

Ventilation in Spaces



Ventilation in spaces is effective in reducing droplet and aerosol transmission, in addition to the current safe management measures

Indoors: Air changes per hour (ACH) matters

What is Air changes per hour?



How many times the entire volume of air in a room is changed in 1 hour



Central Air Conditioning

- High efficiency filter
- Fresher air



Split Unit Air Conditioning

- Fewer air changes per hour

Outdoors: Wind speed and direction matters

- When the wind is blowing in your direction, aerosols from another person can reach you even if they are some distance away¹
- Wear a mask if not exercising
- Maintain safe distancing and observe personal hygiene



¹Yang, Xia, et al. "Integrated assessment of indoor and outdoor ventilation in street canyons with naturally-ventilated buildings by various ventilation indexes." Building and Environment 169 (2020): 106528.

Indoor Ventilation Tips

Venue	Ventilation Environment	Additional Measures
Offices, Restaurants, Classrooms	Fan Open Windows	None needed
	Split Unit Air Conditioning	Ventilate room every 6 hours

All tests conducted by A*STAR, IMRE; modelling by A*STAR, IHPC

Air changes per hour in Public Transportation



Every six minutes, all the air in a train will be changed out². That is excluding the opening and closing of the train doors

² No evidence of local cases transmitted on public transport, taken from The Straits Times

