



# Understanding & Using the American Rescue Plan (ARP ESSER) Funds to Improve K-12 HVAC Systems

## Understanding the American Rescue Plan (ARP)

This document outlines the **American Rescue Plan Elementary and Secondary School Emergency Relief (ARP ESSER) Fund** under the American Rescue Plan (ARP) Act of 2021, Public Law 117-2, enacted on March 11, 2021.

**ARP ESSER** provides a total of nearly **\$122 billion to states and school districts** to help safely reopen and sustain the safe operation of schools and address the impact of the coronavirus pandemic on the nation's students.

In addition to **ARP ESSER**, the **ARP Act** includes **\$3 billion for special education, \$850 million for the Outlying Areas, \$2.75 billion to support non-public schools, and additional funding for homeless children and youth, tribal educational agencies, Native Hawaiians, and Alaska Natives.**

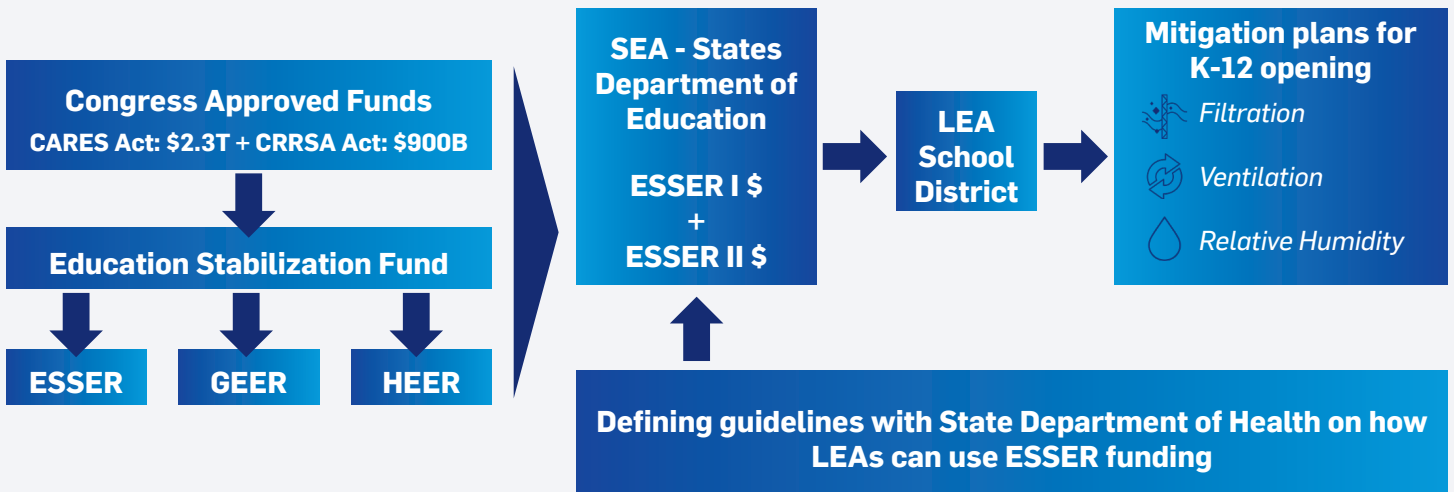
## ARP ESSER Funding Breakdown for Education

The **ARP ESSER Fund** includes three state-level reservations for activities and interventions that respond to students' academic, social, and emotional needs and address the disproportionate impact of COVID-19 on underrepresented student subgroups, including each major racial and ethnic group, children from low-income families, children with disabilities, English learners, gender, migrant students, students experiencing homelessness, and children and youth in foster care.

### State Allocation of ARP ESSER Funds

A **State must subgrant not less than 90% of its total ARP ESSER allocation to local educational agencies (LEAs)** (including charter schools that are LEAs) in the State to help meet a wide range of needs arising from the coronavirus pandemic, including **reopening schools safely, sustaining their safe operation, and addressing students' social, emotional, mental health, and academic needs** resulting from the pandemic. The State must allocate these funds to LEAs on the basis of their respective shares of funds received under Title I, Part A of the Elementary and Secondary Education Act of 1965 (ESEA) in fiscal year (FY) 2020.

**For more information:**  
[https://oese.ed.gov/files/2021/03/FINAL\\_ARP-ESSER-FACT-SHEET.pdf](https://oese.ed.gov/files/2021/03/FINAL_ARP-ESSER-FACT-SHEET.pdf)



# Meeting Federal Guidelines for Elementary Secondary School Emergency Relief Funds (ESSER) & State Education Agencies (SEAs)

Carrier Product Offering	Filtration <sup>1,2</sup>	Ventilation <sup>1,2</sup>	Relative Humidity <sup>1</sup>	Controls <sup>1</sup>	Utility Incentives for Energy
<b>Air Purifier</b> OptiClean™ <sup>3,4</sup>	HEPA - 99.97%	Reduction of O.A. ACHs	RH controls through less required O.A. ACH	Room recirculated ACH & run time	Implementing DCV
<b>Packaged Rooftop Units</b> WeatherMaker®/Master/Expert Series <sup>3,4</sup>	MERV-13	Economizer function for increased O.A. ACHs	Hot gas reheat & subcooling	DCV-CO <sub>2</sub> , RH & Run Time	Heat Pump
<b>Water Source Heat Pumps</b> AquaZone™ <sup>4</sup>	MERV-13	Reduction of O.A. ACHs	Hot gas reheat	Run Time	Efficiency
<b>Air Handling Units</b> AERO® <sup>3,4</sup>	MERV-13 to HEPA - 99.97%	Economizer function for increased O.A. ACHs	Increased cooling coil rows & energy recovery devices	DCV-CO <sub>2</sub> , RH (H <sub>2</sub> O or DX) & Run Time	VFD on Fan & Energy Recovery
<b>Water &amp; Air-Cooled Chillers</b> AquaSnap®/Force/Edge	Improved M.A.T & wb temps	Increased additional capacity for cooling	Additional increased capacity to allow for lower CWS temp	Chilled water temp. reset & Run Time	VFDs, Heat Pump, Reduction of lift & Cooling loop temp reset

<sup>1</sup>ASHRAE K-12 reopening recommendation • <sup>2</sup>CDC school mitigation qualifications • <sup>3</sup>Can be provided with UV-C lamps • <sup>4</sup>Can be provided with Ionization

## Four Ways to Improve Indoor Air Quality

Carrier can help you evaluate—and if necessary upgrade—four essential aspects of your school's current HVAC system to make sure it delivers a high level of indoor air quality (IAQ) to support key wellness initiatives.

### V increased VENTILATION

Bringing in more fresh outside air to replace indoor air can help reduce airborne contaminants.

### F improve FILTRATION

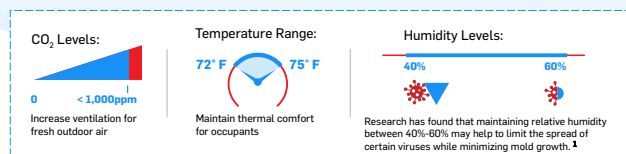
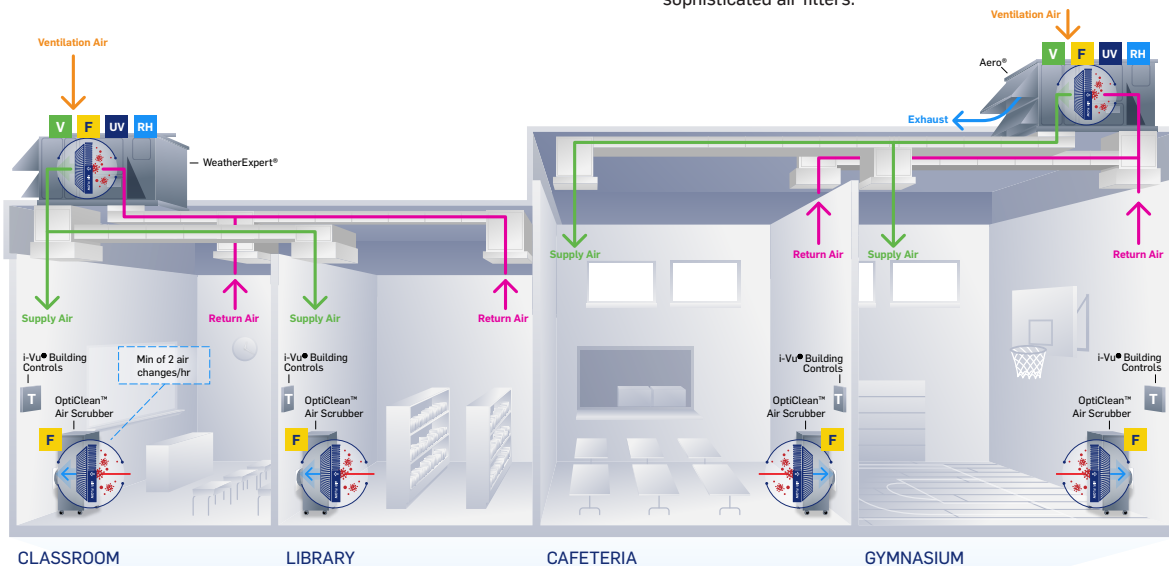
The higher the MERV rating, the more efficient the filter. ASHRAE recommends MERV 13 or higher for K-12 schools whenever possible.

### UV UV LAMPS/ IONIZATION

UV lights not only kill pathogens—they keep coils clean, which reduces pressure drop and enables the installation of more sophisticated air filters.

### RH relative HUMIDITY

Keeping indoor humidity within the ASHRAE 55 suggested range (40% and 60%) can minimize the effects of bacteria and certain allergens.



HEALTHYBUILDINGS