Hospital Acquired Infections (HAI)

Bad news about hospital care in America

Centers for Disease Control (CDC) estimates \$45 billion is added to the annual healthcare costs to treat HAIs.

HAIs are the 4th major cause of death with an estimated 1.7 million patients contracting an HAI, resulting in 99,000 deaths each year.

HAIs represent 4.5 infections out of every 100 hospital admissions, extending average length of stay by 177%.

4 Common Ways to Reduce HAI Risks and Key Issues

Filtration

Filter is deployed to eliminate hazardous agents at the source of exposure. However, safe disposal of trapped pathogens creates costly maintenance, training and daily procedural compliance issues.

Purification

Using ultraviolet germicidal irradiation (UVGI) alone to increase kill rate is not adequate. One also has to balance the duration the pathogens are exposed to radiation and the air flow pattern.

Pressure

Using differential pressure, directional airflow is created to isolate contaminants in the area. If the intake and exhaust are not separate, it would result in the creation of infinite air loops and reduces kill rate.

Dilution

Adequate air changes per hour via ventilation is crucial. Room level purification is the name of the game to reduce HAI risks where UVC works on a granular and local basis.

The Integrated Arcalux[®] Health Risk Management System

- Four lines of defense, combining filtration, purification and dilution with positive pressure, working simultaneously and unobtrusively in the background to quietly target and remove 99% of pathogens (including bacteria, viruses and fungi) 24 hours a day at room level with ease of maintenance.
- This room-level purification system utilizes the patented Arcalux[®] SmartFixture[™]Lighting System as the delivery platform to irradiate with optimal zonal ventilation and re-circulate air at every corner of the room.
- Employing CDC's recommended hierarchy of controls to eliminate agents at the source, Arcalux[®] helps you increase your patient outcome, and simultaneously reducing administrative, clinical and operating costs for your healthcare facility.



Contact us for more information: 795 West 20th Street, Hialeah, Florida 33010 Ph.: 305-885-5343 | Fax: 305-832-5700 | www.totalceilingsolutions.com Arcalux® SmartFixture™ (United States Patent Office No. 7,922,351)

