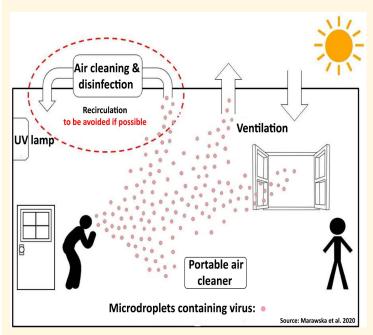


## **COVID AND HOME INDOOR AIR QUALITY**

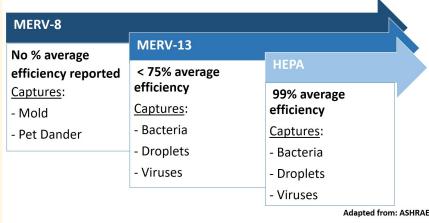


## NEW RESEARCH SHOWS GREATER RISK OF COVID TRANSMISSION INDOORS

- Virus aerosols expelled by coughing, sneezing and talking can travel much farther than six feet and across small rooms.
- Virus aerosols can remain suspended in air for up to 40 hours!
- Ventilation and filtration can reduce the airborne concentration of viruses.
- Reducing exposure requires several protective measures includining room ventilation, air filtration, distancing, masks, handwashing, and surface cleaning.



MINIMUM EFFICIENCY REPORTING VALUE (MERV) FILTER RATING FOR AVERAGE EFFICIENCY ON PARTICLE SIZES



Indoor air quality controls to reduce risks for airborne transmission

## **IMPORTANT INDOOR AIR QUALITY TIPS:**

- Properly ventilate your home to reduce airborne transmission. Open screened windows or doors when weather permits.
- Avoid air recirculation unless adequate filtration/disinfection systems are in place.
- For home HVAC filters, use a minimum of a Minimum Efficiency Reporting Value (MERV)-13 rating to help trap virus particles.
- Supplement ventilation systems with portable air cleaners, e.g. HEPA filters. Be sure to size filter for the room and change filters as recommended.
- Follow mask use, distancing, handwashing, cleaning if someone is infected.

## **RESOURCES:**

ASHRAE: https://www.ashrae.org/technical-resources/resources

Consumer Reports Air Purifier Buying Guide: <a href="https://www.consumerreports.org/cro/air-purifiers/buying-guide/index.htm">https://www.consumerreports.org/cro/air-purifiers/buying-guide/index.htm</a>

Do-it-Yourself Air Filter: <a href="https://www.wired.com/story/could-a-janky-jury-rigged-air-purifier-help-fight-covid-19/">https://www.wired.com/story/could-a-janky-jury-rigged-air-purifier-help-fight-covid-19/</a> and <a href="https://www.youtube.com/watch?v=Y7eL2OAnqc8&feature=youtu.be">https://www.youtube.com/watch?v=Y7eL2OAnqc8&feature=youtu.be</a>

EPA: https://www.epa.gov/coronavirus/indoor-air-and-coronavirus-covid-19

Morawska et al. 2020: https://www.sciencedirect.com/science/article/pii/S0160412020317876

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