

University Buildings: Use of UVGI Inside HVAC Air Handling Units

Applications & Benefits

Today, with a heightened focus on air and surface disinfection, understanding there are solutions for creating safe and healthy indoor spaces for university students, faculty, staff, and visitors is important.

Tom Barrow Company has been using surface disinfection in air handling units for more than twenty years, with hundreds of installations. The HVAC Industry commonly uses UVC for surface disinfection on coils and drain pans to eliminate microbial growth, and we are proud to represent Evergreen UV, the recognized leader in advanced UV Germicidal Air Disinfection products designed to benefit the Institutional market and others.

Evergreen UV's products have become the industry benchmark for safe, healthy air and surface disinfection, becoming the first UV manufacturer to attain UL approval for duct-mounted UV accessories (UL classification ABQK). UVGI is a proven technology that has been employed for more than 75 years, and recent improvements in the technology have made it more affordable and available.

TBCo and Evergreen UV will work together to help identify the best products for specific applications throughout campuses.

Benefits of using Evergreen UV products in Air Handling Units:

- Disinfects up to 99.9% of airborne bacteria and viruses
- Reduces odors and respiratory allergens
- Reduces airborne transmission of influenza, colds and viruses
- Inhibits black mold and fungal growth
- Safety switches protect against accidental UV exposure
- Philips Germicidal Sterilamp™ tubes (nonproprietary) for reliable lamp availability — do not produce ozone
- In addition, the use of UVC in AHUs keeps coils and drain pans clean



University Applications:

- Lab and Research Buildings
- Dorms
- Athletic Facilities
- Classrooms & Lecture Halls
- Administrative Buildings
- Student Centers & Student Union Buildings

Contact Tom Barrow Company for more information on specific design steps for a UVC air disinfection system and steps for URV calculations to size systems.

