

Carrier UV-C Light

Keeping occupants healthy

The pandemic has exposed the need for elevated levels of cleanliness and hygiene. In this new normal, we are now searching for ways to pro-actively safeguard and disinfect air in closed spaces to help protect building occupants from airborne contaminants. Our years of leading the HVAC industry through innovation and quality has driven us to design a highly reliable and effective UV-C light solution to help reduce biofilm formation and inactivate bacteria, mold spores, fungi and viruses.

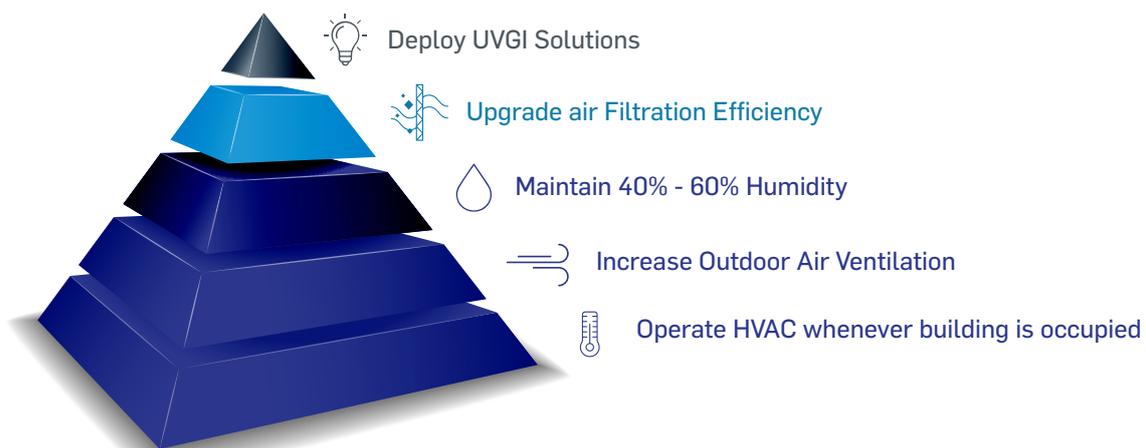
Carrier UV-C lights are applicable to both the air handling unit (AHU) and fan coil unit (FCU) in HVAC systems across most built environments.

What is UV-C Light?

Ultraviolet-C (UV-C) refers to the short-wavelength (between 200 to 280 nanometers) radiant energy used in ultraviolet germicidal irradiation (UVGI) applications, which is highly effective at killing bacteria and viruses by destroying the molecular bonds that hold their DNA together. In doing so, the virus loses the ability to reproduce.

How it works with AHU & FCU units

As air enters the air handler, the air stream will be exposed to the UV-C light and the irradiated coil surfaces will be sanitized in the process. With the appropriate exposure duration, air duct dimensions, and number of lamps installed, both the air and coil surfaces can be effectively cleansed and disinfected.



Solutions for increasing indoor air quality

Why is it effective in AHU and FCU units?



- Greatly improves indoor air quality through the elimination of bacteria and virus formation on coil surface.
- Eradicates microbial build-up and prevents it from becoming airborne.
- Does not create ozone, odor, moisture or contaminants.
- Occupies minimal space in AHU/FCU.
- Optimizes energy efficiency through enhancing air flow and heat exchange efficiency.

Benefits



Environmentally responsible & toxin free

The light produces no secondary contaminants, odor, moisture or ozone that can pose any threat to human health.



Radiation Safe

Stainless steel reflector enhances the radiation intensity and effectiveness. Necessary safety interlock to be considered in the product to avoid direct exposure to the UV-C light.



Prolonged Coil Life

Carrier UV-C lights keep coil surfaces clean and sustains the efficiency, which translates into enhanced coil life and increased energy efficiency.



Flexibility

Choose between factory-fitted options and separate frame support kits.



Reliability

Carrier UV-C solutions are made with high-quality material to give them a long and durable life.



Selection Software

Carrier uses a proprietary and validated modeling tool to help customers select their most optimum UV-C option for their airside system design.

For years we have successfully and expertly heated, cooled, ventilated and conditioned air. Now we have purified it. Get the best solutions for cleaner and safer air today.



Read our whitepaper to learn more about the science of ultraviolet technologies