

UV Germicidal Solutions

The CK Series is budget-friendly, easy-to-install, and ideal for new construction

- Increase Efficiency
- Prolong Equipment
- Improve Indoor Air Quality

# Protect Public Spaces from Pathogens with UV Solutions from American Ultraviolet



**American Ultraviolet®**

Since 1960. It's all we do.



## Modular OEM Kit for HVAC Applications

The CK series was developed primarily as an OEM solution for custom air handling unit (AHU) manufacturers. Because new AHU's are installed without the presence of pathogens, including bacteria, viruses and mold, the goal of the CK Series is to prevent these contaminants from developing in commercial and government office buildings, hospitals, manufacturing plants, shopping malls, convention centers, airports, research facilities, educational institutions, and other public spaces where people gather. After all, as Benjamin Franklin said, "An ounce of prevention is worth a pound of cure."

Because the CK Series is designed for new AHU's, where pathogens aren't already present, substantially less UVC energy is needed, which helps make the CK Series very budget-friendly, and very easy-to-install. Important details include:

- Control enclosure drives up to sixteen (16) high-output UVC lamps
- Lamps sizes from 18" to 60" in length (shatterproof coating is available)
- Electronic enclosure is multi-voltage and multi-frequency, therefore compatible with 110-277V at 50 or 60Hz.

**Custom air handler with CK Series installed**



- LED indication (per ballast) confirms the ballasts are operating correctly
- Lamp cables are available in lengths up to 30 feet to provide power to lamps in separate air handlers
- Reflectors (optional) provide additional intensity
- Easy-to-use mounting hardware makes connecting lamps (and optional reflectors) to inexpensive electrical conduit quick and simple

The CK Series uses a proven watertight lamp socket connection that allows you to choose between standard, shatterproof, or double-walled lamps with CK Series electrical enclosures.

The CK series is not UL listed, because it is intended for OEM equipment installation, and certification will need to be done in the field after the installation is completed. Where possible, American Ultraviolet has used UL-listed components in the modular components of the CK series.





**American Ultraviolet UVC lamps inside an air handling unit**

## CK Series

### Applications

The CK Series is the perfect budget-friendly, easy-to-install OEM solution for new air handling units. Lamps can be placed in multiple AHU's, and run from a single power enclosure.

### Specifications

#### Lamps

- High-output; 17,000 hour, low-mercury UVC lamps
- Lamps available as 18, 24, 36, 45 and 60"
- Water-tight lamp base connection
- Optional shatterproof coating

#### Power Supply

- Multi-voltage (110-277V) and multi-frequency (50/60Hz)
- LED indication of proper ballast functioning
- Lamp cables available up to 30' long
- Water-tight lamp cable connection into power supply
- Ballasts run single or dual lamp configurations

#### Mounting Hardware

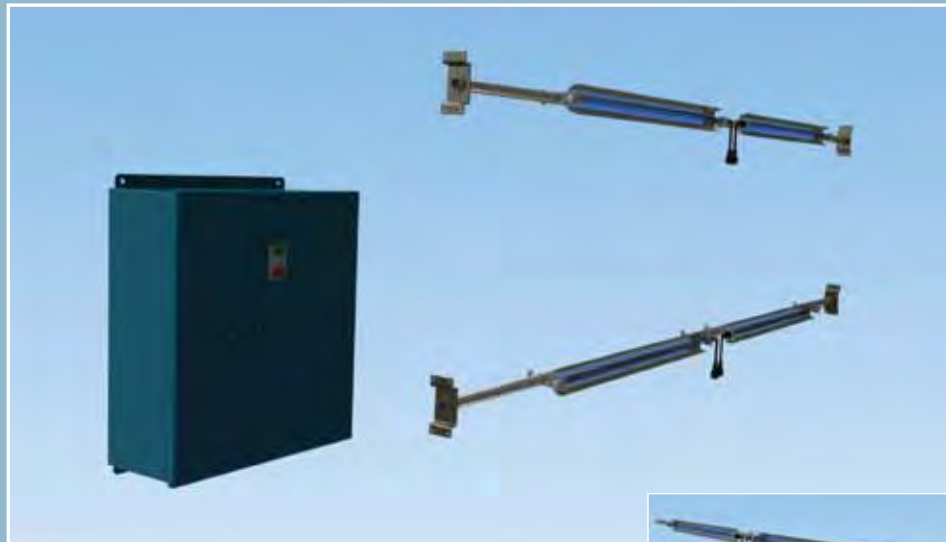
- Designed to securely hold lamps
- Attach easily to rigid conduit

### Features

- Up to 16 lamps can run from a single enclosure
- Long-lasting lamps with high UVC output
- Multiple lamps of various lengths, and lamp cables, can be used from a single power enclosure
- Multi-voltage; multi-frequency for world wide compatibility
- Saves money while providing necessary UVC energy
- Moisture-resistant design ideal for AHU's
- 10-year warranty on ballasts

### Benefits

- Decreased installation time
- Decreased installation costs
- Inexpensive conduit used as mounting rail
- Maximum installation flexibility because of modular design
- Decreased maintenance due to long lamp life (17,000 hours)
- Environmentally responsible low mercury content lamps



*Example of a 4-lamp system with reflectors and single control enclosure*



*Horizontal rail mounting*



*Alternative mounting to vertical supports*



Learn More at  
[www.americanultraviolet.com](http://www.americanultraviolet.com)



## Additional AHU Products from American Ultraviolet

CC Series fixtures from American Ultraviolet are very robust, and designed to mount in all types of AHU scenarios (new and retrofit). While extremely versatile and dependable, the CC Series may be more than necessary for a brand new AHU.

For some projects the PEK and GTLK "lamp & ballast combo kits" are a fine option – they include a single lamp, mounting hardware, a ballast, and a lamp cable (wired to ballast).

DC Series fixtures are another possibility for external installation in medium-to-large AHU's. And the NC Series (NEMA 4X) are a great solution for rooftop A/C units, or in ductwork, because they enable easy access to difficult to reach outdoor locations.

Learn more about all American Ultraviolet products by visiting [www.americanultraviolet.com](http://www.americanultraviolet.com) or by contacting your representative.



**CC Series**



**DC Series**



**NC Series**



**PEK Series**

*"The lights are awesome. And I am most impressed with your service - the goods were here when you said they would be; the quartz sleeves arrived as replacements when you said they would; and the fixtures work better than you said they would. I have installed some in a very nasty sewage room where we have a wet HVAC system that we clean weekly so that it works properly. This room historically had the most horrible smell one could imagine. I installed your lights, and within 2 days the smell was gone. Your company is literally transforming our living space into a safer, more enjoyable place to work, and for that, I thank you. Your company has transformed our nastiest working environments into areas we can feel a little more comfortable in doing the nastiest jobs, and for that, we ALL thank you for your help in keeping us safe."*

John  
Electrical Systems Department  
with a Major Hospital

# Why UVC

## UVC Is Efficient and Safe

UVC Germicidal Fixtures increase the value of all air conditioning and air-circulating systems by:

- Maximizing system efficiency
- Prolonging blower life
- Providing healthier air to breathe

Treating air that passes through an HVAC unit with ultraviolet light will reduce, or eliminate, DNA-based airborne contaminants (bacteria, viruses, mold spores, yeast, protozoa), and provide much healthier air to breathe. UVC Germicidal Fixtures are a labor-free solution that will not harm occupants, equipment or furnishings because they produce no ozone or secondary contaminants. For more than 70 years, tens of thousands have been safely installed in hospitals, clinics, processing plants, commercial offices, manufacturing sites and other commercial facilities and multi-and single-family residences around the world.

## Filters and Coil Cleaning

Filters are necessary to trap dust, pollen and other particles, however, to remove harmful bacteria and viruses from the air stream you need the addition of UVC light to render these microorganisms sterile, and therefore unable to reproduce.

Cleaning coils is like treating symptoms. Using UVC Germicidal Fixtures from American Ultraviolet Company, on the other hand, is actually more like curing the disease.

Without UVC, coils require constant cleaning, an expensive and inferior process that often relies on toxic and/or flammable solvents that are dangerous, and that can diminish the life of the coil. Cleaning also frequently leaves material embedded in the center of the fin pack. Steam cleaning, in particular, can actually force growth deeper into the fin pack, compressing it so tightly that the only solution could be to replace the coil.

## Financial Benefits

UVC Germicidal Fixtures keep coils clean all of the time, enabling HVAC systems to perform as originally intended, and ensuring:

- System efficiency
- Longer equipment life
- Lower energy and maintenance costs

They'll often pay for themselves in months and can help you save many thousands of dollars in on-going energy and maintenance costs. In addition, UVC Germicidal Fixtures play a very important role in improving air quality and will eliminate the awful odor and slimy build up associated with mold and bacteria that thrive when temperatures are between 50-100F (especially when moisture is present), and that make air unhealthy for all building and residential occupants. Healthier employees mean better productivity and less sick time.



# UV Germicidal Solutions



Since 1960 American Ultraviolet® has manufactured close to 100,000 effective UVC germicidal fixtures for commercial, healthcare and residential applications. Our germicidal ultraviolet fixtures reduce harmful pathogens, increase efficiency, prolong equipment life and improve indoor air quality, in part because American Ultraviolet® germicidal UV fixtures feature the highest output lamps, enabling them to deactivate more bacteria, viruses and mold across a wider temperature and air velocity range than all others.

In addition to the CK Series, American Ultraviolet also provides the following products for HVAC applications:

- **CC Series**

Ideal for internal installation in medium to large air handling systems in commercial, industrial, healthcare, and institutional buildings.

- **DC Series**

Ideal for external installation in medium-to-large air handling systems in commercial, industrial, healthcare, and institutional buildings

- **NC Series**

High-output (NEMA 4X) fixtures are installed on the exterior of rooftop A/C units, or in ductwork, and enable easy access to difficult to reach outdoor locations

Contact American Ultraviolet today to discuss a bacteria barrier for your building. Invite American Ultraviolet to help you protect public spaces from the spread of pathogens by installing CK Series germicidal fixtures in your buildings. They're budget-friendly, easy-to-install, and ideal for new construction projects. They will also help you increase energy efficiency, prolong HVAC equipment life, and improve indoor air quality. Learn more by visiting us at [www.americanultraviolet.com](http://www.americanultraviolet.com) or by calling **1.800.288.9288**.



**American Ultraviolet®**

Since 1960. It's all we do.

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