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intelligent building solutions

U.S. COVID-19 School Funding Details



CARES Act

Coronavirus Aid, Relief, and Economic Security Act

CRRSA Act

Coronavirus Response and Relief Supplemental Appropriations Act

Enacted	March 27, 2020	December 27, 2020
Total Amount	\$2.2 trillion	\$900 billion (part of larger \$1.4 trillion omnibus spending and appropriations bill)
Schools Allocation	\$13.2 billion (ESSER)	\$54.9 billion (ESSER II) +316%
Expiration	December 30, 2020	September 30, 2023*
Guidelines	<p>Improvement measures that:</p> <ul style="list-style-type: none">are necessary expenditures incurred due to the public health emergency with respect to (COVID-19); andwere not accounted for in the budget most recently approved as of the date of enactment of this section for the State or government; andWere incurred during the period that begins on March 1, 2020 and ends on December 30, 2020.	<p>New, specific measures include:</p> <ul style="list-style-type: none">School facility repairs and improvements to enable operation of schools to reduce risk of virus transmission and exposure to environmental health hazards and to support student health needs.Inspection, testing, maintenance, repair, replacement, and upgrade projects to improve indoor air quality including mechanical and non-mechanical heating, ventilation, and air-conditioning systems, filtering, purification and other air cleaning, fans, control systems, and window and door repair and replacement.Supplies to sanitize and clean facilitiesHandheld ionizers, hand sanitizer, chemicalsEducational Technology including hardware, software and connectivity

COVID-19 Building Checklist

Federal Guidance for K-12 Uses of ESSER Funds (I & II)

Ultraviolet

Reduces the spread of airborne pathogens, mold, and infectious disease molecules.

- Improved Indoor Air Quality
- Energy savings & reduced maintenance costs
- Portable solutions
- Chemical-free disinfection

Controls

Use existing building automation system to improve school air quality

- Sensors, valves & dampers
- Schedule daily air purge/flush pre and post occupancy
- Keep positive building pressure
- Maximize VAV supply air flow

Bipolar Ionization

Treats air in the space by emitting ions into airstream without Ozone

- 99.9% inactivation rate against COVID-19
- Installed in 27 schools and 13 universities in Ohio
- Virtually Maintenance-free
- Energy Savings via ASHRAE 62.1 Ventilation requirements.

Sanitizing & Cleaning

- Supplies to sanitize and clean facilities
- Disinfectants and sprayers
- Backpack chemical ionizers for quick disinfecting
- Cleaning kits and storage

Service Agreements

Engineering and service specialists can provide service agreements with existing systems

- Routine system maintenance
- Filter checks/changes
- Advanced indoor air quality strategies

HVAC Equipment

Boilers, chillers, rooftop units, etc.

- Replace aging systems that do not provide adequate ventilation or air quality
- Fans, motors, drives, coil cleaning, repair & replacement

Retro-Commissioning

Assess current condition of HVAC equipment operation and "re-tune" to ensure system can handle maximum ventilation rates during pandemic. .

- Inspection & testing
- Repair & replacement

Windows/Doors

Repair and replacement of building envelop assemblies

- Entry corridors
- Curtain walls
- Open/close mechanisms & seals

Signage & Equipment

- PPE
- Sneeze guards
- Portable air purifiers (UV, HEPA, etc.)
- Floor and wall signage