

Since 1982 Dynamic Air Quality Solutions has designed, engineered, and manufactured high-performance IAQ systems. From ASHRAE Headquarters to the world's most valuable art collection, these systems are installed in critical applications around the world. Headquartered in Princeton, New Jersey, our product range and experience enable us to meet and exceed the needs of our customers, even in the most challenging environments.

Check out our website at [www.DynamicAQS.com/commercial/](http://www.DynamicAQS.com/commercial/) for relevant PK-12 case studies that address a variety of challenges related to air quality, sustainability and maintenance, and the solutions that provided proven results.



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The Science of Clean Air™

## Sustainable Solutions for PK-12 Schools

SCHOOL

# We Know How to Protect Students and Staff



## Dynamic Engineered Systems Deliver:

- Improved Indoor Air Quality (IAQ)
- Less Energy
- Less Maintenance

For over 35 years, Dynamic Air Quality Solutions has been protecting the air in educational facilities with innovative solutions that optimize air quality, energy consumption, and sustainability. Founded by two university professors, academia has represented one of Dynamic's largest market segments. Today, schools and universities around the world rely on Dynamic's air cleaning technology to protect students and faculty, while reducing energy and maintenance costs.

### Impacts of Poor IAQ –

In the world of COVID-19, it is critical that we do everything we can to minimize the transmission of airborne contaminants. This includes improvements to the design and operation of HVAC systems by upgrading filtration systems for the highest removal efficiency of pathogens, bacteria and mold to provide optimal air quality protection.

Additionally, young students from pre-K to middle school are particularly vulnerable to the effects of poor air quality. Exposure to air pollution can directly affect lung development in children as well as contribute to decreased cognitive function. Evidence has shown that good IAQ has a positive impact on health and cognitive function of young students.

### Causes of Poor IAQ–

- **Outdoor air pollutants:** Brought into buildings with the ventilation air, outdoor pollutants can include harmful ultrafine particles and carcinogens found in engine exhaust from automobiles, school buses, or smoke.
- **Indoor air pollutants:** Most often attributed to off-gassing from furniture and building materials, or personal odors from occupants, indoor pollutants can also be attributed to chemicals or cleaning supplies and pollutants from the ventilation air.
- **Physical Location:** Schools located near highways or industrial plants are at increased risk of entraining harmful airborne contaminants into schools.
- **Older buildings:** Older buildings often provide environments for problematic pollutants like mold due to excessive moisture or water damage.

## Dynamic V8 Air Cleaning Systems

The Dynamic V8 Air Cleaning System is an award-winning filtration system that sets the standard for clean air. The ASHRAE guidelines for COVID-19 suggest MERV 13 or better filtration, making the Dynamic V8 an ideal choice for exceeding industry guidelines.

- MERV 15 performance
- Removal of ultrafine particles, odors and VOCs
- Low static pressure for retrofitting into older HVAC systems
- Verified Zero Ozone
- 8x Less Maintenance
- 67% less fan energy compared to MERV 14 filters.



Dynamic V8 Air Cleaning Systems are scalable and available in slide-out modules for packaged rooftops, duct mounted systems for VRF applications or installed in final filter roof curbs.



## Dynamic UVC Systems

UVC germicidal light is a proven means of protecting indoor spaces from viruses and pathogens. Contact with UVC light should be avoided with most synthetic conventional filters. Use of high-output UVC and a polarized glass media (1" and 2" Panels) can be combined to provide an effective catch, hold, kill solution.



## Dynamic 1" and 2" Air Cleaners

Dynamic 1" and 2" Panel Air Cleaners and V-Banks are available in various configurations to meet installation requirements. 1" and 2" Air Cleaners offer easy installation in existing filter racks and provide effective high-efficiency air cleaning.

