

## CDC Guidance on Ventilation in Schools and Childcare Facilities

Ventilation is critical for mitigating the risk of COVID-19 transmission in buildings, and the CDC has recently released guidance on ventilation in schools and childcare facilities. The guidance is available at:

<https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/ventilation.html>

The overall premise is to dilute any potentially contaminated air (i.e. air with viral particles) with fresh, outdoor air in combination with increased filtration. More specifically, the guidance calls for use of the below recommendations:

- Increase outdoor air flow
  - Meet outside when possible
  - When safe, open windows and doors to the outdoors and use fans to blow indoor air outside
- Ensure HVAC systems are up to code and meet ASHRAE Standard 62.1
- Reconfigure or set HVAC systems to limit recirculation and bring in outdoor air as much as possible
  - Ensure indoor humidity levels remain between 30% and 60%
  - Increase total airflow when possible
  - Disable demand-controlled ventilation
- Set fan to "on" instead of "auto"
- Run HVAC at maximum fresh air intake for 2 hours before and after the building is occupied, if possible
- Increase filtration as much as system can handle
- Ensure filters are correctly sized, installed, and replaced
- Consider using portable HEPA filtration units especially in high-risk areas
- Consider using ultraviolet irradiation in HVAC system as a supplemental treatment
  - This treatment must be installed by a qualified professional
  - Direct UV light at the coil
- Run restroom and kitchen exhaust fans constantly or at least 2 hours before, during, and after occupation
- Open windows in transportation vehicles

**For additional information, please contact:**

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