



HALO AIR PURIFICATION STATIONS

A self-sustainable permanent infrastructure improvement.

1 How to control viral transmission between residents and staff.

Indoor Air Quality (IAQ) plays a significant role in resident/patient health as exposure to aerosolized viruses and bacteria is highly related to the buildings ventilation (HVAC), or lack thereof. Proper ventilation and filtration need to be addressed to reduce viral load concentrations.

However, ventilation from traditional HVAC creates air streams from a supply vent to a return vent, which can create disruption and dirty to clean airflow patterns, which are not conducive to providing room level mitigation. A filtration system needs to address these concerns to reduce breathing zone exposure and room level mitigation.

3 Sanitizing initiatives, are they enough?

Surface decontamination is critical in stopping the spread of viruses, however the air is the most significant factor that needs to be addressed.

Though this is usually a daunting and extremely costly task, permanent improvements can be achieved *without the need to upgrade the buildings HVAC*. In fact, with traditional HVAC, SARS-CoV-2 viral RNA copies have been found on the return vents of patients rooms. This validates that airborne viruses travel the way of the facilities air stream, which surface disinfection does not control.

2 Addressing psycho-social factors from Isolation.

Treating the air within the room allows for more confidence in keeping doorways open for the patients mental health.

Doing so mitigates the risk of pathogenic particles escaping the isolation room.

Airborne particles should be captured vertically to ensure optimal capture efficiency, improved ventilation effectiveness and proven reduction in load concentration.

4 The cost of isolation as it relates to quarantine.

Reducing the spread of viruses has a significant impact on your bottom line. **As of November 6th, it has been estimated** that 600,000 residents and staff members have been infected by COVID-19, putting the national quarantine cost ~ \$1.6 billion, which is an estimated \$2,800 for every 14 day quarantine period. If infections are reduced by just 50%, that would bring the national quarantine cost down to \$840 million. More importantly, deaths associated with infections are currently estimated at 92,000. If we can reduce these numbers by the same 50% we have saved 46,000 lives.

Protection from above with the Halo Air Purification Station



- Ceiling mounted for proper vertical direction airflow patterns for improved Ventilation Effectiveness
- Adds additional 2.5 HEPA filtered air changes per hour (ACH), for every 3,500 cu' of air volume processed
- 99.995% efficiency at capturing particles as small as 0.01 microns
- **Proven reduction of aerosolized viruses** during challenge tests of greater than a log 4 reduction
- Proven reduction of airborne RNA copies within positive patients rooms vs. a patient room without a Halo equipped.