



The Trusted Authority for Healthcare Facilities

Healthcare Industry Benefits:

- Improve patient outcomes
- Mitigate risk of Hospital Acquired Infections (HAIs)
- Mitigate risk of infection spread to hospital staff and reducing absenteeism
- Reduce energy consumption, and eliminate chemical coil cleaning

Valkr Ray UV Solutions is dedicated to providing UVC products that contribute to improving environmental conditions in healthcare facilities for patients, medical staff, employees, and visitors. The use of UVC improves indoor environments and contributes to improved patient outcomes. It also promotes efficient performance of HVAC equipment with less maintenance and extends equipment lifecycles. Determining the best solution(s) for pathogen reduction starts with identifying the specific healthcare space and its unique challenges.

- Patient exam rooms
- Hospital rooms
- Administrative offices
- Hallways
- Nurses stations
- Pharmacies
- Patient isolation rooms
- Waiting rooms

UVC Solutions

Types of disinfection incorporating UVC energy include:

- In-AHU and In-Duct disinfection
- Upper-room/upper-air UVGI
- Surface/room decontamination

Challenges: Healthcare Facilities

- Indoor air quality (IAQ).
 - Airborne pathogens are a source of infection and disease.
 - HVAC bio-burden spreads infectious bio-aerosols and increases energy consumption.
 - High energy and maintenance costs.
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UVC Disinfection Products for Healthcare Facilities

UVC for IAQ and Energy Efficiency

In AHU and In Duct UV Fixtures

In-AHU and In-Duct UV fixtures, such as the Lumalier AR Series UVC Fixtures, are installed inside ventilation systems to provide high-level, facility-wide disinfection of the airborne infectious pathogens that can cause respiratory sickness, disease, and infection. In-AHU and In-Duct fixtures are scalable to fit any size air handler unit (AHU).

- Achieves the greatest square foot coverage at the lowest cost.
- Uses the existing ventilation system to disinfect and distribute air.
- Eliminates biological growth on coils and in the drain pan that can cause coil fouling, odors, and premature failure of air conditioning equipment.
- Provides facilities with an ROI benefit with reduced energy consumption and maintenance.

UVC for IAQ

Upper-Air UV Fixtures

Upper-air UV fixtures are engineered to provide very targeted airborne pathogen reduction in high-risk areas.

- Installation applications include waiting rooms, exam rooms, nurses stations, etc.
- Units are available for high or low ceilings and for any square footage.
- Units can be permanently or temporarily installed for flexible space uses.
- Natural convection-currents create repeated air disinfection within defined spaces. Fan assisted models are available.

UVC for Risk Management

Surface Disinfection

Surface disinfection UV fixtures are engineered for high-level disinfection of contaminated surfaces that can spread infection.

- Appropriate for temporary disinfection of contaminated floors, desks, and table surfaces.
- Ideal for treatment of difficult-to-disinfect surfaces, such as keyboards, monitors, lab and cafeteria equipment and for use in pharmacies, patient isolation rooms, morgues, or any area where contaminated surfaces exist.
- Surface disinfection units are available in both fixed and portable options.