

UV Light Disinfection & COVID Relief Packages



Purchasing UV Disinfection Technology with Coronavirus Relief Funds

While masks, sanitization stations, and dividers are viable safety measures, the best way to combat the virus and stay pro-active is with extra disinfection.

UV germicidal light is by far one of the most effective methods in eliminating germs and

viruses from your interior spaces. UV-C light has been used in hospitals and medical offices for many years, and is now becoming increasingly popular in educational facilities because of its effectiveness and safety. Best of all, the federal government has provided funding to help purchase sanitizing equipment and ventilation upgrades, all which include UV-C disinfection light.



Since March 2020, the U.S. government has passed three economic relief packages providing over \$200 billion for K-12 public and private education and \$75 billion for higher education. These funds are intended to help re-open schools safely (and quickly) and the funds cover a variety of eligible costs, including facility ventilation upgrades and sanitizing equipment (UV-C).



Intro to COVID Relief Packages

Air quality has become an extremely important factor when mitigating risks for reopening in-person learning. Therefore, all relief packages contain eligible categories that allow for the purchase of germicidal UV light technology to disinfect both air and surfaces.



Schools across the country are using COVID emergency relief funds to purchase healthcare-grade UVC disinfection equipment to sanitize their spaces.

Germicidal UVC light is one of the most effective methods of eliminating germs and viruses from interior spaces, making this technology ideal for disinfecting classrooms, dorms, and common area spaces on school grounds and campuses.

Hundreds of schools have already purchased UV-C products to re-open (and stay open) safely. **Check out a few examples below:**

- In April 2021, **South San Francisco Schools** introduced mobile UV-C units to disinfect classrooms.
- The **Gallup-McKinley School District** in New Mexico purchased 36 mobile UVC units to disinfect all interior school buildings.
- In 2021, **Indiana University of Pennsylvania** purchased UVC equipment for their campus.

What are the types of COVID relief programs & how is germicidal UV technology eligible for each fund?

1

Elementary & Secondary School Emergency Relief (ESSER) Fund

(Includes ESSER I, ESSER II & ARP ESSER)

2

Governor's Emergency Education Relief (GEER) Fund

(Includes GEER I, GEER II and also Emergency Assistance to Nonpublic Schools (EANS) Fund)

ESSER FUNDS

Elementary & Secondary School Emergency Relief (ESSER) Fund

The first batch of ESSER funds was created as part of the original CARES Act signed in March 2020. In December 2020, Congress passed the Coronavirus Response and Relief Supplemental Appropriations Act (CRRSA), which allocated money to the ESSER II fund and included a more in-depth description of allowable purchases, which included air purifiers and upgrades to air ventilation and air quality. The most recent stimulus package signed in March 2021, the American Rescue Plan (ARP) Act, allocated money for the what would essentially be the ARP ESSER fund and it included all allowable purchased from all previous funds, with a few additions.

ESSER I

Enacted in March 2020 as part of the federal Coronavirus Aid, Relief, and Economic Security (CARES) Act. Congress allocated a total of \$13.2 billion for the Elementary and Secondary School Emergency Relief (ESSER) Fund.

ESSER II

The Coronavirus Response and Relief Supplemental Appropriations Act (CRRSA Act), enacted on December 27, 2020, included an additional \$53.4 billion for the Elementary and Secondary School Emergency Relief Fund (ESSER II Fund). ESSER II funds were intended to support COVID-19 response efforts and may be spent on a wide range of allowable activities.

ARP ESSER

The ARP Act, enacted in March 2021, was essentially an addendum to the prior ESSER funding guidelines. This extension of ESSER funding included construction, renovation, and other facility projects as potential allowable uses of ARP ESSER funds.

ESSER FUNDS **Continued...**

How does UV Light fit into ESSER funding?

These funds provides emergency relief to schools that are developing re-opening plans after, and amidst, the pandemic. These funds may be used towards:

- Purchasing supplies to sanitize and clean interior spaces and facilities
- Facility repairs and improvements that enable safe in-person instruction and reduces the risk of virus transmission
- Inspection, testing, maintenance, repair, replacement, and upgrade projects that improve indoor air quality, including ventilation systems, air filtering, air purification and other air sterilization and fans

Is there a deadline for to apply?

ESSER I - An SEA or LEA has until **September 30, 2022** to obligate funds.

ESSER II - An SEA or LEA has until **September 30, 2023** to obligate funds.

ESSER ARP - No deadline; however, eligible school districts and charter schools are encouraged to apply by **September 1, 2021**.

How long are ESSER funds available?

An SEA must award ESSER funds within 1 year of receiving the award.

ARP ESSER - **September 30, 2024**

ESSER II - **September 30, 2023**

ESSER I **September 30, 2022**

GEER FUNDS

Governor's Emergency Education Relief (GEER) Fund

GEER funds (I & II) were allocated to state governors in the first two stimulus acts to address the impact of the pandemic on education.

How does GEER work?

Governors provide sub-grants to local educational agencies (LEAs) and institutions of higher education (IHEs) within their jurisdiction. These institutions are deemed by the Governor as having been “most significantly impacted by coronavirus”. An LEA that receives GEER funds may use them for a broad range of activities to prevent, prepare for, and respond to the COVID pandemic (which includes activities listed and allowed under ESSER).

GEER I (May 2020)

GEER I was intended to support preschool and early intervention, postsecondary institutions and adult basic education providers, career and technical and education centers (CTCs).

GEER II (January 2021)

Split into two categories: EANS and Other

- GEER II (Other) Congress set aside approximately \$3 billion for GEER split into two categories of funding: Educational Assistance for Nonpublic Schools (EANS) and Other.
- EANS - A nonpublic school may apply to receive a variety of services or assistance from the state education agency (SEA) through the EANS program to address educational disruptions resulting from COVID-19.

GEER FUNDS Continued...

How does UV Light fit into GEER funding?

These funds are intended to provide emergency relief to schools that are developing re-opening plans after, and amidst, the pandemic. These funds may be used towards:

- Purchasing supplies to sanitize and clean interior spaces and facilities
- Facility repairs and improvements that enable safe in-person instruction and reduces the risk of virus transmission
- Inspection, testing, maintenance, repair, replacement, and upgrade projects that improve indoor air quality, including ventilation systems, air filtering, air purification and other air sterilization and fans

Is there a deadline to apply?

Each Governor must award the State's allocation under the GEER Fund to eligible entities **within one year** of receiving the State's allocation of funds.

Funds from GEER I must be obligated by **September 30, 2022**

Funds from GEER II must be obligated by **September 30, 2023**

EANS FUND

Emergency Assistance to Nonpublic Schools (EANS) Fund

EANS is part of the GEER II fund authorized under CRRSA and it provides funding for non-public schools (including non-profit; accredited, licensed, or otherwise operates in accordance with State law; did not, and will not, apply for or receive funding under the Small Business Administration's Paycheck Protection Program (PPP)).

To receive services or assistance, an eligible non-public school must submit an application to the SEA. The SEA is then responsible for administering funds.

How does UV light fit into EANS funding?

These funds are intended to provide emergency relief to schools that are developing re-opening plans after, and amidst, the pandemic, particularly their ventilation systems. Funds may be used towards:

- Supplies to sanitize, disinfect, and clean school facilities*
- Improving ventilation systems, including windows or portable air purification systems*

How long are funds available?

Check with your local SEA - The Governor of each State must provide assurance that the SEA will obligate funds for services or assistance requested by eligible non-public schools within six months of receiving its funds. The SEA must return any unobligated funds remaining six months after receipt to the Governor for authorized uses. Schools requiring longer periods of time due to procurement requirements must contact the Department directly.

Why UV Light?

Why Should I Use Germicidal UVC Light?

In order for schools to re-open safely, each institution must mitigate risk and develop & implement a Health & Safety Plan. While masks, sanitization stations, and dividers are viable safety measures, Germicidal UV-C light is by far one of the most effective methods in eliminating germs and viruses from your interior spaces.



Ultraviolet Germicidal Irradiation (UVGI) is a disinfection method that utilizes short-wavelength UV-C and UV-B to kill pathogens by destroying nucleic acids and disrupting viruses, germs, and microorganisms DNA, rendering them essentially harmless.

This type of disinfection is especially important for schools because it not only kills Coronavirus, but it can kill other common illnesses that spread throughout schools including: Noroviruses, E.Coli, the flu, MRSA, and the common cold.



UV Disinfection Solutions

UVC Air & Surface Disinfection Options

Germicidal UV technology is implemented in a variety of ways and can be used to disinfect **both air and surfaces**. Major differences between surface and air disinfection is that some UV-C equipment must be used while the room is unoccupied, while other UVC products can be used while the room is occupied.

Air Purification

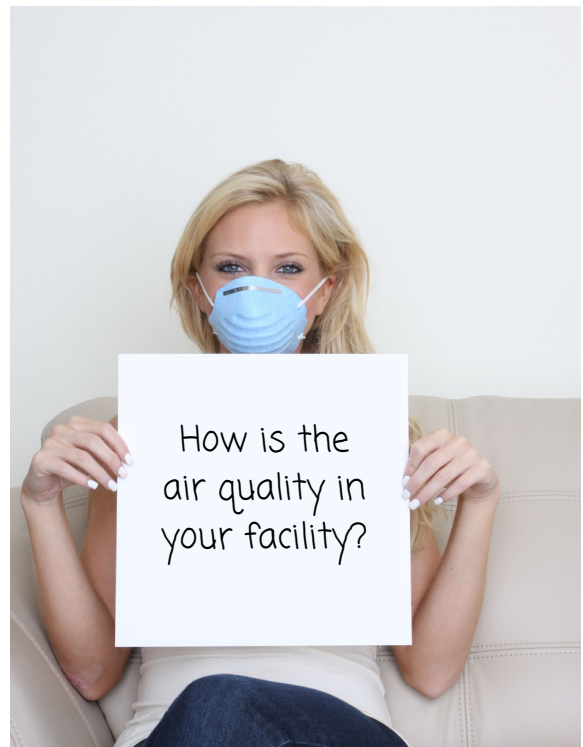
UVC equipment that disinfects the air is a great option for continuous disinfection. There are (2) primary methods that UV Light provides air disinfection. Each of which can be used even when spaces are occupied.

1.) In-Room Air Disinfection

- UV Air Fans
- Upper-Room UV

2.) HVAC Air Disinfection

- In-Duct
- On-Coil



1

In-Room Air Disinfection:

UV-C Air Purifiers that offer In-Room disinfection are typically wall mounted or mobile fixtures that cover up to 450 Sq. Ft per unit. These products utilize internal fan and filtration systems that circulate the air within a room over UVC Lamps. As pathogens within the air are exposed to the UVC light, causing damage to the germs DNA, leaving them unable to reproduce and cause illnesses.

UV Air Fans

UVC Fans are designed to disinfect air in occupied spaces and can be mobile enough to transfer to multiple spaces if needed. They are usually very quiet machines that covers about 2,000 cubic feet. These units are usually intended for smaller spaces like bathrooms, smaller class rooms and offices



Upper Room UV

Upper Air UV-C units are installed in high areas of a room, usually above people's heads where the rays do not come into direct contact with people. This is the specific type of UV-C is recommended by the CDC as a viable means to improve air quality. With this type of disinfection, the top layer of air is disinfected by the unit and circulated to the bottom layer, where people are breathing.

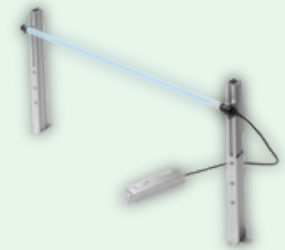


2 UV-C in HVAC Systems

HVAC UV systems disinfect the air as it flows through the HVAC system, either at the AHU or within the duct-work itself, eradicating viruses, bacteria, molds and spores.. This type of UV barrier inhibits the proliferation of pathogens settling inside the Air Condition Unit. In addition, the creation of biofilm is inhibited, increasing the Indoor Air Quality (IAQ) and comfort.

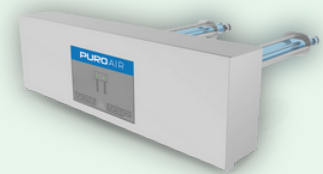
In-Duct

UV disinfection systems mounted in new or existing duct systems (you don't even have to get new duct work). They control the spread of airborne toxins by killing germs in the air before it circulates



On-Coil

For continuous disinfection for both coils and moving air in ventilators, fan coil units, and large AHUs. These are excellent for eliminating biofilms.



Surface (and Air) Purification

UVC equipment intended for surface disinfection provides **localized surface disinfection** and **spot treatment**. These units should only be used to disinfect unoccupied spaces.

In addition to the target surfaces, the air between the UVC unit and the surface/source is also disinfected, as light passes through the air to disinfect the surface. These units cannot be used when the room is occupied, and thus, are designed with sensors and controls, meaning the units automatically shut off when someone enters the room, or they can be programmed to shut off at a specific time.

UVC disinfection fixtures for surfaces are the most quantifiably **effective way to inactivate pathogens**.

There are (3) primary methods that UV Light provides surface disinfection. Each of which can NOT be used even when spaces are occupied.

1.) Fixed-Position UV Disinfection Fixtures

2.) Mobile UV Disinfection Fixtures

3.) UV Disinfection Robots

Fixed-Position UV Disinfection Fixtures

Fixed-Position UV Disinfection Fixtures: UVC fixtures that can be mounted in the ceiling, suspended, or on the wall. These units can be implemented with scheduled commissioning, integration into the facility Building Automation System (BAS), or simply utilized on demand. Multiple fixtures can be installed in a room or space, providing a scalable method of UVC disinfection for both large and small spaces.



Mobile UV Disinfection Fixtures

UVC Mobile units utilize the same fixture technically as Fixed-Position UV disinfection units, however they are mounted on stands that can be moved via folding tri-pods or rolling castors. These units or carts can be moved easily from room to room to disinfect multiple spaces. Mobile units most often utilize an on-demand single cycle operation and are designed to provide user flexibility in deployment. Similar to Fixed-Position UV disinfection fixtures, multiple mobile units can be deployed in a space, providing scalable disinfection for large or small spaces.



UV Disinfection Robots

These fully-automatic UV machines disinfect high traffic areas and shared spaces and can disinfect up to 1,000 feet of linear surface areas in an 8-hour shift. Scheduling of disinfection can be initiated or modified from anywhere using a mobile device, browser, or integration with a scheduling system.



»» All of these UV-C options can disinfect on demand with preset and controllable cycles. You can even run the cycles overnight or whenever the spaces are unoccupied, and all fixtures have automatic shutoff sensors if anyone enters the space during disinfection. (You can read more on Germicidal UVC Safety [here](#)). ««

**What's
Next?**

Contact Stouch Lighting

*We can create a customized
UV-C plan for you!*

Contact Us

If you want to learn more about UV-C light, you can explore all our [UV content here](#).