

# Why Retrofit UV-C in your Building?

**UVC light fixtures are an effective way to inactivate viruses like COVID-19 in a building's air handling system. Retrofitting UV-C in your building can help keep your occupants safe and healthy and save you money. Lumalier products are specifically engineered for retrofitting into existing AHUs. Here's a list of the benefits:**

- Inactivates pathogens such as COVID-19, Influenza A and B, Staph, Legionella, and Tuberculosis.
- Improves indoor air quality (IAQ) and aids in reduction of sick days/absenteeism.
- Mitigates risks, liabilities, and costs.
- Eliminates insulating biofilm to improve heat exchange and air flow, which has been proven to reduce Air Handling Unit (AHU) energy consumption by about 20%.
- Reduces AHU workload, improves efficiency, and increases equipment life.
- Eliminates biological growth on coils and in the drain pan that can cause coil fouling and odors.
- Achieves a measurable return on investment (ROI) within one to three years. (Based on usage and energy costs.)
- Avoids unsustainable UVC lamp replacement costs with Lumalier's non-proprietary Philips lamps.
- Provides a key component of HVAC Reliability Centered Maintenance (RCM).

We have years of experience in turnkey retrofit installations and can provide solutions that benefit each specific application and project requirement.

“The use of UVGI in the vicinity of cooling coils has the additional benefit of improving heat transfer and more efficient equipment operation.”

*“Building Retrofits for Increased Protection Against Airborne Chemical and Biological Releases”  
2007 EPA Report, Pg. 57*

# How Do Lumalier AR Fixtures Make It Easy to Retrofit UV-C?



## 1. Water-proof Electrical Quick-connects

Metal-clad, three-pin modular quick-connects permit fast, easy, installation of any size AR fixture, substantially reducing electrical contractor costs.

## 2. Accessible Ballasts

Philips / Advance electronic UVC ballasts mount directly to the Unistrut to reduce heat, improve product life, and are enclosed in an easily removable ballast cover for simple maintenance.

## 3. Metal-clad Wiring and Connectors

No wire coverings, rubber, plastic, or other degradable within the AHU; meets all local, state and national codes.

## 4. 'Boxed I-beam' Aluminum Unistrut Extrusion Construction

Horizontal and vertical adjustable support and lamp structures are rated to support more than 2000 lb. / in<sup>2</sup>.

## 5. AR Fixtures are Scalable to Custom-fit into Any Size AHU

AR (Adjustable Rack) lamp bars are vertically adjustable to center on cooling coils, and horizontally adjustable to avoid motors and other obstacles. Available two to ten lamps wide; one to four rows high, perfectly sized to any AHU.