



# Decontaminate

## UV-C Product Overview

Apache Technical Services develops and delivers engineered products to reduce infinitesimally small risks at the greatest possible scale. **We create safer spaces with advanced technical solutions.**

Our line of UV-C products provides businesses with the approach necessary to minimize the risks of contagion and contamination in your space.

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### AIRrow Light 2000

The science behind the AIRrow UV-C Filtration System relies on a two-stage High Efficiency Particulate Air (HEPA) filter and purification process followed by UV-C light treatment. The AIRrow destroys dangerous microorganisms in the air.

- Pulls air and contaminates toward the ground, away from breathing level, and into the air filtration system and UV-C treatment chamber
- Outer washable nylon mesh filter
- Inner second pleated media filter that captures smaller particles such as dirt and debris
- 2-inch thick High Efficiency Particulate Air (HEPA) filter captures 99.7% of airborne particles 0.3 micrometers in diameter.
- Optional carbon filter can capture smoke and other noxious odors
- UV-C Decontamination
- Cycles 175 ft<sup>3</sup> of air per minute
- For use in office spaces and homes
- Safe for use around people, pets, and plants
- Designed to run for hours for continuous air cycling

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### Tomahawk Light

Perfect for the disinfection of hard to clean surfaces such as remote controls, keyboards, equipment with many accessories, and inaccessible areas that require frequent wipe downs. The Tomahawk Light destroys dangerous microorganisms on surfaces.

- 25 watt 18-inch UV-C Germicidal Bulb
- Lightweight Aluminum Construction
- Dosage: 1 inch away from surface = 1 second of cleaning time

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### Tomahawk 2000 & 3000 UV-C Lamps

The Tomahawk relies on UV-C technology to actively seek and destroy microorganisms in the air and on hard surfaces. The Tomahawk is able to decontaminate closed and open spaces with 99.9% effectiveness of destroying viruses, bacteria, and more. The Tomahawk destroys dangerous microorganisms in the air and on surfaces.

- Constructed using lightweight Carbon Steel
- Portable, easy to move and reposition
- Applicable in closed and open spaces
- Remote operated
- Four or Eight 30-Watt Germicidal UV-C Bulbs
- 110 – VOH Three-Prong Plug

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### AIRrowSwift 5000

The AIRrowSwift incorporates UV-C technology into existing air conditioning and filtration systems for small buildings, warehouses, as well as tents, trailers, and other facilities. The UV-C technology eradicates particles and viruses in the air as it passes through the AIRrowSwift chamber prior to allowing them to circulate through air vents. The AIRrowSwift destroys dangerous microorganisms in the air.

- Sterilizes air entering occupied spaces such as tents, shops, small buildings, and warehouses
- Placed in-line as part of an external A/C package
- UV-C technology decontaminates air as it passes through
- Fully encased in 1-inch thick closed-cell insulation
- Four 30-Watt Germicidal UV-C Bulbs

Members of the OMNIA Partners program receive additional discounts on products to help you create safer spaces with advanced technical solutions.

To learn more, visit:

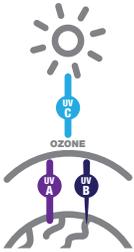
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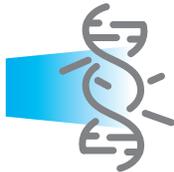
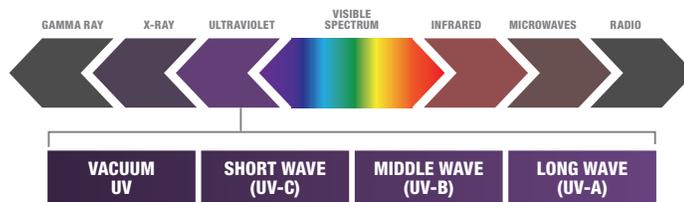
**apache** technical services  
a division of apache industrial services

# UV-C Light Technology Explained

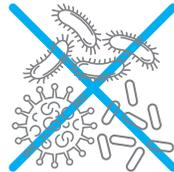
UV-C light is already being used in hospital and industrial settings to decontaminate equipment, rooms, and water. Learn more about what it is and how it works to destroy dangerous microorganisms:



UV-C light encompasses a wavelength range of 200 to 280 nanometers (nm), and at certain wavelengths (between 222 and 254 nm approximately), UV-C light is germicidal and proven effective in destroying dangerous microorganisms.



Exposure to UV-C light breaks down cell walls, reaches the cell's DNA and RNA, initially inactivating the cell from multiplying. With increased exposure, light continues to break down the organic material, destroying the cell entirely.



Studies have proven that UV-C light is effective in destroying viruses and bacteria (salmonella, E. coli, cold and flu strains), and molds, not only on hard surfaces but in the air as well.



Ultimately, UV-C decontamination is most effective when used in conjunction with standard cleaning protocols.

“UV light, specifically between 200-280nm[j] (UVC or the germicidal range), inactivates (aka, ‘kills’) at least two other coronaviruses that are near-relatives of the COVID-19 virus: 1) SARS-CoV-1 and 2) MERS-CoV.” **cdc.gov**

“UVC light is highly effective at killing bacteria and viruses by destroying the molecular bonds that hold their DNA together.” **Columbia University Medical Center**

Numerous studies show that [UV] is effective at reducing hospital- acquired infections and combating so-called superbugs. In 2014, one Texan hospital used it in the clean-up after an Ebola case. More than 500 healthcare facilities, mostly in the US, have the machine. In California and Nebraska, it has already been put to use sanitizing hospital rooms where coronavirus patients received treatment. **BBC**