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.

**For more information, visit www.DynamicAQS.com**

Dynamic Air Quality Solutions

**Dynamic Air Quality Solutions**
PO Box 1258
Princeton, NJ 08542
800.578.7873
www.DynamicAQS.com

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Dynamic® Air Quality Solutions

The Science of Clean Air™

# Sustainable Solutions for Museums

# We Know Galleries, Libraries & Museums

**Dynamic Engineered Systems Deliver:**

- **Improved Indoor Air Quality (IAQ)**
- **Less Energy**
- **Less Maintenance**
- **Less Landfill Mass**
- **Smaller Carbon Footprint**
- **The Lowest Life Cycle Cost**

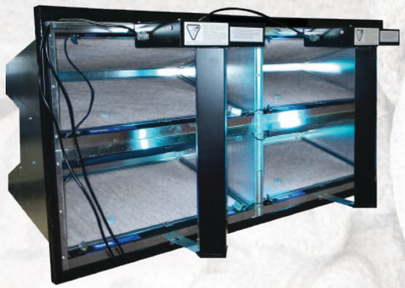
For over 35 years, Dynamic Air Quality Solutions has been working with museums, galleries, and libraries to improve indoor air quality (IAQ) and keep priceless artifacts safe. More subtle than art thieves, airborne contaminants can destroy irreplaceable collections. Economical and sustainable air cleaning systems, including the state-of-the-art Dynamic V8 Air Cleaning System, Dynamic Activated Carbon Matrix (ACM) System, and Dynamic Sterile Sweep UVC System keep airborne contaminants at bay, in addition to reducing energy and maintenance costs.

Dynamic Air Quality Solutions uses proven science-based methods to address indoor air quality needs with specifications engineered precisely for each job. Dynamic air cleaning systems clean indoor recirc air and incoming outdoor ventilation air, removing ultrafine particles, viruses, pathogens and gas phase contaminants. It has never been more important to keep the air we breathe free of contaminants.

## Dynamic V8® Air Cleaning System

Delivering MERV 15 performance, the award-winning Dynamic V8 Air Cleaning System replaces MERV 13-14+ conventional passive filtration systems, while operating at 1/3 the energy and maintenance costs. It sets the standard for air cleaning—outperforming anything on the market in contaminant control and cost of ownership. For example, on a 20,000 cfm air handler, the Dynamic V8 can save up to 30,000 kWh and 40,000 pounds of carbon per year. Further, lower fan horsepower requirements can also impact equipment selection and allow for use of smaller, quieter fans and equipment. And the Dynamic V8 holds 10 to 15 times the dust of a typical passive filter to provide a maintenance interval that is measured in YEARS rather than months.

## Dynamic Sterile Sweep® UVC



For use with Dynamic V-Bank Air Cleaners, the Dynamic Sterile Sweep Germicidal UVC Systems feature an oscillating germicidal lamp that kills airborne pathogens collected on the Air Cleaner surface area. A parabolic reflector provides additional concentration of UVC light. The Sterile Sweep high output UVC lamp offers the most effective means of controlling airborne pathogens and viruses including Anthrax.

## Dynamic ACM Systems

Dynamic Activated Carbon Matrix (ACM) Systems use state-of-the-art technology to remove gas phase contaminants, corrosive gases, and unwanted odors. Dynamic ACM Systems require less space, operate with very low pressure drop, and require no downstream filters, making it a perfect solution for a wide variety of applications where carbon filtration was previously not an option. Dynamic ACM Systems can be engineered for precise control of target contaminants.

**Valuable artifact repositories face a variety of unique challenges and Dynamic Air Quality Solutions provides solutions beyond just cleaning the air:**

### 1) Protecting staff and patrons

As a result of the COVID-19 pandemic, recommendations from the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) call for MERV 13 or better air filtration, in addition to other measures, to mitigate risks associated with the transmission of airborne contaminants including viruses.

### 2) Protecting valuable collections from airborne contaminants that can damage artifacts

Dust, dirt, and mold are just a few of the contaminants that can harm fragile artifacts by causing discoloration and buildup. Ozone and gas phase contaminants pose other threats that can speed up deterioration. Dynamic Air Quality Solutions offers solutions that address airborne ultrafine particles, biologicals, and gas phase contaminants.

### 3) Reducing energy consumption and saving energy

Reducing energy consumption is important for both financial and environmental sustainability reasons, and Dynamic helps meet these objectives.

### 4) Decreasing maintenance costs

The Dynamic V8 Air Cleaning System, with its dramatic dust loading capacity, offers a typical maintenance interval for filter media replacement, of over four years. That means no quarterly pre-filter changeouts and nine-month final filter replacements.

### 5) Reducing carbon emissions and landfill mass

Longer maintenance intervals and smaller footprints free up a lot of time for maintenance personnel to concentrate on other things. Less media change-outs also translates to less material use, lower disposal costs and a smaller environmental footprint for the building.

***Dynamic Air Cleaners are found in:***

- Museums
- Galleries
- Libraries
- Archives
- Rare Book Collections
- Aquariums
- Display Cases