

STRATEGIES TO REDUCE COVID-19 EXPOSURE IN FACILITIES

The following strategies have been shown to reduce the transmission of infectious diseases through airborne particles. While many technologies claim to increase occupant health and safety, those listed below have solid evidence to support a substantial value addition to your project.

Implementing these strategies have minimal upfront costs, but these minor additions can be highly leveraged for occupants' health and safety. Often, these costs are only a fraction of a percent of the entire construction cost of the building. In addition, this investment has a high return by increasing productivity and health of building occupants. While the future cannot be predicted, it is likely that national standards will be updated in the wake of this pandemic to include or confirm the use of these technologies in general construction practices.



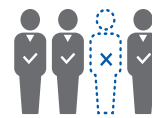
HIGHER
PRODUCTIVITY



INSTILL
CUSTOMER
CONFIDENCE



LOWER
HEALTHCARE
COSTS



REDUCED
ABSENTEEISM



WIN
TENANTS

Increased Mechanical Filtration Efficiency

There is significant evidence of health benefits for higher filtration strategies

ASHRAE Standard 62.1 requires minimum MERV 8 filters for commercial buildings.

- Option 1: MERV 13
 - Proven to reduce risk of infectious diseases
 - LEED credit
 - Established industry efficiency rating standard
- Option 2: Electronic Filters
 - Reduces operational cost
 - Potential to reduce risk of infectious diseases
 - No efficiency rating standard

Ultraviolet Germicidal Irradiation (UVGI)

UVGI disinfection has been proven to be highly effective in inactivating microorganisms.

- Option 1: Coils and drain pans
 - Mold often grows on cooling coils in HVAC systems due to moisture condensation and can be reintroduced into the building's indoor air. Installing UV lamps near coils and drain pans can significantly improve the air supplied by the HVAC system.
- Option 2: In-duct airstream disinfection
 - In-duct UVGI system is more effective than UVGI coil disinfection, but constructability and cost limit its application.

