

LED UV-C

DISINFECTATION BY Grote

GROTE'S DISINFECTING LIGHT FOR HVAC SYSTEMS

THINKING OUTSIDE THE LIGHTING BOX

For one hundred and twenty years, the Grote name has stood for innovative lighting solutions and high-quality safety systems. Since introducing the world's first LED trailer marker light in 1989, Grote has become an industry leader in the heavy-duty LED lighting field. Now, utilizing our expertise with LED technology, Grote's engineers are departing from their traditional lighting mission by harnessing the power of UV-C light to help safely and effectively disinfect the air circulated on transit vehicles or in commercial buildings.

Assembled in North America utilizing the latest generation of highly efficient and reliable LEDs, Grote's cutting-edge UV-C technology is carefully calibrated to deliver powerful, disinfecting UV-C light at exactly the right wavelength. As an industry-leading manufacturer of LED lighting for heavy-duty applications, Grote has decades of experience creating quality products tough enough to resist the vibration and moisture present in a HVAC system.

* Bacterial reduction of Staphylococcus aureus is 99.987% in 30 seconds and 99.995% in 120 seconds, viral reduction of Human Coronavirus 229E is 99.98% in 30 seconds and 99.99% in 120 seconds. Third-party testing performed by Microchem Laboratory

UV-C
WAVELENGTH:
200 nm – 300 nm



DAMAGES
VIRUS DNA



At these wavelengths, ultraviolet light is readily absorbed by the nucleic acids of viruses, bacteria, molds, and pathogens, damaging their DNA to destroy or render them incapable of reproduction.

99.98%



BACTERIAL
REDUCTION



VIRAL
REDUCTION

In recent independent laboratory testing Grote's UV-C products delivered an impressive **99.987% bacterial reduction** and **99.98% viral reduction** after just thirty seconds of exposure.*

FOR MORE
INFORMATION
VISIT **GROTE.COM**

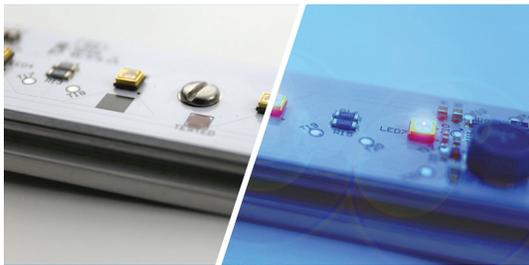
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Grote

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Our LED technology is a perfect match for UV-C applications, as it requires low DC voltage to operate, reaches full output with no warm-up time, operates under a wide range of temperatures, and features a lifespan of more than 13,000 hours. Although mercury-vapor lamps have been used as a source of disinfectant UV-C light for decades, new advances are leaving this technology in the past. With no fragile tubes of hazardous mercury to replace, and no bulky ballast and power inverters needed to function, Grote's UV-C LEDs offer a much simpler and easier solution.



In addition to the obvious advantages of cleaner air, the continual disinfection of the evaporator compartment inhibits mold and biofilm growth on the A/C evaporator fins. A cleaner internal environment allows the HVAC system to function more efficiently, increasing overall airflow and heat transfer capability, thereby conditioning the air more effectively and requiring less system cleaning and maintenance.

Grote's new UV-C disinfecting light puts the technology in your hands to take safety to the next level. With our reputation for creating quality products and high-tech solutions, you can take comfort knowing that your HVAC system is protected by Grote. Enjoy cleaner air, a more efficient HVAC system, and greater peace of mind for occupants with Grote's UV-C technology.

Excited to learn more?

Please contact your Grote sales representative.

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