27 to 38°C | 0.15 to 0.38 m/s | 4 to 6 Refer to NFPA |
| Warehouses | | Inside design temperatures for warehouses often depend on the materials stored. | | | 1 to 4 |

Table 1 General Design Criteria^{a, b} (Concluded)

| Noise ^c | Filtering Efficiencies (ASHRAE Standard 52.1) | Load Profile | Comments |
|--------------------------|---|---|---|
| NC 40 to 50 ^e | 35% or better | Peak at 1 to 2 PM  | Prevent draft discomfort for patrons waiting in serving lines |
| NC 35 to 40 | 35% or better | Peak at 1 to 2 PM  | |
| NC 35 to 50 | Use charcoal for odor control with manual purge control for 100% outside air to exhaust ±35% prefilters | Peak at 5 to 7 PM  | |
| NC 35 to 45 ^f | Use charcoal for odor control with manual purge control for 100% outside air to exhaust ±35% prefilters | Nightclubs peak at 8 PM to 2 AM Casinos peak at 4 PM to 2 AM Equipment, 24 h/day | Provide good air movement but prevent cold draft discomfort for patrons |
| NC 40 to 50 | 10 to 15% or better |  | Negative air pressure required for odor control (also see Chapter 31) |
| NC 30 to 45 | 35 to 60% or better | Peak at 4 PM  | |
| NC 35 to 40 | 35 to 60% or better | Peak at 3 PM  | |
| NC 35 | 35% prefilters plus charcoal filters 85 to 95% final ¹ | Peak at 3 PM  | |
| NC 40 to 50 | 10 to 15% | Peak at 6 to 8 PM  | |
| to NC 60 | 85% or better | Varies with location and use | Constant temperature and humidity required |
| NC 15 to 25 | 35% or better | Varies widely because of changes in lighting and people | Constant temperature and humidity required |
| NC 35 to 50 | 35% or better and charcoal filters | Peak at 10 AM to 9 PM  | Positive air pressure required in terminal |
| NC 35 to 50 | 10 to 15% | Peak at 10 AM to 5 PM  | Positive air pressure required in waiting area |
| NC 35 to 50 | 35% with exfiltration | Peak at 10 AM to 5 PM  | Positive air pressure required in terminal |
| NC 35 to 50 | 10 to 15% | Peak at 10 AM to 5 PM  | Negative air pressure required to remove fumes; positive air in pressure adjacent occupied spaces |
| to NC 75 | 10 to 35% | Peak at 10 AM to 3 PM  | |