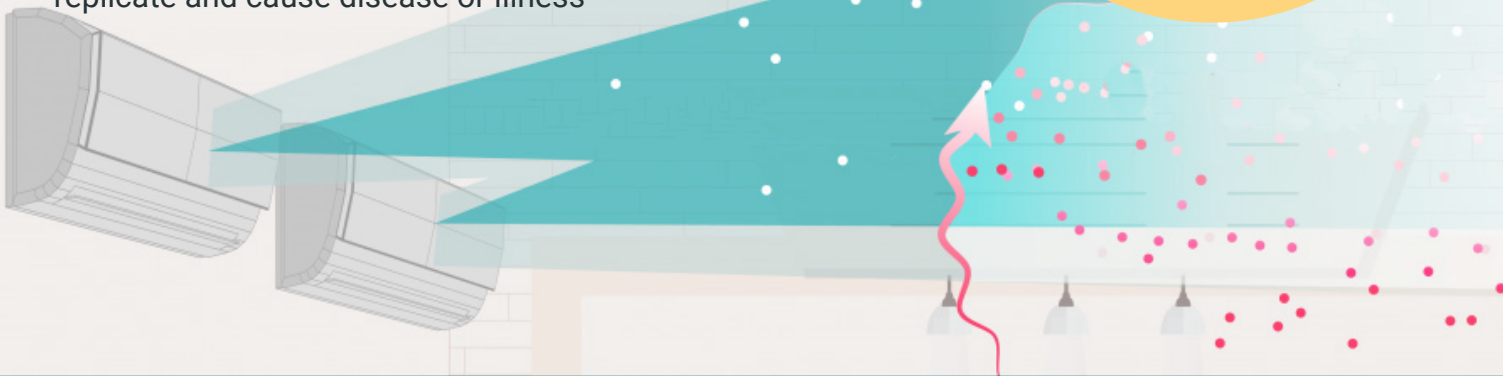


UPPER ROOM DISINFECTION UVGI



In-room UVGI is a powerful method of disinfection that requires significant capital and operational costs. These systems are well suited for health care facilities and spaces with higher disinfection requirements. In other settings, an in-room HEPA filter is a more suitable alternative.

Ultraviolet germicidal irradiation, or UVGI, uses short-wave UV energy to inactivate viral, bacterial, and fungal organisms so they are unable to replicate and cause disease or illness



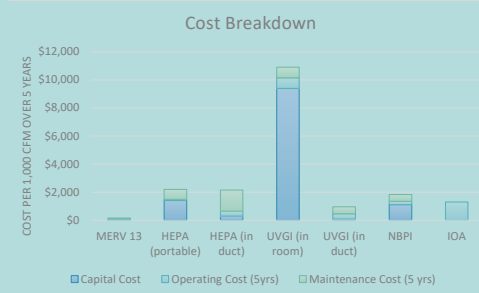
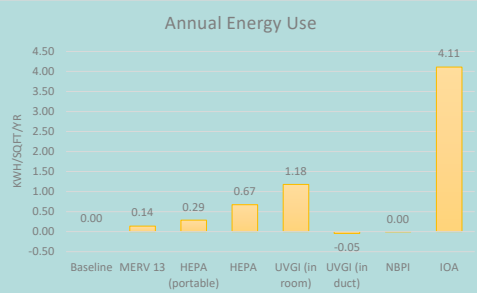
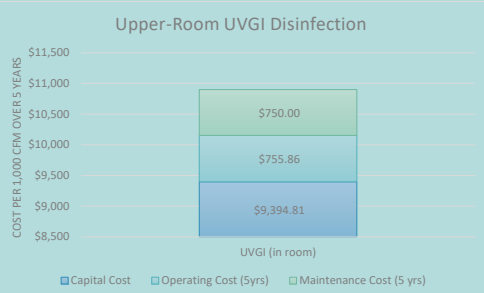
⚡ + 1.18 kWh/sqft

💰 + \$151.17 /1,000cfm

👍 Properly Installed and operated lamps are 99% effective [5].

DESIGN GUIDELINES

- Approximately one 17W lamp per every 200 ft² [3].
- Ideal UV-C intensity for disinfection is >10 uW/cm² [3].
- Mount fixtures no less than 7 ft from the floor in a room with a minimum ceiling height of 8 ft [3].
- Replace lamps every 1-2 years, or according to manufacturers recommendations [5].
- Well-mixed spaces increase the amount of air that comes into contact with the UV beam.
- Effectiveness of UVGI depends highly proper installation and operation.



1. ASHRAE "ASHRAE Epidemic Task Force" Core Recommendations for Reducing Airborne Infectious Aerosol Exposure, 2021, Accessed 2021.
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 3. "Fundamentals of UVGI" ASHRAE, 12 May 2021, Online Webinar.
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