

Be aware of what's in the air

# IMPROVE AIR QUALITY

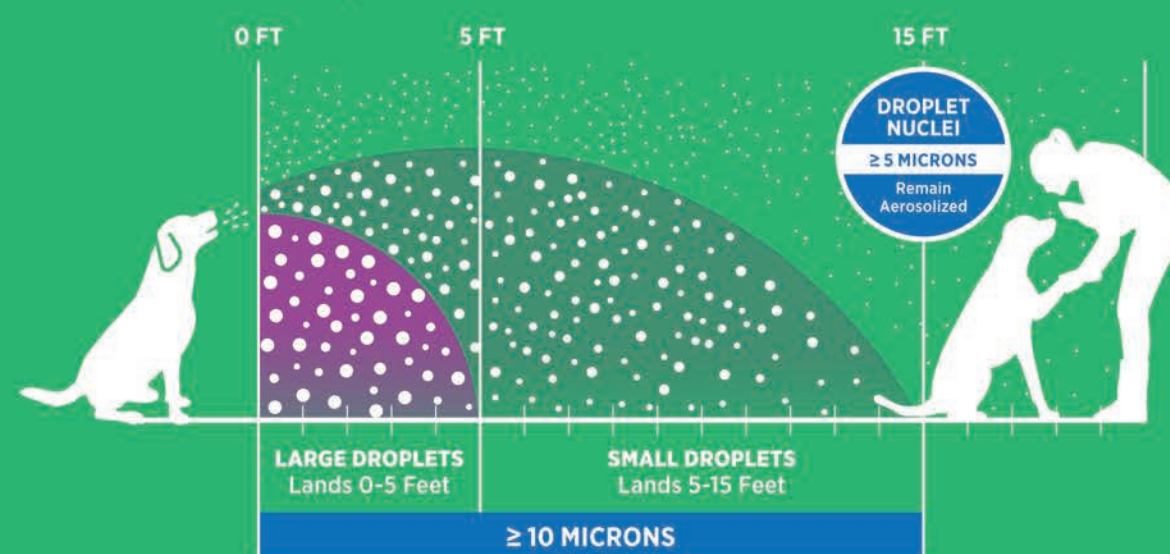
to reduce the spread of disease  
to people and pets

## How the air can make people and pets sick<sup>1-3</sup>

- Coughing, sneezing, and even talking propel droplets into the air
- Droplets can carry infectious pathogens beyond 6 feet
- Some land on surfaces
- Others evaporate into droplet nuclei that can stay in the air indefinitely

## Disease spreads when a person or animal inhales infectious pathogens<sup>1,2</sup>

Infectious Droplet and Airborne Transmission



*"...when you see someone smoking and you see that plume dispersing, that's what happens with viruses in the air, too."<sup>4</sup>*

- Linsey Marr, airborne disease transmission expert

## Help stop the spread of disease to pets and people with:



### VACCINE PROTOCOLS



### SURFACE/FOMITE CLEANING AND DISINFECTION



### AIR DISINFECTION

## Disinfect the air with properly sized filters and ultraviolet germicidal irradiation (UVGI), like PetAirapy's Zone 360<sup>2,3</sup>

- Be aware that ASHRAE\* only recommends UVGI and filters for air cleaning technology<sup>2</sup>
- Choose the right filter for your HVAC system with an effective Minimum Efficiency Reporting Value [MERV] rating to trap disease-causing organisms<sup>1,2</sup>
- Install UVGI with proven high kill rates against pathogens—ask for manufacturer studies<sup>2,3</sup>
- Adhere to guidelines (like the CDC in the US) for standalone upper air UVGI units<sup>5</sup>
- Purchase air cleaning equipment that does not produce ozone, potentially reaerosolize pathogens, or emit dangerous levels of UV exposure<sup>5,6</sup>

## KEEP THE AIR CLEAN TO HELP KEEP PEOPLE AND PETS SAFE

- Replace UV lamps and air filters regularly—follow manufacturer recommendations<sup>3,5</sup>
- Keep vents and returns clear of anything that might block air flow<sup>3</sup>
  - Hair
  - Room dividers
  - Furniture



## Remember

- People and pets produce droplets carrying pathogens
- Proper use of filters and UVGI can remove infectious pathogens from the air
- Maintain air-cleaning equipment to help keep people and pets safe

\*American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

References: 1. Stull JW, Bjorvik E, Bub J, Dvorak G, Petersen C, Troyer HL. 2018 AHA infection control, prevention, and biosecurity guidelines. *J Am Anim Hosp Assoc.* 2018;54(6):297-326. 2. ASHRAE. ASHRAE position document on infectious aerosols. 2020. Atlanta: ASHRAE. 3. Centers for Disease Control and Prevention. Infection Control: Background C. Air. <https://www.cdc.gov/infectioncontrol/guidelines/environmental/background/air.html>. Accessed September 1, 2020. 4. Hockman C. Optimal conditions for viral transmission. *American Scientist.* April 3, 2020. <https://www.americanscientist.org/blog/macroscope/optimal-conditions-for-viral-transmission>. Accessed September 1, 2020. 5. Centers for Disease Control and Prevention. Department of Health and Human Services; National Institute for Occupational Safety and Health. Environmental control for tuberculosis: basic upper-room ultraviolet germicidal irradiation guidelines for healthcare settings. March 2009. DHHS (NIOSH) Publication No. 2009-105. 6. United States Environmental Protection Agency. Indoor Air Quality (IAQ). <https://www.epa.gov/indoor-air-quality-iaq/what-are-ionizers-and-other-ozone-generating-air-cleaners>. Accessed September 10, 2020.

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