



The Trusted Authority for Municipal & Office Buildings

Municipal & Office Buildings Benefits:

- Inactivates environmental pathogens to reduce risk of sick building syndrome and building related illnesses
- Improves occupant performance and reduces risk
- Reduces energy consumption
- Eliminates coil cleaning

Valkr Ray UV Solutions is dedicated to providing UVC products that contribute to improving environmental conditions in office buildings for employees, visitors, and employers. The use of UVC improves indoor environments and contributes to enhanced employee productivity and reduced absenteeism. It also promotes efficient performance of HVAC equipment with less maintenance and extends equipment lifecycles. Achieving the best results in pathogen reduction starts with identifying the specific space and challenge, which can be unique to office building environments:

- Cubical spaces
- Work/collaboration rooms
- Break rooms
- Conference rooms
- Kitchens
- Lobbies
- Waiting areas
- Gathering areas
- Court 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: Municipal & Office Buildings

- Poor indoor air quality (IAQ), which impacts employee performance and attendance.
 - Spread of infectious agents.
 - High energy and maintenance costs.
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UVC Disinfection Products for Municipal & Office Buildings

UVC for IAQ and Energy Efficiency In AHU and In Duct UV Fixtures

In-AHU and In-Duct 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 cubical spaces, work/collaboration rooms, break rooms, conference rooms, kitchens, lobbies, waiting areas, 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 floors, desks, and table surfaces that have been contaminated.
- Ideal for treatment of difficult-to-disinfect surfaces, such as keyboards, monitors, lab and cafeteria equipment.
- Surface disinfection units are available in both fixed and portable options.

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The Trusted Authority for Correctional Facilities

Correctional Facility Benefits:

- Inactivate environmental pathogens to reduce inmate and staff infection rates and illnesses
- Reduce risk and legal exposure
- Reduce energy consumption by AHUs and eliminate chemical coil cleaning

Valkr Ray UV Solutions is dedicated to providing UVC products that contribute to improving environmental conditions in correctional facilities for inmates, facility staff, and visitors. The use of UVC improves indoor environments and contributes to reduced inmate and staff infection rates and illnesses. It also promotes efficient performance of HVAC equipment with less maintenance and extends equipment lifecycles. Determining the best solution for pathogen reduction in a correctional facility starts with identifying the specific area and challenge:

- Cafeterias
- Administrative buildings
- Medical evaluation rooms
- Hallways • Living quarters
- Common areas

UVC Solutions

Types of disinfection incorporating UVC energy include:

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

Challenges: Correctional Facilities

- Indoor air quality (IAQ).
 - Rising cost of treatment for inmates and staff for airborne diseases.
 - Spread of infectious agents.
 - Inefficient HVAC systems are costly to operate.
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UVC Disinfection Products for Correctional Facilities

UVC for IAQ and Energy Efficiency

In AHU and In Duct UV Fixtures

In-AHU and In-Duct fixtures, such as the 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 lobbies in administrative buildings, hallways, cafeterias, common areas, 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 floors, desks, and table surfaces that have been contaminated.
- Ideal for treatment of difficult-to-disinfect surfaces, such as keyboards, monitors, lab and cafeteria equipment.
- Surface disinfection units are available in both fixed and portable options.